

# **Lore of Running**

**Fourth Edition**

## ***References***

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**Human Kinetics**

- Abbott, R.D., Levy, D., Kannel, W.B., Castelli, W.P., Wilson, P.W.F., Garrison, R.J., Stokes, J. (1989). Cardiovascular risk factors and graded treadmill exercise endurance in healthy adults: The Framingham Offspring Study. *American Journal of Cardiology* 63(5), 342–46.
- Abdelmalki, A., Merino, D., Bonneau, D., Bigard, A.X., Guezennec, C.Y. (1997). Administration of a GABA<sub>B</sub> agonist Baclofen before running to exhaustion in the rat: Effects on performance and on some indicators of fatigue. *International Journal of Sports Medicine* 18, 75–78.
- Abe, D., Yanagawa, K., Yamanobe, K., Tamura, K. (1998). Assessment of middle-distance running performance in sub-élite young runners using energy cost running. *European Journal of Applied Physiology* 77, 320–25.
- Abe, T., Brown, J.B., Brechue, W.F. (1999). Architectural characteristic of skeletal muscle in black and white college football players. *Medicine and Science in Sports and Exercise* 31, 1448–52.
- Abe, T., Kumagai, K., Brechue, W.F. (2000). Fascicle length of leg muscles is greater in sprinters than distance runners. *Medicine and Science in Sports and Exercise* 32, 1125–29.
- Abraham, M.W. (1979). Exercise-induced muscle soreness. *Physician and Sportsmedicine* 7 (October), 57–60.
- Abraham, P., Saurnet, J.L., Chevalier, J.M. (1997). External iliac artery endofibrosis in athletes. *Sports Medicine* 24, 221–26.
- Abrahams A. (1930). The human machine: Its efficiency and limitations. *Lancet* 1, 174–77.
- Abrahams, A. (1951). Physical exercise: Its clinical associations. *Lancet* 1, 1187–92.
- Abrahams, A. (1961). *The Disabilities and Injuries of Sport*. Elek Books, London.
- Abrahams, S.F., Beaumont, P.J.V., Fraser, I.S., Llewellyn-Jones, D. (1982). Body weight, exercise and menstrual status among ballet dancers in training. *British Journal of Obstetrics and Gynaecology* 89, 507–10.
- Acevedo, E.O., Goldfarb, A.H. (1989). Increased training intensity effects on plasma lactate, ventilatory threshold, and endurance. *Medicine and Science in Sports and Exercise* 21, 563–68.
- Adams, E. (1987). Ultrarunning for women. In A. Milroy (Ed.), *Training for Ultras*. British Road Runners Club, London, 19–22.
- Adams, I.D. (1976). Osteoarthritis and sport. *Clinics in Rheumatic Diseases* 2, 523–42.
- Adams, R.P., Welch, H.G. (1980). Oxygen uptake, acid-base status, and performance with varied inspired oxygen fractions. *Journal of Applied Physiology* 49, 863–68.
- Adams, T.M., Brynteson, P. (1992). A comparison of attitudes and exercise habits of alumni from colleges with varying degrees of physical education activity programs. *Research Quarterly for Exercise and Sport* 63, 148–52.
- Adams, W.C., Mack, G.W., Langhans, G.W., Nadel, E.R. (1992). Effects of varied air velocity on sweating and evaporative rates during exercise. *Journal of Applied Physiology* 73, 2668–74.
- Adams, W.C., Schelegle, E.S. (1983). Ozone toxicity effects consequent to prolonged high-intensity exercise in trained endurance athletes. *Journal of Applied Physiology* 55, 805–12.
- Adler, R., Bongar, B., Katz, E.R. (1982). Psychogenic abdominal pain and parental pressure in childhood athletics. *Psychosomatics* 23, 1185–86.
- Adolph, E.E. (1947). *Physiology of Man in the Desert*. Interscience, New York.
- Adolph, E.F., Fulton, W.B. (1924). The effects of exposure to high temperatures upon the circulation in man. *American Journal of Physiology* 67, 573–88.
- Adopo, E., Péronnet, F., Massicotte, D., Brisson, G.R., Hillaire-Marcel, C. (1994). Respective oxidation of exogenous glucose and fructose given in the same drink during exercise. *Journal of Applied Physiology* 76, 1014–19.
- Ahlborg, B., Bergström, J., Brohult, J., Ekelund, L.G., Hultman, E., Maschio, G. (1967a). Human muscle glycogen content and capacity for prolonged exercise after different diets. *Forvarsmedicin* 3, 85–99.
- Ahlborg, B., Bergström, J., Ekelund, L.G., Hultman, E. (1967b). Muscle glycogen and muscle electrolytes during prolonged physical exercise. *Acta Physiologica Scandinavica* 70, 129–42.
- Ahlborg, G., Bjorkman, O. (1987). Carbohydrate utilization by exercising muscle following pre-exercise glucose ingestion. *Clinical Physiology* 7, 181–95.
- Ahlborg, G., Felig, P. (1982). Lactate and glucose exchange across the forearm, legs and splanchnic bed during and after prolonged exercise. *Journal of Clinical Investigation* 69, 45–54.
- Ahlborg, G., Felig, P., Hagenfeldt, L., Hendler, R., Wahren, J. (1974). Substrate turnover during prolonged exercise in man: Splanchnic and leg metabolism of glucose, free fatty acids, and amino acids. *Journal of Clinical Investigation* 53, 1080–90.
- Ahlborg, G., Wahren, J., Felig, P. (1986). Splanchnic and peripheral glucose and lactate metabolism during and after prolonged arm exercise. *Journal of Clinical Investigations* 77, 690–99.
- Aitken, A. (1983). The supreme ultra road racer. *Athletics Weekly* 37 (November 12), 4–9.
- Aitken, A. (1984). Bedford. *Marathon and Distance Runner* 3 (June), 25–30.
- Akiya, I., Nemoto, I., Sakurai, S., Yabe, K. (1998). ENG activity of stretch-shortening cycle in middle-aged men. *Medicine and Science in Sports and Exercise* 30, S252.
- Albanes, D., Blair, A., Taylor, P.R. (1989). Physical activity and risk of cancer in the NHANES I population. *American Journal of Public Health* 79, 744–50.
- Albert, C.M., Hennekens, C.H., O'Donnell, C.J., Ajani, U.A., Carey, V.J., Willett, W.C., Ruskin, J.N., Manson, J.E. (1998). Fish consumption and risk of sudden cardiac death. *Journal of the American Medical Association* 279, 23–28.
- Aldoori, W.H., Giovannucci, E.L., Rimm, E.B., Ascherio, A., Stampfer, M.J., Colditz, G.A., Wing, A.L., Trichopoulos, D.V., Willett, W.C. (1995). Prospective study of physical activity and the risk of symptomatic diverticular disease in men. *Gut* 36, 276–82.
- Aldridge, R., Cady, E.B., Jones, D.A., Obletter, G. (1986). Muscle pain after exercise is linked with an inorganic phosphate increase as shown by <sup>31</sup>P NMR. *Bioscience Reports* 6, 663–67.
- Alexander, M. (1985). *The Comrades Marathon Story* (3rd ed.). Juta, Cape Town, South Africa.

- Alexander, R.McN., Bennet-Clark, H.C. (1977). Storage of elastic strain energy in muscle and other tissues. *Nature* 265, 114–17.
- Alexander, R.McN., Bennett, M. (1989). How elastic is a running shoe? *New Scientist* 15 (July), 45–46.
- Alexander, R.M. (1987). The spring in your step. *New Scientist* April, 42–44.
- Alfredson, H., Pietila, T., Jonsson, P., Lorentzon, R. (1998). Heavy-load eccentric calf muscle training for the treatment of chronic Achilles tendinosis. *American Journal of Sports Medicine* 26, 360–66.
- Allen, M. (1996a). Introduction. In P. Maffetone, *Training for Endurance*. Barmore, Stamford, NY, 1–175.
- Allen, M. (1996b). Training secrets from the elite. In A. Seversson (Ed.), *The Total Triathlon Almanac* 3. Trimarket, Palo Alto, CA, 86–98.
- Allen, M. (1998a). Interview: Mark Allen. *Florida Sports* (May), 16–20.
- Allen, M. (1998b). A space between two thoughts. *Triathlete* (October), 38–43.
- Allen, M., Webster, C.A., Storz, M., Bruno, J., Cove, L. (1986). Fitness class injuries: Floor surface, malalignments and a new “squat test.” *Annals of Sport Medicine* 3, 14–18.
- Allen, M.E., Coen, D. (1987). Naloxone blocking of running-induced mood changes. *Annals of Sports Medicine* 3, 190–95.
- Allen, M.J., Barnes, M.R. (1986). Exercise pain in the lower leg: Chronic compartment syndrome and the medial tibial syndrome. *Journal of Bone and Joint Surgery* 68-B, 818–23.
- Allison, D.B., Fontaine, K.R., Manson, J.E., Stevens, J., van Itallie, T.B. (1999). Annual deaths attributable to obesity in the United States. *Journal of the American Medical Association* 282, 1530–38.
- Almeida, S.A., Williams, K.M., Shaffer, R.A., Brodine, S.K. (1999). Epidemiological patterns of musculoskeletal injuries and physical training. *Medicine and Science in Sports and Exercise* 31, 1176–82.
- Almekinders, L.C., Temple, J.D. (1998). Etiology, diagnosis, and treatment of tendonitis: An analysis of the literature. *Medicine and Science in Sports and Exercise* 30, 1183–90.
- Alpha-Tocopherol, Beta Carotene Cancer Prevention Study Group, The. (1994). The effect of vitamin E and beta carotene on the incidence of lung cancer and other cancers in male smokers. *New England Journal of Medicine* 330, 1029–35.
- Alter, M. (1996). *Science of Flexibility*, 2<sup>nd</sup> ed. Human Kinetics, Champaign, IL.
- Alter, M. (1998). *Sport Stretch*, 2<sup>nd</sup> ed. Human Kinetics, Champaign, IL.
- Altshul, V.A. (1981a). Head injuries. *Running* 7 (January–February), 12.
- Altshul, V.A. (1981b). Should we advise our depressed patients to run? In M.H. Sacks, M.L. Sachs (Eds.), *The Psychology of Running*. Human Kinetics, Champaign, IL. 50–56.
- Alvarez, R., Terrados, N., Ortolano, R., Iglesias-Cubero, G., Reguero, J.R., Batalla, A., Cortina, A., Fernández-García, B., Rodriguez, C., Braga, S., Alvarez, V., Coto, E. (2000). Genetic variation in the renin-angiotensin system and athletic performance. *European Journal of Applied Physiology* 82, 117–20.
- Amberson, W.R. (1943). Physiologic adjustments to the standing posture. *Bulletin of the Maryland University School of Medicine* 27, 127–45.
- American Academy of Pediatrics. (1983). Climatic heat stress and the exercising child. *Physician and Sportsmedicine* 11 (August), 155–59.
- American College of Obstetrics and Gynecology. (1994). Exercise during pregnancy and the postpartum period: ACOG technical bulletin 189—February 1994. *International Journal of Gynecology and Obstetrics* 45, 65–70.
- American College of Sports Medicine. (1975). Position statement on the prevention of heat injury during distance running. *Medicine and Science in Sports and Exercise* 7, vii–ix.
- American College of Sports Medicine. (1978). Position statement on the recommended quantity and quality of exercise for developing and maintaining fitness in healthy adults. *Medicine and Science in Sports and Exercise* 10, vii–x.
- American College of Sports Medicine. (1985). Position statement on the prevention of thermal injuries during distance running. *Medicine and Science in Sports and Exercise* 17, ix–xiv.
- American College of Sports Medicine. (1986). *Guidelines for Graded Exercise Testing and Exercise Prescription* (3rd ed.). Philadelphia, Lea and Febiger.
- American College of Sports Medicine. (1987). Position stand: Prevention of thermal injuries during distance running. *Medicine and Science in Sports and Exercise* 19, 529–33.
- American College of Sports Medicine. (1996a). Position stand: Exercise and fluid replacement. *Medicine and Science in Sports and Exercise* 28, i–vii.
- American College of Sports Medicine. (1996b). Position stand: Heat and cold illnesses during distance running. *Medicine and Science in Sports and Exercise* 28, i–x.
- American College of Sports Medicine. (1996c). Position stand: The use of blood doping as an ergogenic aid. *Medicine and Science in Sports and Exercise* 28, i–viii.
- American College of Sports Medicine. (1997). Position stand: The female athlete triad. *Medicine and Science in Sports and Exercise* 29, i–ix.
- American College of Sports Medicine. (2000). Roundtable: The physiological and health effects of oral creatine supplementation. *Medicine and Science in Sports and Exercise* 32, 706–17.
- Anantaraman, R., Carmines, A.A., Gaesser, G.A., Weltman, A. (1995). Effects of carbohydrate supplementation on performance during 1 hour of high-intensity exercise. *International Journal of Sports Medicine* 16, 461–65.
- Andersen, A.E., Watson, T., Schlechte, J. (2000). Osteoporosis and osteopenia in men with eating disorders. *Lancet* 355, 1967–68.
- Andersen, J.L., Schjerling, P., Saltin, B. (2000). Muscle, genes and athletic performance. *Scientific American* (September), 31–37.
- Andersen, P., Henriksson, J. (1977). Capillary supply of the quadriceps femoris muscle in man: Adaptive response to exercise. *Journal of Physiology* 270, 677–90.
- Andersen, P., Sjogaard, G. (1976). Selective glycogen depletion in the sub-groups of Type II muscle fibres during submaximal exercise in man. *Acta Physiologica Scandinavica* 96, 26A–27A.

- Andersen, R.E., Crespo, C.J., Bartlett, S.J., Cheskin, L.J., Pratt, M. (1998). Relationship of physical activity and television watching with body weight and level of fatness among children. *Journal of the American Medical Association* 279, 938–42.
- Anderson, B. (1975). *Stretching*. World, Mountain View, CA.
- Anderson, D.E.H., Nygren, A. (1978). Four cases of long-standing diarrhoea and colic pains cured by fructose-free diet: A pathogenetic discussion. *Acta Medica Scandinavica* 203, 87–92.
- Anderson, D.L., Taunton, J.E., Davidson, R.G. (1992). Surgical management of chronic Achilles tendinitis. *Clinical Journal of Sport Medicine* 2, 38–42.
- Anderson, K.M., Castelli, W.P., Levy, D. (1987). Cholesterol and mortality: 30 years of follow-up from the Framingham Study. *Journal of the American Medical Association* 257, 2176–80.
- Anderson, M., Bergman, E.A., Nethery, V.M. (1994). Preexercise meal affects ride time to fatigue in trained cyclists. *Journal of the American Dietetic Association* 94, 1152–53.
- Anderson, M.E., Bruce, C.R., Fraser, S.F., Stepto, N.K., Klein, R., Hopkins, W.G., Hawley, J.A. (2000). Improved 2000-meter rowing performance in competitive oarswomen after caffeine ingestion. *International Journal of Sports Nutrition and Exercise Metabolism* 10, 464–75.
- Anderson, O. (1992). Why are Kenyans best? Swedish scientist combs Kenyan runners. *Running Research News* 8(3) (May–June), 1–6.
- Anderson, O. (1993). In the halls of the mountain kings, it's survival of the fittest. *Running Research News* 9(2) (March–April), 1–6.
- Anderson, W.P., Reid, C.M., Jennings, G.L. (1992). Pet ownership and risk factors for cardiovascular disease. *Medical Journal of Australia* 157, 298–301.
- Andersson, B., Xu, X.F., Rebuffe-Scrive, M., Terning, K., Krotkiewski, M., Björntorp, P. (1991). The effects of exercise, training on body composition and metabolism in men and women. *International Journal of Obesity* 15, 75–81.
- Andrew, G.M., Becklake, M.R., Guleria, J.S., Bates, D.V. (1972). Heart and lung function in swimmers and non-athletes during growth. *Journal of Applied Physiology* 32, 245–51.
- Andrews, H. (1903). *Training for Athletics and General Health*. Pearson, London.
- Andrews, H. (1910). The finding of Alfred Shrubbs. *The Athletic Field and Swimming World* (February 5), 2.
- Andrianopoulos, G., Nelson, R.L., Bombeck, C.T., Souza, G. (1987). The influence of physical activity in 1,2 dimethylhydrazine induced colon carcinogenesis in the rat. *Anticancer Research* 7, 849–52.
- Anonymous. (1988). Shooting stars: Triathlete picks five to be great in '88. *Triathlete* 56, 32–34.
- Anonymous. (1998). Science and surprises: "Does anyone understand me?" *Triathlete* 169, 26.
- Anselme, F., Collomp, K., Mercier, B., Ahmäidi, S., Prefaut, C. (1992). Caffeine increases maximal anaerobic power and blood lactate concentration. *European Journal of Applied Physiology* 65, 188–91.
- Apley, J. (1978). So we'll go no more a-jogging. *British Medical Journal* 1, 1548.
- Arad, Y., Spadaro, L.A., Goodman, K., Lledo-Perez, A., Sherman, S., Lemer, G., Guerci, A.D. (1996). Predictive value of electron beam computed tomography of the coronary arteries: 19-month follow-up of 1,173 asymptomatic subjects. *Circulation* 93, 1951–53.
- Archdeacon, J.W., Murlin, J.R. (1944). The effect of thiamin depletion and restoration on muscular endurance and efficiency. *Journal of Nutrition* 28, 241–54.
- Ardis, C.M., Morris, G.S., Erickson, C.L., Farrar, R.P. (1989). Both acute and chronic exercise enhance in vivo ethanol clearance in rats. *Journal of Applied Physiology* 66, 555–60.
- Arieli, A., Epstein, Y., Brill, S., Winer, M., Shapiro, Y. (1985). Effect of food intake on exercise fatigue in trained and untrained subjects. *European Journal of Applied Physiology* 54, 297–300.
- Ariëns, G.A.M., van Mechelen, W., Kemper, H.C.G., Twisk, J.W.R. (1997). The longitudinal development of running economy in males and females aged between 13 and 27 years: The Amsterdam Growth and Health Study. *European Journal of Applied Physiology* 76, 214–20.
- Arlidge, J. (2000). Black men can run faster. *Mail and Guardian* (December 1), 7.
- Armentia, A., Martin-Santos, J.M., Blanco, M., Carretero, L., Puyo, M., Barber, D. (1990). Exercise-induced anaphylactic reaction to grain flours. *Annals of Allergy* 65, 149–51.
- Armstrong, L.E., Crago, A.E., Adams, R., Roberts, W.O., Maresh, C.M. (1996). Whole-body cooling of hyperthermia runners: Comparison of two field therapies. *American Journal of Emergency Medicine* 14, 355–58.
- Armstrong, L.E., Curtis, W.C., Hubbard, R.W., Francesconi, R.P., Moore, R., Askew, E.W. (1993). Symptomatic hyponatremia during prolonged exercise in heat. *Medicine and Science in Sports and Exercise* 25, 543–49.
- Armstrong, L.E., Maresh, C.M. (1991). The induction and decay of heat acclimatisation in trained athletes. *Sports Medicine* 12, 302–12.
- Armstrong, L.E., Maresh, C.M., Gabaree, C.V., Hoffman, J.R., Kavouras, S.A., Kenefick, R.W., Castellani, J.W., Ahlquist, L.E. (1997). Thermal and circulatory responses during exercise: Effects of hypohydration, dehydration and water intake. *Journal of Applied Physiology* 82, 2028–35.
- Armstrong, L.E., Soto, J.A.H., Hacker, F.T., Casa, D.J., Kavouras, S.A., Maresh, C.M. (1998). Urinary indices during dehydration, exercise, and rehydration. *International Journal of Sport Nutrition* 8, 345–55.
- Armstrong, R.B. (1984). Mechanisms of delayed muscular soreness: A brief review. *Medicine and Science in Sports and Exercise* 16, 529–38.
- Arnaud, M.J. (1998). Chemistry and physiological effects. In M.J. Sadler, B. Caballero, J.J. Strain (Eds.), *Encyclopedia of Human Nutrition*. Academic Press, London, 206–14.
- Aronen, J.G., Chronister, R., Regan, K., Hensien, M.A. (1993). Practical, conservative management of iliotibial band syndrome. *Physician and Sportsmedicine* 21(6), 59–69.
- Aronow, W.S. (1972). Effect of freeway travel on angina pectoris. *Annals of Internal Medicine* 77, 669–76.
- Artal, R., Sherman, C. (1999). Exercise during pregnancy. *Physician and Sportsmedicine* 27(8), 51–75.
- Ashenden, M.J., Fricker, P.A., Ryan, R.K., Morrison, N.K., Dobson, G.P., Hahn, A.G. (1998). The haematological response to an iron injection amongst female athletes. *International Journal of Sports Medicine* 19, 474–78.

- Ashenden, M.J., Gore, C.J., Dobson, G.P., Boston, T.T., Parisotto, R., Emslie, K.R., Trout, G.J., Hahn, A.G. (2000). Simulated moderate altitude elevates serum erythropoietin but does not increase reticulocyte production in well-trained runners. *European Journal of Applied Physiology* 81, 428–35.
- Ashenden, M.J., Gore, C.J., Dobson, G.P., Hahn, A.G. (1999a). "Live high, train low" does not change the total haemoglobin mass of male endurance athletes sleeping at a simulated altitude of 3000 m for 23 nights. *European Journal of Applied Physiology* 80, 479–84.
- Ashenden, M.J., Gore, C.J., Martin, D.T., Dobson, G.P., Hahn, A.G. (1999b). Effects of a 12-day "live high, train low" camp on reticulocyte production and haemoglobin mass in elite female road cyclists. *European Journal of Applied Physiology* 80, 472–78.
- Asher, R. (1951). Munchausen's syndrome. *Lancet* 1, 339–41.
- Asmussen, R.B. (1956). Observations on experimental muscle soreness. *Acta Rheumatica Scandinavica* 2, 109–16.
- Asp, S., Daugaard, J.R., Rohde, T., Adamo, K., Graham, T. (1999). Muscle glycogen accumulation after a marathon: Roles of fiber type and pro- and mactoglycogen. *Journal of Applied Physiology* 86, 474–78.
- Asp, S., Rohde, T., Richter, E.A. (1997). Impaired muscle glycogen resynthesis after a marathon is not caused by decreased muscle GLUT4 content. *Journal of Applied Physiology* 83, 1482–85.
- Åstrand, P.O. (1955). New records in human power. *Nature* 176, 922–23.
- Åstrand, P.O., Hultman, E., Juhlin-Dannfelt, A., Reynold, G. (1986). Disposal of lactate during and after strenuous exercise in humans. *Journal of Applied Physiology* 61, 338–43.
- Åstrand, P.O., Rodahl, K. (1977). *Textbook of Work Physiology*. McGraw-Hill, New York.
- Astrom, E. (1977). Human skeletal muscle in bacterial infection: Enzyme activities and their relationship to age. *Scandinavian Journal of Infectious Diseases* 9, 193–95.
- Astrom, E., Friman, G., Pilstrom, L. (1976). Effect of viral and mycoplasma infections on ultrastructure and enzyme activities in human skeletal muscle. *Acta Pathologica Microbiologica Scandinavica* 84, 113–22.
- Atkinson, G., Coldwells, A., Reilly, T., Waterhouse, J. (1993). A comparison of circadian rhythms in work performance between physically active and inactive subjects. *Ergonomics* 36, 273–81.
- Atkinson, G., MacLaren, D., Taylor, C. (1994). Blood lead levels of British competitive cyclists. *Ergonomics* 37, 43–48.
- Atwell, E.A., Jackson, D.W. (1991). Stress fractures of the sacrum in runners: Two case reports. *American Journal of Sports Medicine* 19, 531–33.
- Auclair, E., Satabin, P., Servan, E., Guezennec, C.Y. (1988). Metabolic effects of glucose, medium chain triglyceride and long chain triglyceride feeding before prolonged exercise. *European Journal of Applied Physiology* 57, 126–31.
- Avela, J., Komi, P.V. (1998a). Interaction between muscle stiffness and stretch reflex sensitivity after long-term stretch-shortening cycle exercise. *Muscle Nerve* 21, 1224–27.
- Avela, J., Komi, P.V. (1998b). Reduced stretch reflex sensitivity and muscle stiffness after long-lasting stretch-shortening cycle exercise in humans. *European Journal of Applied Physiology* 76, 403–10.
- Avery, C.A. (1991). Abdominal obesity: Scaling down this deadly risk. *Physician and Sportsmedicine* 19 (October), 137–43.
- Ayers, J.W.T., Komesu, Y., Romani, T., Ansbacher, R. (1985). Anthropomorphic, hormonal and psychologic correlates of semen quality in endurance-trained male athletes. *Fertility and Sterility* 4, 917–21.
- Ayre, K.J., Hulbert, A.J. (1997). Dietary fatty acid profile affects endurance in rats. *Lipids* 32, 1265–70.
- Ayus, J.C., Varon, J., Arieff, A.I. (2000). Hyponatremia, cerebral edema, and noncardiogenic pulmonary edema in marathon runners. *Annals of Internal Medicine* 132, 711–14.
- Backer, H.D., Shopes, E., Collins, S.L. (1993). Hyponatremia in recreational hikers in Grand Canyon National Park. *Journal of Wilderness Medicine* 4, 391–406.
- Baecke, J.A., Van Staveren, W.A., Burema, J. (1983). Food consumption, habitual physical activity, and body fatness in young Dutch adults. *American Journal of Clinical Nutrition* 37, 278–86.
- Baekeland, F. (1970). Exercise deprivation: Sleep and psychological reactions. *Archive of General Psychiatry* 22, 365–69.
- Bahr, R., Inghes, I., Vaage, O., Sejersted, O.M., Newsholme, E.A. (1987). Effect of duration of exercise on excess postexercise  $O_2$  consumption. *Journal of Applied Physiology* 62, 485–90.
- Bahr, R., Sejersted, O.M. (1991). Effect of intensity of exercise on excess post-exercise  $O_2$  consumption. *Metabolism* 40, 836–41.
- Bahrke, M.S., Morgan, W.P. (1981). Anxiety reduction following exercise and meditation. In M.H. Sacks, M.L. Sachs (Eds.), *The Psychology of Running*. Human Kinetics, Champaign, IL. 57–66.
- Bahrke, M.S., Morgan, W.P. (2000). Evaluation of the ergogenic properties of Ginseng. *Sports Medicine* 29, 113–33.
- Bailey, D.M., Davies, B. (1997). Physiological implications of altitude training for endurance performance at sea-level: A review. *British Journal of Sports Medicine* 31, 183–90.
- Bailey, D.M., Davies, B., Romer, L., Castell, L., Newsholme, E., Gandy, G. (1998). Implications of moderate altitude training for sea-level endurance in elite distance runners. *European Journal of Applied Physiology* 78, 360–68.
- Bailey, S.P., Davis, J.M., Ahlborn, E.N. (1993). Serotonergic agonists and antagonists affect endurance performance in the rat. *International Journal of Sports Medicine* 16, 330–33.
- Bainbridge, F.A. (1931). The physiology of muscular exercise (3rd ed.). Bock, A.V., Dill, D.B. (Eds.). Longmans, Green, London.
- Baker, E.R., Mathur, R.S., Kirk, R.F., Williamson, H.O. (1981). Female runners and secondary amenorrhoea: Correlation with age, parity, mileage and plasma hormonal and sex-hormone-binding globulin concentrations. *Fertility and Sterility* 36, 183–87.
- Baker, E.R., Stevens, C., Lenker, R. (1988). Relationship of exercise to semen parameters and fertility success of artificial insemination donors. *Journal of the South Carolina Medical Association* 84, 580–82.
- Bale, J., Sang, J. (1996). *Kenyan Running: Movement Culture, Geography and Global Change*. Frank Cass, London.

- Bale, P., Nelson, G. (1985). The effects of menstruation on performance of swimmers. *Australian Journal of Science and Medicine in Sport* 17, 19–22.
- Bale, P., White, M. (1982). The effects of smoking on the health and sleep of sportswomen. *British Journal of Sports Medicine* 16, 149–53.
- Ballard-Barbash, R., Schatzkin, A., Albanes, D., Schiffman, M.H., Kreger, B.E., Kannel, W.B., Anderson, K.M., Helsel, W.E. (1990). Physical activity and risk of large bowel cancer in the Framingham Study. *Cancer Research* 50, 3610–13.
- Ball-Burnett, M., Green, H.J., Houston, M.E. (1991). Energy metabolism in human slow and fast twitch fibres during prolonged cycle exercise. *Journal of Physiology* 437, 257–67.
- Ballor, D.L., Poehlman, E.T. (1994). Exercise-training enhances fat-free mass preservation during diet-induced weight loss: A meta-analytical finding. *International Journal of Obesity* 18, 35–40.
- Balsom, P.D., Gaitanos, G.C., Söderlund, K., Ekblom, B. (1999). High-intensity exercise and muscle glycogen availability in humans. *Acta Physiologica Scandinavica* 165, 337–45.
- Bam, J., Noakes, T.D., Juritz, J., Dennis, S.C. (1997). Could women outrun men in ultramarathon races? *Medicine and Science in Sports and Exercise* 29, 244–47.
- Bamber, D., Cockerill, I.M., Carroll, D. (2000a). The pathological status of exercise dependence. *British Journal of Sports Medicine* 34, 125–32.
- Bamber, D., Cockerill, I.M., Rodgers, S., Carroll, D. (2000b). "It's exercise or nothing": A qualitative analysis of exercise dependence. *British Journal of Sports Medicine* 34, 423–30.
- Bang, H.O., Dyerberg, J., Sinclair, H.M. (1980). The composition of the Eskimo food in north western Greenland. *American Journal of Clinical Nutrition* 33, 2657–61.
- Banga, J.P., Pinder, J.C., Gratzner, W.B., Lynch, D.C., Huehns, E.R. (1979). An erythrocyte membrane protein anomaly in march haemoglobinuria. *Lancet* 2, 1049.
- Bangsbo, J., Gollnick, P.D., Graham, T.E., Saltin, B. (1991). Substrates for muscle glycogen synthesis in recovery from intense exercise in man. *Journal of Physiology* 434, 432–40.
- Bangsbo, J., Graham, T.E., Kiens, B., Saltin, B. (1992). Elevated muscle glycogen and anaerobic energy production during exhaustive exercise in man. *Journal of Physiology* 451, 205–27.
- Banister, E.W., Cameron, B.J.C. (1990). Exercise-induced hyperammonemia: Peripheral and central effects. *International Journal of Sports Medicine* 11 (Suppl 2), S129–42.
- Banister, E.W., Carter, J.B., Zarkadas, P.C. (1999). Training theory and taper: Validation in triathlon athletes. *European Journal of Applied Physiology* 79, 182–91.
- Bank, W.J. (1977). Myoglobinuria in marathon runners: Possible relationship to carbohydrate and lipid metabolism. *Annals of the New York Academy of Sciences* 301, 942–48.
- Banks, P., Bartley, W., Birt, L.M. (1976). *The Biochemistry of the Tissues*. Wiley & Sons, London.
- Bannister, R.G. (1955). *The First Four Minutes*. Putnam, London.
- Bannister, R.G. (1956). Muscular effort. *British Medical Bulletin* 12, 222–25.
- Bannister, R.G. (1981). *The Four-Minute Mile*. Dodd, Mead, New York.
- Bannister, R.G., Cunningham, D.J.C. (1954). The effects on the respiration and performance during exercise of adding oxygen to the inspired air. *Journal of Physiology* 125, 118–37.
- Bannister, R.G., Cunningham, D.J.C., Douglas, C.G. (1954). The carbon dioxide stimulus to breathing in severe exercise. *Journal of Physiology* 125, 90–117.
- Barclay, G.R., Turnberg, L.A. (1988). Effect of moderate exercise on salt and water transport in the human jejunum. *Gut* 29, 816–20.
- Barcroft, H., Edblom, O.G., McMichael, J., Sharpey-Schafer, E.P. (1994). Posthaemorrhagic fainting. Study by cardiac output and forearm flow. *Lancet* 1, 489–90.
- Barefoot, J.C., Patterson, J.C., Haney, T.L., Cayton, T.G., Hickman, J.R., Williams, R.B. (1994). Hostility in asymptomatic men with angiographically confirmed coronary artery disease. *American Journal of Cardiology* 74, 439–42.
- Barlow, C.E., Kohl, H.W., Gibbons, L.W., Blair, S.N. (1995). Physical fitness, mortality and obesity. *International Journal of Obesity* 19 (Suppl 4), S41–44.
- Barnett, C., Costill, D.L., Vukovich, M.D., Cole, K.J., Goodpaster, B.H., Trappe, S.W., Fink, W.J. (1994). Effect of L-carnitine supplementation on muscle and blood carnitine content and lactate accumulation during high-intensity sprint cycling. *International Journal of Sport Nutrition* 4, 280–88.
- Barnett, C., Hinds, M., Jenkins, D.G. (1996). Effects of oral creatine supplementation on multiple sprint cycle performance. *Australian Journal of Science in Medicine and Sport* 28, 35–39.
- Barr, S.I., Costill, D.L. (1989). Water: Can the endurance athlete get too much of a good thing? *Journal of the American Dietetics Association* 89, 1629–35.
- Barr, S.I., Costill, D.L., Fink, W.J. (1991). Fluid replacement during prolonged exercise: effects of water, saline, or no fluid. *Medicine and Science in Sports and Exercise* 23, 811–17.
- Barron, J.L., Noakes, T.D., Levy, W., Smith, S., Millar, R.P. (1985). Hypothalamic dysfunction in overtrained athletes. *Journal of Endocrinology and Metabolism* 60, 803–06.
- Barrow, G.W., Saha, S. (1988). Menstrual irregularity and stress fractures in collegiate female distance runners. *American Journal of Sports Medicine* 16, 209–15.
- Barry, A., Cantwell, T., Doherty, F., Folan, J.C., Ingoldsby, M., Kevany, J.P., O'Broin, J.D., O'Connor, H., O'Shea, B., Ryan, B.A., Vaughan, J. (1981). A nutritional study of Irish athletes. *British Journal of Sports Medicine* 15, 99–109.
- Bartram, H.P., Wynder, E.L. (1989). Physical activity and colon cancer risk? Physiological considerations. *American Journal of Gastroenterology* 84, 109–112.
- Baska, R.S., Moses, F.M., Graeber, G., Kearney, G. (1990). Gastrointestinal bleeding during an ultramarathon. *Digestive Diseases and Sciences* 35, 276–79.
- Bass, S.L. (2000). The prepubertal years: A uniquely opportune stage of growth when the skeleton is most responsive to exercise? *Sports Medicine* 30, 73–78.
- Bass, S.L., Myburgh, K.H. (1999). The role of exercise in the attainment of peak bone mass and bone strength. In M.P.Warren, N.W. Constantini (Eds.), *Sports Endocrinology*. Human Press, Totowa, NJ, 253–80.

- Bassett, D.R. (1994). Skeletal muscle characteristics: Relationships to cardiovascular risk factors. *Medicine and Science in Sports and Exercise* 26, 957–66.
- Bassett, D.R., Howley, E.T. (1997). Maximal oxygen uptake: "Classical" versus "contemporary" viewpoints. *Medicine and Science in Sports and Exercise* 29, 591–603.
- Bassett, D.R., Howley, E.T. (2000). Limiting factors for maximum oxygen uptake and determinants of endurance performance. *Medicine and Science in Sports and Exercise* 32, 70–84.
- Bassett, D.R., Nagle, F.J., Mookerjee, S., Darr, K.C., Ng, A.V., Voss, S.G., Napp, J.P. (1987). Thermoregulatory responses to skin wetting during prolonged treadmill running. *Medicine and Science in Sports and Exercise* 19, 28–32.
- Bassler, T.J. (1977). Marathon running and immunity to atherosclerosis. *Annals of the New York Academy of Sciences* 301, 579–92.
- Bastiaans, J.J., van Diemen, A.B.J.P., Veneberg, T., Jeukendrup, A.E. (2001). The effects of replacing a portion of endurance training by explosive strength training on performance in trained cyclists. *European Journal of Applied Physiology* 86(1), 79–84.
- Bates, B.T., Ostering, L.R., Mason, B., James, L.S. (1979). Foot orthotic devices to modify selected aspects of lower extremity mechanics. *American Journal of Sports Medicine* 7, 338–42.
- Batt, M.E., Tanji, J.L., Skattum, N. (1996). Plantar fasciitis: A prospective randomized clinical trial of the tension night splint. *Clinical Journal of Sport Medicine* 6, 158–62.
- Batt, M.E., Ugalde, V., Anderson, M.W., Shelton, D.K. (1998). A prospective controlled study of diagnostic imaging for acute shin splints. *Medicine and Science in Sports and Exercise* 30, 1564–71.
- Baxter-Jones, A., Helms, P. (1994). Born too late to win? *Nature* 370, 186.
- Baxter-Jones, A.D.G. (1995). Growth and development of young athletes. *Sports Medicine* 20, 59–64.
- Baxter-Jones, A.D.G., Helms, P., Baines-Peece, J., Preece, M. (1994). Menarche in intensively trained gymnasts, swimmers and tennis players. *Annals of Human Biology* 21, 407–15.
- Baxter-Jones, A.D.G., Helms, P., Maffulli, N., Baines-Preece, J.C., Preece, M. (1995). Growth and development of male gymnasts, swimmers, soccer and tennis players: A longitudinal study. *Annals of Human Biology* 22, 381–94.
- Bean, W.B., Eichna, L.W. (1943). Performance in relation to environmental temperature: Reactions of normal young men to simulated desert environment. *Federation Proceedings* 2, 144–58.
- Beard, C.M., Barnard, R.J., Robbins, D.C., Ordovas, J.M., Schaefer, E.J. (1996). Effects of diet and exercise on qualitative and quantitative measures of LDL and its susceptibility to oxidation. *Arteriosclerosis Thrombosis and Vascular Biology* 16, 201–07.
- Beaulieu, J.E. (1981). Developing a stretching programme. *Physician and Sportsmedicine* 9 (November), 59–69.
- Bebb, J., Brewer, J., Patton, A., Williams, C. (1984). Endurance running and the influence of diet on fluid intake. *Journal of Sport Sciences* 2, 198–99.
- Beckers, E.J., Jeukendrup, A.E., Brouns, F., Wagemakers, A.J.M., Saris, W.H.M. (1992). Gastric emptying of carbohydrate–medium chain triglyceride solutions in rest. *International Journal of Sports Medicine* 13, 581–84.
- Beckmann, C.R., Beckmann, C.A. (1990). Effect of a structured antepartum exercise program on pregnancy and labor outcome in primiparas. *Journal of Reproductive Medicine* 135, 704–09.
- Beinart, H. (1986). Olympic Marathon: Experience not required. *Track and Field News* (May), 45.
- Beitins, I.Z., McArthur, J.W., Turnbull, B.A., Skrinar, G.S., Bullen, B.A. (1991). Exercise induces two types of human luteal dysfunction: Confirmation by urinary free progesterone. *Journal of Clinical Endocrinology and Metabolism* 72, 1350–58.
- Belko, A.Z. (1987). Vitamins and exercise: An update. *Medicine and Science in Sports and Exercise* 19 (Suppl), S191–96.
- Belko, A.Z., Obarzanek, E., Kalkwarf, H.J., Rotter, M.A., Bogusz, S., Miller, D., Haas, J.D., Roe, D.A. (1983). Effects of exercise on riboflavin requirements of young women. *American Journal of Clinical Nutrition* 37, 509–17.
- Bell, G.J., Syrotuik, D., Martin, T.P., Burnham, R., Quinney, H.A. (2000). Effect of concurrent strength and endurance training on skeletal muscle properties and hormone concentrations in humans. *European Journal of Applied Physiology* 81, 418–27.
- Below, P.R., Mora-Rodriguez, R., Gonzalez-Alonso, J., Coyle, E.F. (1995). Fluid and carbohydrate ingestion independently improve performance during 1 h intense exercise. *Medicine and Science in Sports and Exercise* 27, 200–210.
- Bell, R.J., Palma, S.M., Lumley, J.M. (1995). The effect of vigorous exercise during pregnancy on birth-weight. *Australian and New Zealand Journal of Obstetrics and Gynaecology* 35, 46–51.
- Bellet, S., Kershbaum, A., Finch, E.M. (1968). Response of free fatty acids to coffee and caffeine. *Metabolism* 17, 702–07.
- Belloc, N.B. (1973). Relationship of health practices and mortality. *Preventive Medicine* 2, 67–81.
- Benadé, A.J.S., Jansen, C.R., Rogers, G.G., Wyndham, C.H., Strydom, N.B. (1973). The significance of an increased RQ after sucrose ingestion during prolonged aerobic exercise. *Pflügers Archives* 342, 199–206.
- Benadé, A.J.S., Wyndham, C.H., Jansen, C.R., Rogers, G.G., de Bruin, E.J.P. (1973). Plasma insulin and carbohydrate metabolism after sucrose ingestion during rest and prolonged aerobic exercise. *Pflügers Archives* 342, 207–18.
- Bennell, K., Cohite, S., Crossley, K. (1999). The oral contraceptive pill: A revolution for sportswomen? *British Journal of Sports Medicine* 33, 231–38.
- Bennell, K.L., Brukner, P.D., Malcolm, S.A. (1996). Effect of altered reproductive function and lowered testosterone levels on bone density in male endurance athletes. *British Journal of Sports Medicine* 30, 205–08.
- Bennell, K.L., Malcolm, S.A., Khan, K.M., Thomas, S.A., Reid, S.J., Brukner, P.D., Ebeling, P.R., Wark, J.D. (1997). Bone mass and bone turnover in power athletes, endurance athletes, and controls: A 12-month longitudinal study. *Bone* 20, 477–84.

- Bennell, K.L., Malcolm, S.A., Thomas, S.A., Ebeling, P.R., McCrory, P.R., Wark, J.D., Brukner, P.D. (1995). Risk factors for stress fractures in female track-and-field athletes: A retrospective analysis. *Clinical Journal of Sport Medicine* 5, 229–35.
- Benoit, J., Baker, S. (1987). *Running Tide*. Alfred A Knopf, New York.
- Benson, H., Dryer, T., Hartley, L.H. (1978). Decreased VO<sub>2</sub> consumption during exercise with elicitation of the relaxation response. *Journal of Human Stress* (June), 38–42.
- Bentley, S. (1996). Exercise-induced muscle cramp: Proposed mechanisms and management. *Sports Medicine* 21, 409–10.
- Benyo, R. (1983). *The Masters of the Marathon*. Atheneum, New York.
- Berenson, G.B., Srinivasan, S.R., Bao, W., Newman, W.P., Tracy, R.E., Wattigney, W.A. (1998). Association between multiple cardiovascular risk factors and atherosclerosis in children and young adults. *New England Journal of Medicine* 338, 1650–56.
- Berg, K., Sady, S. (1985). Oxygen cost of running at submaximal speeds while wearing shoe inserts. *Research Quarterly* 56, 86–89.
- Berger, B.G. (1984). Running away from anxiety and depression: A female as well as a male race. In M.L. Sachs, G.W. Buffore (Eds.), *Running As Therapy: An Integrated Approach*. University of Nebraska Press, Lincoln and London, 138–71.
- Berger, K., Ajani, U.A., Kase, C.S., Gaziano, M., Buring, J.E., Glynn, R.J., Hennekens, C.H. (1999). Light-to-moderate alcohol consumption and the risk of stroke among U.S. male physicians. *New England Journal of Medicine* 341, 1557–64.
- Bergh, U. (1982). *Physiology of Cross-Country Ski Racing*. Human Kinetics, Champaign, IL.
- Bergh, U., Ekblom, B., Åstrand-Åstrand, P.O. (2000). Maximal oxygen uptake: “Classical” versus “contemporary” viewpoints. *Medicine and Science in Sports and Exercise* 32, 85–88.
- Berglund, B. (1988). Development of techniques for the detection of blood doping in sport. *Sports Medicine* 5, 127–35.
- Berglund, B., Hemmingson, P. (1982). Effects of caffeine ingestion on exercise performance at low and high altitudes in cross-country skiers. *International Journal of Sports Medicine* 3, 234–36.
- Berglund, B., Hemmingson, P. (1987). Effect of reinfusion of autologous blood on exercise performance in cross-country skiers. *International Journal of Sports Medicine* 8, 231–33.
- Berglund, B., Hemmingson, P., Birgegard, G. (1987). Detection of autologous blood transfusion in cross-country skiers. *International Journal of Sports Medicine* 8, 66–70.
- Berglund, B., Säfström, H. (1994). Psychological monitoring and modulation of training load of world-class canoeists. *Medicine and Science in Sports and Exercise* 26, 1036–40.
- Bergman, B.C., Brooks, G.A. (1999). Respiratory gas-exchange ratios during graded exercise in fed and fasted trained and untrained men. *Journal of Applied Physiology* 86, 479–87.
- Bergman, B.C., Butterfield, G.E., Wolfel, E.E., Casazza, G.A., Lopaschuk, G.D., Brooks, G.A. (1999). Evaluation of exercise and training on muscle lipid metabolism. *American Journal of Physiology* 276, E106–17.
- Bergman, B.C., Horning, M.A., Casazza, G.A., Wolfel, E.E., Butterfield, G.E., Brooks, G.A. (2000). Endurance training increases gluconeogenesis during rest and exercise in men. *American Journal of Physiology* 278, E244–51.
- Bergman, B.C., Wolfel, E.E., Butterfield, G.E., Lopaschuk, G.D., Casazza, G.A., Horning, M.A., Brooks, G.A. (1999). Active muscle and whole body lactate kinetics after endurance training in men. *Journal of Applied Physiology* 87, 1684–96.
- Bergström, J., Hermansen, L., Hultman, E., Saltin, B. (1967). Diet, muscle glycogen and physical performance. *Acta Physiologica Scandinavica* 71, 140–50.
- Bergström, J., Hultman, E. (1967a). A study of the glycogen metabolism during exercise in man. *Scandinavian Journal of Clinical and Laboratory Investigation* 19, 218–28.
- Bergström, J., Hultman, E. (1967b). Synthesis of muscle glycogen in man after glucose and fructose infusion. *Acta Medica Scandinavica* 182, 93–107.
- Bergström, J., Hultman, E., Jorfeldt, K., Pernow, B., Wahren, J. (1969). Effect of nicotinic acid on physical working capacity and on metabolism of muscle glycogen in man. *Journal of Applied Physiology* 26, 170–76.
- Berk, L.S., Nieman, D.C., Youngberg, W.S., Arabatzis, K., Simpson-Westerberg, M, Lee, J.W., Tan, S.A, Eby, W.C. (1990). The effect of long endurance running on natural killer cells in marathoners. *Medicine and Science in Sports and Exercise* 22, 207–12.
- Berkovec, T.D., Fowles, D.C. (1973). Controlled investigation of the effects of progressive and hypnotic relaxation on insomnia. *Journal of Abnormal Psychology* 82, 153–58.
- Berkowitz, G.S., Kelsey, J.L., Holford, T.R., Berkowitz, R.L. (1983). Physical activity and the risk of spontaneous preterm delivery. *Journal of Reproductive Medicine* 28, 581–88.
- Bernard, T., Giacomoni, M., Gavarry, O., Seymat, M., Falgairette, G. (1998). Time-of-day effects in maximal anaerobic leg exercise. *European Journal of Applied Physiology* 77(1–2), 133–38.
- Bernstein, L., Henderson, B.E., Hanisch, R., Sullivan-Halley, J., Ross, R.K. (1994). Physical exercise and reduced risk of breast cancer in young women. *Journal of the National Cancer Institute* 88, 1403–08.
- Berry, H. (1990). *From L.A. to New York, from New York to L.A.* Berry, Chorley, England.
- Berry, W.T.C., Beveridge, J.B., Bransby, E.R., Chalmers, A.K., Needham, B.M., Magee, H.E., Townsend, H.S., Daubney, C.G. (1949). The diet, haemoglobin values and blood pressures of Olympic athletes. *British Medical Journal* 1, 300–304.
- Berthon, P., Fellmann, N., Bedu, M., Beaune, B., Dabonneville, M., Coudert, J., Chamoux, A. (1997). A 5-min running field test as a measurement of maximal aerobic velocity. *European Journal of Applied Physiology* 75, 233–38.
- Berthon, P., Freyssenet, D., Chatard, J.-C., Castells, J., Mujika, I., Geysant, A., Guezennec, C.-Y., Denis, C. (1995). Mitochondrial ATP production rate in 55 to 73-year-old men: Effect of endurance training. *Acta Physiologica Scandinavica* 154, 269–74.



- Berven, H. (1963). The physical working capacity of healthy children: Seasonal variation and effect of ultraviolet radiation and Vitamin D supply. *Acta Paediatrica 148(Suppl.)*, 1–22.
- Beshgetoor, D., Nichols, J.F., Rego, I. (2000). Effect of training mode and calcium intake on bone mineral density in female master cyclists, runners, and non-athletes. *International Journal of Sport Nutrition and Exercise Metabolism 10*, 290–301.
- Best, T.M., Loitz-Ramage, B., Corr, D.T., Vanderby, R. (1998). Hyperbaric oxygen in the treatment of acute muscle stretch injuries. *American Journal of Sports Medicine 26*, 367–72.
- Betteridge, J. (1987). *Sport for Diabetics*. Black, London.
- Bhasin, S., Storer, T.W., Berman, N., Callegari, C., Clevenger, B., Phillips, J., Bunnell, T.J., Tricker, R., Shirazi, A., Casaburi, R. (1996). The effects of supraphysiological doses of testosterone on muscle size and strength in normal men. *New England Journal of Medicine 335*, 1–7.
- Bhatt, R., Lauder, I., Finlay, D.B., Allen, M.J., Belton, I.P. (2000). Correlation of bone scintigraphy and histological findings in medial tibial syndrome. *British Journal of Sports Medicine 34*, 49–53.
- Bichovsky-Little, H. (1987). Look after yourself. *New Statesman 27* (November), 22–23.
- Biedert, R.M., Marti, B. (1997). Intracompartmental pressure before and after fasciotomy in runners with chronic deep posterior compartment syndrome. *International Journal of Sports Medicine 18*, 381–86.
- Bigard, A.X., Brunet, A., Guezennec, C.Y., Monod, H. (1991). Effects of chronic hypoxia and endurance training on muscle capillarity in rats. *Pflügers Archives 419*, 225–29.
- Bijnen, F.C., Feskens, E.J., Caspersen, C.J., Giampaoli, S., Nissinen, A.M., Menotti, A., Mosterd, W.L., Kromhout, D. (1996). Physical activity and cardiovascular risk factors among elderly men in Finland, Italy, and the Netherlands. *American Journal of Epidemiology 143*, 553–61.
- Bijnen, F.C.H., Caspersen, C.J., Mosterd, W.L. (1994). Physical inactivity as a risk factor for coronary heart disease: A WHO and International Society and Federation of Cardiology position statement. *Bulletin of the World Health Organization 72(1)*, 1–4.
- Bilanin, J.E., Blanchard, M.S., Russek-Cohen, E. (1989). Lower vertebral bone density in male long distance runners. *Medicine and Science in Sports and Exercise 21*, 66–70.
- Bilé, A., Le Gallais, D., Mercier, J., Bogui, P., Préfaut, C. (1998). Sickle cell trait in Ivory Coast athletic throw and jump champions, 1956–1996. *International Journal of Sports Medicine 19*, 215–19.
- Billman, G.E., Schwartz, P.J., Stone, H.L. (1984). The effects of daily exercise on susceptibility to sudden cardiac death. *Circulation 69*, 1182–89.
- Bilzon, J.L., Allsopp, A.J., Williams, C. (2000). Short-term recovery from prolonged constant pace running in a warm environment: The effectiveness of a carbohydrate-electrolyte solution. *European Journal of Applied Physiology 82*, 305–12.
- Bingham, S.A., Cummings, J.H. (1989). Effect of exercise and physical fitness on large intestinal function? *Gastroenterology 97*, 1389–99.
- Bird, H.A., Hudson, A., Eastmond, C.J., Wright, V. (1980). Joint laxity and osteo-arthritis: A radiological survey of female physical education specialists. *British Journal of Sports Medicine 14*, 179–88.
- Birkeland, K.I., Stray-Gundersen, J., Hemmersbach, P., Hallen, J., Haug, E., Bahr, R. (2000). Effect of rhEPO administration on serum levels of sTfR and cycling performance. *Medicine and Science in Sports and Exercise 32*, 1238–43.
- Bishop, D., Jenkins, D.G., Mackinnon, L.T., McEniery, M., Carey, M.F. (1999). The effects of strength training on endurance performance and muscle characteristics. *Medicine and Science in Sports and Exercise 31*, 886–91.
- Bishop, G.W., Fallon, K.R. (1999). Injuries in the ultramarathon: The 1996 Colac six day track race. *Clinical Journal of Sports Medicine 9*, 216–20.
- Blachford, F.K., Knowlton, R.G., Schneider, D. (1985). Plasma FFA responses to prolonged walking in untrained men and women. *European Journal of Applied Physiology 53*, 343–47.
- Black, D.W., Moyer, T. (1998). Clinical features, and psychiatric co-morbidity of subjects with pathological gambling behaviour. *Psychiatric Services 49*, 1434–39.
- Black, J., Chesher, G.B., Starmer, G.A. (1979). The painlessness of the long-distance runner. *Medical Journal of Australia 1*, 522–523.
- Blacklock, N.J. (1977). Bladder trauma in the long-distance runner: “100,000 metres haematuria.” *British Journal of Urology 49*, 129–32.
- Blackwelder, W.C., Yano, K., Rhoads, G.G., Kagan, A., Gordon, T., Palesch, Y. (1980). Alcohol and mortality: The Honolulu heart study. *American Journal of Medicine 68*, 164–69.
- Blair, S.N. (1995). Can adult activity level be predicted by physical characteristics and activities in adolescence? *Clinical Journal of Sport Medicine 5*, 210.
- Blair, S.N., Ellsworth, N.M., Haskell, W.L., Stern, M.P., Farquhar, J.W., Wood, P.D. (1981). Comparison of nutrient intake in middle-aged men and women runners and controls. *Medicine and Science in Sports and Exercise 13*, 310–15.
- Blair, S.N., Kampert, J.R., Kohl, H.W., Barlow, C.E., Macera, C.A., Paffenbarger, R.S., Gibbons, L.W. (1996). Influences of cardiorespiratory fitness and other precursors on cardiovascular disease and all-cause mortality in men and women. *Journal of the American Medical Association 276*, 205–10.
- Blair, S.N., Kohl, H.W., Barlow, C.E. (1993). Physical activity, physical fitness and all-cause mortality in women: Do women need to be active? *Journal of the American College of Nutrition 12*, 368–71.
- Blair, S.N., Kohl, H.W., Barlow, C.E., Paffenbarger, R.S., Gibbons, L.W., Macera, C.A. (1995). Changes in physical fitness and all-cause mortality. *Journal of the American Medical Association 273*, 1093–98.
- Blair, S.N., Kohl, H.W., Goodyear, N.N. (1987). Rates and risks for running and exercise injuries: Studies in three populations. *Research Quarterly for Exercise and Sport 58*, 221–28.
- Blair, S.N., Kohl, H.W., Paffenbarger, R.S., Clark, D.G., Cooper, K.H., Gibbons, L.W. (1989). Physical fitness and all-cause mortality. *Journal of the American Medical Association 262*, 2395–2401.

- Blair, S.N., Mulder, R.T., Kohl, H.W. (1987). Reaction to "Secular traits in adult physical activity: Exercise boom or bust?" *Research Quarterly for Exercise and Sports* 58, 106–10.
- Blair, S.N., Sargent, R., Davidson, D., Krejci, R. (1980). Blood lipid and ECG responses to carbohydrate-loading. *Physician and Sportsmedicine* 8 (July), 69–75.
- Blake, R.L., Denton, J.A. (1985). Functional foot orthoses for athletic injuries: A retrospective study. *Journal of the American Podiatric Medical Association* 75, 359–62.
- Blanchard, E.M., Pan, B.S., Solaro, R.J. (1984). The effect of acidic pH on the ATPase activity and troponin Ca<sup>2+</sup> binding of rabbit skeletal myofilaments. *Journal of Biological Chemistry* 259, 3181–86.
- Blankenhorn, D.H., Johnson, R.L., Mack, W.J., El Zein, H.A., Vailas, L.I. (1990). The influence of diet on the appearance of new lesions in human coronary arteries. *Journal of the American Medical Association* 263, 1646–52.
- Blickenstaff, L.D., Morris, J.M. (1966). Fatigue fracture of the femoral neck. *Journal of Bone and Joint Surgery* 48-A, 1031–47.
- Blixen, K. (1985). *Out of Africa and Shadows on the Grass*. Penguin Books, United Kingdom.
- Blom, P.C.S., Costill, D.L., Vollestad, N.K. (1987). Exhaustive running: Inappropriate as a stimulus of muscle glycogen supercompensation. *Medicine and Science in Sports and Exercise* 19, 398–403.
- Blom, P.C.S., Hostmark, A.T., Vaage, O., Kardel, K.R., Maehlum, S. (1987). Effect of different post-exercise sugar diets on the rate of muscle glycogen synthesis. *Medicine and Science in Sports and Exercise* 19, 491–96.
- Blomstrand, E., Celsing, F., Newsholme, E.A. (1988). Changes in plasma concentrations of aromatic and branched-chain amino acids during sustained exercise in man and their possible role in fatigue. *Acta Physiologica Scandinavica* 133, 115–21.
- Blomstrand, E., Hassmén, P., Ekblom, B., Newsholme, E.A. (1991). Administration of branched-chain amino acids during sustained exercise: Effects on performance and on plasma concentration of some amino acids. *European Journal of Applied Physiology* 63, 83–88.
- Bloom, M. (1981). *The Marathon: What It Takes to Go The Distance*. Holt, Rinehart and Winston, New York.
- Blumenthal, J.A., Fredrikson, M., Kuhn, C.M., Ulmer, R.L., Walsh-Riddle, M., Appelbaum, M. (1990). Aerobic exercise reduces levels of cardiovascular and sympathoadrenal responses to mental stress in subjects without prior evidence of myocardial ischemia. *American Journal of Cardiology* 65, 93–98.
- Blumenthal, J.A., O'Toole, L.C., Chang, J.L. (1984). Is running an analogue of anorexia nervosa? An empirical study of obligatory running and anorexia nervosa. *Journal of the American Medical Association* 252, 520–23.
- Blumenthal, J.A., Rose, S., Chang, J.L. (1985). Anorexia nervosa and exercise: Implications from recent findings. *Sports Medicine* 2, 237–47.
- Blumenthal, J.A., Williams, R.S., Needles, T.L., Wallace, A.G. (1982a). Psychological changes accompany aerobic exercise in healthy middle-aged adults. *Psychosomatic Medicine* 44, 529–36.
- Blumenthal, J.A., Williams, R.S., Wallace, A.G., Williams, R.B., Needles, T.L. (1982b). Physiological and psychological variables predict compliance to prescribed exercise therapy in patients recovering from myocardial infarction. *Psychosomatic Medicine* 44, 519–27.
- Blundell, J.E., Burley, V.J., Cotton, J.R., Lawton, C.L. (1993). Dietary fat and the control of energy intake: Evaluating the effects of fat on meal size and postmeal satiety. *American Journal of Clinical Nutrition* 57 (Suppl 5), 772S–77S.
- Bobbert, M.F., Hollander, A.P., Huijing, P.A. (1986). Factors in delayed muscle soreness. *Medicine and Science in Sports and Exercise* 18, 75–81.
- Bock, A.V. (1963). The circulation of a marathoner. *Journal of Sports Medicine and Physical Fitness* 3, 80–86.
- Bock, A.V., Van Caulaert, C., Dill, D.B., Folling, A., Hurthal, L.M. (1928). Studies in muscular activity. III: Dynamical changes occurring in man at work. IV: The steady state and the respiratory quotient during work. *Journal of Physiology* 66, 137–174.
- Bodner, M.E., Rhodes, E.C. (2000). A review of the concept of the heart rate deflection point. *Sports Medicine* 30, 31–46.
- Boga, S. (1993). *Runners and Walkers: Keeping Pace With the World's Best*. Stackpole Books, Mechanicsburg, Pennsylvania.
- Boileau, R.A., Mayhew, J.L., Riner, W.F., Lussier, L. (1982). Physiological characteristics of elite middle and long-distance runners. *Canadian Journal of Applied Sport Science* 7, 167–72.
- Boje, O. (1936). Der Blutzucker während und nach körperlicher Arbeit [The blood sugar before and after physical work]. *Skandinavisches Archiv für Physiologie* 74(Suppl. 10), 1–48.
- Bonen, A. (1992). Recreational exercise does not impair menstrual cycles: A prospective study. *International Journal of Sports Medicine* 13, 110–20.
- Bonen, A., Keizer, H.A. (1984). Athletic menstrual cycle irregularity: Endocrine response to exercise and training. *Physician and Sportsmedicine* 12, 78–94.
- Böning, D. (1997). Altitude and hypoxia training: A short review. *International Journal of Sports Medicine* 18, 565–70.
- Boobis, L.H. (1987). Metabolic aspects of fatigue during sprinting. In D. Macleod, R. Maughan, M. Nimmo, T. Reilly, C. Williams (Eds.), *Exercise Benefits, Limits and Adaptations*. Spon, London, 116–43.
- Booth, F.W. (1989). VO<sub>2</sub> max limits. *Journal of Applied Physiology* 67, 1299–1300.
- Booth, F.W., Weeden, S.H., Tseng, B.S. (1994). Effect of aging on human skeletal muscle and motor function. *Medicine and Science in Sports and Exercise* 26, 556–60.
- Booth, J., Marino, F., Ward, J.J. (1997). Improved running performance in hot humid conditions following whole body precooling. *Medicine and Science in Sports and Exercise* 29, 943–49.
- Borch, K.W., Ingjer, F., Larsen, S., Tomten, S.E. (1993). Rate of accumulation of blood lactate during graded exercise as a predictor of "anaerobic threshold." *Journal of Sports Sciences* 11, 49–55.
- Boreham, C.A., Twisk, J., Savage, M.J., Cran, G.W., Strain, J.J. (1997). Physical activity, sports participation, and risk factors in adolescents. *Medicine and Science in Sports and Exercise* 29, 788–93.
- Borg, G. (1973). Perceived exertion: A note on history and methods. *Medicine and Science in Sports and Exercise* 5, 90–93.
- Borg, G. (1978). Subjective aspects of physical and mental load. *Ergonomics* 21, 215–20.

- Borg, G. (1998). *Borg's Perceived Exertion and Pain Scales*. Champaign, IL: Human Kinetics.
- Borms, J. (1986). The child and exercise: An overview. *Journal of Sports Sciences* 4, 3–20.
- Borms, J., Van Roy, P., Santens, J.P., Haentjens, A. (1987). Optimal duration of static stretching exercises for improvement of coxo-femoral flexibility. *Journal of Sport Sciences* 5, 39–47.
- Bosch, A.N., Dennis, S.C., Noakes, T.D. (1993). Influence of carbohydrate-loading on fuel substrate turnover and oxidation during prolonged exercise. *Journal of Applied Physiology* 74, 1921–27.
- Bosch, A.N., Dennis, S.C., Noakes, T.D. (1994). Influence of carbohydrate ingestion on fuel substrate turnover and oxidation during prolonged exercise. *Journal of Applied Physiology* 76, 2364–72.
- Bosch, A.N., Goslin, B.R., Noakes, T.D. (1990). Physiological changes during a simulated marathon in black and white athletes. *European Journal of Applied Physiology* 61, 68–72.
- Bosch, A.N., Weltan, S.M., Dennis, S.C., Noakes, T.D. (1996a). Fuel substrate kinetics of carbohydrate loading differs from that of carbohydrate ingestion during prolonged exercise. *Metabolism* 45, 415–23.
- Bosch, A.N., Weltan, S.M., Dennis, S.C., Noakes, T.D. (1996b). Fuel substrate turnover and oxidation and glycogen sparing with carbohydrate ingestion in non-carbohydrate-loaded cyclists. *PflügersArchives* 432, 1003–10.
- Bosco, C., Montanari, G., Ribacchi, R., Faina, M., Colle, R., Dal Monte, A., Latteri, F., Pastoris, F., Benzi, G., Cortili, G., Saibene, F. (1986). The relationship between the re-use of elastic energy and the energetic cost of running. In G. Benzi, L. Packer, N. Siliprandi (Eds.). *Biochemical Aspects of Physical Exercise*. Elsevier, Amsterdam, 469–78.
- Bosco, C., Tihanyi, J., Komi, P., Fekete, G., Apor, P. (1982). Store and recoil of elastic energy in slow and fast types of human skeletal muscles. *Acta Physiologica Scandinavica* 116, 343–49.
- Bottiger, L.E. (1971). Physical working capacity and age. *Acta Medica Scandinavica* 190, 359–62.
- Bottiger, L.E. (1973). Regular decline in physical working capacity with age. *British Medical Journal* 3, 270–71.
- Bouchard, C. (2000). Inhibition of food intake by inhibitors of fatty acid synthase. *New England Journal of Medicine* 343, 1888–89.
- Bouchard, C., An, P., Rice, T., Skinner, J.S., Wilmore, J.H., Gagnon, J., Pérusse, L., Leon, A.S., Rao, D.C. (1999). Familial aggregation of  $\dot{V}O_{2\max}$  response to exercise training: results from the HERITAGE Family Study. *Journal of Applied Physiology* 87, 1003–8.
- Bouchard, C., Chagnon, M., Thibault, M.-C., Boulay, M.R., Marcotte, M., Cote, C., Simoneau, J.-A. (1989). Muscle genetic variants and relationship with performance and trainability. *Medicine and Science in Sports and Exercise* 21, 71–77.
- Bouchard, C., Daw, E.W., Rice, T., Pérusse, L., Gagnon, J., Province, M.A., Leon, A.S., Rao, D.C., Skinner, J.S., Wilmore, J.H. (1998). Familial resemblance for  $\dot{V}O_{2\max}$  in the sedentary state: The HERITAGE Family Study. *Medicine and Science in Sports and Exercise* 30, 252–58.
- Bouchard, C., Lesage, R., Lortie, G., Simoneau, J.A., Hamel, P., Boulay, M.R., Pérusse, L., Thériault, G., Leblanc, C. (1986). Aerobic performance in brothers, dizygotic and monozygotic twins. *Medicine and Science in Sports and Exercise* 18, 639–46.
- Bouchard, C., Lortie, G. (1984). Heredity and endurance performance. *Sports Medicine* 1, 38–64.
- Bouchard, C., Rankinen, T., Chagnon, Y.C., Pérusse, L., Gagnon, J., Rice, T., Borecki, I., Leon, A.S., Skinner, J.S., Wilmore, J.H., Province, M., Rao, D.C. (2000). Genomic scan for maximal oxygen uptake and its response to training in the HERITAGE Family Study. *Journal of Applied Physiology* 88, 551–59.
- Bouchard, C., Tremblay, A., Després, J.-P., Nadeau, A., Lupien, P.J., Thériault, G., Dussault, J., Moorjani, S., Pinault, S., Fournier, G. (1990). The response to long-term overfeeding in identical twins. *New England Journal of Medicine* 322, 1477–82.
- Bouchard, C., Wolfarth, B., Rivera, M.A., Gagnon, J., Simoneau, J.-A. (2000). Genetic determinants of endurance performance. In R. Shephard, P.O. Åstrand (Eds.), *Endurance in Sport* (2nd ed.). Blackwell Scientific, London, 223–42.
- Bourgeois, J., Vriekens, J. (1998). The Conconi test: A controversial concept for the determination of the anaerobic threshold in young rowers. *International Journal of Sports Medicine* 19, 553–59.
- Bouvier, F., Nejat, M., Berglund, B., Brodin, L.-Å., Jorfeldt, L., Juhlin-Dannfelt, A., Saltin, B., Jensen-Urstad, M. (1997). High incidence of scintigraphic myocardial uptake defects at rest and during exercise in male elite runners. *Heart* 77, 252–55.
- Boyce, W.J., Vessey, M.P. (1988). Habitual physical inertia and other factors in relation to risk of fracture of the proximal femur. *Age and Ageing* 17, 319–27.
- Boyle, P.J., Nagy, R.J., O'Connor, A.M., Kempers, S.F., Yeo, R.A., Qualls, C. (1994). Adaptation in brain glucose uptake following recurrent hypoglycemia. *Proceedings of the National Academy of Sciences USA* 91, 9352–56.
- Bracy, D.P., Zinker, B.A., Jacobs, J.C., Lacy, D.B., Wasserman, D.H. (1995). Carbohydrate metabolism during exercise: Influence of circulating fat availability. *Journal of Applied Physiology* 79, 506–13.
- Brahm, H., Ström, H., Piehl-Aulin, K., Mallmin, H., Ljunghall, S. (1997). Bone metabolism in endurance trained athletes: A comparison to population-based controls based on DXA, SXA, Quantitative ultrasound, and biochemical markers. *Calcified Tissue International* 61, 448–54.
- Bramble, D.M., Carrier, D.R. (1983). Running and breathing in mammals. *Science* 219, 251–56.
- Brandao, M.U., Wajngarten, M., Rondon, E., Giorgi, M.C., Hironaka, F., Negrao, C.E. (1993). Left ventricular function during dynamic exercise in untrained and moderately trained subjects. *Journal of Applied Physiology* 75, 1989–95.
- Brant, J. (1998). One of a kind. *Runner's World (South Africa)* (April), 60–64.
- Brass, E.P., Hiatt, W.R. (1998). The role of carnitine and carnitine supplementation during exercise in man and in individuals with special needs. *Journal of the American College of Nutrition* 17, 207–15.
- Bräu, L., Nikolovski, S., Palmer, T.N., Fournier, P. (1999). Glycogen repletion following burst activity: A carbohydrate-sparing mechanism in animals adapted to arid environments? *Journal of Experimental Zoology* 284, 271–75.

- Brearly, M.N. (1977). The long jump miracle of Mexico City. In S.P. Ladany, R.H. Machol (Eds.), *Studies in Management Science and Systems 5: Optimal Strategies in Sports*. North Holland, Amsterdam, 162–67.
- Breithaupt, M.D. (1855). Zur pathologie des menschlichen fusses. *Medizin Zeitung* 24, 169–77.
- Breslow, L. (1979). A positive strategy for the nation's health. *Journal of the American Medical Association* 242, 2093–95.
- Bresnahan, G.T., Tuttle, W.W. (1950). *Track and Field Athletics*. Kimpton, London.
- Brewer, J., Balsom, P., Davis, J. (1995). Seasonal birth distribution amongst European soccer players. *Sports Exercise and Injury* 1(Pt. 3), 154–57.
- Brewer, J., Williams, C., Patton, A. (1988). The influence of high carbohydrate diets on endurance running performance. *European Journal of Applied Physiology* 57, 698–706.
- Brien, A.J., Simon, T.L. (1987). The effects of red blood cell infusion on 10-km race time. *Journal of the American Medical Association* 257, 2761–65.
- Brill, P.A., Burkhalter, H.E., Kohl, H.W., Blair, S.N., Goodyear, N.N. (1989). The impact of previous athleticism on exercise habits, physical fitness, and coronary heart disease risk factors in middle-aged men. *Research Quarterly in Exercise and Sport* 60, 209–15.
- Brill, P.A., Macera, C.A. (1995). The influence of running patterns on running injuries. *Sports Medicine* 20, 365–68.
- Brockbank, E.M. (1929). Miners' cramp. *British Medical Journal* 1, 65–66.
- Broocks, A., Bandelow, B., Pekrun, G., George, A., Meyer, T., Bartmann, U., Hillmer-Vogel, U., Rütther, E. (1998). Comparison of aerobic exercise, clomipramine, and placebo in the treatment of panic disorder. *American Journal of Psychiatry* 155, 603–9.
- Broocks, A., Meyer, T., George, A., Hillmer-Vogel, U., Meyer, D., Bandelow, B., Hajak, G., Bartmann, U., Gleiter, C.H., Rütther, E. (1999). Decreased neuroendocrine responses to meta-chlorophenylpiperazine (m-CPP) but normal responses to ipsapirone in marathon runners. *Neuropsychopharmacology* 20, 150–61.
- Brooke, C.G.D., Huntley, R.M.C., Slack, J. (1975). Influence of heredity and environment in determination of the skinfold thickness of children. *British Medical Journal* 2, 719–21.
- Brooke, J.D., Davies, G.J., Green, L.F. (1975). The effects of normal and glucose syrup work diets on the performance of racing cyclists. *Journal of Sports Medicine* 15, 257–65.
- Brooks, G.A. (1986a). Lactate production under fully aerobic conditions: The lactate shuttle during rest and exercise. *Federation Proceedings* 45, 2924–29.
- Brooks, G.A. (1986b). The lactate shuffle during exercise and recovery. *Medicine and Science in Sports and Exercise* 18, 360–68.
- Brooks, G.A. (1998). Mammalian fuel utilization during sustained exercise. *Comparative Biochemistry and Physiology* 120, 89–107.
- Brooks, G.A., Brauner, K.E., Cassens, R.G. (1973). Glycogen synthesis and metabolism of lactic acid after exercise. *American Journal of Physiology* 224, 1162–66.
- Brooks, G.A., Brown, M.A., Butz, C.E., Sicurello, J.P., Dubouchard, H. (1999). Cardiac and skeletal muscle mitochondria have a monocarboxylate transporter MCT1. *Journal of Applied Physiology* 87, 1713–18.
- Brooks, G.A., Donovan, C.M. (1983). Effect of training on glucose kinetics during exercise. *American Journal of Physiology* 244, E505–12.
- Brooks, G.A., Dubouchard, H., Brown, M., Sicurello, J.P., Butz, C.E. (1999). Role of mitochondrial lactate dehydrogenase and lactate oxidation in the intracellular lactate shuttle. *Proceedings of the National Academy of Sciences* 96, 1129–34.
- Brooks, G.A., Mercier, J. (1994). Balance of carbohydrate and lipid utilization during exercise: The "crossover" concept. *Journal of Applied Physiology* 76, 2253–61.
- Brooks, S.M., Sanborn, C.F., Albrecht, B.H., Wagner, W.W. (1984). Diet in athletic amenorrhea. *Lancet* 1, 559–60.
- Brooks, S.V., Faulkner, J.A. (1994). Skeletal muscle weakness in old age: Underlying mechanisms. *Medicine and Science in Sports and Exercise* 26, 432–39.
- Brooks-Gunn, J., Gargiulo, J.M., Warren, M.P. (1986). The effect of cycle phase on the performance of adolescent swimmers. *Physician and Sports Medicine* 14 (March), 182–92.
- Brooks-Gunn, J., Warren, M.P., Hamilton, L.H. (1987a). The relation of eating problems and amenorrhea in ballet dancers. *Medicine and Science in Sports and Exercise* 19, 41–44.
- Brooks-Gunn, J., Warren, M.P., Hamilton, L. (1987b). Response. *Medicine and Science in Sports and Exercise* 19, 526–27.
- Brotherhood, J.R. (1984). Nutrition and sports performance. *Sports Medicine* 1, 350–89.
- Brouns, F. (1988). *Food and Fluid Related Aspects in Highly Trained Cyclists*. Uitgeverij De Vrieseborch, Harleem.
- Brouns, F., Saris, W., Schneider, H. (1992). Rationale for upper limits of electrolyte replacement during exercise. *International Journal of Sport Nutrition* 2, 229–38.
- Brouns, F., Saris, W.H.M., Rehrer, N.J. (1987). Abdominal complaints and gastrointestinal function during long-lasting exercise. *International Journal of Sports Medicine* 8, 175–89.
- Brouns, F., Saris, W.H.M., Stroecken, J., Beckers, E., Thijssen, R., Rehrer, N.J., ten Hoor, F. (1989a). Eating, drinking, and cycling. A controlled Tour de France simulation study, Part I. *International Journal of Sports Medicine* 10, S32–40.
- Brouns, F., Saris, W.H.M., Stroecken, J., Beckers, E., Thijssen, R., Rehrer, N.J., ten Hoor, F. (1989b). Eating, drinking, and cycling. A controlled Tour de France simulation study, Part II. *International Journal of Sports Medicine* 10, S41–48.
- Brown, A.G.K. (1964). Athletics in schools. In H.A. Meyer (Ed.), *Modern Athletics by the Achilles Club*. Oxford University Press, London, 59–71.
- Brown, A.H. (1947). Dehydration exhaustion. In E.F. Adolph (Ed.), *Physiology of Man of the Desert*. New York: Interscience Publishers, 208–25.
- Brown, C.H., Harrower, J.R., Deeter, M.F. (1972). The effects of cross-country running on pre-adolescent girls. *Medicine and Science in Sports* 4, 1–5.
- Brown, J.D., Lawton, M. (1986). Stress and well-being in adolescence: The moderating role of physical exercise. *Journal of Human Stress* 12, 125–31.
- Brown, J.D., Siegel, J.M. (1988). Exercise as a buffer of life stress: A prospective study of adolescent health. *Health Psychology* 7, 341–53.

- Brown, M. (1989). Special considerations during rehabilitation of the aged athlete. *Clinics in Sports Medicine* 8, 893–901.
- Brown, R.C., Cox, C. (2001). Challenging the dogma of dietary carbohydrate requirements for endurance athletes. *American Journal of Medicine in Sports* 3, 75–86.
- Brown, R.C., Cox, C.M. (1998). Effects of high fat versus high carbohydrate diets on plasma lipids and lipoproteins in endurance athletes. *Medicine and Science in Sports and Exercise* 30, 1677–83.
- Brown, R.C., Cox, C.M., Goulding, A. (2000). High-carbohydrate versus high-fat diets: Effect on body composition in trained cyclists. *Medicine and Science in Sports and Exercise* 32, 690–94.
- Brown, R.L. (1983). Overtraining in athletes: A round table discussion. *Physician and Sportsmedicine* 11 (June), 99.
- Brown, S.L., Banister, E.W. (1985). Thermoregulation during prolonged actual and laboratory-simulated bicycling. *European Journal of Applied Physiology* 54, 125–30.
- Browne, S. (1986). *A Complete Guide to Running in the Heat*. Travel Asia, Hong Kong.
- Brownell, K.D., Steen, S.N., Wilmore, J.H. (1987). Weight regulation practices in athletes: Analysis of metabolic and health effects. *Medicine and Science in Sports and Exercise* 19, 546–56.
- Brownley, K.A., West, S.G., Hinderliter, A.L., Light, K.C. (1996). Acute aerobic exercise reduces ambulatory blood pressure in borderline hypertensive men and women. *American Journal of Hypertension* 9, 200–206.
- Brownlie, L., Mekjavic, I., Banister, E. (1987a). Thermoregulation in athletic racing apparel. *Annals of Physiology and Anthropology* 6, 145–55.
- Brownlie, L., Mekjavic, I., Gartshore, I., Mutch, B., Banister, E. (1987b). The influence of apparel on aerodynamic drag in running. *Annals of Physiology and Anthropology* 6, 133–43.
- Brownson, R.C., Chang, J.C., Davis, J.R., Smith, C.A. (1991). Physical activity on the job and cancer in Missouri. *American Journal of Public Health* 81, 639–42.
- Bruce, C.R., Anderson, M.E., Fraser, S.F., Stepto, N.K., Klein, R., Hopkins, W.G., Hawley, J.A. (2000). Enhancement of 2000-m rowing performance after caffeine ingestion. *Medicine and Science in Sports and Exercise* 32, 1958–63.
- Brück, K., Olschweski, H. (1987). Body temperature related factors diminishing the drive to exercise. *Canadian Journal of Physiology and Pharmacology* 65, 1274–80.
- Brudvig, T.J.S., Grudger, T.D., Obermeyer, L. (1983). Stress fractures in 295 trainees: A one-year study of incidence as related to age, sex, and race. *Military Medicine* 148, 666–67.
- Bruin, G., Kuipers, H., Keizer, H.A., Vandervuisse, G.J. (1994). Adaptation and overtraining in horses subjected to increased training loads. *Journal of Applied Physiology* 76, 1908–13.
- Brumberg, J.J. (1989). *Fasting Girls: The Emergence of Anorexia Nervosa As a Modern Disease*. Harvard University Press, Cambridge, MA.
- Brunet, M.E., Cook, S.D., Brinker, M.R., Dickinson, J.A. (1990). A survey of running injuries in 1505 competitive and recreational runners. *Journal of Sports Medicine and Physical Fitness* 30, 307–15.
- Buccola, V.A., Stone, W.J. (1975). Effects of jogging and cycling programmes on physiological and personality variables in aged man. *Research Quarterly* 46, 134–39.
- Buckle, R.M. (1965). Exertional (march) haemoglobinuria. *Lancet* 1, 1136–38.
- Buckwater, J.A., Lane, N.E. (1997). Athletics and osteoarthritis. *American Journal of Sports Medicine* 25, 873–81.
- Budgett, R. (1998). Fatigue and underperformance in athletes: The overtraining syndrome. *British Journal of Sports Medicine* 32, 107–10.
- Buffone, G.W. (1984). Running and depression. In M.L. Sachs, G.W. Buffone (Eds.), *Running As Therapy: An Integrated Approach*. University of Nebraska Press, Lincoln and London, 6–22.
- Buick, E.J., Gledhill, N., Froese, A.B., Spriet, L., Meuers, E.C. (1980). Effect of induced erythrocythemia on aerobic work capacity. *Journal of Applied Physiology* 48, 636–42.
- Bunc, V., Heller, J., Moravec, P., Sprynarova, S. (1989). Ventilatory threshold and mechanical efficiency in endurance runners. *European Journal of Applied Physiology* 58, 693–98.
- Buonocristiani, J.F., Martin, D.E. (1993). Factors affecting runners' marathon performance. *Chance: New Directions for Statistics and Computing* 6(4), 28–29.
- Buono, M.J., Sjöholm, N.T. (1988). Effect of physical training on peripheral sweat production. *Journal of Applied Physiology* 65, 811–14.
- Burch, G.E. (1979). Of jogging. *American Heart Journal* 97, 407.
- Burchfiel, C.M., Sharp, D.S., Curb, J.D., Rodriguez, B.L., Hwang, L.J., Marcus, E.B., Yano, K. (1995). Physical activity and incidence of diabetes: The Honolulu Heart Program. *American Journal of Epidemiology* 141, 360–68.
- Burelle, Y., Péronnet, F., Charpentier, S., Lavoie, C., Hillaire-Marcel, C., Massicotte, D. (1999). Oxidation of an oral [13C] glucose load at rest and prolonged exercise in trained and sedentary subjects. *Journal of Applied Physiology* 86, 52–60.
- Burelle, Y., Péronnet, F., Massicotte, D., Brisson, G.R., Hillaire-Marcel, C. (1997). Oxidation of 13C-glucose and 13C-fructose ingested as a preexercise meal: Effect of carbohydrate ingestion during exercise. *International Journal of Sport Nutrition* 7, 117–27.
- Burfoot, A. (1981a). Evolution of training systems. Parts I–III. *Runner's World* 16 (September), 34–73; (October), 81–86; (December), 60–66.
- Burfoot, A. (1981b). Training the hard/easy way. *Runner's World* 16 (December), 57–105.
- Burfoot, A. (1992). White men can't run. *Runner's World* 27 (August), 89–95.
- Burfoot, A., Billing, B. (1985). The perfect pace. *Runner's World* 20 (November), 39–83.
- Burgess, M.L., Robertson, R.J., Davis, J.M., Norris, J.M. (1991). RPE, blood glucose, and carbohydrate oxidation during exercise: Effects of glucose feedings. *Medicine and Science in Sports and Exercise* 23, 353–59.
- Burke, A.P., Farb, A., Malcom, G.T., Liang, Y.-H., Smialek, J.E., Virmani, R. (1999). Plaque rupture and sudden death related to exertion in men with coronary artery disease. *Journal of the American Medical Association* 281, 921–26.

- Burke, E. (1998). *Precision Heart Rate Training*. Human Kinetics, Champaign, IL.
- Burke, L., Desbrow, B., Minehan, M. (2000). Dietary supplements and nutritional ergogenic aids in sport. In L. Burke, V. Deakin (Eds.), *Clinical Sports Nutrition* (2nd ed.). McGraw-Hill, New South Wales, Australia, 455–529.
- Burke, L.M., Claassen, A., Hawley, J.A., Noakes, T.D. (1998). Carbohydrate intake during prolonged cycling minimizes effect of glycemic index of preexercise meal. *Journal of Applied Physiology* 85, 2220–26.
- Burke, L.M., Collier, G.R., Davis, P.G., Fricker, P.A., Sanigorski, A.J., Hargreaves, M. (1996). Muscle glycogen storage after prolonged exercise: Effect of the frequency of carbohydrate feedings. *American Journal of Clinical Nutrition* 64, 115–19.
- Burke, L.M., Collier, G.R., Hargreaves, M. (1993). Muscle glycogen storage after prolonged exercise: Effect of the glycemic index of carbohydrate feedings. *Journal of Applied Physiology* 75, 1019–23.
- Burke, L.M., Collier, G.R., Hargreaves, M. (1998). Glycemic index: A new tool in sport nutrition? *International Journal of Sport Nutrition* 8, 401–15.
- Burke, L.M., Gollan, R.A., Read, R.D.S. (1991). Dietary intakes and food use of groups of elite Australian male athletes. *International Journal of Sport Nutrition* 1, 378–94.
- Burke, L.M., Hawley, J.A., Schabert, E.J., St. Clair Gibson, A., Mujika, I., Noakes, T.D. (2000). Carbohydrate loading failed to improve 100-km cycling performance in a placebo-controlled trial. *Journal of Applied Physiology* 88, 1284–90.
- Burkett, L.N. (1970). Causative factors in hamstring strains. *Medicine and Science in Sports* 2, 39–42.
- Burkett, L.N., Kohrt, W.M., Buchbinder, R. (1985). Effects of shoes and foot orthotics on VO<sub>2</sub> and selected frontal plane knee kinematics. *Medicine and Science in Sports and Exercise* 17, 158–63.
- Burr, M.K., Fehily, A.M., Gilbert, J.F., Rogers, S., Holliday, R.M., Sweetnam, P.M., Elwood, P.C., Deadman, N.M. (1989). Effects of changes in fat, fish, and fibre intakes on death and myocardial reinfarctions: Diet and reinfarction trial (DART). *Lancet* 2, 757–61.
- Butcher, M. (1997). Paavo Nurmi: Icon for a nation. *Runners' World* June, p 42–45
- Butterfield, G.E. (1987). Whole-body protein utilization in humans. *Medicine and Science in Sports and Exercise* 19 (Suppl), S157–65.
- Butterworth, D.E., Nieman, D.C., Butler, J.V., Herring, J.L. (1994). Food intake patterns of marathon runners. *International Journal of Sport Nutrition* 4, 1–7.
- Bye, P.T.P., Easu, S.A., Walley, K.R., Macklem, P.T., Pardy, R.L. (1984). Ventilatory muscles during exercise in air and oxygen in normal men. *Journal of Applied Physiology* 56, 464–71.
- Byrd, S.K., Bode, A.K., Klug, G.A. (1989). Effects of exercise of varying duration on sarcoplasmic reticulum function. *Journal of Applied Physiology* 66, 1383–89.
- Byrd, S.K., McCutcheon, L.J., Hodgson, D.R., Gollnick, P.D. (1989). Altered sarcoplasmic reticulum function after high-intensity exercise. *Journal of Applied Physiology* 67, 2072–77.
- Byrnes, W.C., Clarkson, P.M., White, J.S., Hsieh, S.S., Frykman, P.N., Maughan, R.J. (1985). Delayed onset muscle soreness following repeated bouts of downhill running. *Journal of Applied Physiology* 59, 710–15.
- Cade, R., Packer, D., Zauner, C., Kaufmann, D., Peterson, J., Mars, D., Privette, M., Hommen, N., Fregly, M.J., Rogers, J. (1992). Marathon running: Physiological and chemical changes accompanying late-race functional deterioration. *European Journal of Applied Physiology* 65, 485–91.
- Caffarelli, C., Cataldi, R., Giordano, S., Cavagni, G. (1997). Anaphylaxis induced by exercise and related to multiple food intake. *Allergy Asthma Proceedings* 18, 245–48.
- Caillaud, C., Serre-Cousiné, O., Anselme, F., Capdevilla, A., Préfaut, C. (1995). Computerized tomography and pulmonary diffusing capacity in high trained athletes after performing a triathlon. *Journal of Applied Physiology* 79, 1226–32.
- Caine, D.J., Lindner, K.J. (1984). Growth plate injury: A threat to young distance runners? *Physician and Sportsmedicine* 12 (April), 118–24.
- Caldwell, F. (1982). Menstrual irregularity in athletes: The unanswered question. *Physician and Sportsmedicine* 10 (May), 142.
- Caldwell, F. (1983). Parent's role critical says Bill-Jean King. *Physician and Sportsmedicine* 11 (January), 23–24.
- Calle, E.E., Thun, M.J., Petrelli, J.M., Rodriguez, C., Heath, C.W. (1999). Body-mass index and mortality in a prospective cohort of U.S. adults. *New England Journal of Medicine* 341, 1097–105.
- Callen, K.E. (1983). Mental and emotional aspects of long-distance running. *Psychosomatics* 24, 133–51.
- Calles-Escandón, J., Goran, M.I., O'Connell, M., Nair, K.S., Danforth, E. (1996). Exercise increases fat oxidation at rest unrelated to changes in energy balance or lipolysis. *American Journal of Physiology* 270, E1009–14.
- Camacho, T.D., Roberts, R.E., Lazarus, N.B., Kaplan, G.A., Cohen, R.D. (1991). Physical activity and depression: Evidence from the Alameda County Study. *American Journal of Epidemiology* 134, 220–31.
- Cameron Dow, J. (2001). *Bruce Fordyce: Comrades King*. Guide Book, Parklands, South Africa.
- Cammack, J., Read, N.W., Cann, P.A., Greenwood, B., Holgate, A.M. (1982). Effect of prolonged exercise on the passage of a solid meal through the stomach and small intestine. *Gut* 23, 957–61.
- Campbell, M.E., Hughson, R.L., Green, H.J. (1989). Continuous increase in blood lactate concentration during different ramp exercise protocols. *Journal of Applied Physiology* 66, 1104–7.
- Campbell, W.W., Anderson, R.A. (1987). Effects of aerobic exercise and training on the trace minerals chromium, zinc and copper. *Sports Medicine* 4, 9–18.
- Cann, C.E., Martin, M.L., Gerrants, H.K., Jaffe, R.B. (1984). Decreased spinal mineral content in amenorrhoeic women. *Journal of the American Medical Association* 251, 626–29.
- Cannon, J.G., Kluger, M.J. (1983). Endogenous pyrogen activity in human plasma after exercise. *Science* 220, 617–19.
- Cantu, R.C. (1982). *Diabetics and Exercise*. Dutton, New York.
- Cantwell, J.D. (1981). Gastro-intestinal disorders in runners. *Journal of the American Medical Association* 246, 1404–5.

- Cantwell, J.D. (1998). A new cardiac test for an older doctor. *Physician and Sportsmedicine* 26 (June), 87–90.
- Carlberg, K.A., Buckman, M.T., Peake, G.T., Riedesel, M.L. (1983). Body composition of oligo/amenorrhoeic athletes. *Medicine and Science in Sports and Exercise* 15, 215–17.
- Carlile, F. (1963). *Forbes Carlile on Swimming*. Pelham Books, London.
- Carlile, F. (1964). Athletes and adaptation to stress. In F. Wilt (Ed.), *Run Run Run*. Track and Field News, Los Altos, CA.
- Carlson, L., Havel, R., Ekelund, L.-G., Holmgren, A. (1963). Effect of nicotinic acid on the turnover rate and oxidation of the free fatty acids of plasma in man during exercise. *Metabolism* 12, 837–45.
- Carmack, M.A., Martens, R. (1979). Measuring commitment to running: A survey of runners' attitudes and mental states. *Journal of Sport Psychology* 1, 25–42.
- Carpenter, C.L., Ross, R.K., Paganini-Hill, A., Bernstein, L. (1999). Lifetime exercise activity and breast cancer risk among post-menopausal women. *British Journal of Cancer* 80, 1852–58.
- Carpenter, M.W., Sady, S.P., Hoegsberg, B., Sady, M.A., Haydon, B., Cullinane, E.M., Coustan,
- D.R., Thompson, P.D. (1988). Fetal heart rate response to maternal exertion. *Journal of the American Medical Association* 259, 3006–9.
- Carroll, N. (1981). *The Runner's Book*. Canavaun Books, Dublin.
- Carter, J.E., Gisolfi, C.V. (1989). Fluid replacement during and after exercise in the heat. *Medicine and Science in Sports and Exercise* 21, 532–39.
- Carter, J.E.L., Kasch, F.W., Boyer, J.L., Phillips, W.H., Ross, W.D., Sucec, A. (1967). Structural and functional assessments of a champion runner: Peter Snell. *Research Quarterly* 38, 355–65.
- Carter, R. (1977). Exercise and happiness. *Journal of Sports Medicine* 17, 307–13.
- Carter, S.L., Mourtzakis, M., McKenzie, S., Lowther, S., Tarnopolsky, M.A. (1999). 17 $\alpha$ -estradiol reduces glucose Ra and Rd, but not substrate oxidation in males [Abstract]. *FASEB Journal* 13(5), A878.
- Casa, D.J.M., Maresh, C.M., Armstrong, L.E., Kavouras, S.A., Herrera, J.A., Hacker, F.T., Keith, N.R., Elliott, T.A. (2000). Intravenous versus oral rehydration during a brief period: Responses to subsequent exercise in the heat. *Medicine and Science in Sports and Exercise* 32, 124–33.
- Casal, D.C., Leon, A.S. (1985). Failure of caffeine to affect substrate utilization during prolonged running. *Medicine and Science in Sports and Exercise* 17, 174–79.
- Castellani, J.W., Maresh, C.M., Armstrong, L.E., Kenefick, R.W., Riebe, D., Echegaray, M., Casa, D., Castracane, V.D. (1997). Intravenous vs. oral rehydration: Effects on subsequent exercise-heat stress. *Journal of Applied Physiology* 82, 799–806.
- Catlin, M.E., Dressendorfer, R.H. (1979). Effect of shoe weight on the energy cost of running [Abstract]. *Medicine and Science in Sports* 11, 80.
- Cauley, J.A., Seeley, D.G., Ensrud, K., Ettinger, B., Black, D., Cummings, S.R. (1995). Estrogen replacement therapy and fractures in older women. *Annals of Internal Medicine* 122, 9–16.
- Cavanagh, P.R. (1980). *The Running Shoe Book*. Anderson World, Mountain View, CA.
- Cavanagh, P.R., Williams, K.R. (1982). The effect of stride length variation on oxygen uptake during distance running. *Medicine and Science in Sports and Exercise* 14, 30–35.
- Celsing, F., Blomstrand, E., Werner, B., Pihlstedt, P., Ekblom, B. (1986). Effects of iron deficiency on endurance and muscle enzyme activity in man. *Medicine and Science in Sports and Exercise* 18, 156–61.
- Celsing, F., Svedenhag, J., Pihlstedt, P., Ekblom, B. (1987). Effects of anaemia and stepwise-induced polycythaemia on maximal aerobic power in individuals with high and low haemoglobin concentrations. *Acta Physiologica Scandinavica* 129, 47–54.
- Cerrutty, P.W. (1964). *Middle-Distance Running*. Pelham Books, London.
- Chambers, C., Noakes, T.D., Lambert, E.V., Lambert, M.I. (1998). Time course of recovery of vertical jump height and heart rate versus running speed after a 90-km foot race. *Journal of Sports Sciences* 16, 645–51.
- Chambers, M.J. (1991). Exercise: A prescription for a good night's sleep? *Physician and Sportsmedicine* 19 (August), 107–16.
- Chapman, R.F., Stray-Gundersen, J., Levine, B.D. (1998). Individual variation in response to altitude training. *Journal of Applied Physiology* 84, 1448–56.
- Chave, S.P.W., Morris, J.N., Moss, S., Semmence, A.M. (1978). Vigorous exercise in leisure time and the death rate: A study of male civil servants. *Journal of Epidemiology and Community Health* 32, 239–43.
- Cheng, S., Suominen, H., Rantanen, T., Parkatti, T., Heikkinen, E. (1991). Bone mineral density and physical activity in 50-60-year-old women. *Bone and Minerals* 12, 123–32.
- Cheung, B.S., Money, K.E., Jacobs, I. (1990). Motion sickness susceptibility and aerobic fitness: A longitudinal study. *Aviation and Space Environmental Medicine* 61, 201–4.
- Chevront, S.N., Haymes, E.M. (2001). Ad libitum fluid intakes and thermoregulatory responses of female distance runners in three environments. *Journal of Sports Science* 19, 845–54.
- Chi, M.M., Hintz, C.S., Coyle, E.F., Martin, W.H., Ivy, J.L., Nemeth, P.M. (1983). Effects of detraining on enzymes of energy metabolism in individual human muscle fibres. *American Journal of Physiology* 244, C267–87.
- Chillag, S., Bates, M., Voltin, R., Jones, D. (1990). Sudden death: Myocardial infarction in a runner with normal coronary arteries. *Physician and Sportsmedicine* 18 (March), 89–94.
- Choshniak, I., Wittenberg, C., Saham, D. (1987). Rehydrating Bedouin goats with saline rumen and kidney function. *Physiological Zoology* 60, 373–78.
- Chow, R., Harrison, J.E., Notarius, C. (1987). Effect of two randomised exercise programmes on bone mass of healthy postmenopausal women. *British Medical Journal* 295, 1441–44.
- Christensen, D.L., van Hall, G., Hambraeus, L. (1998). Food intake of Kalenjin runners in Kenya: A field study. *Journal of Sports Sciences* 16, 500.
- Christensen, E.H. (1937). Sauerstoffaufnahme und respiratorische function in grossen höhen. *Skandinavischen Archives fur Physiologie* 76, 88.

- Christensen, E.H., Forbes, W.H. (1937). Der kreislauf in Grossen Höhen. *Scandinavischen Archives fur Physiologie* 76, 75.
- Christensen, E.H., Hansen, O. (1939). Hypoglykamie, arbeitsfahigkeit und ermudung [Hypoglycemia, the ability to work and the onset of fatigue]. *Skandinavisches Archiv fur Physiologie* 81, 172–79.
- Christensen, T., Christensen, G. (1978). The effects of blood loss on the performance of physical exercise. *European Journal of Applied Physiology* 39, 17–25.
- Chryssanthopoulos, C., Hennessy, L.C.M., Williams, C. (1994). The influence of pre-exercise glucose ingestion on endurance running capacity. *British Journal of Sports Medicine* 28, 105–9.
- Chryssanthopoulos, C., Williams, C. (1997). Pre-exercise carbohydrate meal and endurance running capacity when carbohydrates are ingested during exercise. *International Journal of Sports Medicine* 18, 543–48.
- Chryssanthopoulos, C., Williams, C., Wilson, W., Asher, L., Hearne, L. (1994). Comparison between carbohydrate feedings before and during exercise on running performance during a 30-km treadmill time trial. *International Journal of Sport Nutrition* 4, 374–86.
- Ciampricotti, R., Deckers, J.W., Taverne, R., el Gamal, M., Relik-van Wely, L., Pool, J. (1994). Characteristics of conditioned and sedentary men with acute coronary syndromes. *American Journal of Cardiology* 73, 219–22.
- Ciampricotti, R., el Gamal, M., Relik, T., Taverne, R., Panis, J., de Swart, J., van Gelder, B., Relik-van Wely, L. (1990). Clinical characteristics and coronary angiographic findings of patients with unstable angina, acute myocardial infarction, and survivors of sudden ischaemic death occurring during and after sport. *American Heart Journal* 120, 1267–78.
- Cimons, M. (1988). Futile attraction. *Runner's World* (July), 39–46.
- Claassens, A., Lambert, E.V., Bosch, A.N., St. Clair Gibson, A., Rodger, I.M., Noakes, T.D. (2002). Evidence of a differential sensitivity to hypoglycemia during exercise in carbohydrate-depleted individuals. (Manuscript submitted).
- Clancy, W.G. (1980). Runners' injuries. Part Two: Evaluation and treatment of specific injuries. *American Journal of Sports Medicine* 8, 287–89.
- Clapp, J.F. (1989). The effects of maternal exercise on early pregnancy outcome. *American Journal of Obstetrics and Gynecology* 161, 1453–57.
- Clapp, J.F. (1990). The course of labor after endurance exercise during pregnancy. *American Journal of Obstetrics and Gynecology* 163, 1799–805.
- Clapp, J.F. (1991a). The changing thermal response to endurance exercise during pregnancy. *American Journal of Obstetrics and Gynecology* 165, 1684–89.
- Clapp, J.F. (1991b). Exercise and fetal health. *Journal of Developmental Physiology* 15, 9–14.
- Clapp, J.F. (1994). A clinical approach to exercise during pregnancy. *Clinics in Sports Medicine* 13, 443–58.
- Clapp, J.F. (1996). Morphometric and neurodevelopmental outcome at age five years of the offspring of women who continued to exercise regularly throughout pregnancy. *Journal of Pediatrics* 129, 856–63.
- Clapp, J.F., Capeless, E. (1991). The  $\dot{V}O_{2\max}$  of recreational athletes before and after pregnancy. *Medicine and Science in Sports and Exercise* 23, 1128–33.
- Clapp, J.F., Capeless, E.L. (1990). Neonatal morphometrics after endurance exercise during pregnancy. *American Journal of Obstetrics and Gynecology* 163, 1805–11.
- Clapp, J.F., Dickstein, S. (1984). Endurance exercise and pregnancy outcome. *Medicine and Science in Sports and Exercise* 16, 556–62.
- Clapp, J.F., Little, K.D. (1995). Effect of recreational exercise on pregnancy weight gain and subcutaneous fat deposition. *Medicine and Science in Sports and Exercise* 27, 170–77.
- Clark, C.S., Kraus, B.B., Sinclair, J., Castell, D.O. (1989). Gastroesophageal reflux induced by exercise in healthy volunteers. *Journal of the American Medical Association* 261, 3599–601.
- Clark, J.M., Gennari, F.J. (1993). Encephalopathy due to severe hyponatremia in an ultramarathon runners. *Western Journal of Medicine* 159, 188–89.
- Clark, N., Nelson, M., Evans, W. (1988). Nutrition education for elite female runners. *Physician and Sportsmedicine* 16 (February), 124–36.
- Clark, N., Tobin, J., Ellis, C. (1992). Feeding the ultraendurance athlete: Practical tips and a case study. *Journal of the American Dietetic Association* 92, 1258–62.
- Clark, V.R., Hopkins, W.G., Hawley, J.A., Burke, L.M. (2000). Placebo effect of carbohydrate feedings during a 40-km cycling time trial. *Medicine and Science in Sports and Exercise* 32, 1642–47.
- Clarke, R. (1966). *The Unforgiving Minute*. Pelham Books, London.
- Clarke, R., Harris, N. (1967). *The Lonely Breed*. Pelham Books, London.
- Clarke, T.E., Frederick, E.C., Cooper, L.B. (1983a). Effects of shoe cushioning upon ground reaction forces in running. *International Journal of Sports Medicine* 4, 247–51.
- Clarke, T.E., Frederick, E.C., Hamill, C.L. (1983b). The effects of shoe design parameters on rearfoot control in running. *Medicine and Science in Sports and Exercise* 15, 376–81.
- Clarkson, P.M. (1991). Minerals: Exercise performance and supplementation in athletes. *Journal of Sports Sciences* 9, 91–116.
- Clarkson, P.M., Haymes, E.M. (1994). Trace mineral requirements for athletes. *International Journal of Sport Nutrition* 4, 104–19.
- Clarkson, P.M., Nosaka, K., Braun, B. (1992). Muscle function after exercise-induced muscle damage and rapid adaptation. *Medicine and Science in Sports and Exercise* 24, 512–20.
- Clarkson, P.M., Sayers, S.P. (1999). Etiology of exercise-induced muscle damage. *Canadian Journal of Applied Physiology* 24, 234–48.
- Clausen, J.P. (1977). Effects of physical training on cardiovascular adjustments to exercise in man. *Physiological Reviews* 57, 779–815.
- Clayton, D. (1980). *Running to the Top*. Anderson World, Mountain View, CA.
- Clayton, R.P. (1991). Stress reactivity: Hemodynamic adjustments in trained and untrained humans. *Medicine and Science in Sports and Exercise* 23, 873–81.
- Clement, D.B. (1974). Tibial stress syndrome in athletes. *Journal of Sports Medicine* 2, 81–85.



- Clement, D.B., Asmundson, R., Medhurst, C.W. (1977). Haemoglobin values: Comparative survey of the 1976 Canadian Olympic Team. *Canadian Medical Association Journal* 117, 614–16.
- Clement, D.B., Asmundson, R.C. (1982). Nutritional intake and hematological parameters in endurance runners. *Physician and Sportsmedicine* 10 (March), 37–43.
- Clement, D.B., Sawchuk, L.L. (1984). Iron status and sports performance. *Sports Medicine* 1, 65–74.
- Clement, D.B., Taunton, J.E., Smart, G.W. (1984). Achilles tendinitis and peritendinitis: Etiology and treatment. *American Journal of Sports Medicine* 12, 179–84.
- Clement, D.B., Taunton, J.E., Smart, G.W., McNicol, K.L. (1981). A survey of overuse running injuries. *Physician and Sportsmedicine* 9 (May), 47–58.
- Coen, B., Urhausen, A., Kindermann, W. (1988). Value of the Conconi test for determination of the anaerobic threshold. *International Journal of Sports Medicine* 9, 372.
- Coenen, C., Wegener, M., Wedmann, B., Schmidt, G., Hoffmann, S. (1992). Does physical exercise influence bowel transit time in healthy young men? *American Journal of Gastroenterology* 87, 292–95.
- Coetzer, P., Noakes, T.D., Sanders, B., Lambert, M.I., Bosch, A.N., Wiggins, T., Dennis, S.C. (1993). Superior fatigue resistance of elite black South African distance runners. *Journal of Applied Physiology* 75, 1822–27.
- Coggan, A.R., Coyle, E.F. (1987). Reversal of fatigue during prolonged exercise by carbohydrate infusion or ingestion. *Journal of Applied Physiology* 63, 2388–95.
- Coggan, A.R., Coyle, E.F. (1988). Effect of carbohydrate feedings during high-intensity exercise. *Journal of Applied Physiology* 65, 1703–9.
- Coggan, A.R., Coyle, E.F. (1989). Metabolism and performance following carbohydrate ingestion late in exercise. *Medicine and Science in Sports and Exercise* 21, 59–65.
- Coggan, A.R., Coyle, E.F. (1991). Carbohydrate ingestion during prolonged exercise: effects on metabolism and performance. *Exercise and Sports Science Reviews* 19, 1–40.
- Coggan, A.R., Spina, R.J., King, D.S., Rogers, M.A., Brown, M., Nemeth, P.M., Holloszy, J.O. (1992). Skeletal muscle adaptations to endurance training in 60- to 70-yr-old men and women. *Journal of Applied Physiology* 72, 1780–86.
- Cohen, J.L., Kim, C.S., May, P.B., Ertel, N.H. (1982). Exercise, body weight and professional ballet dancers. *Physician and Sportsmedicine* 10 (April), 92–101.
- Cohen, L.A., Choi, K.W., Wang, C.X. (1988). Influence of dietary fat, caloric restriction, and voluntary exercise on N-nitrosomethylurea-induced mammary tumorigenesis in rats. *Cancer Research* 48, 4276–83.
- Cokkinades, V.E., Macera, C.A., Pate, R.R. (1990). Menstrual dysfunction among habitual runners. *Women and Health* 16, 59–69.
- Colberg, S.R., Simoneay, J.-A., Thaete, F.L., Kelley, D.E. (1995). Skeletal muscle utilization of free fatty acids in women with visceral obesity. *Journal of Clinical Investigations* 95, 1846–53.
- Colbert, L.H., Hootman, J.M., Macera, C.A. (2000). Physical activity-related injuries in walkers and runners in the Aerobics Center Longitudinal Study. *Clinical Journal of Sport Medicine* 10, 259–63.
- Cole, C.R., Blackstone, E.H., Pashkow, F.J., Snader, C.E., Lauer, M.S. (1999). Heart-rate recovery immediately after exercise as a predictor of mortality. *New England Journal of Medicine* 341, 1351–57.
- Cole, K.J., Costill, D.L., Starling, R.D., Goodpaster, B.H., Trappe, S.W., Fink, W.J. (1996). Effect of caffeine ingestion on perception of effort and subsequent work production. *International Journal of Sport Nutrition* 6, 14–23.
- Coleman, E. (1994). Update on carbohydrate: Solid versus liquid. *International Journal of Sport Nutrition* 4, 80–88.
- Collegian Harriers. (1981). *The Distance Runner's Log: To the Lonely Breed* (9th ed.). Collegian Harriers, Pietermaritzburg.
- Collings, C., Curet, L.B. (1985). Fetal heart rate response to maternal exercise. *American Journal of Obstetrics and Gynecology* 151, 498–501.
- Collings, C.A., Curet, L.B., Mullin, J.P. (1983). Maternal and fetal responses to a maternal aerobic exercise programme. *American Journal of Obstetrics and Gynecology* 145, 702–7.
- Collomp, K., Ahmaidi, S., Chatard, J.C., Audran, M., Prefaut, C. (1992). Benefits of caffeine ingestion on sprint performance in trained and untrained swimmers. *European Journal of Applied Physiology* 64, 377–80.
- Colombani, P., Wenk, C., Kunz, I., Krahenbuhl, S., Kuhnt, M., Arnold, M., Frey-Rindova, P., Frey, W., Langhans, W. (1996). Effects of L-carnitine supplementation on physical performance and energy metabolism of endurance-trained athletes: A double-blind crossover field study. *European Journal of Applied Physiology* 73, 434–39.
- Colt, E.W.D., Dunner, D.L., Hall, K., Fieve, R.R. (1981). A high prevalence of affective disorder in runners. In M.H. Sacks, M.L. Sachs (Eds.), *The Psychology of Running*. Human Kinetics, Champaign, IL 234–48.
- Committee on School Health. (1956). Competitive athletics: A statement of policy. *Pediatrics* 18, 672–76.
- Conconi, F., Ferrare, M., Ziglio, P.G., Droghetti, P., Codeca, L. (1982). Determination of the anaerobic threshold by a non-invasive field test in runners. *Journal of Applied Physiology* 52(4), 869–73.
- Conlee, R.K. (1987). Muscle glycogen and exercise endurance: A twenty-year perspective. *Exercise and Sport Science Review* 15, 1–28.
- Conlee, R.K., Lawler, R.M., Ross, P.E. (1987). Effect of glucose or fructose feeding on glycogen repletion in muscle and liver after exercise or fasting. *Annals of Nutrition and Metabolism* 31, 126–32.
- Conley, D.L., Krahenbuhl, G.S. (1980). Running economy and distance running performance of highly trained athletes. *Medicine and Science in Sports and Exercise* 12, 357–60.
- Conley, D.L., Krahenbuhl, G.S., Burkett, L.N. (1981a). Training for aerobic capacity and running economy. *Physician and Sportsmedicine* 9 (April), 107–15.
- Conley, D.L., Krahenbuhl, G.S., Burkett, L.N., Millar, A.L. (1981b). Physiological correlates of female road racing performance. *Research Quarterly* 52, 441–48.
- Conley, D.L., Krahenbuhl, G.S., Burkett, L.N., Millar, A.L. (1984). Following Steve Scott: Physiological changes accompanying training. *Physician and Sportsmedicine* 12 (January), 103–6.

- Connelly, J.B., Cooper, J.A., Meade, T.W. (1992). Strenuous exercise, plasma fibrinogen, and factor VII activity. *British Heart Journal* 67, 351–54.
- Connett, R.J., Gayeski, T.E.J., Honig, C.R. (1984). Lactate accumulation in fully aerobic, working, dog gracilis muscle. *American Journal of Physiology* 246, H120–28.
- Connett, R.J., Gayeski, T.E.J., Honig, C.R. (1985). Energy sources in fully aerobic rest-work transitions: A new role for glycolysis. *American Journal of Physiology* 248, H922–29.
- Connett, R.J., Gayeski, T.E.J., Honig, C.R. (1986). Lactate efflux is unrelated to intracellular PO<sub>2</sub> in a working red muscle in situ. *Journal of Applied Physiology* 61, 402–8.
- Considine, R.V., Sinha, M.K., Heiman, M.L., Kriauciunas, A., Stephens, T.W., Nyce, M.R., Ohannesian, J.P., Marco, C.C., McKee, L.J., Bauer, T.L. et al. (1996). Serum immunoreactive-leptin concentrations in normal-weight and obese humans. *New England Journal of Medicine* 334, 292–95.
- Consolazio, F.C., Forbes, W.H. (1946). The effects of a high fat diet in a temperate environment. *Journal of Nutrition* 32, 195–211.
- Conway, T.L., Cronan, T.A. (1988). Smoking and physical fitness among Navy shipboard men. *Military Medicine* 153, 589–94.
- Conway, T.L., Cronan, T.A. (1992). Smoking, exercise and physical fitness. *Preventive Medicine* 21, 723–34.
- Cook, S.D., Harding, A.F., Thomas, K.A., Morgan, E.L., Schnurpfeil, K.M., Haddad, R.J. (1987). Trabecular bone density and menstrual function in women runners. *American Journal of Sports Medicine* 15, 503–7.
- Cook, S.D., Kester, M.A., Brunet, M.E. (1985a). Shock absorption characteristics of running shoes. *American Journal of Sports Medicine* 13, 248–53.
- Cook, S.D., Kester, M.A., Brunet, M.E., Haddad, R.J. (1985b). Biomechanics of running shoe performance. *Clinics in Sports Medicine* 4, 619–26.
- Cooke, R., Pate, E. (1985). The effects of ADP and phosphate on the contraction of muscle fibres. *Biophysical Journal* 48, 789–98.
- Coon, G.P. (1957). Echoes of the marathon. *New England Journal of Medicine* 257, 1168–69.
- Cooper, A.M. (1981). Masochism and long-distance running. In M.H. Sachs, M.L. Sachs (Eds.), *The Psychology of Running*. Human Kinetics, Champaign, IL 267–73.
- Cooper, C., Barker, D.J., Wickham, C. (1988). Physical activity, muscle strength, and calcium intake in fracture of the proximal femur in Britain. *British Medical Journal* 297, 1443–46.
- Cooper, D. (1986). The megamarathon: 24 hours beyond. In A. Milroy (Ed.), *Training for Ultras*. Road Runners Club, London.
- Cooper, D. (1990). A decade of distance running: Or how to have fun with megamarathons. (Unpublished manuscript.)
- Cooper, K.H. (1968). *Aerobics*. Evans, New York.
- Cooper-Patrick, L., Ford, D.E., Mead, L.A., Chang, P.P., Klag, M.J. (1997). Exercise and depression in midlife: A prospective study. *American Journal of Public Health* 87, 670–73.
- Copolov, D.L., Helme, R.D. (1983). Enkephalins and endorphins: Clinical, pharmacological and therapeutic implications. *Drugs* 26, 503–19.
- Cordain, L., Latin, R.W., Behnke, J.J. (1986). The effects of an aerobic running program on bowel transit time. *Journal of Sports Medicine and Physical Fitness* 26, 101–4.
- Costill, D.L. (1967). The relationship between selected physiological variables and distance running performance. *Journal of Sports Medicine and Physical Fitness* 7, 61–66.
- Costill, D.L. (1970). Metabolic responses during distance running. *Journal of Applied Physiology* 28, 251–55.
- Costill, D.L. (1977). Sweating: Its composition and effects on body fluids. *Annals of the New York Academy of Sciences* 301, 160–74.
- Costill, D.L. (1979). *A Scientific Approach to Distance Running*. Track and Field News, Los Altos, CA.
- Costill, D.L. (1982). Salazar and Clayton: A physiological comparison of the marathon record holders. *The Runner* 4 (March), 20.
- Costill, D.L. (1985). The 1985 C.H. McCloy Research Lecture. *Research Quarterly for Exercise and Sport* 56, 378–84.
- Costill, D.L. (1986). *Inside Running: Basics of Sports Physiology*. Benchmark Press, Indianapolis.
- Costill, D.L., Bowers, R., Kammer, W.F. (1970). Skinfold estimates of body fat among marathon runners. *Medicine and Science in Sports* 2, 93–95.
- Costill, D.L., Branam, G., Eddy, D., Sparks, K. (1971). Determinants of marathon running success. *Internationale Zeitschrift für Angewandte Physiologie* 29, 249–54.
- Costill, D.L., Cote, R., Fink, W.J. (1982). Dietary potassium and heavy exercise: Effects on muscle water and electrolytes. *American Journal of Clinical Nutrition* 36, 266–75.
- Costill, D.L., Cote, R., Miller, E., Miller, T., Wynder, S. (1970). Water and electrolyte replacement during days of work in the heat. *Aviation, Space and Environmental Medicine* 46, 795–800.
- Costill, D.L., Coyle, E., Dalsky, G., Evans, W., Fink, W., Hoopes, D. (1977). Effect of elevated plasma FFA and insulin on muscle glycogen usage during exercise. *Journal of Applied Physiology* 43, 695–99.
- Costill, D.L., Dalsky, G.P., Fink, W.J. (1978). Effects of caffeine ingestion on metabolism and exercise performance. *Medicine and Science in Sports* 10, 155–58.
- Costill, D.L., Fink, W.J., Flynn, M., Kirwan, J. (1987). Muscle fibre composition and enzyme activities in elite female distance runners. *International Journal of Sports Medicine* 8 (Suppl 3), 103–6.
- Costill, D.L., Fink, W.J., Getchell, L.H., Ivy, J.L., Witzmann, F.A. (1979). Lipid metabolism in skeletal muscle of endurance-trained males and females. *Journal of Applied Physiology* 47, 787–91.
- Costill, D.L., Fox, E.L. (1969). Energetics of marathon running. *Medicine and Science in Sports and Exercise* 1, 81–86.
- Costill, D.L., Higdon, H. (1981). A season in Norway: What makes Grete run? *The Runner* (April), 50–83.
- Costill, D.L., Jansson, E., Gollnick, P.D., Saltin, B. (1974). Glycogen utilization in leg muscle of mean during level and uphill running. *Acta Physiologica Scandinavica* 91, 475–81.
- Costill, D.L., King, D.S., Thomas, R., Hargreaves, M. (1985). Effects of reduced training on muscular power in swimmers. *Physician and Sports Medicine* 13 (February), 94–101.

- Costill, D.L., Maglischo, E.W., Richardson, A.B. (1992). *Swimming*. Blackwell Science, London.
- Costill, D.L., Miller, J.M. (1980). Nutrition for endurance sport: Carbohydrate and fluid balance. *International Journal of Sports Medicine* 1, 2–14.
- Costill, D.L., Saltin, B. (1974). Factors limiting gastric emptying during rest and exercise. *Journal of Applied Physiology* 37, 679–83.
- Costill, D.L., Sherman, W.M., Fink, W.J., Maresh, C., Witten, M., Miller, J.M. (1981). The role of dietary carbohydrate in muscle glycogen resynthesis after strenuous exercise. *American Journal of Clinical Nutrition* 34, 1831–36.
- Costill, D.L., Thomas, R.A., Robergs, D., Pascoe, C., Lambert, M., Bar, S., Fink, W.J. (1991). Adaptations to swimming training: Influence of training volume. *Medicine and Science in Sports and Exercise* 23, 371–77.
- Costill, D.L., Thomason, H., Roberts, E. (1973). Fractional utilization of the aerobic capacity during distance running. *Medicine and Science in Sports* 5, 248–52.
- Costill, D.L., Winrow, E. (1970a). A comparison of two middle-aged ultramarathon runners. *Research Quarterly* 41, 135–39.
- Costill, D.L., Winrow, E. (1970b). Maximal oxygen intake among marathon runners. *Archives of Physical and Medical Rehabilitation* 51, 317–20.
- Costrini, A. (1990). Emergency treatment of exertional heatstroke and comparison of whole body cooling techniques. *Medicine and Science in Sports and Exercise* 22, 15–18.
- Counsillman, J.E. (1968). *The Science of Swimming*. Pelham Books, London.
- Counsillman, J.E. (1986). The role of the coach in training for swimming. *Clinics in Sports Medicine* 5, 3–7.
- Coupland, C., Wood, D., Cooper, C. (1993). Physical inactivity is an independent risk factor for hip fracture in the elderly. *Journal of Epidemiology and Community Health* 47, 441–43.
- Cowan, D.N., Jones, B.H., Frykman, P.N., Polly, D.W., Harman, E.A., Rosenstein, R.M., Rosenstein, M.T. (1996). Lower limb morphology and risk of overuse injury among male infantry trainees. *Medicine and Science in Sports and Exercise* 28, 945–52.
- Cowan, D.N., Jones, B.H., Robinson, J.R. (1993). Foot morphologic characteristics and risk of exercise-related injury. *Archives of Family Medicine* 2, 773–77.
- Cowley, G. (1992). Can sunshine save your life? *Newsweek* (January 6), 53.
- Coyle, E.F. (1991). Timing and method of increased carbohydrate intake to cope with heavy training. *Journal of Sports Sciences* 9, 29–52.
- Coyle, E.F., Coggan, A.R., Hemmert, M.K., Ivy, J.L. (1986). Muscle glycogen utilization during prolonged strenuous exercise when fed carbohydrate. *Journal of Applied Physiology* 61, 165–72.
- Coyle, E.F., Coggan, A.R., Hemmert, M.K., Lowe, R.C., Walters, T.J. (1985). Substrate usage during prolonged exercise following a preexercise meal. *Journal of Applied Physiology* 59, 429–33.
- Coyle, E.F., Costill, D.L., Fink, W.J., Hoopes, D.G. (1978). Gastric emptying rates for selected athletic drinks. *Research Quarterly* 49, 119–24.
- Coyle, E.F., Hagberg, J.M., Hurley, B.F., Martin, W.H., Ehsani, A.A., Holloszy, J.O. (1983). Carbohydrate feeding during prolonged strenuous exercise can delay fatigue. *Journal of Applied Physiology* 55, 230–35.
- Coyle, E.F., Hamilton, M.T., Alonso, J.G., Montain, S.J., Ivy, J.L. (1991). Carbohydrate metabolism during intense exercise when hyperglycemic. *Journal of Applied Physiology* 70, 834–40.
- Coyle, E.F., Hemmert, M.K., Coggan, A.R. (1986). Effects of detraining on cardiovascular responses to exercise: role of blood volume. *Journal of Applied Physiology* 60, 95–99.
- Coyle, E.F., Jeukendrup, A.E., Wagenmakers, A.J.M., Saris, W.H.M. (1997). Fatty acid oxidation is directly regulated by carbohydrate metabolism during exercise. *American Journal of Physiology* 273, E268–75.
- Coyle, E.F., Martin, W.H., Bloomfield, S.A., Lowry, O.H., Holloszy, J.O. (1985). Effects of detraining on responses to submaximal exercise. *Journal of Applied Physiology* 59, 853–59.
- Coyle, E.F., Martin III, W.H., Sinacore, D.R., Joyner, M.J., Hagberg, J.M., Holloszy, J.O. (1984). Time course of loss of adaptations after stopping prolonged intense endurance training. *Journal of Applied Physiology* 57, 1857–64.
- Coyle, E.F., Sidossis, L.S., Horowitz, J.F., Beltz, J.D. (1992). Cycling efficiency is related to the percentage of Type I muscle fibers. *Medicine and Science in Sports and Exercise* 24, 782–88.
- Craciun, A.M., Wolf, J., Knapen, M.H.J., Brouns, F., Vermeer, C. (1998). Improved bone metabolism in female elite athletes after vitamin K supplementation. *International Journal of Sports Medicine* 19, 479–84.
- Craib, M.W., Mitchell, V.A., Fields, K.B., Cooper, T.R., Hopewell, R., Morgan, D.W. (1996). The association between flexibility and running economy in sub-elite male distance runners. *Medicine and Science in Sports and Exercise* 28, 737–43.
- Cramer, D.W., Wilson, E., Stillman, R.J., Berger, M.J., Belisle, S., Schiff, I., Albrecht, B., Gibson, M., Stadel, B.V., Schoenbaum, S.C. (1986). The relation of endometriosis to menstrual characteristics, smoking, and exercise. *Journal of the American Medical Association* 255, 1904–8.
- Cratty, B.J. (1983). *Psychology in Contemporary Sport: Guidelines for Coaches and Athletes*. Prentice Hall, Englewood Cliffs, NJ.
- Crawford, E., Gilmore, D., James, W.H. (1992). Running in the family. *Nature* 357, 272.
- Crenshaw, A.G., Fridén, J., Hargens, A.R., Lang, G.H., Thornell, L.E. (1993). Increased technetium uptake is not equivalent to muscle necrosis: Scintigraphic, morphological and intramuscular pressure analyses of sore muscles after exercise. *Acta Physiologica Scandinavica* 148, 187–98.
- Crews, D.J., Landers, D.M. (1987). A meta-analytic review of aerobic fitness and reactivity to psychosocial stressors. *Medicine and Science in Sports and Exercise* 19, S114–20.
- Criswell, D., Powers, S., Dodd, S., Lawler, J., Edwards, W., Renshler, K., Grinton, S. (1993). High intensity training-induced changes in skeletal muscle antioxidant enzyme activity. *Medicine and Science in Sports and Exercise* 25, 1135–40.

- Crossley, K., Bennell, K.L., Wrigley, T., Oakes, B.W. (1999). Ground reaction forces, bone characteristics, and tibial stress fracture in male runners. *Medicine and Science in Sports and Exercise* 31, 1088–93.
- Csikszentmihalyi, M. (1975). *Beyond Boredom and Anxiety*. Jossey-Bass, San Francisco.
- Cumming, D.C., Wheeler, G.D., McColl, E.M. (1989). The effects of exercise on reproductive function in men. *Sports Medicine* 7, 1–17.
- Cunningham, J.J. (1980). A re-analysis of the factors influencing basal metabolic rate in normal adults. *American Journal of Clinical Nutrition* 33, 2372–74.
- Cunningham, L.N. (1990). Relationship of running economy, ventilatory threshold, and maximal oxygen consumption to running performance in high school females. *Research Quarterly in Exercise and Sport* 6, 369–73.
- Cureton, K., Bishop, P., Hutchinson, P., Newland, H., Vickery, S., Zwiren, L. (1986). Sex difference in maximal oxygen uptake: Effect of equating haemoglobin concentration. *European Journal of Applied Physiology* 54, 656–60.
- Cureton, K.J., Boileau, R.A., Riner, W.F. (1975). Structural and physiological evaluation of Craig Virgin, 1975 NCAA Cross-country champion. (Unpublished study.) Physical Fitness Research Laboratory, University of Illinois, Champaign.
- Cureton, K.J., Sparling, P.B. (1980). Distance running performance and metabolic responses to running in men and women with excess weight experimentally equated. *Medicine and Science in Sports and Exercise* 12, 288–94.
- Cureton, K.J., Sparling, P.B., Evans, B.W., Johnson, S.M., Kong, U.D., Purvis, J.W. (1978). Effect of experimental alterations in excess weight on aerobic capacity and distance running performance. *Medicine and Science in Sports* 10, 194–99.
- Currens, J.H., White, P.D. (1961). Half a century of running: Clinical, physiological and autopsy findings in the case of Clarence de Mar (Mr. Marathon). *New England Journal of Medicine* 265, 988–93.
- Currie, A., Potts, S.G., Donovan, W., Blackwood, D. (1999). Illness behaviour in elite middle and long distance runners. *British Journal of Sports Medicine* 33, 19–21.
- Cyax, J. (1978). *Textbook of Orthopaedic Medicine* (10th ed.). Bailliere Tindall, London.
- Cyranoski, D. (2000). Swimming against the tide. *Nature* 408, 764–66.
- Czajkowski, W. (1982). A simple method to control fatigue in endurance training. In P.V. Komi (Ed.), *Exercise and Sport Biology, International Series on Sport Sciences*. Human Kinetics, Champaign, IL, 207–212.
- Daily, W.M., Harrison, T.R. (1948). A study of the mechanism and treatment of experimental heat pyrexia. *American Journal of Medical Sciences* 215, 42–55.
- Dale, E., Gerlach, D.M., Wilhite, A.L. (1979). Menstrual dysfunction in distance runners. *Obstetrics and Gynecology* 54, 47–53.
- Dale, E., Goldberg, D.L. (1982). Implications of nutrition in athletes' menstrual cycle irregularities. *Canadian Journal of Applied Sports Science* 7, 74–78.
- Dale, E., Mullinax, K.M., Byran, D.H. (1982). Exercise during pregnancy: Effects on the fetus. *Canadian Journal of Applied Sports Science* 7, 98–103.
- D'Alessio, D.A., Kavie, E.C., Mozzoll, M.A., Smalley, K.J., Polansky, M., Kendrick, Z.V., Owen, L.R., Bushman, M.C., Boden, G., Owen, O.E. (1988). Thermic effect of food in lean and obese men. *Journal of Clinical Investigation* 81, 1781–89.
- Dalsky, G.P., Stocke, K.S., Ehsani, A.A., Slatopolsky, E., Lee, W.C., Birge, S.J. (1988). Weight-bearing exercise training and lumbar bone mineral content in postmenopausal women. *Annals of Internal Medicine* 108, 824–28.
- Dalton, J.E., Maier, R.A., Posavac, E.J. (1977). A self-fulfilling prophecy in a competitive psychomotor task. *Journal of Research in Personality* 11, 487–95.
- Dalton, K., Williams, J.G.P. (1976). Women in sport. In J.G.P. Williams, P.N. Sperryn (Eds.), *Sports Medicine*. Edward Arnold, London.
- Damm, S., Andersson, L.G., Henriksen, E., Niklasson, U., Jonason, T., Ahrén, T., Wesslén, L., Nyström-Rosander, C., Rolf, C., Hedenstierna, G., Ringqvist, I., Friman, G. (1999). Wall motion abnormalities in male elite orienteers are aggravated by exercise. *Clinical Physiology* 19, 121–26.
- Damsgaard, R., Bencke, J., Mattiesen, G., Petersen, J.H., Müller, J. (2000). Is prepubertal growth adversely affected by sport? *Medicine and Science in Sports and Exercise* 32, 1698–703.
- Danforth, E. (1985). Diet and obesity. *American Journal of Clinical Nutrition* 41, 1132–45.
- Daniel, M., Martin, A.D., Carter, J. (1992). Opiate receptor blockade by naltrexone and mood state after acute physical activity. *British Journal of Sports Medicine* 26(2), 111–15.
- Daniels, J. (1974). Physiological characteristic of champion male athletes. *Research Quarterly* 45, 342–438.
- Daniels, J. (1998). *Daniel's Running Formula*. Human Kinetics, Champaign, IL.
- Daniels, J., Daniels, N. (1992). Running economy of elite male and elite female runners. *Medicine and Science in Sports and Exercise* 24, 483–89.
- Daniels, J., Fitts, R., Sheehan, G. (1978). *Conditioning for Distance Running: The Scientific Aspects*. Wiley and Sons, New York.
- Daniels, J., Krahenbuhl, G., Foster, C., Gilbert, J., Daniels, S. (1977). Aerobic responses of female distance runners to submaximal and maximal exercise. *Annals of the New York Academy of Sciences* 301, 726–33.
- Daniels, J., Oldridge, N. (1970). The effects of alternate exposure to altitude and sea level on world-class middle distance runners. *Medicine and Science in Sports* 2, 107–12.
- Daniels, J., Oldridge, N. (1971). Changes in oxygen consumption of young boys during growth and running training. *Medicine and Science in Sports* 3, 161–65.
- Daniels, J., Oldridge, N., Nagle, F., White, B. (1978). Differences and changes in  $\dot{V}O_{2\max}$  among young runners 10 to 18 years of age. *Medicine and Science in Sports* 10, 200–203.
- Daniels, J.T. (1974). Running with Jim Ryun: A give-year study. *Physician and Sportsmedicine* 2 (September), 62–67.
- Daniels, J.T., Scardina, N.J., Foley, P. (1984).  $\dot{V}O_{2\max}$  during five modes of exercise. In N. Bachl, L. Prokop, R. Suckert (Eds.), *Proceedings of the World Congress on Sports Medicine, Vienna, 1982*. Urban and Schwarzenberg, Vienna, 604–15.

- Daniels, J.T., Yarbough, R.A., Foster, C. (1978). Changes in  $\text{VO}_2\text{max}$  and running performance with training. *European Journal of Applied Physiology* 39, 249–54.
- Daniels, W.L., Vogel, J.A., Sharp, D.S., Friman, G., Wright, J.E., Beisel, W.R., Knapik, J.J. (1985). Effects of virus infections on physical performance in man. *Military Medicine* 150, 8–14.
- Danilewitz, M.D., Mohamed, H., Jeppe, C., Botha, J.F. (1984). Incidence of lactose intolerance in whites with irritable bowel syndrome and symptomatic response to diet. *South African Medical Journal* 65, 1019.
- Dare, C., Eisler, I., Russell, G.F.M., Szmukler, G.I. (1990). The clinical and theoretical impact of a controlled trial of family therapy in anorexia nervosa. *Journal of Marital and Family Therapy* 16, 39–57.
- Daries, H.N., Noakes, T.D., Dennis, S.C. (2000). Effect of fluid intake volume on 2-h running performances in a 25°C environment. *Medicine and Science in Sports and Exercise* 32, 1783–89.
- D'Avanzo, B., Santoro, L., La Vecchia, C., Maggioni, A., Nobili, A., Iacuitti, G., Franceschi, S. (1993). Physical activity and the risk of acute myocardial infarction. *Applied Epidemiology* 3, 645–51.
- Davey, J.R., Rorabeck, C.H., Fowler, P.J. (1984). The tibialis posterior muscle compartment: An unrecognized cause of exertional compartment syndrome. *American Journal of Sports Medicine* 12, 391–97.
- David, C., Brewer, H., Ratusny, D. (1993). Behavioral frequency and psychological commitment: Necessary concepts in the study of excessive exercising. *Journal of Behavioral Medicine* 16, 611–28.
- Davidson, J., Gemmell, H.G., Leiper, J.B., Maughan, R.J., Smith, F.W. (1988). Gastric emptying of moderate volumes of glucose drinks in humans. *Journal of Physiology* 387, 95P.
- Davies, C.T.M. (1980a). Effects of air resistance on the metabolic cost and performance of cycling. *European Journal of Applied Physiology* 45, 245–54.
- Davies, C.T.M. (1980b). Effects of wind assistance and resistance on the forward motion of a runner. *Journal of Applied Physiology* 48, 702–09.
- Davies, C.T.M. (1980c). Metabolic cost of exercise and physical performance in children with some observations on external loading. *European Journal of Applied Physiology* 45, 95–102.
- Davies, C.T.M. (1981). Wind resistance and assistance in running. In P.E. di Prampero, J.R. Poortmans (Eds.), *Medicine in Sport*. Karger, Basel, 199–212.
- Davies, C.T.M., Thompson, M.W. (1979). Aerobic performance of female marathon and male ultramarathon athletes. *European Journal of Applied Physiology* 41, 233–45.
- Davies, C.T.M., Thompson, M.W. (1986). Physiological responses to prolonged exercise in ultramarathon athletes. *Journal of Applied Physiology* 61, 611–17.
- Davies, K.J.A., Packer, L., Brooks, G.A. (1981). Biochemical adaptation of mitochondria, muscle, and whole animal respiration to endurance training. *Archives of Biochemistry and Biophysics* 209, 539–54.
- Davies, K.J.A., Packer, L., Brooks, G.A. (1982). Exercise bioenergetics following sprint training. *Archives of Biochemistry* 215, 260–65.
- Davies, K.J.A., Quintanilha, A.T., Brooks, G.A., Packer, L. (1982). Free radicals and tissue damage produced by diet and exercise. *Biochemical and Biophysical Research Communications* 107, 1198–205.
- Davila-Roman, V.G., Guest, T.M., Tuteur, P.G., Rowe, W.J., Ladenson, J.H., Jaffe, A.S. (1997). Transient right but not left ventricular dysfunction after strenuous exercise at high altitude. *Journal of the American College of Cardiology* 30, 468–73.
- Davis, C., Kaptein, S., Kaplan, A.S., Olmsted, M.P., Woodside, D.B. (1998). Obsessionality in anorexia nervosa: The moderating influence of exercise. *Psychosomatic Medicine* 60, 192–97.
- Davis, C., Katzman, D.K., Kaptein, S., Kirsh, C., Brewer, H., Kalmbach, K., Olmsted, M.P., Woodside, D.B., Kaplan, A.S. (1997). The prevalence of high-level exercise in the eating disorders: Etiological implications. *Comprehensive Psychiatry* 38, 321–26.
- Davis, C., Kennedy, S.H., Ravelski, E., Dionne, M. (1994). The role of physical activity in the development and maintenance of eating disorders. *Psychological Medicine* 24, 957–67.
- Davis, C., Kennedy, S.H., Ralevski, E., Dionne, M., Brewer, H., Neitzert, C., Ratusny, D. (1995). Obsessive compulsiveness and physical activity in anorexia nervosa and high-level exercising. *Journal of Psychosomatic Research* 39(8), 967–76.
- Davis, D., Marini, A., Vilke, G., Dunford, J., Videen, J. (1999). Hyponatremia in marathon runners: Experience with the inaugural Rock 'n Roll Marathon. *Annals of Emergency Medicine* 34, S40.
- Davis, D.P., Videen, J.S., Marino, A., Vilke, G.M., Dunford, J.V., van Camp, S.P., Maharam, L.G. (2001). Exercise-associated hyponatremia in marathon runners: A two-year experience. *Journal of Emergency Medicine* 21, 47–57.
- Davis, J.M. (1995). Central and peripheral factors in fatigue. *Journal of Sports Sciences* 13, S49–53.
- Davis, J.M., Bailey, S.P. (1997). Possible mechanisms of central nervous system fatigue during exercise. *Medicine and Science in Sports and Exercise* 29, 45–57.
- Davis, J.M., Bailey, S.P., Woods, J.A., Galiano, F.J., Hamilton, M.T., Bartoli, W.P. (1992). Effects of carbohydrate feedings on plasma free tryptophan and branched-chain amino acids during prolonged cycling. *European Journal of Applied Physiology* 65, 513–19.
- Davis, J.M., Burgess, W.A., Slentz, C.A., Bartoli, W.P., Pate, R.R. (1988). Effects of ingesting 6% and 12% glucose/electrolyte beverages during prolonged intermittent cycling in the heat. *European Journal of Applied Physiology* 57, 563–69.
- Davis, J.M., Lamb, D.R., Burgess, W.A., Bartoli, W.P. (1987). Accumulation of deuterium oxide in body fluids after ingestion of  $\text{D}_2\text{O}$ -labelled beverages. *Journal of Applied Physiology* 63, 2060–66.
- Daws, R. (1977). *The Self-Made Olympian*. Anderson World, Mountain View, CA.
- Daws, R. (1978). Training to peak. In J. Henderson (Ed.), *The Complete Marathoner*. Anderson World, Mountain View, CA.
- Dawson, B., Fitzsimons, M., Green, S., Goodman, C., Carey, M., Cole, K. (1998). Changes in performance, muscle metabolites, enzymes and fibre types after short sprint training. *European Journal of Applied Physiology* 78, 163–69.

- Dawson, T.J., Taylor, C.R. (1973). Energetic cost locomotion in kangaroos. *Nature* 246, 313–14.
- de Castella, R. (1986). Quoted in *The Runner* 8(4) (January 8), 8.
- de Castella, R., Jenkinson, M. (1984). *Deek—The Making of Australia's World Marathon Champion*. Collins, Australia.
- De Coverley Veale, D.M.W. (1987). Exercise dependence. *British Journal of Addiction* 82, 735–40.
- De Créé, C. (1998). Sex steroid metabolism and menstrual irregularities in the exercising female: A review. *Sports Medicine* 25, 369–406.
- De Glisenzinski, I., Harant, I., Crampes, F., Trudeau, F., Felez, A., Cottet-Énard, J.M., Garrigues, M., Riviere, D. (1998). Effect of carbohydrate ingestion on adipose tissue lipolysis during long-lasting exercise in trained men. *Journal of Applied Physiology* 84, 1627–32.
- Dehmer, G.J., Pompa, J.J., van den Berg, E.K., Eichhorn, E.J., Prewitt, J.B., Campbell, W.B., Jennings, L., Willerson, J.T., Schmitz, J.M. (1988). Reduction in the rate of early restenosis after coronary angioplasty by a diet supplemented with n-3 fatty acids. *New England Journal of Medicine* 319, 733–40.
- De Koning, J.J., Bakker, F.C., de Groot, G., van Ingen Schenau, G.J. (1994). Longitudinal development of young talented speed skaters: Physiological and anthropometric aspects. *Journal of Applied Physiology* 77, 2311–17.
- Delamarche, P., Bittel, J., Lacour, J.R., Flandrois, R. (1990). Thermoregulation at rest and during exercise in prepubertal boys. *European Journal of Applied Physiology* 60, 436–40.
- Dellinger, B., Freeman, B. (1984). *The Competitive Runner's Training Book*. Macmillan, New York.
- De Longeril, M., Renaud, S., Mamelle, N., Salen, P., Martin, J.L., Monjaud, I., Guidollet, J., Touboul, P., Delaye, J. (1994). Mediterranean alpha-linolenic acid-rich diet in secondary prevention of coronary heart disease. *Lancet* 343, 1454–59.
- DeMaio, M., Paine, R., Mangine, R.E., Drez, D. (1993). Plantar fasciitis. *Orthopedics* 16, 1153–63.
- Demant, T.W., Rhodes, E.C. (1999). Effects of creatine supplementation on exercise performance. *Sports Medicine* 28, 49–60.
- DeMar, C. (1937). *Marathon*. Daye Press, Brattleboro, VT. Republished (1981) by New England Press, Shelburne, VT.
- Dempsey, J., Hanson, P., Pegelow, D., Claremont, A., Rankin, J. (1982). Limitations to exercise capacity and endurance: Pulmonary system. *Canadian Journal of Applied Sport Science* 7, 4–13.
- Dempsey, J.A., Hanson, P.G., Henderson, K.S. (1984). Exercise-induced arterial hypoxaemia in healthy human subjects at sea level. *Journal of Physiology* 355, 161–75.
- Denio, L.S., Drake, M.E., Pakalnis, A. (1989). The effect of exercise on seizure frequency. *Journal of Medicine* 20, 171–76.
- Dennis, S.C., Noakes, T.D. (1999). Advantages of a smaller body mass in humans when distance-running in warm, humid conditions. *European Journal of Applied Physiology* 79, 280–84.
- Dennis, S.C., Noakes, T.D., Bosch, A.N. (1992). Ventilation and blood lactate increase exponentially during incremental exercise. *Journal of Sports Sciences* 10, 437–49.
- Dennison, B.A., Straus, J.H., Mellits, E.D., Charney, E. (1988). Childhood physical fitness tests: Predictor of adult physical activity levels? *Pediatrics* 82(3), 324–30.
- Derman, W., Schwelunus, M.P., Lambert, M.I., Emms, M., Sinclair-Smith, C., Kirby, P., Noakes, T.D. (1997). The “worn-out athlete”: A clinical approach to chronic fatigue in athletes. *Journal of Sports Sciences* 15, 341–51.
- Derr, M. (1995). The end of the road: Is a new malady afflicting elite athletes? *Scientific American* 10 (April), 1.
- Deschamps, A., Levy, R.D., Cosio, M.G., Marliss, E.B., Magder, S.J. (1989). Effect of saline infusion on body temperature and endurance during heavy exercise. *Journal of Applied Physiology* 66, 2799–804.
- De Souza, M.J., Arce, J.C., Pescatello, L.S., Scherzer, H.S., Luciano, A.A. (1994). Gonadal hormones and semen quality in male runners: A volume threshold effect of endurance training. *International Journal of Sports Medicine* 15, 383–91.
- De Souza, M.J., Maguire, M.S., Rubin, K.R., Maresh, C.M. (1990). Effects of menstrual phase and amenorrhea on exercise performance in runners. *Medicine and Science in Sports and Exercise* 22, 575–80.
- De Souza, M.J., Miller, B.E. (1997). The effect of endurance training on reproductive function in male runners. *Sports Medicine* 23, 357–74.
- Després, J.-P., Moorjani, S., Lupien, P.J., Tremblay, A., Nadeau, A., Bouchard, C. (1990). Regional distribution of body fat, plasma lipoproteins, and cardiovascular disease. *Arteriosclerosis* 10, 497–511.
- Després, J.-P., Moorjani, S., Tremblay, A., Poehlman, E.T., Lupien, P.J., Nadeau, A., Bouchard, C. (1988). Heredity and changes in plasma lipids and lipoproteins after short-term exercise training in men. *Arteriosclerosis* 8, 402–9.
- Detmer, D.E. (1986). Chronic shin splints: Classification and management of medial tibial stress syndrome. *Sports Medicine* 3, 436–46.
- Detmer, D.E., Sharpe, K., Sufit, R.L., Girdley, F.M. (1985). Chronic compartment syndrome: Diagnosis, management and outcomes. *American Journal of Sports Medicine* 13, 162–69.
- Deuster, P.A., Kyle, S.B., Moser, P.B., Vigersky, R.A., Singh, A., Schoomaker, E.B. (1986). Nutritional intakes and status of highly trained amenorrheic and eumenorrheic women runners. *Fertility and Sterility* 46, 636–43.
- Devas, M.B. (1958). Stress fractures of the tibia in athletes or “shin soreness.” *Journal of Bone and Joint Surgery* 40B, 227–39.
- Devereaux, M.D., Parr, G.R., Lachmann, S.M., Page Thomas, D.P., Hazleman, B.L. (1986). Thermographic diagnosis in athletes with patellofemoral arthralgia. *Journal of Bone and Joint Surgery* 68B, 42–44.
- Devlin, J.T., Calles-Escandon, J., Horton, E.S. (1986). Effects of preexercise snack feeding on endurance cycle exercise. *Journal of Applied Physiology* 60, 980–85.
- De Vos, A., Leklem, J., Campbell, D. (1982). Carbohydrate-loading, vitamin B6 supplementation and fuel metabolism during exercise in man. *Medicine and Science in Sports and Exercise* 14, 137.
- De Vries, H.A. (1981). Tranquillizer effect of exercise: A critical review. *Physician and Sportsmedicine* 9 (November), 47–55.

- Dewey, K.G., Lovelady, C.A., Nommsen-Rivers, L.A., McCrory, M.A., Lönnerdal, B. (1994). A randomized study of the effects of aerobic exercise by lactating women on breast-milk volume and composition. *New England Journal of Medicine* 330, 449–53.
- De Wijn, J.F., De Jongste, J.L., Mosterd, W., Willebrand, D. (1971). Haemoglobin packed cell volume, serum iron and iron binding capacity of selected athletes during training. *Journal of Sports Medicine and Physical Fitness* 11, 42–51.
- Deyo, R.A., Weinstein, J.N. (2001). Primary care: Low back pain. *New England Journal of Medicine* 344, 363–70.
- Diamond, S. (1982). Prolonged benign exertional headache: Its clinical characteristics and response to indomethacin. *Headache* 22, 96–98.
- Diamond, S. (1991). Exercise and headaches. *Physician and Sportsmedicine* 19 (September), 79–94.
- Dickson, D.N., Wilkinson, R.L., Noakes, T.D. (1982). Effects of ultra-marathon training and racing on haematological parameters and serum ferritin levels in well-trained athletes. *International Journal of Sports Medicine* 2, 111–17.
- Dickson, T.D., Kichline, P.D. (1987). Functional management of stress fractures in female athletes using a pneumatic leg brace. *American Journal of Sports Medicine* 15, 86–89.
- Dienstbier, R.A. (1984). The effect of exercise on personality. In M.L. Sachs, G.W. Buffore (Eds.), *Running As Therapy: An Integrated Approach*. University of Nebraska Press, Lincoln and London, 253–72.
- Dienstbier, R.A., Crabbe, J., Johnson, G.O., Thorland, W., Jorgensen, J.A., Sadar, M.M., Lavelle, D.C. (1981). Exercise and stress tolerance. In M.H. Sacks, M.L. Sachs (Eds.), *The Psychology of Running*. Human Kinetics, Champaign, IL, 192–210.
- Dill, D.B. (1936). The economy of muscular exercise. *Physiological Reviews* 16, 263–91.
- Dill, D.B. (1965). Marathoner DeMar: Physiological studies. *Journal of the National Cancer Institute* 35, 185–91.
- Dill, D.B. (1968). Physiological adjustments to altitude changes. *Journal of the American Medical Association* 205, 747–53.
- Dill, D.B., Bock, A.V., Edwards, H.T., Kennedy, P.H. (1936). Industrial fatigue. *Journal of Industrial Hygiene and Toxicology* 18, 417–31.
- Dill, D.B., Edwards, H.T., Bauer, P.S., Levenson, E.J. (1931). Physical performance in relation to external temperature. *Arbeitsphysiologie* 4, 508–18.
- Dill, D.B., Edwards, H.T., Talbot, J.H. (1932). Studies in muscular activity: VII. Factors limiting the capacity for work. *Journal of Physiology* 77, 49–62.
- Dill, D.B., Robinson, S., Ross, J.C. (1967). A longitudinal study of 16 champion runners. *Journal of Sports Medicine and Physical Fitness* 7, 4–27.
- Dill, D.B., Talbot, J.H., Edwards, H.T. (1930). Studies in muscular activity. VI: Response of several individuals to a fixed task. *Journal of Physiology* 69, 267–305.
- Dillon, M., Milroy, A. (1984). Those were the days. *Marathon and Distance Runner* 3 (March), 45–48.
- Dimeff, R.J. (1992). Headaches in the athlete. *Clinics in Sports Medicine* 11, 339–49.
- Dionne, F.T., Turcotte, L., Thibault, M.-C., Boulay, M.R., Skinner, J.S., Bouchard, C. (1991). Mitochondrial DNA sequence polymorphism,  $VO_2$ max, and response to endurance training. *Medicine and Science in Sports and Exercise* 23, 177–85.
- Docherty, D., Eckerson, J.D., Hayward, J.S. (1986). Physique and thermoregulation in prepubertal males during exercise in a warm, humid environment. *American Journal of Physical Anthropology* 70, 19–23.
- Doherty, J.K. (1964). *Modern Training for Running*. Prentice Hall, Englewood Cliffs, NJ.
- Doherty, M., Nobbs, L., Noakes, T.D. (2002). Low frequency of the “plateau phenomenon” during maximal exercise in elite British athletes. *European Journal of Applied Physiology* (in press).
- Dolecek, T.A. (1992). Epidemiological evidence of relationships between dietary polyunsaturated fatty acids and mortality in the Multiple Risk Factor Intervention Trial. *Proceedings of the Society for Experimental Biology and Medicine* 200, 177–82.
- Doll, R., Peto, R., Wheatley, K., Gray, R., Sutherland, I. (1994). Mortality in relation to smoking: 40 years’ observations on male British doctors. *British Medical Journal* 309, 901–11.
- Donaldson, S., Best, P., Kerrick, W. (1978). Characterisation of the effects of Mg/super/2+ on Ca/super/2+ - and Sr/super/2+ -activated tension generation of skinned rat cardiac fibres. *Journal of General Physiology* 71, 645–55.
- Donaldson, S.K. (1986). Mammalian muscle fiber types: Comparison of excitation-contraction coupling mechanisms. *Acta Physiologica Scandinavica* 128, 157–66.
- Donaldson, S.K.B. (1983). Effect of acidosis on maximum force generation of peeled mammalian skeletal muscle fibres. In H.G. Knuttgen, J.A. Vogel, J. Poortmans (Eds.), *Biochemistry of Exercise*. Human Kinetics, Champaign, IL, 126–33.
- Donaldson, S.K.B., Hermansen, L. (1978). Differential, direct effects of H/super/+ on Ca/super/++ - activated force of skinned fibres from the soleus, cardiac and adductor magnus muscles of rabbits. *Pflügers Archives* 376, 55–65.
- Donatelli, R., Hurlbert, C., Conaway, D. (1988). Biomechanical foot orthotics: A retrospective study. *Journal of Orthopedics and Sports Physical Therapy* 10, 205–12.
- Donnelly, A.E., Gleeson, M., Maughan, R.J., Walker, K.A., Whiting, P.H. (1987). Delayed-onset rise in serum lipid peroxide concentration following eccentric exercise in man. *Journal of Physiology* 392, 51P.
- Donnelly, A.E., Maughan, R.J., Whiting, P.H. (1990). Effects of ibuprofen on exercise-induced muscle soreness and indices of muscle damage. *British Journal of Sports Medicine* 24, 191–95.
- Donnelly, A.E., McCormick, K., Maughan, R.J., Whiting, P.H., Clarkson, P.M. (1988). Effects of a non-steroidal anti-inflammatory drug on delayed onset muscle soreness and indices of damage. *British Journal of Sports Medicine* 22, 35–38.
- Donovan, C.M., Brooks, G.A. (1983). Endurance training affects lactate clearance, not lactate production. *American Journal of Physiology* 244, E83–92.
- Donovan, C.M., Sumida, K.D. (1997). Training enhanced hepatic gluconeogenesis: The importance for glucose homeostasis during exercise. *Medicine and Science in Sports and Exercise* 29, 628–34.

- Dorchak, J.D., Barrack, R.L., Kneisl, J.S., Alexander, A.H. (1991). Arthroscopic treatment of symptomatic synovial plica of the knee: Long-term followup. *American Journal of Sports Medicine* 19, 503–7.
- Douglas, P.S., O'Toole, M.L., Hiller, D.B., Hackney, K., Reichel, N. (1987). Cardiac fatigue after prolonged exercise. *Circulation* 76, 1206–13.
- Douglas, P.S., O'Toole, M.L., Woolard, J. (1990). Regional wall motion abnormalities after prolonged exercise in the normal left ventricle. *Circulation* 82, 2108–14.
- Dowling, C. (2000). *The Frailty Myth: Women Approaching Physical Equality*. Random House, New York.
- Dowling, E.A., Redondo, D.R., Branch, J.D., Jones, S., McNabb, G., Williams, M.H. (1996). Effect of *leutherococcus senticosus* on submaximal and maximal exercise performance. *Medicine and Science in Sports and Exercise* 28, 482–89.
- Downer, A.R. (1900). *Running Recollections and How to Train*. Gale and Polden, London. Facsimile reproduction (1982) by Balgownie Books, Aberdeen.
- Draznin, M.B. (2000). Type I diabetes and sports participation: Strategies for training and competing safely. *Physician and Sportsmedicine* 28 (December), 49–56.
- Dressendorfer, R.H., Goodlin, R.C. (1980). Fetal heart rate response to maternal exercise testing. *Physician and Sportsmedicine* 8 (November), 90–96.
- Dressendorfer, R.H., Sockolov, R. (1980). Hypozincemia in runners. *Physician and Sportsmedicine* 8 (April), 97–100.
- Dressendorfer, R.H., Wade, C.E., Frederick, E.C. (1992). Effect of shoe cushioning on the development of reticulocytosis in distance runners. *American Journal of Sports Medicine* 20, 212–16.
- Dressendorfer, R.H., Wade, C.E., Scaff, J.H. (1985). Increased morning heart rate in runners: A valid sign of over-training? *Physician and Sportsmedicine* 13 (August), 77–86.
- Drinkwater, B.L., Bruemner, B., Chestnut, C.H. (1990). Menstrual history as a determinant of current bone density in young athletes. *Journal of the American Medical Association* 263, 545–48.
- Drinkwater, B.L., Nilson, K., Chestnut, C.H., Bremner, W.J., Shainholtz, S., Southworth, M.B. (1984). Bone mineral content of amenorrheic and eumenorrheic athletes. *New England Journal of Medicine* 311, 277–81.
- Drinkwater, B.L., Nilson, K., Ott, S., Chesnut, C.H. (1986). Bone mineral density after resumption of menses in amenorrheic athletes. *Journal of the American Medical Association* 256, 380–82.
- Drogheiti, P., Borsetto, C., Casoni, I., Cellini, M., Ferrari, M., Paolini, A.R., Ziglio, P.G., Conconi, F. (1985). Noninvasive determination of the anaerobic threshold in canoeing, cross-country skiing, cycling, roller, and iceskating, rowing, and walking. *European Journal of Applied Physiology* 53, 299–303.
- Drory, Y., Kramer, M.R., Lev, B. (1991). Exertional sudden death in soldiers. *Medicine and Science in Sports and Exercise* 23, 147–51.
- Droste, C., Greenlee, M.W., Schreck, M., Roskamm, H. (1991). Experimental pain thresholds and plasma beta-endorphin levels during exercise. *Medicine and Science in Sports and Exercise* 23, 334–42.
- Drummond, S.E., Crombie, N.E., Cursiter, M.C., Kirk, T.R. (1998). Evidence that eating frequency is inversely related to body weight status in male, but not female, non-obese adults reporting valid dietary intakes. *International Journal of Obesity* 22, 105–12.
- Druss, R.G., Silverman, J.A. (1979). Body image and perfectionism of ballerinas: Comparison and contrast with anorexia nervosa. *General Hospital Psychiatry* 10, 115–21.
- Drygas, W., Kostka, T., Jegier, A., Kuński, H. (2000). Long-term effects of different physical activity levels on coronary heart disease risk factors in middle-aged men. *International Journal of Sports Medicine* 21, 235–41.
- Dubouchaud, H., Butterfield, G.E., Wolfel, E.E., Bergman, B.C., Brooks, G.A. (2000). Endurance training: expression, and physiology of LDH, MCT1, and MCT4 in human skeletal muscle. *American Journal of Physiology* 278, E571–79.
- Dubowitz, V., Pearse, A.G.E. (1960). A comparative histochemical study of oxidative enzyme and phosphorylase activity in skeletal muscle. *Histochemie* 2, 105–17.
- DuCharme, K.A., Brawley, L.R. (1995). Predicting the intentions and behavior of exercise initiates using two forms of self-efficacy. *Journal of Behavioral Medicine* 18, 479–97.
- Duchman, S.M., Ryan, A.J., Schedl, H.P., Summers, R.W., Bleiler, T.L., Gisolfi, C.V. (1997). Upper limit for intestinal absorption of a dilute glucose solution in men at rest. *Medicine and Science in Sports and Exercise* 29, 482–88.
- Dudley, G.A., Abraham, W.M., Terjung, R.L. (1982). Influence of exercise intensity and duration on biochemical adaptation in skeletal muscle. *Journal of Applied Physiology* 53, 844–50.
- Dudley, G.A., Djamil, R. (1985). Incompatibility of endurance- and strength-training modes of exercise. *Journal of Applied Physiology* 59, 1446–51.
- Dudley, G.A., Tullson, P.C., Terjung, R.L. (1987). Influence of mitochondrial content on the sensitivity of respiratory control. *Journal of Biological Chemistry* 262, 9109–14.
- Dudley, R. (2000). Evolutionary origins of human alcoholism in primate frugivory. *Quarterly Review of Biology* 75, 3–15.
- Dufaux, B., Hoederath, A., Streitberger, I., Hollman, W., Assman, G. (1981). Serum ferritin, transferrin, haptoglobin and iron in middle and long-distance runners, elite rowers and professional racing cyclists. *International Journal of Sports Medicine* 2, 43–46.
- Duffey, M.J., Martin, D.E., Cannon, D.W., Craven, T., Messier, S.P. (2000). Etiologic factors associated with anterior knee pain in distance runners. *Medicine and Science in Sports and Exercise* 32, 1825–32.
- Duffy, E. (1976). The psychological significance of the concept of “arousal” or “activation.” In A.C. Fisher (Ed.), *Psychology in Sport*. Mayfield, Palo Alto, CA, 90–111.
- Dummer, G.M., Rosen, L.W., Heusner, W.W., Roberts, P.J., Counsilman, J.E. (1987). Pathogenic weight-control behaviours of young competitive swimmers. *Physician and Sportsmedicine* 15 (May), 75–84.
- Duncan, T.C. (1878). *How to Be Plump: Or Talks on Physiological Feeding*.
- Dyck, D.J., Putman, C.T., Heigenhauser, G.J.F., Hultman, E., Spriet, L.L. (1993). Regulation of fat-carbohydrate interaction in skeletal muscle during intense aerobic cycling. *American Journal of Physiology* 265, E852–59.



- Early, R., Carlson, B. (1969). Water soluble vitamin therapy on the delay of fatigue from physical activity in hot climate conditions. *Internationale Zeitschrift fur Angewandte Psychologie* 27, 43–50.
- Eastmond, C.J., Hudson, A., Wright, V. (1980). Osteoarthritis of the hip and knee in female specialist physical education teachers. *Scandinavian Journal of Rheumatology* 8, 264–68.
- Eaton, C.B., McPhillips, J.B., Gans, K.M., Garber, C.E., Assaf, A.R., Lasater, T.M., Carleton, R.A. (1995). Cross-sectional relationship between diet and physical activity in two southeastern New England communities. *American Journal of Preventive Medicine* 11, 238–44.
- Eaton, C.B., Medalie, J.H., Flocke, S.A., Zyanski, S.J., Yaari, S., Goldbourt, U. (1995). Self-reported physical activity predicts long-term coronary heart disease and all-cause mortalities. *Archives of Family Medicine* 4, 323–29.
- Edelen, L.G. (1964). Marathon running. In F. Wilt (Ed.), *Run Run Run*. Track and Field News, Los Altos, CA.
- Editorial. (1938). After dinner rest awhile? *Lancet* 1, 1258.
- Editorial. (1970). Reaching the top. *British Medical Journal* 4(728) (October 17), 128.
- Editorial. (1982a). Haematuria and exercise-related haematuria. *British Medical Journal* 285, 1595–97.
- Editorial. (1982b). The lead controversy. *South African Medical Journal* 22, 793–94.
- Editorial. (1984). One hundred years ago: Lady football. *British Medical Journal* ii, 1323.
- Editorial. (1987). Aching muscles after exercise. *Lancet* 2, 1123–24.
- Editorial. (1988). Exercise and energy balance. *Lancet* 1, 392–94.
- Editorial. (1989). Energy expenditure and the control of body weight. *Nutrition Reviews* 47, 249–52.
- Edwards, J.E., Lindeman, A.K., Mikesky, A.E., Stager, J.M. (1993). Energy balance in highly trained female endurance runners. *Medicine and Science in Sports and Exercise* 25, 1398–404.
- Edwards, P., Beresford, P., Nadon, C., Steeves, C. (1983). Fitness and pregnancy: A round table discussion. *Canadian Journal of Public Health* 74, 86–90.
- Edwards, R.H.T. (1981). Human muscle function and fatigue. In Ciba Foundation symposium 82, *1981 Human Muscle Fatigue: Physiological Mechanisms*. London: Pitman Medical.
- Edwards, S. (1997). *Smart Heart: High Performance Heart Zone Training*. Heart Zones, Sacramento, CA.
- Egger, J., Wilson, J., Carter, C.M., Turner, M.W., Soothill, J.F. (1983). Is migraine food allergy? A double-blind controlled trial of oligo-antigenic diet treatment. *Lancet* 2, 865–68.
- Eggleton, M.G. (1936). *Muscular Exercise*. London: Kegan Paul.
- Ehn, L., Carlmark, B., Høglund, S. (1980). Iron status in athletes involved in intense physical activity. *Medicine and Science in Sports and Exercise* 12, 61–64.
- Ehrenreich, B., English, D. (1979). *For Her Own Good: 150 Years of the Experts Advice to Women*. Anchor/Doubleday, New York.
- Eichna, L.W., Bean, W.B., Ashe, W.F., Nelson, N. (1945). Performance in relation to environmental temperature: Reactions of normal young men to hot, humid (simulated jungle) environment. *Bulletin of the Johns Hopkins Hospital* 76, 25–58.
- Eichna, L.W., Hovath, S.M., Bean, W.B. (1947). Postexertional orthostatic hypotension. *American Journal of Medical Sciences* 213, 641–54.
- Eichner, E.R. (1989). Gastrointestinal bleeding in athletes. *Physician and Sportsmedicine* 17 (May), 128–40.
- Eichner, E.R. (1999). Heat cramps: Salt is simplest, most effective antidote. *Sports Medicine Digest* 21(8), 88.
- Eide, R. (1982). The relationship between body image, self-image and physical activity. *Scandinavian Journal of Social Medicine* 29 (Suppl), 109–12.
- Eklblom, B. (1969). Effect of physical training in adolescent boys. *Journal of Applied Physiology* 27, 350–55.
- Eklblom, B. (1996). Blood doping and erythropoietin: The effects of variation in hemoglobin concentration and other related factors on physical performance. *American Journal of Sports Medicine* 24, S40–42.
- Eklblom, B. (2000). Editorial. *Scandinavian Journal of Medicine and Science in Sports* 10, 119–22.
- Eklblom, B., Berglund, B. (1991). Effect of erythropoietin administration on maximal aerobic power in man. *Scandinavian Journal of Medicine and Science in Sports* 11, 88–93.
- Eklblom, B., Goldbarg, A.N., Gullbring, B. (1972). Response to exercise after blood loss and reinfusion. *Journal of Applied Physiology* 33, 175–80.
- Eklblom, B., Huot, R., Stein, E.M., Thorstensson, A.T. (1975). Effect of changes in arterial oxygen content on circulation and physical performance. *Journal of Applied Physiology* 39, 71–75.
- Eklblom, B., Wilson, G., Åstrand, P.-O. (1976). Central circulation during exercise after venesection and reinfusion of red blood cells. *Journal of Applied Physiology* 40, 379–83.
- Ekelund, L.-G., Haskell, W.L., Johnson, J.L., Whaley, F.S., Criqui, M.H., Sheps, D.S. (1988). Physical fitness as a predictor of cardiovascular mortality in asymptomatic North American men. *New England Journal of Medicine* 319, 1379–84.
- Ekman, E.F., Pope, T., Martin, D.F., Curl, W.W. (1994). Magnetic resonance imaging of iliotibial band syndrome. *American Journal of Sports Medicine* 22, 851–54.
- Eliasson, M., Asplund, K., Evrin, P.E. (1996). Regular leisure time physical activity predicts high activity of tissue plasminogen activator: The Northern Sweden MONICA Study. *International Journal of Epidemiology* 25, 1312–13.
- Elliott, H.J. (1961). *The Golden Mile*. Cassell, London.
- Elliott, H.J. (1964). The road to Rome. In H.A. Mayer (Ed.), *Modern Athletics by the Achilles Club*. Oxford University Press, London.
- Elliott, J.F., Berry, T.J. (1982). *Jumbo Elliott: Maker of Milers, Maker of Mean*. St. Martin's Press, New York.
- Ellis, D., Verdile, V., Heller, M. (1990). The effectiveness of the addition of intravenous rehydration to oral rehydration in post-marathon patients. *Medicine and Science in Sports and Exercise* 22 (Suppl), S101.
- El-Sayed, M.S., Balmer, J., Rattu, A.J.M. (1997). Carbohydrate ingestion improves endurance performance during a 1 h simulated cycling time trial. *Journal of Sports Sciences* 15, 223–30.
- Emerson, R.W. (1901). *Essays, First and Second Series, The World Classics*. Oxford University Press, London.

- England, A.C., Fraser, D.W., Hightower, A.W., Tirinanzi, R., Greenberg, D.J., Powell, K.E., Slovis, C.M., Varsha, R.A. (1982). Preventing severe heat injury in runners: Suggestions from the 1979 Peachtree Road Race experience. *Annals of Internal Medicine* 97, 196–201.
- Entine, J. (2000). *Taboo: Why Black Athletes Dominate Sports and Why We Are Afraid to Talk About It*. Public Affairs, New York.
- Epstein, Y., Sohar, E. (1985). Fluid balance in hot climates: Sweating, water intake, and prevention of dehydration. *Public Health Reviews* 13, 115–37.
- Erdelyi, L.G.J. (1962). Gynecological survey of female athletes. *Journal of Sports Medicine and Physical Fitness* 2, 174–79.
- Erickson, M.A., Schwarzkopf, R.J., McKenzie, R.D. (1987). Effects of caffeine, fructose, and glucose ingestion on muscle glycogen utilization during exercise. *Medicine and Science in Sports and Exercise* 19, 579–83.
- Eriksson, B., Gollnick, P.D., Saltin, B. (1973). Muscle metabolism and enzyme activities after training in boys 11–13 years old. *Acta Physiologica Scandinavica* 87, 485–97.
- Eriksson, B.O. (1972). Physical training, oxygen supply and muscle metabolism in 11–13 year old boys. *Acta Physiologica Scandinavica (Suppl 384)*, 1–48.
- Erkkola, R. (1976). The influence of physical training during pregnancy on physical work capacity and circulatory parameters. *Scandinavian Journal of Clinical and Laboratory Investigation* 36, 747–54.
- Ernst, E. (1993). Regular exercise reduces fibrinogen levels: A review of longitudinal studies. *British Journal of Sports Medicine* 27, 175–76.
- Ernst, E.E., Matrai, A. (1987). Intermittent claudication, exercise, and blood rheology. *Circulation* 76, 1110–14.
- Essen, B. (1978). Glycogen depletion of different fibre types in human skeletal muscle during intermittent and continuous exercise. *Acta Physiologica Scandinavica* 103, 446–55.
- Essig, D., Costill, D.L., Van Handel, P.J. (1980). Effects of caffeine ingestion on utilization of muscle glycogen and lipid during leg ergometer cycling. *International Journal of Sports Medicine* 1, 86–90.
- Etnyre, B.R., Abraham, L.D. (1986). Gains in range of ankle dorsiflexion using three popular stretching techniques. *American Journal of Physical Medicine* 65, 189–96.
- Ettinger, W.H., Burns, R., Messier, S.P., Appelgate, W., Rejeski, W.J., Morgan, T., Shumaker, S., Berry, M.J., O'Toole, M., Monu, J., Craven, T. (1997). A randomized trial comparing aerobic exercise and resistance exercise with a health education program in older adults with knee osteoarthritis: The Fitness Arthritis and Seniors Trial (FAST). *Journal of the American Medical Association* 277, 25–31.
- Evans, W.J., Fisher, E.C., Hoerr, R.A., Young, V.R. (1983). Protein metabolism and endurance exercise. *Physician and Sportsmedicine* 11 (July), 63–72.
- Eyestone, E.D., Fellingham, G., George, J., Fisher, A.G. (1993). Effect of water running and cycling on maximum oxygen consumption and 2-mile run performance. *American Journal of Sports Medicine* 21, 41–44.
- Fabiato, A., Fabiato, F. (1978). Effect of pH on the myofilaments and sarcoplasmic reticulum of skinned cells from cardiac and skeletal muscle. *Journal of Physiology* 276, 233–55.
- Fabre, T., Montero, C., Gaujard, E., Gervais-Dellion, F., Durandeau, A. (2000). Chronic calf pain in athletes due to sural nerve entrapment. *American Journal of Sports Medicine* 28, 679–82.
- Fagard, R., Bielen, E., Amery, A. (1991). Heritability of aerobic power and anaerobic energy generation during exercise. *Journal of Applied Physiology* 70, 357–62.
- Fagard, R., van den Broeke, C., Amery, A. (1989). Left ventricular dynamics during exercise in elite marathon runners. *Journal of the American College of Cardiology* 14, 112–18.
- Faich, G., Rose, R. (1979). Blizzard morbidity and mortality: Rhode Island 1978. *American Journal of Public Health* 69, 1050–52.
- Fairburn, C.G., Kirk, J., O'Connor, M., Cooper, P.J. (1986). A comparison of two psychological treatments for bulimia nervosa. *Behaviour Research and Therapy* 24, 629–43.
- Fallon, K.E. (1996). Injuries in the ultramarathon: The 1990 Sydney to Melbourne ultramarathon. *British Journal of Sports Medicine* 30, 319–23.
- Fallon, K.E., Broad, E., Thompson, M.W., Reull, P.A. (1998). Nutritional and fluid intake in a 100-km ultramarathon. *International Journal of Sport Nutrition* 8, 24–35.
- Fallowfield, J.L., Williams, C. (1993). Carbohydrate intake and recovery from prolonged exercise. *International Journal of Sport Nutrition* 3, 150–64.
- Fallowfield, J.L., Williams, C., Booth, J., Choo, B.H., Growns, S. (1996). Effect of water ingestion on endurance capacity during prolonged running. *Journal of Sports Sciences* 14, 497–502.
- Fallowfield, J.L., Williams, C., Singh, R. (1995). The influence of ingesting a carbohydrate-electrolyte beverage during 4 hours of recovery on subsequent endurance capacity. *International Journal of Sport Nutrition* 5, 285–99.
- Farley, C.T., Blickhan, R., Saito, J., Taylor, C.R. (1991). Hopping frequency in humans: A test of how springs set stride frequency in bouncing gaits. *Journal of Applied Physiology* 71(6), 2127–32.
- Farley, C.T., Houdijk, H.H.P., Van Strien, C., Louie, M. (1998). Mechanism of leg stiffness adjustment for hopping on surfaces of different stiffnesses. *Journal of Applied Physiology* 85, 1044–55.
- Farmer, M.E., Locke, B.Z., Möscicki, E.K., Dannenberg, A.L., Larson, D.B., Radloff, L.S. (1988). Physical activity and depressive symptoms: The NHANES I Epidemiologic Follow-Up Study. *American Journal of Epidemiology* 128, 1340–51.
- Farrell, J.T., Langan, P.C., Gordon, B. (1929). A roentgen ray study of a group of long-distance runners. *American Journal of the Medical Sciences* 177, 394–98.
- Farrell, P.A., Wilmore, J.H., Coyle, E.F., Billing, J.E., Costill, D.L. (1979). Plasma lactate accumulation and distance running performance. *Medicine and Science in Sports* 11, 338–44.
- Fassett, R.G., Owen, J.E., Fairley, J., Birch, D.F., Fairley, K.F. (1982). Urinary red cell morphology during exercise. *British Medical Journal* 285, 1455–57.
- Faulkner, R.A., Slattery, C.M. (1990). The relationship of physical activity to alcohol consumption in youth 15–16 years of age. *Canadian Journal of Public Health* 81, 168–69.

- Favier, R., Spielvogel, H., Desplanches, D., Ferretti, G., Kayser, B., Grünenfelder, A., Leuenberger, M., Tüscher, L., Caceres, E., Hoppeler, H. (1995a). Training in hypoxia vs. training in normoxia in high-altitude natives. *Journal of Applied Physiology* 78, 2286–93.
- Favier, R., Spielvogel, H., Desplanches, D., Ferretti, G., Kayser, B., Hoppeler, H. (1995b). Maximal exercise performance in chronic hypoxia and acute normoxia in high-altitude natives. *Journal of Applied Physiology* 78, 1868–74.
- Febbraio, M.A., Dancy, J. (1999). Skeletal muscle energy metabolism during prolonged, fatiguing exercise. *Journal of Applied Physiology* 87, 2341–47.
- Febbraio, M.A., Snow, R.J., Hargreaves, M., Stathis, C.G., Martin, I.K., Carey, M.F. (1994). Muscle metabolism during exercise and heat stress in trained men: Effect of acclimation. *Journal of Applied Physiology* 76, 589–97.
- Feicht, C.B., Johnson, T.S., Martin, B.J., Sparkes, K.E., Wagner, W.W. (1978). Secondary amenorrhoea in athletes. *Lancet* 2, 1145–46.
- Feldman, M., Nixon, J.V. (1982). Effect of exercise on postprandial gastric secretion and emptying in humans. *Journal of Applied Physiology* 53, 851–54.
- Felig, P., Cherif, A., Minagawa, A., Wahren, J. (1982). Hypoglycaemia during prolonged exercise in normal men. *New England Journal of Medicine* 306, 895–900.
- Felig, P., Wahren, J. (1975). Fuel homeostasis in exercise. *New England Journal of Medicine* 293, 1076–84.
- Felson, D.T., Anderson, J.J., Naimark, A., Walker, A.M., Meenan, R.F. (1988). Obesity and knee osteoarthritis: The Framingham Study. *Annals of Internal Medicine* 109, 18–24.
- Felson, D.T., Zhang, Y., Anthony, J.M., Naimark, A., Anderson, J.J. (1992). Weight loss reduces the risk for symptomatic knee osteoarthritis in women. *Annals of Internal Medicine* 116, 535–39.
- Fenn, C.E. (1985). Factors limiting endurance exercise in hot and cold environments. *Proceedings of the Nutritional Society* 44, 72A.
- Fernandez, E., Chateaud, L., La Vecchia, C., Negri, E., Franceschi, S. (1999). Fish consumption and cancer risk. *American Journal of Clinical Nutrition* 70, 85–90.
- Ferretti, G., Atchou, G., Grassi, B., Marconi, C., Cerretelli, P. (1991). Energetics of locomotion in African pygmies. *European Journal of Applied Physiology* 62, 7–10.
- Ferris, D.P., Farley, C.T. (1997). Interaction of leg stiffness and surface stiffness during human hopping. *Journal of Applied Physiology* 82, 15–22.
- Ferris Jr., E.B., Blankenhorn, M.A., Robinson, H.W., Cullen, G.E. (1938). Heat stroke: Clinical and chemical observations on 44 cases. *Journal of Clinical Investigations* 17, 249–62.
- Ferrucci, L., Izmirlian, G., Leveille, S., Phillips, C.L., Corti, M.-C., Brock, D.B., Guralnick, J.M. (1999). Smoking, physical activity, and active life expectancy. *American Journal of Epidemiology* 149, 645–53.
- Fiatarone, M.A., Marks, E.C., Ryan, N.D., Meredith, C.N., Lipsitz, L.A., Evans, W.J. (1990). High-intensity strength training in nonagenarians. *Journal of the American Medical Association* 263, 3029–34.
- Fields, K.B. (2000). The 12-lead ECG is the most cost-effective preparticipation cardiovascular screen. *Medicine and Science in Sports and Exercise* 32, 1809–11.
- Findlay, I.N., Taylor, R.S., Dargie, H.J., Grant, S., Pettigrew, A.R., Wilson, J.T., Aitchison, T., Cleland, J.G.F., Elliott, A.T., Fisher, B.M., Gillen, G., Manzie, A., Rumley, A.R., Durnin, J.V.G.A. (1987). Cardiovascular effects of training for a marathon run in unfit middle aged men. *British Medical Journal* 295, 521–25.
- Fink, W.J., Costill, D.L., Pollock, M.L. (1977). Submaximal and maximal working capacity of elite distance runners. Part II. Muscle fibre composition and enzyme activities. *Annals of the New York Academy of Sciences* 301, 323–27.
- Fink, W.J., Costill, D.L., Van Handel, P.J. (1975). Leg muscle metabolism during exercise in the heat and cold. *European Journal of Applied Physiology* 34, 183–90.
- Firer, P. (1989). Etiology and results of treatment of iliotibial band friction syndrome (ITBFS). *American Journal of Sports Medicine* 17, 704.
- Firer, P. (1992). Results of surgical management for the iliotibial band friction syndrome. *Clinical Journal of Sport Medicine* 2, 247–50.
- Fisher, E.C., Nelson, M.E., Frontera, W.R., Turksoy, E.N., Evans, W.J. (1986). Bone mineral content and levels of gonado-tropins and estrogens in amenorrheic running women. *Journal of Clinical Endocrinology and Metabolism* 62, 1232–36.
- Fisher, R.L., McMahon, L.F., Ryan, M.J., Larson, D., Brand, M. (1986). Gastro-intestinal bleeding in competitive runners. *Digestive Diseases and Sciences* 31, 1226–28.
- Fishman, J. (1980). Fatness, puberty and ovulation. *New England Journal of Medicine* 303, 42–43.
- Fitts, R.H. (1994). Cellular mechanisms of muscle fatigue. *Physiological Reviews* 74, 49–94.
- Fitts, R.H., Costill, D.L., Gardetto, P.R. (1989). Effect of swim exercise training on human muscle fiber function. *Journal of Applied Physiology* 66, 465–75.
- Fitts, R.H., Widrick, J.J. (1996). Muscle mechanics: Adaptations with exercise-training. *Exercise and Sports Science Reviews* 24, 427–73.
- Fixx, J.F. (1977). *The Complete Book of Running*. Random House, New York.
- Fixx, J.F. (1980). *James Fixx's Second Book of Running*. Random House, New York.
- Fleg, J.L., Lakatta, E.G. (1988). Role of muscle loss in the age-associated reduction in  $\dot{V}O_{2\max}$ . *Journal of Applied Physiology* 65, 1147–51.
- Fleming, G.A. (2000). The FDA, regulation, and the risk of stroke. *New England Journal of Medicine* 343, 1886–87.
- Fletcher, D.J. (1977). Athletic pseudonephritis. *Lancet* 1, 910–11.
- Fletcher, G.F., Blair, S.N., Blumenthal, J., Caspersen, C., Chaitman, B., Epstein, S., Falls, H., Froelicher, E.S.S., Froelicher, V.F., Pina, H.L. (1992). Position statement: Benefits and recommendations for physical activity program for all Americans. *Circulation* 86, 340–44.
- Fletcher, W.M., Hopkins, F.G. (1907). Lactic acid in amphibian muscle. *Journal of Physiology* 35, 247–309.
- Flinn, S.D., Sherer, R.J. (2000). Seizure after exercise in the heat: Recognizing life-threatening hyponatremia. *Physician and Sportsmedicine* 28 (September), 61–67.
- Flynn, M.G. (1998). Future research needs and directions. In R.B. Kreider, A.C. Fry, M.L. O'Toole (Eds.), *Overtraining in Sport*. Human Kinetics, Champaign, IL, 373–83.

- Fogelholm, G.M., Himberg, J.J., Alopaeus, K., Gref, C.G., Laakso, J.T., Lehto, J.J., Mussalo-Rauhamaa, H. (1992). Dietary and biochemical indices of nutritional status in male athletes and controls. *Journal of the American College of Nutrition* 11, 181–91.
- Fogelholm, G.M., Tikkanen, H.O., Näveri, H.K., Näveri, L.S., Härkönen, M.H.A. (1991). Carbohydrate loading in practice: High muscle glycogen concentration is not certain. *British Journal of Sports Medicine* 25, 41–44.
- Fogelholm, M., Jaakkola, L., Lampisjärvi, T. (1992). Effects of iron supplementation in female athletes with low serum ferritin concentration. *International Journal of Sports Medicine* 13, 158–62.
- Fogelholm, M., Kaprio, J., Sarna, S. (1994). Healthy lifestyles of former Finnish world class athletes. *Medicine and Science in Sports and Exercise* 26, 224–29.
- Fogelholm, M., Tikkanen, H., Naveri, H., Harkonen, M. (1989). High-carbohydrate diet for long distance runners: A practical viewpoint. *British Journal of Sports Medicine* 23, 94–96.
- Föger, B., Patsch, J.R. (1995). Exercise and postprandial lipaemia. *Journal of Cardiovascular Risk* 2, 316–22.
- Fohrenbach, R., Mader, A., Hollamn, W. (1987). Determination of endurance capacity and prediction of exercise intensities for training and competition in marathon runners. *Internal Journal of Sports Medicine* 8, 11–18.
- Folinsbee, L.J., Bedi, J.F., Horvath, S.M. (1984). Pulmonary function changes after 1 h continuous heavy exercise in 0.21 ppm ozone. *Journal of Applied Physiology* 57, 984–88.
- Folinsbee, L.J., Raven, P.B. (1984). Exercise and air pollution. *Journal of Sports Sciences* 2, 57–75.
- Folsom, A.R., Kaye, S.A., Sellers, T.A., Hong, C.-P., Cerhan, J.R., Potter, J.D., Prineas, R.J. (1993). Body fat distribution and 5-year risk of death in older women. *Journal of the American Medical Association* 269, 483–87.
- Fomin, S., Pivovarova, V., Vorovova, V. (1989). Changes in the special working capacity and mental stability of well-trained woman skiers at various phases of the biological cycle. *Sports Training and Medical Rehabilitation* 1, 89–92.
- Fon, L.J., Spence, R.A.J. (2000). Sportsman's hernia. *British Journal of Surgery* 87, 545–52.
- Fordyce, B. (1981). Bruce Fordyce's Comrades training. In *The Distance Runners Log*. Collegian Harriers, Pietermaritzburg.
- Fordyce, B. (1983). Bruce Fordyce: Hotfoot. *Fairlady* (June 1), 99–104.
- Fordyce, B. (1985). *Comrades*. Flower Press, Johannesburg.
- Fordyce, B. (1989). In A. Milroy, *International Ultra Running*. Road Runners Club, London, 31–33.
- Fordyce, B. (1996). *Run the Comrades*. Delta Books, Johannesburg.
- Fordyce, B. (1999). For "Boston Billy," this time oldest marathon became a long and winding road. *The Sunday Independent* (April 25), 23.
- Forgac, M.T. (1979). Carbohydrate-loading: A review. *Journal of the American Dietetic Association* 73, 42–45.
- Foster, C. (1983).  $\dot{V}O_2$ max and training indices as determinants of competitive running performance. *Journal of Sports Sciences* 1, 13–22.
- Foster, C. (1998). Monitoring training in athletes with reference to overtraining syndrome. *Medicine and Science in Sports and Exercise* 30, 1164–68.
- Foster, C., Costill, D.L., Daniels, J.T., Fink, W.J. (1978). Skeletal muscle enzyme activity, fiber composition and  $\dot{V}O_2$ max in relation to distance running performance. *European Journal of Applied Physiology* 39, 73–80.
- Foster, C., Daines, E., Hector, L., Snyder, A.C., Welsh, R. (1996). Athletic performance in relation to training load. *Wisconsin Medical Journal* 95, 370–74.
- Foster, C., Daniels, J. (1975). Running by the numbers. *Runners' World* 10, 14–17.
- Foster, C., Daniels, J.T., Seiler, S. (1999). Perspective on correct approaches to training. In M. Lehmann, C. Foster, U. Gastmann, H. Keizer, J.M. Steinacker, J.M. (Eds.), *Overload, Performance, Incompetence and Regeneration in Sport*. Kluwer Academic/Plenum, New York, 27–41.
- Foster, C., Hector, L., Welsh, R., Schragger, M., Green, M., Snyder, A.C. (1995). Effects of specific versus cross training on running performance. *European Journal of Applied Physiology* 70, 367–72.
- Foster, C., Lehmann, M. (1997). Overtraining syndrome. In G.N. Guten (Ed.), *Running Injuries*. Saunders, Philadelphia, 173–88.
- Foster, C., Schragger, M., Snyder, A.C., Thompson, N.N. (1994). Pacing strategy and athletic performance. *Sports Medicine* 17, 77–85.
- Foster, D.W. (1984). Banting Lecture 1984: From glycogen to ketones—and back. *Diabetes* 33, 1188–99.
- Fournier, M., Ricci, J., Taylor, A.W., Ferguson, R.J., Montpetit, R.R., Chaitman, B.R. (1982). Skeletal muscle adaptation in adolescent boys: Sprint and endurance training and detraining. *Medicine and Science in Sports and Exercise* 14, 453–56.
- Foxcroft, W.J., Adams, W.C. (1986). Effects of ozone exposure on four consecutive days on work performance and  $\dot{V}O_2$ max. *Journal of Applied Physiology* 61, 960–66.
- Franch, J., Madsen, K., Djurhuus, M.S., Pedersen, P.K. (1998). Improved running economy following intensified training correlates with reduced ventilatory demands. *Medicine and Science in Sports and Exercise* 30, 1250–56.
- Francis, K.T. (1983). The role of endorphins in exercise: A review of current knowledge. *Journal of Orthopaedic and Sports Physical Therapy* 4, 169–73.
- Francis, K.T., McClatchey, P.R., Sumsion, J.R., Hansen, D.E. (1989). The relationship between anaerobic threshold and heart rate linearity during cycle ergometry. *European Journal of Applied Physiology* 59, 273–77.
- Franke, W.W., Berendonk, B. (1997). Hormonal doping and androgenization of athletes: a secret program of the German Democratic Republic government. *Clinical Chemistry* 43, 1262–79.
- Franklin, B.A., Forgac, M.T., Hellerstein H.K. (1978). Accuracy of predicting marathon time: Relationship of training mileage to performance. *Research Quarterly* 49, 450–59.
- Franklin, P.J., Green, D.J., Cable, N.T. (1993). The influence of thermoregulatory mechanisms on post-exercise hypotension in humans. *Journal of Physiology (London)* 470, 231–41.
- Fraser, G.E., Dysinger, W., Best, C., Chan, R. (1987). Ischemic heart disease risk factors in middle-aged seventh-day Adventist men and their neighbors. *American Journal of Epidemiology* 126, 638–46.

- Frederick, E.C. (1983a). Hot times. *Running* 9, 51–53.
- Frederick, E.C. (1983b). Overtraining of athletes: Round table discussion. *Physician and Sportsmedicine* 11 (June), 98.
- Frederick, E.C. (1986). Kinematically mediated effects of sport shoe design: A review. *Journal of Sports Sciences* 4, 169–84.
- Frederick, E.C., Clarke, T.E., Larsen, J.L., Cooper, L.B. (1983). The effect of shoe cushioning on the oxygen demands of running. In B. Biggs, B. Kerr (Eds.). *Biomechanical Aspects of Sports Shoes and Playing Surfaces*. University of Calgary Printing Press, Calgary, 107–14.
- Frederick, E.C., Daniels, J., Hayes, J. (1984). The effect of shoe weight on the aerobic demands of running. In N. Bachl, L. Prokop, R. Suckert (Eds.), *Proceedings of the World Congress of Sports Medicine, Vienna, 1982*. Urban and Schwarzenberg, Vienna, 616–25.
- Frederick, V., Luedtke, G.S., Barrett, F.F., Hixson, S.D., Burch, K. (1990). Munchausen syndrome by proxy: Recurrent central catheter sepsis. *Pediatric Infectious Diseases* 9, 440–42.
- Fredericson, M., Cookingham, C.L., Chaudhari, A.M., Dowdell, B.C., Oestreich, N., Sahrmann, S.A. (2000). Hip abductor weakness in distance runners with iliotibial band syndrome. *Clinical Journal of Sport Medicine* 10, 169–75.
- Fredericson, M., Guillet, M., DeBenedictis, L. (2000). Quick solutions for iliotibial band syndrome. *Physician and Sportsmedicine* 28(2), 53–68.
- Fredriksson, M., Bengtsson, N.O., Hardell, L., Axelson, O. (1989). Colon cancer, physical activity, and occupational exposures: A case-control study. *Cancer* 63, 1838–42.
- Freeland-Graves, J.H., Wbangit, M.L., Hendrikson, P.J. (1980). Alterations in zinc absorption and salivary sediment zinc after a lacto-ovo-vegetarian diet. *American Journal of Clinical Nutrition* 33, 1757–66.
- Freeman, C.P.L., Barry, F., Dunkeld-Turnbull, J., Henderson, A. (1988). Controlled trial of psychotherapy for bulimia nervosa. *British Medical Journal* 296, 521–25.
- Frey-Hewitt, B., Vranizan, K.M., Dregon, D.M., Wood, P.D. (1990). The effect of weight loss by dieting or exercise on resting metabolic rate in overweight men. *International Journal of Obesity* 14, 327–34.
- Friberg, O. (1982). Leg length asymmetry in stress fractures: A clinical and radiological study. *Journal of Sports Medicine and Physical Fitness* 22, 485–88.
- Friden, J. (1984). Muscle soreness after exercise: Implications of morphological changes. *International Journal of Sports Medicine* 5, 57–66.
- Friden, J., Kjorell, V., Thornell, L.E. (1984). Delayed muscle soreness and cytoskeletal alterations: An immunocytological study in man. *International Journal of Sports Medicine* 5, 15–18.
- Friden, J., Seger, J., Ekblom, B. (1988). Sublethal muscle fibre injuries after high-tension anaerobic exercise. *European Journal of Applied Physiology* 57, 360–68.
- Friden, J., Seger, J., Sjostrom, M., Ekblom, B. (1983). Adaptive response in human skeletal muscle subjected to prolonged eccentric training. *International Journal of Sports Medicine* 4, 177–83.
- Friden, J., Sfakianos, P.N., Hargens, A.R. (1986). Muscle soreness and intramuscular fluid pressure: Comparison between eccentric and concentric load. *Journal of Applied Physiology* 61, 2175–79.
- Friden, J., Sfakianos, P.N., Hargens, A.R., Akeson, W.H. (1988). Residual muscular swelling after repetitive eccentric contractions. *Journal of Orthopaedic Research* 6, 493–98.
- Friden, J., Sjostrom, M., Ekblom, B. (1983). Myofibrillar damage following intense eccentric exercise in man. *International Journal of Sports Medicine* 4, 170–76.
- Friedenreich, C.M., Rohan, T.E. (1995). Physical activity and risk of breast cancer. *European Journal of Cancer Prevention* 4, 145–51.
- Friedlander, A.L., Casazza, G.A., Horning, M.A., Buddinger, T.F., Brooks, G.A. (1998a). Effects of exercise intensity and training on lipid metabolism in young women. *American Journal of Physiology* 275, E853–63.
- Friedlander, A.L., Casazza, G.A., Horning, M.A., Huie, M.J., Brooks, G.A. (1997). Training-induced alterations of glucose flux in men. *Journal of Applied Physiology* 82, 1360–69.
- Friedlander, A.L., Casazza, G.A., Horning, M.A., Huie, M.J., Piacentini, M.F., Trimmer, J.K., Brooks, G.A. (1998b). Training-induced alterations of carbohydrate metabolism in women: Women respond differently from men. *Journal of Applied Physiology* 85, 1175–86.
- Friedman, E., Katcher, A.H., Lynch, J.J., Thomas, S.A. (1982). Animal companions and one-year survival of patients after discharge from a coronary care unit. *California Veterinarian* 8, 45–50.
- Friedman, M., Manwaring, J.H., Rosenman, R.H., Donlon, G., Ortega, P., Grube, S.M. (1973). Instantaneous and sudden death: Clinical and pathological differentiation in coronary artery disease. *Journal of the American Medical Association* 225, 1319–28.
- Friedman, M., Roseman, R.H. (1959). Association of specific overt behaviour pattern with blood and cardiovascular findings. *Journal of the American Medical Association* 169, 1286–96.
- Friedmann, B., Jost, J., Rating, T., Weller, E., Werle, E., Eckardt, K.U., Bartsch, P., Mairbaur, H. (1999). Effects of iron supplementation on total body hemoglobin during endurance training at moderate altitude. *International Journal of Sports Medicine* 20, 78–85.
- Friend, G.E. (1935). Exercise and heart strain. *Practitioner* 135, 265–71.
- Fries, J.F. (1998). Reducing cumulative lifetime disability: The compression of morbidity. *British Journal of Sports Medicine* 32, 193.
- Fries, J.F., Singh, G., Morfeld, D., Hubert, H.B., Lane, N.E., Brown, B.W. (1994). Running and the development of disability with age. *Annals of Internal Medicine* 121, 502–9.
- Friman, G., Larsson, E., Rolf, C. (1997). Interaction between infection and exercise with special reference to myocarditis and the increased frequency of sudden deaths among young Swedish orienteers 1979–92. *Scandinavian Journal of Infectious Diseases* 104, 41–49.
- Frisch, R.E., McArthur, J.W. (1974). Menstrual cycles: Fatness as a determinant of minimum weight for height necessary for their maintenance or onset. *Science* 185, 949–51.
- Frisch, R.E., Snow, R.C., Johnson, L.A., Gerard, B., Barbieri, R., Rosen, B. (1993). Magnetic resonance imaging of overall and regional body fat, estrogen metabolism, and ovulation of athletes compared to controls. *Journal of Clinical Endocrinology and Metabolism* 77, 471–77.

- Frisch, R.E., Wyshak, G., Albright, N.L., Albright, T.E., Schiff, I. (1989). Lower prevalence of non-reproductive system cancers among female former college athletes. *Medicine and Science in Sports and Exercise* 21, 250–53.
- Frisch, R.E., Wyshak, G., Albright, N.L., Albright, T.E., Schiff, I., Jones, K.P., Witschi, J., Shiang, E., Koff, E., Marguglio, M. (1985). Lower prevalence of breast cancer and cancers of the reproductive system among former college athletes compared to non-athletes. *British Journal of Cancer* 52, 885–91.
- Frisch, R.E., Wyshak, G., Albright, T.E., Albright, N.L., Schiff, I. (1986). Lower prevalence of diabetes in female former college athletes compared with nonathletes. *Diabetes* 35, 1101–05.
- Frisch, R.E., Wyshak, G., Vincent, L. (1980). Delayed menarche and amenorrhea in ballet dancers. *New England Journal of Medicine* 303, 17–19.
- Frizzell, R.T., Lang, G.H., Lathan, R.S. (1986). Hyponatremia and ultramarathon running. *Journal of the American Medical Association* 255, 772–74.
- Froberg, K., Pedersen, P.K. (1984). Sex differences in endurance capacity and metabolic response to prolonged, heavy exercise. *European Journal of Applied Physiology* 52, 446–50.
- Frost, G., Leeds, A., Trew, G., Margara, R., Dornhorst, A. (1998). Insulin sensitivity in women at risk of coronary heart disease and the effect of a low glycemic diet. *Metabolism* 47, 1245–51.
- Frost, G., Leeds, A.A., Doré, C.J., Madeiros, S., Brading, S., Dornhorst, A. (1999). Glycaemic index as a determinant of serum HDL-cholesterol concentration. *Lancet* 353, 1045–48.
- Frost, H., Moffett, J.A.K., Moser, J.S., Fairbank, J.C.T. (1995). Randomised controlled trial for evaluation of fitness programme for patients with chronic low back pain. *British Medical Journal* 310, 151–54.
- Fry, R.W., Lawrence, S.R., Morton, A.R., Schreiner, A.B., Polglaze, T.D., Keast, D. (1993). Monitoring training stress in endurance sports using biological parameters. *Clinical Journal of Sports Medicine* 3, 6–13.
- Frymoyer, J.W., Pope, M.H., Clements, J.H., Wilder, D.G., MacPherson, B., Ashikaga, T. (1983). Risk factors in low back pain. *Journal of Bone and Joint Surgery* 65, 213–18.
- Fujisawa, T., Mulligan, K., Wade, L., Schumacher, L., Riby, J., Kretchmer, N. (1993). The effect of exercise on fructose absorption. *American Journal of Clinical Nutrition* 58, 75–79.
- Fulco, C.S., Rock, P.B., Cymerman, A. (1998). Maximal and submaximal exercise performance at altitude. *Aviation, Space and Environmental Medicine* 69, 793–801.
- Fulder, S. (1980). The drug that builds Russians. *New Scientist* 21, 576–79.
- Fuller, A., Carter, R.N., Mitchell, D. (1998). Brain and abdominal temperatures at fatigue in rates exercising in the heat. *Journal of Applied Physiology* 84, 877–83.
- Fullerton, L.R., Snowdy, H.A. (1988). Femoral neck stress fractures. *American Journal of Sports Medicine* 16, 365–77.
- Gabel, K.A., Aldous, A., Edington, C. (1995). Dietary intake of two elite male cyclists during 10-day, 2,050-mile ride. *International Journal of Sport Nutrition* 5, 56–61.
- Gabriel, H., Kindermann, W. (1996). Ultrasound of the abdomen in endurance athletes. *European Journal of Applied Physiology* 73, 191–93.
- Gadpaille, W.J., Sanborn, C.F., Wagner, W.W. (1987). Athletic amenorrhea, major affective disorders, and eating disorders. *American Journal of Psychiatry* 144, 939–42.
- Gaesser, G.A. (1999). Thinness and weight loss: Beneficial or detrimental to longevity? *Medicine and Science in Sports and Exercise* 31, 1118–28.
- Gaesser, G.A., Brooks, G.A. (1980). Glycogen repletion following continuous and intermittent exercise to exhaustion. *Journal of Applied Physiology* 49, 722–28.
- Gaesser, G.A., Poole, D.C. (1986). Lactate and ventilatory thresholds: Disparity in time course of adaptations to training. *Journal of Applied Physiology* 61, 999–1004.
- Gaesser, G.A., Poole, D.C. (1988). Blood lactate during exercise: Time course of training adaptation in humans. *International Journal of Sports Medicine* 9, 284–88.
- Gagnon, J., Ho-Kim, M.-A., Chagnon, Y.C., Pérusse, L., Dionne, F.T., Leon, A.S., Rao, D.C., Skinner, J.S., Wilmore, J.H., Bouchard, C. (1997). Absence of linkage between  $\text{VO}_2\text{max}$  and its response to training with markers spanning chromosome 22. *Medicine and Science in Sports and Exercise* 29, 1448–53.
- Gaisl, G., Wiesspeiner, G. (1988). A noninvasive method of determining the anaerobic threshold in children. *International Journal of Sports Medicine* 8, 41–44.
- Galle, P.C., Freeman, E.W., Galle, M.G., Huggins, G.R., Sandheimer, S.J. (1983). Physiologic and psychologic profiles in a survey of women runners. *Fertility and Sterility* 39, 633–39.
- Galloway, J. (1984). *Galloway's Book of Running*. Shelter, Bolinas, CA.
- Galloway, J. (1995). *Return of the Tribes to Peachtree Street*. Phidippides, Atlanta.
- Galloway, J. (1996). *Marathon!* Phidippides, Atlanta.
- Galloway, S.D.R., Maughan, R.J. (1997). Effects of ambient temperature on the capacity to perform prolonged cycle exercise in man. *Medicine and Science in Sports and Exercise* 29, 1240–49.
- Gallwey, W.T. (1998). *The Inner Game of Golf*, Rev. ed. Random House, New York.
- Gallwey, W.T. (1997). *The Inner Game of Tennis*, Rev. ed. Random House, New York.
- Galun, E., Tur-Kaspa, I., Assia, E., Burstein, R., Strauss, N., Epstein, Y., Popovtzer, M.M. (1991). Hyponatremia induced by exercise: A 24-hour endurance march study. *Mineral and Electrolyte Metabolism* 17, 315–20.
- Gao, J., Costill, D., Horswill, C., Park, S. (1988). Sodium bicarbonate ingestion improves performance in interval swimming. *European Journal of Applied Physiology* 58, 171–74.
- Garabrant, D.H., Peters, J.M., Mack, T.M., Bernstein, L. (1984). Job activity and colon cancer risk. *American Journal of Epidemiology* 119, 1005–14.
- Gardner, J.B., Purdy, J.G. (1970). *Computerized Running Training Programmes*. Tafnews Press, Los Altos, CA.
- Gardner, K.D. (1971). Athletic nephritis: Pseudo and real. *Annals of Internal Medicine* 75, 966–67.
- Gardner, L.I., Dziados, J.E., Jones, B.H., Brundage, J.F., Harris, J.M., Sullivan, R., Gill, P. (1988). Prevention of lower extremity stress fractures: A controlled trial of a shock absorbent insole. *American Journal of Public Health* 78, 1563–67.

- Garfield, C.A., Bennett, H.Z. (1984). *Peak Performance*. Tarcher, Los Angeles.
- Garigan, T., Ristedt, D.E. (1999). Death from hyponatremia as a result of acute water intoxication in an Army basic trainee. *Military Medicine* 164, 234–38.
- Garnder, A.W., Poehlman, E.T. (1993). Physical activity is a significant predictor of body density in women. *American Journal of Clinical Nutrition* 57, 8–14.
- Garner, D.M., Garfinkel, P.E. (1979). The Eating Attitudes Test: An index of the symptoms of anorexia nervosa. *Psychological Medicine* 9, 273–79.
- Garner, D.M., Garfinkel, P.E. (1980). Socio-cultural factors in the development of anorexia nervosa. *Psychological Medicine* 10, 647–56.
- Garner, D.M., Wooley, S.C. (1991). Confronting the failure of behavioral and dietary treatments for obesity. *Clinical Psychology Reviews* 11, 729–80.
- Garrett, W.E., Rich, F.R., Nikolaou, P.K., Vogler, J.B. (1989). Computed tomography of hamstring muscle strains. *Medicine and Science in Sports and Exercise* 21, 506–14.
- Garrett, W.E., Safran, M.R., Seaber, A.V., Glisson, R.R., Ribbeck, B.M. (1987). Biomechanical comparison of stimulated and nonstimulated skeletal muscle pulled to failure. *American Journal of Sports Medicine* 15, 448–54.
- Garry, D.J., Ordway, G.A., Lorenz, J.N., Radford, N.B., Chin, E.R., Grange, R.W., Bassel-Duby, R., Williams, R.S. (1998). Mice without myoglobin. *Nature* 395, 905–8.
- Garza, D., Shrier, I., Kohl, H.W., Ford, P., Brown, M., Matheson, G.O. (1997). The clinical value of serum ferritin tests in endurance athletes. *Clinical Journal of Sport Medicine* 7, 46–53.
- Gastmann, U., Petersen, K.G., Böcker, J., Lehmann, M. (1998). Monitoring intensive endurance training at moderate energetic demands using resting laboratory markers failed to recognize an early overtraining stage. *Journal of Sports Medicine and Physical Fitness* 38, 188–93.
- Gauss, H., Meyer, K.A. (1917). Heatstroke: Report of one hundred and fifty-eight cases from Cook County Hospital, Chicago. *American Journal of Medical Sciences* 154, 554–64.
- Gayagay, G., Yu, B., Hambly, B., Boston, T., Hahn, A., Clermayer, D.S., Trent, R.J. (1998). Elite endurance athletes and the ACE I allele: The role of genes in athletic performance. *Human Genetics* 103, 48–50.
- Gayeski, T.E.J., Connett, R.J., Honig, C.R. (1985). Oxygen transport in rest-work transition illustrates new functions for myoglobin. *American Journal of Physiology* 248, H914–21.
- Gazzaniga, J.M., Burns, T.L. (1993). Relationship between diet composition and body fatness, with adjustment for resting energy expenditure and physical activity, in preadolescent children. *American Journal of Clinical Nutrition* 58, 21–28.
- Geissler, C.A., Aldouri, M.S. (1985). Racial differences in the energy cost of standardized activities. *Annals of Nutrition and Metabolism* 29, 40–47.
- Gendel, E.S. (1978). Lack of fitness a source of chronic illness in women. *Physician and Sportsmedicine* 6 (February), 85–95.
- Gentle, P., Caves, R., Armstrong, N., Balding, J., Kirby, B. (1994). High and low exercisers among 14- and 15-year-old children. *Journal of Public Health Medicine* 16, 186–94.
- George, W.C. (1902). *Training*. Southwood Smith, London.
- George, W.C. (1908). *The Hundred-Up Exercise*. Ewart Seymour, London.
- Gerhardsson, M., Floderus, B., Norell, S.E. (1988). Physical activity and colon cancer risk. *International Journal of Epidemiology* 17, 743–46.
- Gerhardsson, M., Norell, S.E., Kiviranta, H., Pedersen, N.L., Ahlbom, A. (1986). Sedentary jobs and colon cancers. *American Journal of Epidemiology* 123, 775–80.
- Gerhardsson, M., Steineck, G., Hagman, U., Rieger, A., Norell, S.E. (1990). Physical activity and colon cancer: A case-referent study in Stockholm. *International Journal of Cancer* 46, 985–89.
- Gey, K.F., Puska, P., Jordan, P., Moser, U.K. (1991). Inverse correlation between plasma vitamin E and mortality from ischemic heart disease in cross-cultural epidemiology. *American Journal of Clinical Nutrition* 53, 326S–34S.
- Gibbon, W.W., Cooper, J.R., Radcliffe, G.S. (1999). Sonographic incidence of tendon microtears in athletes with chronic Achilles tendinosis. *British Journal of Sports Medicine* 33, 129–30.
- Gibson, J.H., Mitchell, A., Reeve, J., Harries, M.E. (1999). Treatment of reduced bone mineral density in athletic amenorrhea: A pilot study. *Osteoporosis International* 10, 284–89.
- Gil, S.M., Yazaki, E., Evans, D.F. (1998). Aetiology of running-related gastro-intestinal dysfunction: How far is the finishing line? *Sports Medicine* 26, 365–87.
- Giladi, M., Milgrom, C., Simkin, A., Danon, Y. (1991). Stress fractures: Identifiable risk factors. *American Journal of Sports Medicine* 19, 647–52.
- Giladi, M., Milgrom, C., Stein, M. (1985). The low arch, a protective factor in stress fractures: A prospective study of 295 military recruits. *Orthopedic Reviews* 14, 709–12.
- Gilbert, D. (1980). *The Miracle Machine*. Coward, McCann and Geoghegan, New York.
- Gillespie, A.C., Fox, E.L., Merola, A.J. (1982). Enzyme adaptations in rat skeletal muscle after two intensities of treadmill running. *Medicine and Science in Sports and Exercise* 14, 461–66.
- Gillies, H., Derman, W.E., Noakes, T.D., Smith, P., Evans, A., Gabriels, G. (1996). Pseudoephedrine is without ergogenic effects during prolonged exercise. *Journal of Applied Physiology* 81, 2611–17.
- Gillum, R.F., Mussolini, M.E., Ingram, D.D. (1996). Physical activity and stroke incidence in women and men: The NHANES I Epidemiologic Follow-up Study. *American Journal of Epidemiology* 143, 860–69.
- Gilman, M.B., Wells, C.L. (1993). The use of heart rates to monitor exercise intensity in relation to metabolic variables. *International Journal of Sports Medicine* 14, 339–44.
- Ginsburg, G.S., Agil, A., O'Toole, M., Rimm, E., Douglas, P.S., Rifal, N. (1996). Effects of a single bout of ultraendurance exercise on lipid levels and susceptibility of lipids to peroxidation in triathletes. *Journal of the American Medical Association* 276, 221–25.
- Giovannucci, E., Ascherio, A., Rimm, E.B., Colditz, G.A., Stampfer, M.J., Willett, W.C. (1995). Physical activity, obesity, and risk for colon cancer and adenoma in men. *Annals of Internal Medicine* 122, 327–34.

- Gisolfi, C.V., Copping, J.R. (1974). Thermal effects of prolonged treadmill exercise in the heat. *Medicine and Science in Sports* 6, 108–13.
- Gisolfi, C.V., Spranger, K.J., Summers, R.W., Schedl, H.P., Bleiler, T.L. (1991). Effects of cycle exercise on intestinal absorption in humans. *Journal of Applied Physiology* 71, 2518–27.
- Gisolfi, C.V., Summers, R.D., Schedl, H.P., Bleiler, T.L. (1995). Effect of sodium concentration in a carbohydrate-electrolyte solution on intestinal absorption. *Medicine and Science in Sports and Exercise* 27, 1414–20.
- Gisolfi, C.V., Summers, R.W., Lambert, G.P., Xia, T. (1998). Effect of beverage osmolality on intestinal fluid absorption during exercise. *Journal of Applied Physiology* 85, 1941–48.
- Gisolfi, C.V., Summers, R.W., Schedl, H.P., Bleiler, T.L., Oppliger, R.A. (1990). Human intestinal water absorption: Direct vs. indirect measurements. *American Journal of Physiology* 258, G216–22.
- Gisolfi, C.V., Duchman, S.M. (1993). Guidelines for optimal replacement beverages for different athletic events. *Medicine and Science in Sports and Exercise* 3, 112–15.
- GSSI-Prevenzione Investigators. (1999). Dietary supplementation with n-3 polyunsaturated fatty acids and vitamin E after myocardial infarction: Results of the GSSI-Prevenzione trial. *Lancet* 354, 447–55.
- Glah, K. (1998). Science and surprises: “Does anyone understand me?” *Triathlete* 169, 26.
- Glass, A.R., Yahiro, J.A., Deutser, P.A., Vigersky, R.A., Kyle, S.B., Schoemaker, E.B. (1987). Amenorrhea in Olympic marathon runners. *Fertility and Sterility* 48, 740–45.
- Gledhill, N. (1982). Blood doping and related issues: A brief review. *Medicine and Science in Sports and Exercise* 14(3), 183–89.
- Gledhill, N. (1984). Bicarbonate ingestion and anaerobic performance. *Sports Medicine* 1, 177–80.
- Gledhill, N., Cox, D., Jamnik, R. (1994). Endurance athletes’ stroke volume does not plateau: Major advantage is diastolic function. *Medicine and Science in Sports and Exercise* 26, 1116–21.
- Gledhill, N., Warburton, D., Jamnik, V. (1999). Haemoglobin, blood volume, cardiac function, and aerobic power. *Canadian Journal of Applied Physiology* 24, 54–65.
- Gleeson, M., Greenhaff, P.L., Maughan, R.J. (1987). Fasting and high-intensity exercise performance in man. *Journal of Physiology* 392, 52P.
- Gleeson, M., Maughan, R.J., Greenhaff, P.L. (1986). Comparison of the effects of pre-exercise feeding of glucose, glycerol and placebo on endurance and fuel homeostasis in man. *European Journal of Applied Physiology* 55, 645–53.
- Glenmark, B., Hedberg, G., Jansson, E. (1994). Prediction of physical activity level in adulthood by physical characteristics, physical performance and physical activity in adolescence: An 11-year follow-up study. *European Journal of Applied Physiology* 69, 530–38.
- Glover, B., Schuder, P. (1983). *The Competitive Runner’s Handbook*. Penguin Books, New York.
- Godal, H.C., Refsum, H.E. (1979). Haemolysis in athletes due to hereditary spherocytosis. *Scandinavian Journal of Haematology* 22, 83–86.
- Goedecke, J.H., Christie, C., Wilson, G., Dennis, S.C., Noakes, T.D., Hopkins, W.G., Lambert, E.V. (1999). Metabolic adaptations to a high-fat diet in endurance cyclists. *Metabolism* 48, 1509–17.
- Goedecke, J.H., Elmer-English, R., Dennis, S.C., Schloss, I., Noakes, T.D., Lambert, E.V. (1999). Effects of medium-chain triacylglycerol ingested with carbohydrate on metabolism and exercise performance. *International Journal of Sport Nutrition* 9, 65–77.
- Goedecke, J.H., St. Clair Gibson, A., Grobler, L., Collins, M., Noakes, T.D., Lambert, E.V. (2000). Determinants of the variability in respiratory exchange ratio at rest and during exercise in trained athletes. *American Journal of Physiology* 279, E1325–34.
- Goforth, H.W., Arnall, D.A., Bennett, B.L., Law, P.G. (1997). Persistence of supercompensated muscle glycogen in trained subjects after carbohydrate loading. *Journal of Applied Physiology* 82, 342–47.
- Golden, N.H., Jacobson, M.S., Schebendach, J., Solanto, M.V., Hertz, S.M., Shenker, I.R. (1997). Resumption of menses in anorexia nervosa. *Archives of Pediatrics and Adolescent Medicine* 151, 16–21.
- Goldfarb, A.H. (1999). Nutritional antioxidants as therapeutic and preventive modalities in exercise-induced muscle damage. *Canadian Journal of Applied Physiology* 23, 249–66.
- Goldfinch, J., McNaughton, L., Davies, P. (1988). Induced metabolic alkalosis and its effects on 400-m racing times. *European Journal of Applied Physiology* 57, 45–48.
- Goldsmith, R.L., Bigger, J.T., Steinman, R.C., Fleiss, J.L. (1992). Comparison of 24-hour parasympathetic activity in endurance-trained and untrained young men. *Journal of the American College of Cardiology* 20, 552–58.
- Goldstein, J.A., Demetriou, D., Grines, C.L., Pica, M., Shoukfeh, M., O’Neill, W.W. (2000). Multiple complex coronary plaques in patients with acute myocardial infarction. *New England Journal of Medicine* 343, 915–22.
- Goldszer, R.C., Siegel, A.J. (1984). Renal abnormalities during exercise. In R.H. Strauss (Ed.), *Sports Medicine* (2nd ed.). Saunders, London, 130–39.
- Gollnick, P.D., Armstrong, P.B., Saubert, C.W., Sembrowich, W.L., Shephard, R.E., Saltin, B. (1973). Glycogen depletion patterns in human skeletal muscle fibres during prolonged work. *Pflügers Archives* 344, 1–12.
- Gollnick, P.D., Korge, P., Karpakka, J., Saltin, B. (1991). Elongation of skeletal muscle relaxation during exercise is linked to reduced calcium uptake by the sarcoplasmic reticulum in man. *Acta Physiologica Scandinavica* 142, 135–36.
- Gollnick, P.D., Piehl, K., Saltin, B. (1974). Selective glycogen depletion pattern in human muscle fibres after exercise of varying intensity and at varying pedalling rates. *Journal of Physiology* 241, 45–57.
- Gollnick, P.D., Saltin, B. (1982). Hypothesis: Significance of skeletal muscle oxidative enzyme enhancement with endurance training. *Clinical Physiologist* 2, 1–12.
- Gong, H., Bradley, P.W., Simmons, M.S., Tashkin, D.P. (1986). Impaired exercise performance and pulmonary function in elite cyclists during low-level ozone exposure in a hot environment. *American Review of Respiratory Diseases* 134, 726–33.
- Gonzalez, E.R. (1982). Premature bone loss found in some non-menstruating sportswomen. *Journal of the American Medical Association* 248, 513–14.



- Gonzalez, N.C., Clancy, R.L., Moue, Y., Richalet, J.-P. (1998). Increasing maximal heart rate increases maximal  $O_2$  uptake in rats acclimatized to simulated altitude. *Journal of Applied Physiology* 84, 164–68.
- González-Alonso, J., Calbet, J.A.L., Nielsen, B. (1998). Muscle blood flow is reduced with dehydration during prolonged exercise in humans. *Journal of Physiology* 513, 895–905.
- González-Alonso, J., Calbet, J.A.L., Nielsen, B. (1999). Metabolic and thermodynamic responses to dehydration-induced reductions in muscle blood flow in exercising humans. *Journal of Applied Physiology* 520, 577–89.
- González-Alonso, J., Mora-Rodriguez, R., Below, P.R., Coyle, E.F. (1995). Dehydration reduces cardiac output and increases systemic and cutaneous vascular resistance during exercise. *Journal of Physiology* 79, 1487–96.
- González-Alonso, J., Mora-Rodriguez, R., Coyle, E.F. (1999). Supine exercise restores arterial blood pressure and skin blood flow despite dehydration and hyperthermia. *American Journal of Physiology* 46, H576–83.
- González-Alonso, J., Mora-Rodriguez, R., Coyle, E.F. (2000). Stroke volume during exercise: Interaction of environment and hydration. *American Journal of Physiology* 278, H321–30.
- González-Alonso, J., Teller, C., Andersen, S.L., Jensen, F.B., Hyldig, T., Nielsen, B. (1999). Influence of body temperature on the development of fatigue during prolonged exercise in the heat. *Journal of Applied Physiology* 86, 1032–39.
- Goodpaster, B.H., Costill, D.L., Fink, W.J., Trappe, T.A., Jozsi, A.C., Starling, R.D., Trappe, S.W. (1996a). The effects of pre-exercise starch ingestion on endurance performance. *International Journal of Sports Medicine* 17, 366–72.
- Goodpaster, B.H., Costill, D.L., Trappe, S.W., Hughes, G.M. (1996b). The relationship of sustained exercise training and bone mineral density in aging male runners. *Scandinavian Journal of Medicine and Science in Sports* 6, 216–21.
- Goraya, T.Y., Jacobsen, S.J., Pellikka, P.A., Miller, T.D., Khan, A., Weston, S.A., Gersh, B.J., Roger, V.L. (2000). Prognostic value of treadmill exercise testing in elderly persons. *Annals of Internal Medicine* 132, 862–70.
- Gordon, B., Baker, J.C. (1929). Observations on the apparent adaptability of the body to infections, unusual hardships, changing environment and prolonged strenuous exertion. *American Journal of the Medical Sciences* 178, 1–8.
- Gordon, B., Kohn, L.A., Levine, S.A., Matton, M., Scriver, W. De M., Whiting, W.B. (1925). Sugar content of the blood in runners following a marathon race. *Journal of the American Medical Association* 185, 508–9.
- Gorski, J. (1985). Exercise during pregnancy: Maternal and fetal responses: A brief review. *Medicine and Science in Sports and Exercise* 17, 407–16.
- Gosselin, L.E., Adams, C., Cotter, T.A., McCormick, R.J., Thomas, D.P. (1998). Effect of exercise training on passive stiffness in locomotor skeletal muscle: Role of extracellular matrix. *Journal of Applied Physiology* 85, 1011–16.
- Graham, A.S., Hatton, R.C. (1999). Creatine: A review of efficacy and safety. *Journal of the American Pharmaceutical Association* 39, 803–10.
- Graham, T.E., Hibbert, E., Sathasivam, P. (1998). Metabolic and exercise endurance effects of coffee and caffeine ingestion. *Journal of Applied Physiology* 85, 883–89.
- Graham, T.E., Rush, W.E., van Soeren, M.H. (1994). Caffeine and exercise: Metabolism and performance. *Canadian Journal of Applied Physiology* 19, 111–38.
- Graham, T.E., Saltin, B. (1989). Estimation of the mitochondrial redox state in human skeletal muscle during exercise. *Journal of Applied Physiology* 66, 561–66.
- Graham, T.E., Spriet, L.L. (1991). Performance and metabolic responses to a high caffeine dose during prolonged exercise. *Journal of Applied Physiology* 71, 2292–98.
- Graham, T.E., Spriet, L.L. (1995). Metabolic, catecholamine and exercise performance responses to varying doses of caffeine. *Journal of Applied Physiology* 78, 867–74.
- Graham, W.E. (1981). The anxiety of the runner: Terminal helplessness. In M.H. Sacks, M.L. Sacks (Eds.), *The Psychology of Running*. Human Kinetics, Champaign, IL, 149–56.
- Grant, E.C.G. (1979). Food allergies and migraine. *Lancet* 1, 966–968.
- Grant, S., Craig, I., Wilson, J., Aitchison, T. (1997). The relationship between 3 km running performance and selected physiological variables. *Journal of Sports Sciences* 15, 403–10.
- Grant, S.J.Y., Sharp, R.H., Aitchison, T.C. (1984). First time marathoners and distance training. *British Journal of Sports Medicine* 18, 241–43.
- Grant-Whyte, H. (1981). “Joggitis,” “marathonitis” and marathon mania. *South African Medical Journal* 59, 849–50.
- Grassi, G., Seravalle, G., Calhoun, D., Bolla, G.B., Mancia, G. (1992). Physical exercise in essential hypertension. *Chest* 101(5 Suppl), 312S–14S.
- Graves, J.E., Pollock, M.L., Sparling, P.B. (1987). Body composition of elite female distance runners. *International Journal of Sports Medicine* 8 (Suppl), 96–102.
- Gray, D.P., Harding, E., Dale, E. (1983). Effects of oral contraceptives on serum lipid profiles of women runners. *Fertility and Sterility* 39, 510–14.
- Gray, M.E., Titlow, L.W. (1982a). B15: Myth or miracle? *Physician and Sportsmedicine* 10 (January), 107–12.
- Gray, M.E., Titlow, L.W. (1982b). The effect of pangamic acid on maximal treadmill performance. *Medicine and Science in Sports and Exercise* 14, 424–27.
- Grayboys, T.B. (1979). The economics of screening joggers. *New England Journal of Medicine* 301, 1067.
- Grediagin, A., Cody, M., Rupp, J., Benardot, D., Shern, R. (1995). Exercise intensity does not effect body composition change in untrained, moderately overfat women. *Journal of the American Dietetic Association* 95, 661–65.
- Green, B.B., Darling, J.R., Weiss, N.S., Liff, J.M., Koepsell, T. (1986). Exercise as a risk factor for infertility with ovulatory dysfunction. *American Journal of Public Health* 76, 1432–36.
- Green, H.J. (1991). How important is endogenous muscle glycogen to fatigue in prolonged exercise? *Canadian Journal of Physiology and Pharmacology* 69, 290–97.
- Green, H.J., Ball-Burnett, M., Symon, S., Grant, S., Jamieson, G. (1995). Short-term training, muscle glycogen, and cycle endurance. *Canadian Journal of Applied Physiology* 20, 315–24.

- Green, H.J., Cadefau, J., Cusso, R., Ball-Burnett, M., Jamieson, G. (1995). Metabolic adaptations to short-term training are expressed early in submaximal exercise. *Canadian Journal of Physiology and Pharmacology* 73, 474–82.
- Green, H.J., Helyar, R., Ball-Burnett, M., Kowalchuk, N., Symon, S., Farrance, B. (1992). Metabolic adaptations to training precede changes in muscle mitochondrial capacity. *Journal of Applied Physiology* 72, 484–91.
- Green, H.J., Jones, L.L., Houston, M.E., Ball-Burnett, M.E., Farrance, B.W. (1989). Muscle energetics during prolonged cycling after exercise hypervolemia. *Journal of Applied Physiology* 66, 622–31.
- Green, H.J., Jones, S., Ball-Burnett, M.E., Smith, D., Livesey, J., Farrance, B.W. (1991). Early muscular and metabolic adaptations to prolonged exercise training in humans. *Journal of Applied Physiology* 70, 2032–38.
- Green, H.J., Smith, D., Murphy, P., Fraser, I. (1990). Training-induced alterations in muscle glycogen utilization in fibre-specific types during prolonged exercise. *Canadian Journal of Physiology and Pharmacology* 68, 1372–76.
- Green, H.J., Sutton, J., Young, P., Cymerman, A., Houston, C.S. (1989a). Operation Everest II: Muscle energetics during maximal exercise. *Journal of Applied Physiology* 66, 142–50.
- Green, H.J., Sutton, J.R., Cymerman, A., Young, P.M., Houston, C.S. (1989b). Operation Everest II: Adaptations in human skeletal muscle. *Journal of Applied Physiology* 66, 2454–61.
- Green, R.L., Kaplan, S.S., Rabin, B.S., Stranitski, C.L., Zdziarski, U. (1981). Immune function in marathon runners. *Annals of Allergy* 47, 73–75.
- Greendale, G.A., Barrett-Connor, E., Edelstein, S., Ingles, S., Haile, R. (1995). Lifetime-leisure exercise and osteoporosis: The Rancho Bernardo Study. *American Journal of Epidemiology* 141, 951–59.
- Greenhaff, P.L., Gleeson, M., Maughan, R.J. (1987a). The effects of dietary manipulation on blood acid-base status and the performance of high intensity exercise. *European Journal of Applied Physiology* 56, 331–37.
- Greenhaff, P.L., Gleeson, M., Maughan, R.J. (1988a). The effects of a glycogen loading regimen on acid-base status and blood lactate concentration before and after a fixed period of high intensity exercise in man. *European Journal of Applied Physiology* 57, 254–59.
- Greenhaff, P.L., Gleeson, M., Maughan, R.J. (1988b). The effects of diet on muscle pH and metabolism during high intensity exercise. *European Journal of Applied Physiology* 57, 531–39.
- Greenhaff, P.L., Gleeson, M., Whiting, P.H., Maughan, R.J. (1987b). Dietary composition and acid-base status: Limiting factors in the performance of maximal exercise in man? *European Journal of Applied Physiology* 56, 444–50.
- Greenland, P. (2001). Beating high blood pressure with low-sodium DASH. *New England Journal of Medicine* 344, 53–55.
- Greenleaf, J.E., Jackson, C.G.R., Geelen, G., Keil, L.C., Hinghofer-Szalkay, H., Whittam, J.H. (1998). Plasma volume expansion with oral fluids in hypohydrated men at rest and during exercise. *Aviation, Space and Environmental Medicine* 69, 837–44.
- Greenleaf, J.E., Looft-Wilson, R., Wisherd, J.L., Jackson, C.G.R., Fung, P.P., Ertl, A.C., Barnes, P.R., Jensen, C.D., Whittam, J.H. (1998). Hypervolemia in men from fluid ingestion at rest and during exercise. *Aviation, Space and Environmental Medicine* 69, 374–86.
- Greer, F., McLean, C., Graham, T.E. (1998). Caffeine, performance, and metabolism during repeated Wingate exercise tests. *Journal of Applied Physiology* 85, 1502–08.
- Greeves, J.P., Cable, N.T., Reilly, T., Kingsland, C. (1999). Changes in muscle strength in women following the menopause: A longitudinal assessment of the efficacy of hormone replacement therapy. *Clinical Sciences* 97, 79–84.
- Gregor, R.J. (1970). A comparison of the energy expenditure during positive and negative grade running. MA thesis, Ball State University, Muncie, IN.
- Gregor, R.J., Edgerton, V.R., Rozenek, R., Castleman, K.R. (1981). Skeletal muscle properties and performance in elite female track athletes. *European Journal of Applied Physiology* 47, 335–64.
- Grewe, J.S., Hickner, R.C., Hansen, P.A., Racette, S.B., Chen, M.M., Holloszy, J.O. (1999). Effects of endurance exercise training on muscle glycogen accumulation in humans. *Journal of Applied Physiology* 87, 222–26.
- Griest, J.H., Klein, M.H., Eischens, R.R., Faris, J., Gurman, A.S., Morgan, W.P. (1981). Running through your mind. In M.H. Sacks, M.L. Sacks (Eds.), *The Psychology of Running*. Human Kinetics, Champaign, IL, 5–26.
- Griffith, R.O., Dressendorfer, R.H., Fullbright, C.D., Wade, C.E. (1990). Testicular function during exhaustive endurance training. *Physician and Sportsmedicine* 18 (May), 54–64.
- Griffiths, M.L. (1992). End-stage renal failure caused by regular use of anti-inflammatory analgesic medication for minor sports injuries. *South African Medical Journal* 81, 377–78.
- Grimston, S.K., Engsborg, J.R., Kloiber, R., Hanley, D.A. (1990). Menstrual, calcium, and training history: Relationship to bone health in female runners. *Clinical Sports Medicine* 2, 119–28.
- Grimston, S.K., Sanborn, C.F., Miller, P.D., Huffer, W.E. (1990). The application of historical data for evaluation of osteopenia in female runners: The menstrual index. *Clinical Sports Medicine* 2, 108–18.
- Grisdale, R.R., Jacobs, I., Cafarelli, E. (1990). Relative effects of glycogen depletion and previous exercise on muscle force and endurance capacity. *Journal of Applied Physiology* 69, 1276–82.
- Grobler, S. (1990). Lead in petrol no longer a threat to runners. *South African Medical Journal* 78, xx.
- Grobler, S.R., Maresky, L.S., Rossouw, R.J. (1984). Blood lead levels in marathon runners. *South African Medical Journal* 65, 872–73.
- Grobler, S.R., Maresky, L.S., Rossouw, R.J. (1986). Blood lead levels of South African long-distance road-runners. *Archives of Environmental Health* 41, 155–58.
- Grodstein, F., Stampfer, M.J., Colditz, G.A., Willett, W.C., Manson, J.E., Joffe, M., Rosner, B., Fuchs, C., Hankinson, S.E., Hunter, D.J., Hennekens, C.H., Speizer, F.E. (1997). Postmenopausal hormone therapy and mortality. *New England Journal of Medicine* 336, 1769–75.
- Grogan, T.J., Wilson, B.R.A., Camm, J.D. (1991). The relationship between age and optimal performance of elite athletes in endurance running events. *Research Quarterly for Exercise and Sport* 62, 333–39.

- Grønbaek, M., Deis, A., Sørensen, T.I.A., Becker, U., Schnohr, P., Jensen, G. (1995). Mortality associated with moderate intakes of wine, beer, or spirits. *British Medical Journal* 310, 1165–69.
- Gross, M.L., Davlin, L.B., Evanski, P.M. (1991). Effectiveness of orthotic shoe inserts in the long-distance runner. *American Journal of Sports Medicine* 19, 409–12.
- Grundy, S.M., Blackburn, G., Higgins, M., Lauer, R., Perri, M.G., Ryan, D. (1999). Physical activity in the prevention and treatment of obesity and its comorbidities: Evidence report of independent panel to assess the role of physical activity in the treatment of obesity and its comorbidities. *Medicine and Science in Sports and Exercise* 31, 1493–1500.
- Guezennec, C.Y., Satabin, P., Duforez, F., Koziat, J., Antoine, J.M. (1993). The role of type and structure of complex carbohydrates response to physical exercise. *International Journal of Sports Medicine* 14, 224–31.
- Guezennec, C.Y., Satabin, P., Duforez, F., Merino, D., Péronnet, F., Koziat, J. (1989). Oxidation of corn starch, glucose, and fructose ingested before exercise. *Medicine and Science in Sports and Exercise* 21, 45–50.
- Guglielmini, C., Casoni, I., Patracchini, M., Manfredini, F., Grazi, G., Ferrari, M., Concini, F. (1989). Reduction of Hb levels during the racing season in nonsideropenic professional cyclists. *International Journal of Sports Medicine* 10, 352–56.
- Guild, W.R. (1957). Echoes of the marathon. *New England Journal of Medicine* 257, 1165–70.
- Gura, T. (1997). Obesity sheds its secrets. *Science* 275, 751–53.
- Gurevich, M., Kohn, P.M., Davis, C. (1994). Exercise-induced analgesia and the role of reactivity in pain sensitivity. *Journal of Sports Sciences* 12, 549–59.
- Guten, G. (1981). Herniated lumbar disk associated with running: A review of 10 cases. *American Journal of Sports Medicine* 9, 155–59.
- Guten, G.N. (Ed.). *Running Injuries*. Saunders, Philadelphia.
- Guyot, G.W., Fairchild, L., Nickens, J. (1984). Death concerns of runners and nonrunners. *Journal of Sports Medicine and Physical Fitness* 24, 139–43.
- Gwinup, G. (1987). Weight loss without dietary restriction: Efficacy of different forms of aerobic exercise. *American Journal of Sports Medicine* 15, 275–79.
- Haapanen, N., Miilunpalo, S., Vuori, I., Oja, P., Pasanen, M. (1996). Characteristics of leisure time physical activity associated with decreased risk of premature all-cause and cardiovascular disease mortality in middle-aged men. *American Journal of Epidemiology* 143, 870–80.
- Hackney, A.C. (1989). Endurance training and testosterone levels. *Sports Medicine* 8, 117–27.
- Hackney, A.C. (1996). The male reproductive system and endurance exercise. *Medicine and Science in Sports and Exercise* 28, 180–89.
- Hackney, A.C., Sinning, W.E., Bruot, B.C. (1988). Reproductive hormonal profiles of endurance-trained and untrained males. *Medicine and Science in Sports and Exercise* 20, 60–65.
- Hackney, A.C., Sinning, W.E., Bruot, B.C. (1990). Hypothalamic-pituitary-testicular axis function in endurance-trained males. *International Journal of Sports Medicine* 11, 298–303.
- Hagberg, J.M., Brown, M.D. (1995). Does exercise training play a role in the treatment of essential hypertension? *Journal of Cardiovascular Risk* 2, 296–302.
- Hagberg, J.M., Coyle, E.F. (1983). Physiological determinants of endurance performance as studied in competitive racewalkers. *Medicine and Science in Sports and Exercise* 15, 287–89.
- Hagberg, J.M., Ferrell, R.E., McCole, S.D., Wilund, K.R., Moore, G.E. (1998).  $\dot{V}O_{2\max}$  is associated with ACE genotype in postmenopausal women. *Journal of Applied Physiology* 85, 1842–46.
- Hagberg, J.M., Goldberg, A.P., Lakatta, L., O'Connor, F.C., Becker, L.C., Lakatta, E.G., Fleg, J.L. (1998). Expanded blood volumes contribute to the increased cardiovascular performance of endurance-trained older men. *Journal of Physiology* 85, 484–89.
- Hagberg, J.M., Graves, J.E., Limacher, M., Woods, D.R., Leggett, S.H., Cononie, C., Gruber, J.J., Pollock, M.L. (1989). Cardiovascular responses of 70- to 79-yr-old men and women to exercise training. *Journal of Applied Physiology* 66, 2589–94.
- Hage, P. (1982). Air pollution: Adverse effects on athletic performance. *Physician and Sportsmedicine* 10 (March), 126–32.
- Haglund-Åkerlind, Y., Eriksson, E. (1993). Range of motion, muscle torque and training habits in runners with and without Achilles tendon problems. *Knee Surgery, Sports Traumatology and Arthroscopy* 1, 195–99.
- Hakim, A.A., Petrovitch, H., Burchfiel, C.M., Ross, G.W., Rodriguez, B.L., White, L.R., Yano, K., Curb, J.D., Abbott, R.D. (1998). Effects of walking on mortality among non-smoking retired men. *New England Journal of Medicine* 338, 94–99.
- Halbert, J.A., Silagy, C.A., Finucane, P., Withers, R.T., Hamdorf, P.A., Andrews, G.R. (1997). The effectiveness of exercise training in lowering blood pressure: A meta-analysis of randomised controlled trials of 4 weeks or longer. *Journal of Human Hypertension* 11, 641–49.
- Hall, D.C., Kaufmann, D.A. (1987). Effects of aerobic and strength conditioning on pregnancy outcomes. *American Journal of Obstetrics and Gynecology* 157, 1199–203.
- Hallberg, L., Magnusson, B. (1984). The etiology of “Sports Anemia”: A physiological adaptation of the oxygen-dissociation curve of hemoglobin to an unphysiological exercise load. *Acta Medica Scandinavica* 216, 145–48.
- Haller, C.A., Benowitz, N.L. (2000). Adverse cardiovascular and central nervous system events associated with dietary supplements containing ephedra alkaloids. *New England Journal of Medicine* 343, 1833–38.
- Haller, D.I. (1998). Eating fish may prevent sudden cardiac death. *Physician and Sportsmedicine* 26(5), 8.
- Halliwill, J.R., Taylor, J.A., Eckberg, D.L. (1996). Impaired sympathetic vascular regulation in humans after acute dynamic exercise. *Journal of Physiology* 495, 279–88.
- Hambrecht, R., Niebauer, J., Marburger, C., Grunze, M., Kälberer, B., Hauer, K., Schlierf, G., Kübler, W., Schuler, G. (1993). Various intensities of leisure time physical activity in patients with coronary artery disease: Effects on cardiorespiratory fitness and progression of coronary atherosclerotic lesions. *Journal of the American College of Cardiology* 22, 468–77.
- Hambrecht, R., Wolf, A., Gielen, S., Linke, A., Hofer, J., Erbs, J., Schoene, N., Schuler, G. (2000). Effect of exercise on coronary endothelial function in patients with coronary artery disease. *New England Journal of Medicine* 342, 454–60.

- Hamdy, R.C., Anderson, J.S., Whalen, K.E., Harvill, L.M. (1994). Regional differences in bone density of young men involved in different exercises. *Medicine and Science in Sports and Exercise* 26, 884–88.
- Hamel, P., Simoneau, J.A., Lortie, G., Boulay, M.R., Bouchard, C. (1986). Heredity and muscle adaptation to endurance training. *Medicine and Science in Sports and Exercise* 18, 690–96.
- Hamilton, B. (2000). East African running dominance: What is behind it? *British Journal of Sports Medicine* 34, 391–94.
- Hamilton, L.H., Brooks-Gunn, J., Warren, M.P. (1986). Nutritional intake of female dancers: A reflection of eating disorders. *International Journal of Eating Disorders* 5, 925–34.
- Hammar, M., Berg, G., Lindgren, R. (1990). Does physical exercise influence the frequency of postmenopausal hot flushes? *Acta Obstetrica Gynecologica Scandinavica* 69, 409–12.
- Hanke, W., Kalinka, J., Makowiec-D'Abrowska, T., Sobala, W. (1999). Heavy physical work during pregnancy: A risk factor for small-for-gestational-age babies in Poland. *American Journal of Industrial Medicine* 36, 200–5.
- Hansen, B.F., Asp, S., Kiens, B., Richter, E.A. (1999). Glycogen concentration in human skeletal muscle: Effect of prolonged insulin and glucose infusion. *Scandinavian Journal of Medicine and Science in Sports* 9, 209–13.
- Hansen-Flaschen, J. (1998). New treatments for exercise-induced asthma. *New England Journal of Medicine* 339, 192–193.
- Hanson, P.G., Flaherty, D.K. (1981). Immunological responses to training in conditioned runners. *Clinical Sciences* 60, 225–28.
- Harber, V.J. (2000). Menstrual dysfunction in athletes: An energetic challenge. *Exercise and Sports Sciences Reviews* 28, 19–23.
- Harber, V.J., Sutton, J.R. (1984). Endorphins and exercise. *Sports Medicine* 1, 154–71.
- Hardwick, J.H. (1912). *Distance and Cross-Country Running*. British Sports, London.
- Hargreaves, M., Costill, D., Burke, L., McConnell, G., Febbraio, M. (1994). Influence of sodium on glucose bioavailability during exercise. *Medicine and Science in Sports and Exercise* 26, 365–68.
- Hargreaves, M., Dillo, P., Angus, D., Febbraio, M. (1996). Effect of fluid ingestion on muscle metabolism during prolonged exercise. *Journal of Applied Physiology* 80, 363–66.
- Hargreaves, M., Finn, J.P., Withers, R.T., Halbert, J.A., Scroop, G.C., Mackay, M., Snow, R.J., Carey, M.F. (1997). Effect of muscle glycogen availability on maximal exercise performance. *European Journal of Applied Physiology* 75, 188–92.
- Hargreaves, M., Keins, B., Richter, E.A. (1991). Effect of increased plasma free fatty acid concentrations on muscle metabolism in exercising men. *Journal of Applied Physiology* 70, 194–201.
- Harris, A., Lindeman, A.K., Martin, B.J. (1991). Rapid orocecal transit in chronically active persons with high energy intake. *Journal of Applied Physiology* 70, 1550–53.
- Harris, T.B., Makuc, D.M., Kleinman, J.C., Gillum, R.F., Curb, J.D., Schatzkin, A., Feldman, J.J. (1991). Is the serum cholesterol-coronary heart disease relationship modified by activity level in older persons? *Journal of the American Geriatric Society* 39, 747–54.
- Harsha, D.W. (1995). The benefits of physical activity in childhood. *American Journal of Medical Sciences* 310 (Suppl 1), S109–13.
- Hartley, P.H.-S., Llewellyn, G.F. (1939). The longevity of oarsmen. *British Medical Journal* 1, 657–62.
- Hartman, T.J., Albanes, D., Rautalahti, M., Tangrea, J.A., Virtamo, J., Stolzenberg, R., Taylor, P.R. (1998). Physical activity and prostate cancer in the Alpha-Tocopherol, Beta-Carotene (ATBC) Cancer Prevention Study (Finland). *Cancer Causes Control* 9, 11–18.
- Hartung, G.H., Farge, E.J. (1977). Personality and physiological traits in middle-aged runners and joggers. *Journal of Gerontology* 32, 541–48.
- Hartung, G.H., Foreyt, J.P., Mitchell, R.E., Vlasek, I., Gotto, A.M. (1980). Relation of diet to high density lipoprotein cholesterol in middle aged marathon runners, joggers, and inactive men. *New England Journal of Medicine* 302, 357–61.
- Haskell, W.L., Alderman, E.L., Fair, J.M., Maron, D.J., Mackey, S.F., Superko, H.R., Williams, P.T., Johnstone, I.M., Champagne, M.A., Krauss, R.M., Farquhar, J.W. (1994). Effects of intensive multiple risk factor reduction on coronary atherosclerosis and clinical cardiac events in men and women with coronary artery disease: The Stanford Coronary Risk Intervention Project (SCRIP). *Circulation* 89, 975–90.
- Haskell, W.L., Sims, C., Myll, J., Bortz, W.M., St. Goar, F.G., Alderman, E.L. (1993). Coronary artery size and dilating capacity in ultradistance runners. *Circulation* 87, 1076–82.
- Hatch, M., Levin, B., Shu, X.O., Susser, M. (1998). Maternal leisure-time exercise and timely delivery. *American Journal of Public Health* 88, 1528–33.
- Hatch, M.C., Shu, X.O., McLean, D.E., Levin, B., Begg, M., Reuss, L., Susser, M. (1993). Maternal exercise during pregnancy, physical fitness, and fetal growth. *American Journal of Epidemiology* 137, 1105–14.
- Hatcher, L., Leklem, J., Campbell, D. (1982). Altered vitamin B6 metabolism during exercise in man: Effect of carbohydrate modified diets and B6 supplements. *Medicine and Science in Sports and Exercise* 14, 112.
- Hatsell, C.P. (1974). A note on jogging on a windy day. *Institute of Electrical and Electronic Engineer Transactions of Biomedical Engineering* 22, 428–29.
- Hauman, R. (1979). Daar's geen keer aan Wally nie [There is no stopping Wally]. *Topsport* (March), 20–42.
- Hauman, R. (1996). *Century of the Marathon: 1886–1996*. Human and Rousseau, Cape Town, South Africa.
- Hausswirth, C., Bigard, A.X., Berthelot, M., Thomaidis, M., Guezennec, C.Y. (1996). Variability in energy cost of running at the end of a triathlon and a marathon. *International Journal of Sports Medicine* 17, 572–79.
- Hawking, S.W. (1998). *A Brief History of Time*. Bantam Press, London.
- Hawley, J. (2000). Nutritional strategies to enhance fat oxidation during aerobic exercise. In L. Burke, V. Deakin (Eds.), *Clinical Sports Nutrition* (2nd ed.). McGraw-Hill, New South Wales, Australia, 428–49.
- Hawley, J.A., Bosch, A.N., Weltan, S.M., Dennis, S.C., Noakes, T.D. (1994a). Effects of glucose ingestion or glucose infusion on fuel substrate kinetics during prolonged exercise. *European Journal of Applied Physiology* 68, 381–89.

- Hawley, J.A., Bosch, A.N., Weltan, S.M., Dennis, S.C., Noakes, T.D. (1994b). Glucose kinetics during prolonged exercise in hyperglycaemic and euglycaemic subjects. ingestion or glucose infusion on fuel substrate kinetics during prolonged exercise. *Pflügers Archives* 426, 378–86.
- Hawley, J.A., Burke, L. (1998). *Peak Performance*. Allen and Unwin, St. Leonards, New South Wales.
- Hawley, J.A., Dennis, S.C., Lindsay, F.H., Noakes, T.D. (1995). Nutritional practices of athletes: Are they sub-optimal? *Journal of Sports Sciences* 13, S75–81.
- Hawley, J.A., Dennis, S.C., Noakes, T.D. (1992a). Oxidation of carbohydrate ingested during prolonged endurance exercise. *Sports Medicine* 14, 27–42.
- Hawley, J.A., Dennis, S.C., Nowitz, A., Brouns, F., Noakes, T.D. (1992b). Exogenous carbohydrate oxidation from maltose and glucose ingested during prolonged exercise. *European Journal of Applied Physiology* 64, 523–27.
- Hawley, J.A., Myburgh, K.H., Noakes, T.D., Dennis, S.C. (1997). Training techniques to improve fatigue resistance and enhance endurance performance. *Journal of Sports Sciences* 15, 325–33.
- Hawley, J.A., Palmer, G.S., Noakes, T.D. (1997). Effects of 3 days of carbohydrate supplementation on muscle glycogen content and subsequent utilisation during a 1 hr cycle time trial. *European Journal of Applied Physiology* 75, 407–12.
- Hawley, J.A., Schabort, E.J., Noakes, T.D., Dennis, S.C. (1997). Carbohydrate-loading and exercise performance: An update. *Sports Medicine* 24, 73–81.
- Haymes, E.M. (1983). Proteins, vitamins and iron. In M.H. Williams (Ed.), *Ergogenic Aids in Sport*. Human Kinetics, Champaign, IL, 27–55.
- Haymes, E.M. (1984). Physiological responses of female athletes to heat stress: A review. *Physician and Sportsmedicine* 12 (March), 45–59.
- Hazzard, W.R. (1995). Weight control and exercise: Cardinal features of successful preventive gerontology. *Journal of the American Medical Association* 274, 1964–65.
- Head, A., Jakeman, P.M., Kendall, M.J., Cramb, R., Maxwell, S. (1993). The impact of a short course of three lipid lowering drugs on fat oxidation during exercise in healthy volunteers. *Postgraduate Medical Journal* 69, 197–203.
- Heart Outcomes Prevention Evaluation Study Investigators, The. (2000). Vitamin E supplementation and cardiovascular events in high-risk patients. *New England Journal of Medicine* 342, 154–60.
- Heath, E.M., Wilcox, A.R., Quinn, C.M. (1993). Effects of nicotinic acid on respiratory exchange ratio and substrate levels during exercise. *Medicine and Science in Sports and Exercise* 25, 1018–23.
- Heath, G.W., Ford, E.S., Craven, T.E., Macera, C.A., Jackson, K.L., Pate, R.R. (1991). Exercise and the incidence of upper respiratory tract infections. *Medicine and Science in Sports and Exercise* 23, 152–57.
- Heath, G.W., Hagberg, J.M., Eshani, A.A., Holloszy, J.O. (1981). A physiological comparison of young and older endurance athletes. *Journal of Applied Physiology* 51, 634–40.
- Hebert, P.R., Rich-Edwards, J.W., Manson, J.E., Ridker, P.M., Cook, N.R., O'Connor, G.T., Buring, J.E., Hennekens, C.H. (1993). Height and incidence of cardiovascular disease in male physicians. *Circulation* 88, 1437–43.
- Hedblad, B., Ögren, M., Isacson, S.-O., Janzon, L. (1997). Reduced cardiovascular mortality risk in male smokers who are physically active. *Archives of Internal Medicine* 157, 893–99.
- Hegenauer, J., Strauss, J., Saltman, P., Dann, D., White, J., Green, R. (1983). Transitory hematologic effects of moderate exercise are not influenced by iron supplementation. *European Journal of Applied Physiology* 52, 57–61.
- Hein, H.O., Suadicani, P., Gyntelberg, F. (1992). Physical fitness or physical activity as a predictor of ischaemic heart disease? A 17-year follow-up in the Copenhagen male study. *Journal of Internal Medicine* 232, 417–79.
- Heinonen, A., Kannus, P., Sievänen, H., Oja, P., Rinne, M., Uusi-Rasi, K., Vuori, I. (1996). Randomised controlled trial of effect of high-impact exercise on selected risk factors for osteoporotic fractures. *Lancet* 348, 1343–47.
- Heinrich, C.H., Going, S.B., Pamentier, R.W., Perry, C.D., Boyden, T.W., Lohman, T.G. (1990). Bone mineral content of cyclically menstruating female resistance and endurance trained athletes. *Medicine and Science in Sports and Exercise* 22, 558–63.
- Heinzelmann, F., Bagley, R. (1970). Response to physical activity programs and their effect on health behaviour. *Public Health Reports* 85, 905–11.
- Heise, G.D., Martin, P.E. (1998). “Leg” characteristics and the aerobic demand of running. *Medicine and Science in Sports and Exercise* 30, 750–54.
- Heiser, T.M., Weber, J., Sullivan, G., Clare, P., Jacobs, R.R. (1984). Prophylaxis and management of hamstring injuries in intercollegiate football players. *American Journal of Sports Medicine* 12, 368–70.
- Heiss, F. (1971). *Unfallverhütung Beim Sports [Prevention of Accidents in Sport]*. Hoffmann, Schorndorff, Germany.
- Heiss, H.W., Bardmeyer, J., Wink, K., Hell, G., Cerny, F.J., Keul, J., Reindell, H. (1976). Studies on the regulation of myocardial blood flow in man. *Basic Research in Cardiology* 71, 658–75.
- Heitmann, B.L., Kaprio, J., Harris, J.R., Rissanen, A., Korkeila, M., Koskenvuo, M. (1997). Are genetic determinants of weight gain modified by leisure-time physical activity? A prospective study of Finnish twins. *American Journal of Clinical Nutrition* 66, 672–78.
- Helenius, I.J., Tikkanen, H.O., Haahtela, T. (1997). Association between type of training and risk of asthma in elite athletes. *Thorax* 52, 157–60.
- Helge, J.W. (2000). Adaptation to a fat-rich diet. Effects on endurance performance in humans. *Sports Medicine* 30, 347–57.
- Helge, J.W., Richter, E.A., Kiens, B. (1996). Interaction of training and diet on metabolism and endurance during exercise in man. *Journal of Physiology* 492, 293–306.
- Helge, J.W., Wulff, B., Kiens, B. (1998). Impact of a fat-rich diet on endurance in man: Role of the dietary period. *Medicine and Science in Sports and Exercise* 30, 456–61.
- Helgerud, J. (1994). Maximal oxygen uptake, anaerobic threshold and running economy in women and men with similar performance levels in marathons. *European Journal of Applied Physiology* 68, 155–61.
- Hellstedt, J.C. (1988). Kids, parents, and sports: Some questions and answers. *Physician and Sportsmedicine* 16 (April), 59–71.

- Helmrich, S.P., Ragland, D.R., Leung, R.W., Paffenbarger, R.S. (1991). Physical activity and reduced occurrence of non-insulin-dependent diabetes mellitus. *New England Journal of Medicine* 325, 147–52.
- Helmrich, S.P., Ragland, D.R., Paffenbarger, R.S. (1994). Prevention of non-insulin-dependent diabetes mellitus with physical activity. *Medicine and Science in Sports and Exercise* 26, 824–30.
- Hemery, D. (1986). *The Pursuit of Sporting Excellence: A Study of Sport's Highest Achievers*. Willow Books, London.
- Hemilä, H. (1992). Vitamin C and the common cold. *British Journal of Nutrition* 67, 3–16.
- Hemilä, H. (1996a). Vitamin C and common cold incidence: A review of studies with subjects under heavy physical stress. *International Journal of Sports Medicine* 17, 379–83.
- Hemilä, H. (1996b). Vitamin C supplementation and common cold symptoms: Problems with inaccurate reviews. *Nutrition* 12, 804–9.
- Hemilä, H. (1997a). Vitamin C intake and susceptibility to the common cold. *British Journal of Nutrition* 77, 59–72.
- Hemilä, H. (1997b). Vitamin C supplementation and the common cold: Was Linus Pauling right or wrong? *International Journal of Vitamin and Nutrition Research* 67, 329–35.
- Hemilä, H., Douglas, R.M. (1999). Vitamin C and acute respiratory infections. *International Journal of Tuberculosis and Lung Disease* 3, 756–61.
- Hemilä, H., Herman, Z.S. (1995). Vitamin C and the common cold: A retrospective analysis of Chalmers' review. *Journal of the American College of Nutrition* 14, 116–23.
- Henderson, J. (1969). *Long Slow Distance: The Humane Way to Train*. World, Mountain View, CA.
- Henderson, J. (1974). *Run Gently, Run Long*. World, Mountain View, CA.
- Henderson, J. (1976). *The Long Run Solution*. World, Mountain View, CA.
- Henderson, J. (1977). *Jog, Run, Race*. World, Mountain View, CA.
- Henderson, J. (1995). *Did I Win? A Farewell to George Sheehan*. WRS, Waco, TX.
- Henderson, J. (1997). *Marathon Training: The Proven 100-Day Program for Success*. Human Kinetics, Champaign, IL.
- Henderson, J., Maxwell, B. (1978). Training to run and race. In J. Henderson (Ed.), *The Complete Marathoner*. World, Mountain View, CA.
- Henley, K., Vaitukaitis, J.L. (1988). Exercise-induced menstrual dysfunction. *Annual Reviews of Medicine* 39, 443–51.
- Hennekens, C.H., Buring, J.E., Peto, R. (1994). Antioxidant vitamins: Benefits not yet proved. *New England Journal of Medicine* 330, 1080–81.
- Henricson, A.S., Westlin, N.E. (1984). Chronic calcaneal pain in athletes: Entrapment of the calcaneal nerve. *American Journal of Sports Medicine* 12, 152–54.
- Henriksson, J. (1977). Training induce adaptation of skeletal muscle and metabolism during submaximal exercise. *Journal of Physiology* 270, 661–75.
- Henry, S. (1982). The price of perfection. *The Runner* 4 (March), 34–39.
- Herfel, R., Stone, C.K., Koury, S.I., Blake, J.J. (1998). Iatrogenic acute hyponatraemia in a college athlete. *British Journal of Sports Medicine* 32, 257–58.
- Hermansen, L., Hultman, E., Saltin, B. (1967). Muscle glycogen during prolonged severe exercise. *Acta Physiologica Scandinavica* 71, 129–139.
- Hernandez-Avila, M., Colditz, G.A., Stampfer, M.J., Rosner, B., Speizer, F.E., Willett, W.C. (1991). Caffeine, moderate alcohol intake, and risk of fractures of the hip and forearm in middle-aged women. *American Journal of Clinical Nutrition* 54, 157–63.
- Hernelahti, M., Kujala, U.M., Kaprio, J., Karkalainen, J., Sarna, S. (1998). Hypertension in master endurance athletes. *Journal of Hypertension* 16, 1573–77.
- Herring, J.L., Molè, P.A., Meredith, C.N., Stern, J.S. (1992). Effect of suspending exercise training on resting metabolic rate in women. *Medicine and Science in Sports and Exercise* 24, 59–65.
- Hershkowitz, M. (1977). Penile frostbite, an unforeseen hazard of jogging. *New England Journal of Medicine* 296, 178.
- Hertz, E. (1939). *Lincoln Talks*. Viking Press, New York.
- Hertzog, M. (1952). *Annaourna (8000 m)*. Cape, London.
- Hessemer, V., Langusch, D., Bruck, K., Bodeker, R.H., Breidenbach, T. (1984). Effect of slightly lowered body temperatures on endurance performance in humans. *Journal of Applied Physiology* 57, 1731–37.
- Hetland, M.L., Haarbo, J., Christiansen, C. (1993). Low bone mass and high bone turnover in male long distance runners. *Journal of Clinical Endocrinology and Metabolism* 77, 770–75.
- Hevener, A.L., Bergman, R.N., Donovan, C.M. (1997). Novel glucosensor for hypoglycemic detection localized to the portal vein. *Diabetes* 46, 1521–25.
- Hevener, A.L., Bergman, R.N., Donovan, C.M. (2000). Portal vein afferents are critical for the sympathoadrenal response to hypoglycemia. *Diabetes* 49, 8–12.
- Hewson, D.J., Hopkins, W.G. (1995). Prescribed and self-reported seasonal training of distance runners. *Journal of Sports Sciences* 13, 463–70.
- Heyden, S., Fodor, G.J. (1988). Does regular exercise prolong life expectancy? *Sports Medicine* 6, 63–71.
- Hickner, R.C., Fisher, J.S., Hansen, P.A., Racette, S.B., Mier, C.M., Turner, M.J., Holloszy, J.O. (1997). Muscle glycogen accumulation after endurance exercise in trained and untrained individuals. *Journal of Applied Physiology* 83, 897–903.
- Hicks, A.L., McCartney, N. (1996). Gender differences in isometric contractile properties and fatigability in elderly human muscle. *Canadian Journal of Applied Physiology* 21, 441–54.
- Hickson, R.C. (1980). Interference of strength development by simultaneously training for strength and endurance. *European Journal of Applied Physiology* 45, 255–63.
- Hickson, R.C., Bomze, H.A., Holloszy, J.O. (1977). Linear increase in aerobic power induced by a strenuous program of endurance exercise. *Journal of Applied Physiology* 42, 372–76.
- Hickson, R.C., Dvorak, B.A., Gorotiaga, E.M., Kurowski, T.T., Foster, C. (1988). Potential for strength and endurance training to amplify endurance performance. *Journal of Applied Physiology* 65, 2285–90.
- Hickson, R.C., Foster, C., Pollock, M.L., Galassi, T.M., Rich, S. (1985). Reduced training intensities and loss of aerobic power, endurance and cardiac growth. *Journal of Applied Physiology* 58, 492–99.

- Hickson, R.C., Hagberg, J.M., Eshani, A.A., Holloszy, J.O. (1981). Time course of the adaptive responses of aerobic power and heart rate to training. *Medicine and Science in Sports and Exercise* 13, 17–20.
- Hickson, R.C., Kanakis, C., Davis, J.R., Moore, A.M., Rich, S. (1982). Reduced training duration effects on aerobic power, endurance, and cardiac growth. *Journal of Applied Physiology* 53, 225–29.
- Hickson, R.C., Overland, S.M., Dougherty, K.A. (1984). Reduced training frequency effects on aerobic power and muscle adaptations in rats. *Journal of Applied Physiology* 57, 1834–41.
- Hickson, R.C., Rosenkoetter, M. (1981). Reduced training frequencies and maintenance of increased aerobic power. *Medicine and Science in Sports and Exercise* 13, 13–16.
- Hickson, R.C., Rosenkoetter, M.A., Brown, M.M. (1980). Strength training effects on aerobic power and short-term endurance. *Medicine and Science in Sports and Exercise* 12, 336–39.
- Higdon, H. (1981). Shadows on the wall. *The Runner* 4 (November), 46–80.
- Higdon, H. (1982). “Buddy” the forgotten champion. *The Runner* 5 (August), 76–85.
- Higdon, H. (1984). Jim Fixx: How he lived, why he died. *The Runner* 7 (November), 32–38.
- Higdon, H. (1985). To everything a season. *The Runner* 7 (March), 73–95.
- Hikida, R.S., Staron, R.S., Hagerman, F.C., Sherman, W.M., Costill, D.L. (1983). Muscle fibre necrosis associated with human marathon runners. *Journal of Neurological Sciences* 59, 185–203.
- Hildebrandt, W., Schütze, H., Stegemann, J. (1993). Higher capillary filtration rate in the calves of endurance-trained subjects during orthostatic stress. *Aviation and Space Environmental Medicine* 64, 380–85.
- Hill, A.V. (1925). The physiological basis of athletic records. *Lancet* 2, 481–86.
- Hill, A.V. (1927a). *Living Machinery*. Bell and Sons, London.
- Hill, A.V. (1927b). *Muscular Movement in Man: The Factors Governing Speed and Recovery From Speed*. McGraw-Hill, New York.
- Hill, A.V. (1965). *Trails and Trials in Physiology*. Arnold, London.
- Hill, A.V., Long, C.N.H., Lupton, H. (1924a). Muscular exercise, lactic acid, and the supply and utilization of oxygen: Parts I–III. *Proceedings of the Royal Society of Britain* 97, 438–75.
- Hill, A.V., Long, C.N.H., Lupton, H. (1924b). Muscular exercise, lactic acid, and the supply and utilization of oxygen: Parts IV–VI. *Proceedings of the Royal Society of Britain* 97, 84–138.
- Hill, A.V., Long, C.N.H., Lupton, H. (1925). Muscular exercise, lactic acid and the supply and utilization of oxygen: Parts VII–VIII. *Proceedings of the Royal Society* 97, 155–76.
- Hill, A.V., Lupton, H. (1923). Muscular exercise, lactic acid and the supply and utilization of oxygen. *Quarterly Medical Journal* 16, 135–71.
- Hill, D.W., Borden, D.O., Darnaby, K.M., Hendricks, D.N., Hill, C.M. (1992). Effect of time of day on aerobic and anaerobic responses to high-intensity exercise. *Canadian Journal of Sport Science* 17, 316–19.
- Hill, D.W., Smith, J.C. (1991). Circadian rhythm in anaerobic power and capacity. *Canadian Journal of Sport Science* 16, 30–32.
- Hill, J.O., Commerford, R. (1996). Physical activity, fat balance, and energy balance. *International Journal of Sport Nutrition* 6, 80–92.
- Hill, J.O., Davis, J.R., Tagliaferro, A.R. (1983). Effects of diet and exercise training on thermogenesis in adult female rats. *Physiology of Behaviour* 31, 133–35.
- Hill, J.O., Sparling, P.B., Shields, T.W., Heller, P.A. (1987). Effects of exercise and food restriction on body composition and metabolic rate in obese women. *American Journal of Clinical Nutrition* 46, 622–30.
- Hill, L., Flack, M., Just, T.H. (1908). The influence of oxygen inhalations on athletes. *British Medical Journal* 2, 499–500.
- Hill, R. (1981). *The Long Hard Road: Part One. Nearly to the Top*. Hill Sports, Cheshire, England.
- Hill, R. (1982). *The Long Hard Road: Part Two. To the Peak and Beyond*. Hill Sports, Cheshire, England.
- Hill, R.C. (1998). The nutritional requirements of exercising dogs. *Journal of Nutrition* 128, 2686S–90S.
- Hiller, D. (1993). Hyponatremia in sport: Symptoms and prevention. *Sports Science Exchange Roundtable* 4, 2.
- Hiller, W.D.B. (1988). The United States triathlon series: Medical considerations. In *Medical Coverage of Endurance Athletic Events*. Ross Laboratories, Columbus, OH, 80–81.
- Hiller, W.D.B. (1989). Dehydration and hyponatremia during triathlons. *Medicine and Science in Sports and Exercise* 21 (Suppl), 219–21.
- Hiller, W.D.B., O’Toole, M.L., Massimosinos, F., Hiller, R.E., Laird, R.H. (1985). Plasma electrolyte and glucose changes during the Hawaiian Ironman Triathlon. *Medicine and Science in Sports and Exercise* 17 (Suppl), 219.
- Hilsendager, D., Karpovich, P. (1964). Ergogenic effect of glycine and niacin separately and in combination. *Research Quarterly* 35, 389–94.
- Himann, J.E., Cunningham, D.A., Rechnitzer, P.A., Pateron, D.H. (1988). Age-related changes in speed of walking. *Medicine and Science in Sports and Exercise* 20, 161–66.
- Hinchcliff, K.W., Reinhart, G.A., Burr, J.R., Schreiber, C.J., Swenson, R.A. (1997). Metabolizable energy intake and sustained energy expenditure of Alaskan sled dogs during heavy exertion in the cold. *American Journal of Veterinary Research* 58, 1457–62.
- Hines, L.M., Stampfer, M.J., Ma, J., Gaziano, J.M., Ridker, P.M., Hankinson, S.E., Sacks, F., Rimm, E.B., Hunter, D.J. (2001). Genetic variation in alcohol dehydrogenase and the beneficial effect of moderate alcohol consumption on myocardial infarction. *New England Journal of Medicine* 344, 549–55.
- Hintermann, B., Nigg, B.M. (1998). Pronation in runners: Implications for injuries. *Sports Medicine* 26, 169–76.
- Hippisley-Cox, J., Fielding, K., Pringle, M. (1998). Depression as a risk factor for ischaemic heart disease in men: Population based case-control study. *British Medical Journal* 316, 1714–19.
- Hitchins, S., Martin, D.T., Burke, L., Yates, K., Fallon, K., Hahn, A., Dobson, G.P. (1999). Glycerol hyperhydration improves cycle time trial performance in hot humid conditions. *European Journal of Applied Physiology* 80, 494–501.

- Hofmann, P., Pokan, R., Preidler, K., Leitner, H., Szolar, D., Eber, B., Schwaberger, G. (1994). Relationship between heart rate threshold, lactate turn point and myocardial function. *International Journal of Sports Medicine* 15, 232–37.
- Hofmann, P., Pokan, R., von Duvillard, S.P., Siebert, F.J., Sweiker, R., Schmid, P. (1997). Heart rate performance curve during incremental cycle ergometer exercise in healthy young male subjects. *Medicine and Science in Sports and Exercise* 29, 762–68.
- Holloszy, J.O., Coyle, E.F. (1984). Adaptations of skeletal muscle to endurance exercise and their metabolic consequences. *Journal of Applied Physiology* 56, 831–38.
- Holmes, B. (1986). Steve Jones finds his wings. *South African Runner* (January), 28–29.
- Holmes, D.S., Roth, D.L. (1988). Effects of aerobic exercise training and relaxation training on cardiovascular activity during psychological stress. *Journal of Psychosomatic Research* 32, 469–74.
- Holmich, P., Uhrskou, P., Ulnits, L., Kanstrup, I.L., Nielsen, M.B., Bjerg, A.M., Krosgaard, K. (1999). Effectiveness of active physical training as treatment for long-standing adductor-related groin pain in athletes: Randomised trial. *Lancet* 353, 439–43.
- Holt, M.A., Keene, J.S., Graf, B.K., Helwig, D.C. (1995). Treatment of osteitis pubis in athletes: Results of corticosteroid injections. *American Journal of Sports Medicine* 23, 601–6.
- Holtzhausen, L.-M., Noakes, T.D. (1992). Stress fracture of the sacrum in two distance runners. *Clinical Journal of Sports Medicine* 2, 139–42.
- Holtzhausen, L.-M., Noakes, T.D. (1995). The prevalence and significance of post-exercise (postural) hypotension in ultramarathon runners. *Medicine and Science in Sports and Exercise* 27, 1595–601.
- Holtzhausen, L.-M., Noakes, T.D. (1997). Collapsed ultradistance athlete: Proposed mechanisms and an approach to management. *Clinical Journal of Sports Medicine* 7, 292–301.
- Holtzhausen, L.-M., Noakes, T.D., Kroning, B., De Klerk, M., Roberts, M., Emsley, R. (1994). Clinical and biochemical characteristics of collapsed ultra-marathon runners. *Medicine and Science in Sports and Exercise* 26, 1095–101.
- Homer, C.J., Beresford, S.A., James, S.A., Slegel, E., Wilcox, S. (1990). Work-related physical exertion and risk of preterm, low birthweight delivery. *Paediatric Perinatal Epidemiology* 14, 161–74.
- Honigman, B., Cromer, R., Kurt, T.L. (1982). Carbon monoxide levels in athletes during exercise in an urban environment. *Journal of the Air Pollution Control Association* 32, 77–79.
- Hood, S., Northcote, R. (1999). Cardiac assessment of veteran endurance athletes: A 12 year follow up study. *British Journal of Sports Medicine* 33, 239–43.
- Hoogeveen, A.R., Schep, G. (1997). The plasma lactate response to exercise and endurance performance: Relationships in elite triathletes. *International Journal of Sports Medicine* 18, 526–30.
- Hooper, S.L., Mackinnon, L.T. (1995). Monitoring overtraining in athletes. *Sports Medicine* 20(5), 321–27.
- Hooper, S.L., Mackinnon, L.T., Gordon, R.D., Bachmann, A.W. (1993). Hormonal responses of elite swimmers to overtraining. *Medicine and Science in Sports and Exercise* 25, 741–47.
- Hooper, S.L., Mackinnon, L.T., Howard, A., Gordon, R.D., Bachmann, A.W. (1995). Markers for monitoring overtraining and recovery. *Medicine and Science in Sports and Exercise* 27, 106–12.
- Hopkins, J. (1966). *The Marathon*. Stanley Paul, London.
- Hopkins, P., Powers, S.K. (1982). Oxygen uptake during submaximal running in highly trained men and women. *American Corrective Therapy Journal* 36, 130–32.
- Hoppeler, H., Billeter, R., Horvath, P.J., Leddy, J.J., Pendergast, D.R. (1999). Muscle structure with low- and high-fat diets in well-trained male runners. *International Journal of Sports Medicine* 20, 522–26.
- Horber, F.F., Kohler, S.A., Lippuner, K., Jaeger, P. (1996). Effect of regular physical training on age-associated alteration of body composition in men. *European Journal of Clinical Investigation* 26, 279–85.
- Hornbein, T.F. (1980). *Everest: The West Ridge*. Mountaineers, San Francisco.
- Horns, P.N., Ratcliffe, L.P., Leggett, J.C., Swanson, M.S. (1996). Pregnancy outcomes among active and sedentary primiparous women. *Journal of Obstetrics, Gynecology and Neonatal Nursing* 25, 49–54.
- Horowitz, J.F., Coyle, E.F. (1993). Metabolic responses to pre-exercise meals containing various carbohydrates and fat. *American Journal of Clinical Nutrition* 58, 235–41.
- Horswill, C., Costill, D., Fink, W., Flynn, M., Kirwan, J., Mitchell, J., Houmard, J. (1988). Influence of sodium bicarbonate on sprint performance: Relationship to dosage. *Medicine and Science in Sports and Exercise* 20, 566–69.
- Horton, T.J., Pagliassotti, M.J., Hobbs, K., Hill, J.O. (1998). Fuel metabolism in men and women during and after long-duration exercise. *Journal of Applied Physiology* 85, 1823–32.
- Horvath, S.M., Horvath, E.C. (1973). *The Harvard Fatigue Laboratory: Its History and Contributions*. Prentice Hall, Englewood Cliffs, NJ.
- Horvath, S.M., Raven, P.B., Dahms, T.E., Gray, D.J. (1975). Maximal aerobic capacity at different levels of carboxyhemoglobin. *Journal of Applied Physiology* 38, 300–3.
- Houmard, J.A. (1991). Impact of reduced training and tapering on performance in endurance athletes. *Sports Medicine* 12, 380–93.
- Houmard, J.A., Costill, D.L., Mitchell, J.B., Park, S.H., Hickner, R.C., Roemmich, J.N. (1990). Reduced training maintains performance in distance runners. *International Journal of Sports Medicine* 11, 46–52.
- Houmard, J.A., Egan, P.C., Johns, R.A., Neuffer, P.D., Chenier, T.C., Israel, R.G. (1991). Gastric emptying during 1 h of cycling and running at 75%  $\dot{V}O_2$ max. *Medicine and Science in Sports and Exercise* 23, 320–25.
- Houmard, J.A., Hortobagyi, T., Johns, R.A., Bruno, N.J., Nute, C.C., Shinebarger, M.H., Welborn, J.W. (1992). Effect of short-term training cessation on performance measures in distance runners. *International Journal of Sports Medicine* 13, 572–76.
- Houmard, J.A., Kirwan, J.P., Flynn, M.G., Mitchell, J.B. (1989). Effects of reduced training on submaximal and maximal running responses. *International Journal of Sports Medicine* 10, 30–33.



- Houmard, J.A., Scott, B.K., Justice, C.L., Chenier, T.C. (1994). The effects of taper on performance in distance runners. *Medicine and Science in Sports and Exercise* 26, 624–31.
- Houmard, J.A., Weidner, M.L., Gavigan, K.E., Tyndall, G.L., Hickey, M.S., Alshami, A. (1998). Fiber type and citrate synthase activity in the human gastrocnemius and vastus lateralis with aging. *Journal of Applied Physiology* 85, 1337–41.
- Housley, E., Leng, G.C., Donnan, P.T., Fowkes, F.G. (1993). Physical activity and risk of peripheral arterial disease in the general population: Edinburgh Artery Study. *Journal of Epidemiology and Community Health* 47, 475–80.
- Houtkooper, L.B. (1998). Exercise and eating disorders. In D.R. Lamb, R. Murray (Eds.), *Perspective in Exercise Science and Sports Medicine: Volume II. Exercise, Nutrition and Weight Control*. Cooper, Carmel, IN, 151–90.
- Howard, H., von Glutz, G., Billeter, R. (1978). Energy stores and substrate utilization in muscle during exercise. In F. Landry, W.A.R. Orban (Eds.), *The Third International Symposium on Biochemistry of Exercise*. Miami Symposia Specialists, Miami, 75–86.
- Howard, J.H., Cunningham, D.A., Rechnitzer, P.A. (1984). Physical activity as a moderator of life events and somatic complaints: A longitudinal study. *Canadian Journal of Applied Sport Science* 9, 194–200.
- Howat, P.M., Carbo, M.L., Mills, G.Q., Wozniak, P. (1989). The influence of diet, body fat, menstrual cycling, and activity upon the bone density of females. *Journal of the American Dietetic Association* 89, 1305–7.
- Howell, R. (1982). *Her Story in Sport: A Historical Anthology of Women in Sports*. Leisure Press, West Point, NY.
- Hreljac, A., Marshall, R.N., Hume, P.A. (2000). Evaluation of lower extremity overuse injury potential in runners. *Medicine and Science in Sports and Exercise* 32, 1635–41.
- Hu, F.B., Stampfer, M.J., Manson, J.E., Rimm, E.B., Colditz, G.A., Rosner, B.A., Speizer, F.E., Henkens, C.H., Willett, W.C. (1998). Frequent nut consumption and risk of coronary heart disease in women: Prospective cohort study. *British Medical Journal* 317, 1341–45.
- Hubbard, R.W., Armstrong, L.E. (1988). The heat illnesses: Biochemical, ultrastructural, and fluid-electrolyte considerations. In K.B. Pandolf, M.N. Saka, R.R. Gonzalez (Eds.), *Human Performance Physiology and Environmental Medicine at Terrestrial Extremes*. Benchmark Press, Indianapolis, 305–59.
- Hubbard, R.W., Armstrong, L.E. (1989). Hyperthermia: New thoughts on an old problem. *Physician and Sportsmedicine* 17, 97–113.
- Hughes, H.G. (1996). The effects of static stretching on the hamstring musculotendinous unit. MSc thesis, University of Cape Town, Cape Town, South Africa.
- Hughson, R.L. (1980). Primary prevention of heat stroke in Canadian long-distance runs. *Canadian Medical Association Journal* 122, 1115–19.
- Hughson, R.L., Staudt, L.A., Mackie, J.M. (1983). Monitoring road racing in the heat. *Physician and Sportsmedicine* 11 (May), 94–105.
- Hughson, R.L., Weisiger, K.H., Swanson, G.D. (1987). Blood lactate concentration increases as a continuous function in progressive exercise. *Journal of Applied Physiology* 62, 1975–81.
- Hulkko, A., Orava, S. (1987). Stress fractures in athletes. *International Journal of Sports Medicine* 8, 221–26.
- Hultman, E. (1967). Studies on muscle metabolism of glycogen and active phosphate in man with special reference to exercise and diet. *Scandinavian Journal of Clinical and Laboratory Investigation Supplement* 94, 1–63.
- Hultman, E. (1971). Muscle glycogen stores and prolonged exercise. In R.J. Shephers (Ed.), *Frontiers of Fitness*. Thomas, Springfield, IL.
- Hultman, E., Del Canale, S., Sjöholm, H. (1985). Effect of induced metabolic acidosis on intracellular pH, buffer capacity and contraction force of human skeletal muscle. *Clinical Science* 69, 505–10.
- Hultman, E., Nilsson, L.H. (1971). Liver glycogen in man: Effects of different diets and muscular exercise. In B. Pernow, B. Saltin (Eds.), *Muscle Metabolism During Exercise*. Plenum Press, New York, 69–85.
- Hultman, E., Spriet, L.L., Sodelund, K. (1987). Energy metabolism and fatigue in working muscle. In D. Macleod, R. Maughan, M. Nimmo, T. Reilly, C. Williams (Eds.), *Exercise Benefits, Limits and Adaptations*. Spon, London, 63–84.
- Hunt, J.N. (1963). The duodenal regulation of gastric emptying. *Gastroenterology* 45, 149–56.
- Hunter, A.M., Gibson, A.S., Collins, M., Lambert, M., and Noakes, T.D. (2002). Caffeine ingestion does not alter performance during a 100-km cycling time-trial performance. *International Journal of Nutrition and Exercise Metabolism* 12, 438–52.
- Hunter, G.R., Kekes-Szabo, T., Snyder, S.W., Nicholson, C., Nyikos, I., Berland, L. (1997). Fat distribution, physical activity, and cardiovascular risk factors. *Medicine and Science in Sports and Exercise* 29, 362–69.
- Huntford, R. (1985). *The Last Place on Earth*. Pan Books, London.
- Huntford, R. (2000). *The Last Place on Earth: Scott and Amundsen's race to the South Pole*. London: Abacus.
- Hurley, B.F., Nemeth, P.M., Martin III, W.H., Hagberg, J.M., Dalsky, G.P., Holloszy, J.O. (1986). Muscle triglyceride utilization during exercise: Effect of training. *Journal of Applied Physiology* 60, 562–67.
- Ibbotson, D. (1960). *The 4-Minute Smiler: The Derek Ibbotson Story*. Stanley Paul, London.
- Ijzerman, J.C., van Galen, W.C.C. (1987). *Blessures bij Lange Afstandlopers*. KNAU, Den Haag.
- Iknoian, T. (1998). Walking. In E.R. Burke (Ed.), *Precision Heart Rate Training*. Human Kinetics, Champaign, IL, 43–64.
- Ilahi, O.A., Kohl, H.W. (1998). Lower extremity morphology and alignment and risk of overuse injury. *Clinical Journal of Sports Medicine* 8, 38–42.
- Imeokparia, R.L., Barrett, J.P., Arrieta, M.I., Leaverton, P.E., Wilson, A.A., Hall, B.J., Marlowe, S.M. (1994). Physical activity as a risk factor for osteoarthritis of the knee. *Annals of Epidemiology* 4, 221–30.
- Inbar, O., Weiner, P., Azgad, Y., Rotstein, A., Weinstein, Y. (2000). Specific inspiratory muscle training in well-trained endurance athletes. *Medicine and Science in Sports and Exercise* 32, 1233–37.
- Insall, J., Falvo, J., Wise, D.W. (1976). Chondromalacia patellae: A prospective study. *Journal of Bone and Joint Surgery (Am)* 58, 1–8.

- Ippolito, E., Natali, P.G., Postacchini, F., Accini, L., De Martini, C. (1980). Morphological, immunochemical and biochemical study of rabbit Achilles tendon at various ages. *Journal of Bone and Joint Surgery* 62A, 583–98.
- Irving, R.A., Buck, R.H., Godlonton, J., Noakes, T.D. (1991). Evaluation of renal function and fluid homeostasis during recovery from exercise induced hyponatremia. *Journal of Applied Physiology* 70, 342–48.
- Irving, R.A., Noakes, T.D., Burger, S.C., Myburgh, K.H., Querido, D., van Zyl Smit, R. (1990a). Plasma volume and renal function during and after ultramarathon running. *Medicine and Science in Sports and Exercise* 22, 581–87.
- Irving, R.A., Noakes, T.D., Irving, G.A., van Zyl Smit, R. (1986a). The immediate and delayed effects of marathon running on renal function. *Journal of Urology* 136, 1176–80.
- Irving, R.A., Noakes, T.D., Raine, R., van Zyl Smit, R. (1990b). Transient oliguric renal failure after a 90-km ultramarathon running race. *Medicine and Science in Sports and Exercise* 22, 756–61.
- Irving, R.A., Noakes, T.D., Rodgers, A.L., Swartz, L. (1986b). Crystalluria in Marathon runners: I. Standard marathon—males. *Urological Research* 14, 289–94.
- Irving, R.A., Noakes, T.D., van Zyl Smit, R. (1989). Metabolic and renal changes in two athletes during a world 24 hour relay record performance. *British Journal of Sports Medicine* 23, 227–32.
- ISIS-2 (Second International Study of Infarct Survival) Collaborative Group. (1988). Randomised trial of intravenous streptokinase, oral aspirin, both, or neither among 17,187 cases of suspected acute myocardial infarction: ISIS-2. *Lancet* 2, 349–60.
- Ismail, A.H., El-Naggar, A.M. (1981). Effect of exercise on cognitive processing in adult men. *Journal of Human Ergology* 10, 83–91.
- Ismail, A.H., Trachtman, L.E. (1973). Jogging the imagination. *Psychology Today* 6, 79–82.
- Israel, D.H., Gorlin, R. (1991). Fish oils in the prevention of atherosclerosis. *Journal of the American College of Cardiology* 19, 174–85.
- Ivy, J.L. (1991). Muscle glycogen synthesis before and after exercise. *Sports Medicine* 11, 6–19.
- Ivy, J.L., Chi, M.M., Hintz, C.S., Sherman, W.M., Hellendall, R.P., Lowry, O.H. (1987). Progressive metabolite changes in individual human muscle fibers with increasing work rates. *American Journal of Physiology* 252, C630–39.
- Ivy, J.L., Costill, D.L., Fink, W.J., Maglischo, E. (1980). Contribution of medium and long chain triglyceride intake to energy metabolism during prolonged exercise. *International Journal of Sports Medicine* 1, 15–20.
- Ivy, J.L., Katz, A.L., Cutler, C.L., Sherman, W.M., Coyle, E.F. (1988). Muscle glycogen synthesis after exercise: Effect of time of carbohydrate ingestion. *Journal of Applied Physiology* 64, 1480–85.
- Ivy, J.L., Miller, W., Dover, V., Goodyear, L.G., Sherman, W.M., Farrell, S., Williams, H. (1983). Endurance improved by ingestion of a glucose polymer supplement. *Medicine and Science in Sports and Exercise* 15, 466–71.
- Jackman, M., Wendling, P., Friars, D., Graham, T. (1996). Metabolic, catecholamine, and endurance responses to caffeine during intense exercise. *Journal of Applied Physiology* 81, 1658–63.
- Jackson, D.L., Haglund, B. (1991). Tarsal tunnel syndrome in athletes: Case reports and literature review. *American Journal Sports Medicine* 19, 61–65.
- Jackson, M.J. (1987). Muscle damage during exercise: Possible role of free radicals and protective effect of vitamin E. *Proceedings of the Nutrition Society* 46, 77–80.
- Jackson, S.A., Csikszentmihalyi, M. (1999). *Flow in Sports*. Human Kinetics, Champaign, IL.
- Jackson, W.P.U. (1977). *Wild Flowers of Table Mountain*. Timmins, Cape Town, South Africa.
- Jacobs, I. (1987). Influence of carbohydrate stores on maximal human power output. In D. Macleod, R. Maughan, M. Nimmo, T. Reilly, C. Williams (Eds.), *Exercise Benefits, Limits and Adaptations*. Spon, London, 104–15.
- Jacobs, I. (1999). Dietary creatine monohydrate supplementation. *Canadian Journal of Applied Physiology* 24, 503–14.
- Jacobs, P. (1984). The physiology of iron metabolism. *South African Journal of Continuing Medical Education* 2 (July), 123–29.
- Jacobs, S.J., Berson, B.L. (1986). Injuries to runners: A study of entrants to a 10,000 meter race. *American Journal of Sports Medicine* 14, 151–55.
- Jacobson, E. (1929). *Progressive Relaxation*. University of Chicago Press, Chicago.
- Jaglal, S.B., Kreiger, N., Darlington, G. (1993). Past and recent physical activity and risk of hip fracture. *American Journal of Epidemiology* 138, 107–18.
- Jaglal, S.B., Kreiger, N., Darlington, G.A. (1995). Lifetime occupational physical activity and risk of hip fracture in women. *Annals of Epidemiology* 5, 321–24.
- Jain, P.C. (1980). On a discrepancy in track races. *Research Quarterly for Exercise and Sport* 51, 432–36.
- Jakeman, P. (1993). A longitudinal study of exercise metabolism during recovery from viral illness. *British Journal of Sports Medicine* 27, 157–61.
- Jakobsson, F., Borg, K., Edstrom, L. (1990). Fibre-type composition, structure and cytoskeletal protein location of fibres in anterior tibial muscle. *Acta Neuropathologica* 80, 459–68.
- James, S.L., Bates, B.T., Osternig, L.R. (1978). Injuries to runners. *American Journal of Sports Medicine* 6, 40–50.
- James, W. (1958). *Talks to Teachers*. Norton, New York.
- James, W.H. (2000). Hormones, offspring sex ratios, and weekly training distances of male runners: Implications for overtraining. *British Journal of Sports Medicine* 34, 474.
- Janal, M.N., Colt, E.W.D., Clark, W.C., Glusman, M. (1984). Pain sensitivity, mood and plasma endocrine levels in man following long-distance running: Effects of naloxone. *Pain* 19, 13–25.
- Jandrain, B., Krzentowski, G., Pirnay, F., Mosora, F., Lacroix, M., Lyckx, A., Lefévre, P. (1984). Metabolic availability of glucose ingested 3 hours before prolonged exercise in humans. *Journal of Applied Physiology* 56, 1314–19.
- Jandrain, B.J., Pallikarakis, N., Normand, S., Pirnay, F., Lacroix, M., Mosora, F., Pachiaudi, C., Gautier, J.F., Scheen, A.J., Riou, J.P., Lefévre, P.J. (1993). Fructose utilization during exercise in men: Rapid conversion of ingested fructose to circulating glucose. *Journal of Applied Physiology* 74, 2146–54.

- Jansson, E., Kaijser, L. (1977). Muscle adaptation to extreme endurance training in man. *Acta Physiologica Scandinavica* 100, 315–24.
- Jansson, E., Kaijser, L. (1982). Effect of diet on the utilization of blood-borne and intramuscular substrate during exercise in man. *Acta Physiologica Scandinavica* 115, 19–30.
- Janz, K.F., Dawson, J.D., Mahoney, L.T. (2000). Tracking physical fitness and physical activity from childhood to adolescence: The Muscatine study. *Medicine and Science in Sports and Exercise* 32, 1250–57.
- Jardine, M.A., Wiggins, T.M., Myburgh, K.H., Noakes, T.D. (1988). Physiological characteristics of rugby players including muscle glycogen content and muscle fibre composition. *South African Medical Journal* 73, 529–32.
- Jardon, O.M. (1982). Physiologic stress, heat stroke, malignant hyperthermia: A perspective. *Military Medicine* 147, 8–14.
- Jarrett, J.C., Spellacy, W.N. (1983a). Contraceptive practices of female runners. *Fertility and Sterility* 39, 374–75.
- Jarrett, J.C., Spellacy, W.N. (1983b). Jogging during pregnancy: An improved outcome? *Obstetrics and Gynecology* 61, 705–9.
- Javierre, C., Calvo, M., Diez, A., Garrido, E., Segura, R., Ventura, J.L. (1996). Influence of sleep and meal schedules on performance peaks in competitive sprinters. *International Journal of Sports Medicine* 17, 404–8.
- Jenkins, D.G., Palmer, J., Spillman, D. (1993). The influence of dietary carbohydrate on performance of supramaximal intermittent exercise. *European Journal of Applied Physiology* 67, 309–14.
- Jennings, G., Nelson, L., Korner, P., Esler, M. (1987). The place of exercise in the long-term treatment of hypertension. *Nephron* 47 (Suppl 1), 30–33.
- Jensen, C.D., Zaltas, E.S., Whittam, J.H. (1992). Dietary intakes of male endurance cyclists during training and racing. *Journal of the American Dietetic Association* 92, 986–88.
- Jensen, K., Johansen, L., Kärkkäinen, O.-P. (1999). Economy in track runners and orienteers during path and terrain running. *Journal of Sports Sciences* 17, 945–50.
- Jensen, K., Nielsen, T.S., Fiskestrand, A., Lund, J.O., Christensen, N.J., Secher, N.H. (1993). High-altitude training does not increase maximal oxygen uptake or work capacity at sea level in rowers. *Scandinavian Journal of Science and Medicine in Sports* 3, 256–62.
- Jensen-Urstad, M., Bouvier, F., Nejat, M., Saltin, B., Brodin, L.A. (1998). Left ventricular function in endurance runners during exercise. *Acta Physiologica Scandinavica* 164, 167–72.
- Jett, M., Pelletier, O., Parker, L., Thoden, J. (1978). The nutritional and metabolic effects of a carbohydrate-rich diet in a glycogen supercompensation training regimen. *American Journal of Clinical Nutrition* 31, 2140–48.
- Jeukendrup, A., Brouns, F., Wagenmakers, A.J.M., Saris, W.H.M. (1997). Carbohydrate-electrolyte feedings improve 1 h time trial cycling performance. *International Journal of Sports Medicine* 18, 125–29.
- Jeukendrup, A.E., Borghouts, L.B., Saris, W.H.M., Wagenmakers, A.J.M. (1996). Reduced oxidation rates of ingested glucose during prolonged exercise with low endogenous CHO availability. *Journal of Applied Physiology* 81, 1952–57.
- Jeukendrup, A.E., Jentjens, R. (2000). Oxidation of carbohydrate feedings during prolonged exercise. *Sports Medicine* 29, 407–24.
- Jeukendrup, A.E., Mensink, M., Saris, W.H.M., Wagenmakers, A.J.M. (1997). Exogenous glucose oxidation during exercise in endurance-trained and untrained subjects. *Journal of Applied Physiology* 82, 835–40.
- Jeukendrup, A.E., Raben, A., Gijzen, A., Stegen, J.H., Brouns, F., Saris, W.H. Wagenmakers, A.J. (1999). Glucose kinetics during prolonged exercise in highly trained human subjects: Effect of glucose ingestion. *Journal of Physiology* 515, 579–89.
- Jeukendrup, A.E., Saris, W.H.M., Brouns, F., Halliday, D., Wagenmakers, A.J.M. (1996a). Carbohydrate (CHO) metabolism after ingestion of CHO and medium chain triglycerides (MCT) during prolonged exercise. *Metabolism* 45, 915–21.
- Jeukendrup, A.E., Saris, W.H.M., Schrauwen, P., Brouns, F., Wagenmakers, A.J.M. (1995). Metabolic availability of oral medium chain triglycerides co-ingested with carbohydrates during prolonged exercise. *Journal of Applied Physiology* 79, 756–62.
- Jeukendrup, A.E., Saris, W.H.M., van Diesen, R., Brouns, F., Wagenmakers, A.J.M. (1996b). Effect of endogenous carbohydrate availability on oral medium-chain triglyceride oxidation during prolonged exercise. *Journal of Applied Physiology* 80, 949–54.
- Jeukendrup, A.E., Thielen, J.J.H.C., Wagenmakers, A.J.M., Brouns, F., Saris, W.H.M. (1998). Effect of medium-chain triacylglycerol and carbohydrate ingestion during exercise on substrate utilization and subsequent cycling performance. *American Journal of Clinical Nutrition* 67, 397–404.
- Jeukendrup, A.E., Wagenmakers, A.J., Stegen, J.H., Gijzen, A.P., Brouns, F., Saris, W.H. (1999). Carbohydrate ingestion can completely suppress endogenous glucose production during exercise. *American Journal of Physiology* 276, E672–83.
- Johannessen, A., Hagen, C., Galbo, H. (1981). Prolactin, growth hormone, thyrotropin, 3,5,3'-triiodothyronine, and thyroxine responses to exercise after fat- and carbohydrate-enriched diet. *Journal of Clinical Endocrinology and Metabolism* 52, 56–61.
- Johanson, D.P., Eastwood, D.M., Witherow, P.J. (1993). Symptomatic synovial plicae of the knee. *Journal of Bone and Joint Surgery* 75A, 1485–96.
- Johnson, C.C., Slemenda, C. (1987). Osteoporosis: An overview. *Physician and Sportsmedicine* 15 (November), 65–68.
- Johnson, L.C. (1964). Morphologic analysis in pathology. In H.M. Frost (Ed.), *Bone Biodynamics*. Little, Brown, Boston, 587–95.
- Johnson, L.C., Stradford, H.T., Geis, R.W., Dineen, J.R., Kerley, E. (1963). Histogenesis of stress fractures. *Journal of Bone and Joint Surgery* 45A, 1542.
- Joint National Committee. (1988). The 1988 report of the Joint National Committee on detection, evaluations and treatment of high blood pressure. *Archives of Internal Medicine* 178, 1023–38.
- Jokl, E., Anand, R.L., Stobody, H. (1976). Advances in exercise physiology. *Medicine and Sport* 9, x–xx.

- Jones, A.M., Doust, J.H. (1995). Lack of reliability in Conconi's heart rate deflection point. *International Journal of Sports Medicine* 16, 541-44.
- Jones, A.M., Doust, J.H. (1997). The Conconi test is not valid for estimation of the lactate turnpoint in runners. *Journal of Sports Sciences* 15, 385-94.
- Jones, A.M., Doust, J.H. (1998). The validity of the lactate minimum test for determination of the maximal lactate steady state. *Medicine and Science in Sports and Exercise* 30, 1304-13.
- Jones, B.H., Cowan, D.N., Knapik, J.J. (1994). Exercise, training and injuries. *Sports Medicine* 18, 202-14.
- Jones, B.H., Cowan, D.N., Tomlinson, J.P., Robinson, J.R., Polly, D.W., Frykman, P.N. (1993). Epidemiology of injuries associated with physical training among young men in the army. *Medicine and Science in Sports and Exercise* 25, 197-203.
- Jones, B.H., Knapik, J.J., Daniels, W.L., Toner, M.M. (1986). The energy cost of walking and running in shoes and boots. *Ergonomics* 29, 439-43.
- Jones, B.H., Toner, M.M., Daniels, W.L., Knapik, J.J. (1984). The energy cost and heart rate response of trained and untrained subjects walking and running in shoes and boots. *Ergonomics* 27, 895-902.
- Jones, B.J.M., Brown, B.E., Loran, J.S., Edgerton, D., Kennedy, J.F., Stead, J.A., Silk, D.B.A. (1983). Glucose absorption from starch hydrolysates in the human jejunum. *Gut* 24, 1152-60.
- Jones, B.J.M., Higgins, B.E., Silk, D.B.A. (1987). Glucose absorption from maltotriose and glucose oligomers in the human jejunum. *Clinical Science* 72, 409-14.
- Jones, D.A., Newham, D.J., Clarkson, P.M. (1987). Skeletal muscle stiffness and pain following eccentric exercise of the elbow flexors. *Pain* 30, 233-42.
- Jones, D.A., Newham, D.J., Round, J.M., Tolfree, S.E.J. (1986). Experimental human muscle damage: Morphological changes in relation to other indices of damage. *Journal of Physiology* 375, 435-48.
- Jones, K.P., Ravnkar, V.A., Tulchinsky, D., Schiff, I. (1985). Comparison of bone density in amenorrheic women due to athletics, weight loss, and premature menopause. *Obstetrics and Gynecology* 66, 5-8.
- Jones, R.L., Botti, J.J., Anderson, W.M., Bennett, N.L. (1985). Thermoregulation during aerobic exercise in pregnancy. *Obstetrics and Gynecology* 65, 340-45.
- Jönhagen, S., Németh, G., Eriksson, E. (1994). Hamstring injuries in sprinters. *American Journal of Sports Medicine* 22, 262-66.
- Jooste, P.L. Van der Linde, A., Strydom, N.B. (1980). Prediction of Comrades Marathon performance. *South African Journal for Research in Sport, Physical Education and Recreation* 3, 47-54.
- Jopke, T. (1983). Pregnancy: A time to exercise judgement. *Physician and Sportsmedicine* 11 (July), 139-45.
- Jorgensen, U. (1985). Achillodynia and loss of heel pad shock absorbcency. *American Journal of Sports Medicine* 13, 128-32.
- Jorgensen, U. (1990). Body load in heel-strike running: The effect of a firm heel counter. *American Journal of Sports Medicine* 18(2), 177-81.
- Jorgensen, U., Ekstrand, J. (1988). Significance of heel pad confinement for the shock absorption at heel strike. *International Journal of Sports Medicine* 9, 468-73.
- Jorring, K. (1980). Osteoarthritis of the hip: Epidemiology and clinical role. *Acta Orthopaedica Scandinavica* 51, 523-30.
- Joseph, P., Robbins, J.M. (1981). Worker or runner? The impact of commitment to running and work on self-identification. In M.H. Sachs, M.L. Sachs (Eds.), *The Psychology of Running*. Human Kinetics, Champaign, IL, 131-46.
- Jovanovic, L., Kessler, A., Peterson, C.M. (1985). Human maternal and fetal response to graded exercise. *Journal of Applied Physiology* 58, 1719-22.
- Jozsi, A.C., Trappe, T.A., Starling, R.D., Goodpaster, B., Trappe, S.W., Fink, W.J., Costill, D.L. (1996). The influence of starch structure on glycogen resynthesis and subsequent cycling performance. *International Journal of Sports Medicine* 17, 373-78.
- Juhlin-Dannfelt, A., Ahlborg, G., Hagendeldt, L., Jorfeldt, L., Felig, P. (1977). Influence of ethanol on splanchnic and skeletal muscle substrate turnover during prolonged exercise in man. *American Journal of Physiology* 233, E195-202.
- Jungersten, L., Ambring, A., Wall, B., Wennmalm, A. (1997). Both physical fitness and acute exercise regulate nitric oxide formation in healthy humans. *Journal of Applied Physiology* 82, 760-64.
- Kahn, R. (1972). *The Boys of Summer*. Harper and Row, New York.
- Kaiserauer, S., Snyder, A.C., Sleeper, M., Zierath, J. (1989). Nutritional, physiological, and menstrual status of distance runners. *Medicine and Science in Sports and Exercise* 21, 120-25.
- Kallmeyer, J.C., Miller, N.M. (1993). Urinary changes in ultra long-distance marathon runners. *Nephron* 64, 119-21.
- Kalmar, J.M., Cafarelli, E. (1999). Effects of caffeine on neuromuscular function. *Journal of Applied Physiology* 87, 801-08.
- Kaltsas, D.-S. (1981). Stress fractures of the femoral neck in young adults. *Journal of Bone and Joint Surgery* 63B, 33-37.
- Kam, J.L.-K. (1980). Carboxyhaemoglobin levels between jogging and non-jogging smokers. *Experientia* 36, 1397-98.
- Kanaley, J.A., Mottram, C.D., Scanion, P.D., Jensen, M.D. (1995). Fatty acid kinetic responses to running above or below lactate threshold. *Journal of Applied Physiology* 79, 439-47.
- Kang, J., Robertson, R.J., Denys, B.G., DaSilva, S.G., Visich, P., Suminski, R.R., Utter, A.C.,
- Goss, F.L., Metz, K.F. (1995). Effect of carbohydrate ingestion subsequent to carbohydrate supercompensation on endurance performance. *International Journal of Sport Nutrition* 5, 329-43.
- Kannel, W.B., Wolf, P.A., Castelli, W.P., D'Agostino, R.B. (1987). Fibrogen and risk of cardiovascular disease: The Framingham Study. *Journal of the American Medical Association* 258, 1183-86.
- Kannus, P., Nittymaki, S., Jarvinene, M. (1987). Sports injuries in women: A one-year prospective follow-up study at an outpatient sports clinic. *British Journal of Sports Medicine* 21, 37-39.
- Kardel, K.R., Kase, T. (1998). Training in pregnant women: Effects on fetal development and birth. *American Journal of Obstetrics and Gynecology* 178, 280-86.

- Kardinaal, A.F.M., Kok, F.J., Ringstad, J., Gomez-Aracena, J., Mazaev, V.P., Kohlmeier, L., Martin, B.C., Aro, A., Kark, J.D., Delgado-Rodriguez, M., Riemersma, R.A., van 't Veer, P., Huttunen, J.K., Martin-Moreno, J.M. (1993). Antioxidants in adipose tissue and risk of myocardial infarction: The EURAMIC study. *Lancet* 342, 1379–84.
- Karjalainen, J., Kujala, U.M., Kaprio, J., Sarna, S., Viitasalo, M. (1998). Lone atrial fibrillation in vigorously exercising middle aged men: Case-control study. *British Medical Journal* 316, 1784–85.
- Kark, R.M., Johnson, R.E., Lewis, J.S. (1945). Defects of pemmican as an emergency ration for infantry troops. *War Medicine* 7, 345.
- Karlsson, J., Saltin, B. (1971). Diet, muscle glycogen and endurance performance. *Journal of Applied Physiology* 31, 203–6.
- Karlsson, J., Thomeé, R., Swärd, L. (1996). Eleven year follow-up of patello-femoral pain syndrome. *Clinical Journal of Sport Medicine* 6, 22–26.
- Karpovich, P., Sinning, W. (1971). *Physiology of Muscular Activity*. Saunders, Philadelphia.
- Karpovich, P.V. (1959). Effect of amphetamine on athletic performance. *Journal of the American Medical Association* 170, 558–61.
- Kassirer, J.P., Angell, M. (1998). Losing weight: An ill-fated New Year's resolution. *New England Journal of Medicine* 338, 52–54.
- Katsuta, S., Kanoa, Y., Aoyagi, Y. (1988). Is exhaustive training adequate preparation for endurance performance? *European Journal of Applied Physiology* 58, 68–73.
- Katz, J., McGarry, J.D. (1984). The glucose paradox: Is glucose a substrate for liver metabolism? *Journal of Clinical Investigation* 74, 1901–09.
- Katzel, L.L., Bleecker, E.R., Colman, E.G., Rogus, E.M., Sorkin, J.D., Goldberg, A.P. (1995). Effects of weight loss vs aerobic exercise training on risk factors for coronary disease in healthy, obese, middle-aged and older men: A randomized controlled trial. *Journal of the American Medical Association* 274, 1915–21.
- Katzel, L.L., Fleg, J.L., Busby-Whitehead, M.J., Sorkin, J.D., Becker, L.C., Lakatta, E.G., Goldberg, A.P. (1998). Exercise-induced silent myocardial ischemia in master athletes. *American Journal of Cardiology* 81, 261–65.
- Kaufman, K.R., Brodine, S.K., Shaffer, R.A., Johnson, C.W., Cullison, T.R. (1999). The effect of foot structure and range of motion on musculoskeletal overuse injuries. *American Journal of Sports Medicine* 27, 585–93.
- Kauss, D.R. (1980). *Peak Performance*. Prentice Hall, Englewood Cliffs, NJ.
- Kay, D., Marino, F.E., Cannon, J., St. Clair Gibson, A., Lambert, M.I., Noakes, T.D. (2001). Evidence for neuromuscular fatigue during high-intensity cycling in warm, humid conditions. *European Journal of Applied Physiology* 84, 115–21.
- Kay, D., Taaffe, D.R., Marino, F.E. (1999). Whole-body pre-cooling and heat storage during self-paced cycling performance in warm humid conditions. *Journal of Sports Sciences* 17, 937–44.
- Kayser, B., Hoppeler, H., Claassen, H., Cerretelli, P. (1991). Muscle structure and performance capacity of Himalayan Sherpas. *Journal of Applied Physiology* 70, 1938–42.
- Kayser, B., Narici, M., Binzoni, T., Grassi, B., Cerretelli, P. (1994). Fatigue and exhaustion in chronic hypobaric hypoxia: Influence of exercising muscle mass. *Journal of Applied Physiology* 76, 634–40.
- Keast, D., Cameron, K., Morton, A.R. (1988). Exercise and the immune response. *Sports Medicine* 5, 248–67.
- Keating, L. (1982). Pain running through a lot: The saga of a clot running through pain. *South African Runner* (October), 18.
- Keeffe, E.B., Lowe, D.K., Goss, J.R., Wayne, R. (1984). Gastrointestinal symptoms of marathon runners. *Western Journal of Medicine* 141, 481–84.
- Keeling, W.F., Harris, A., Martin, B.J. (1990). Orocecal transit during mild exercise in women. *Journal of Applied Physiology* 68, 1350–53.
- Keeling, W.F., Martin, B.J. (1987). Gastro-intestinal transit during mild exercise. *Journal of Applied Physiology* 63, 978–81.
- Keen, C.L., Lowney, P., Gershwin, M.E., Huxley, L.S., Stern, J.S. (1987). Dietary magnesium intake influences exercise capacity and hematologic parameters in rats. *Metabolism* 36, 788–93.
- Keith, R.E., O'Keefe, K.A., Blessing, D.L., Wilson, G.D. (1991). Alterations in dietary carbohydrate, protein, and fat intake and mood state in trained female cyclists. *Medicine and Science in Sports and Exercise* 23, 212–16.
- Keizer, H.A., Kuipers, H., van Kranenburg, G., Geurten, P. (1987). Influence of liquid and solid meals on muscle glycogen resynthesis, plasma fuel hormone response, and maximal physical working capacity. *International Journal of Sports Medicine* 8, 99–104.
- Kelder, S.H., Perry, C.L., Klepp, K.-I., Lytle, L.L. (1994). Longitudinal tracking of adolescent smoking, physical activity, and food choice behaviors. *American Journal of Public Health* 84, 1121–26.
- Kelsey, J.L., Githens, P.B., O'Connor, T., Weil, U., Calogero, J.A., Holford, T.R., White, A.A., Walter, S.D., Ostfeld, A.M., Southwick, W.O. (1984). Acute prolapsed lumbar intervertebral disc: An epidemiologic study with special reference to driving automobiles and cigarette smoking. *Spine* 9, 608–13.
- Kendrick, Z.V., Affrime, M.B., Lowenthal, D.T. (1994). Effects of caffeine or ethanol on treadmill performance and metabolic responses of well-trained men. *International Journal of Clinical Pharmacology and Therapeutics* 32, 536–41.
- Kent-Braun, J.A., McCully, K.K., Change, B. (1990). Metabolic effects of training in humans: A 31P-MRS study. *Journal of Applied Physiology* 69, 1165–70.
- Ker, R.F., Bennett, M.B., Bibby, S.R., Kester, R.C., Alexander, R.McN. (1987). The spring in the arch of the human foot. *Nature* 325, 147–49.
- Keretzy, A. (1971). Overtraining. In L.A. Larson, D.E. Hermann (Eds.), *Encyclopaedia of Sports Science and Medicine*. Macmillan, New York, 218–22.
- Kernan, W.N., Viscoli, C.M., Brass, L.M., Broderick, J.P., Brott, T., Feldmann, E., Morgenstern, L.B., Wilterdink, J.L., Horwitz, R.I. (2000). Phenylpropanolamine and the risk of hemorrhagic stroke. *New England Journal of Medicine* 343, 1826–32.
- Kesl, L.D., Engen, R.L. (1998). Effects of NaHCO<sub>3</sub> loading in acid-base balance, lactate concentration, and performance in racing greyhounds. *Journal of Applied Physiology* 85, 1037–43.

- Ketelhut, R.G., Ketelhut, K., Messerli, F.H., Badtke, G. (1996). Fitness in the fit: Does physical conditioning affect cardiovascular risk factors in middle-aged marathon runners? *European Heart Journal* 17, 199–203.
- Key, T.J.A., Thorogood, M., Appleby, P.N., Burr, M.L. (1996). Dietary habits and mortality in 11000 vegetarians and health conscious people: Results of a 17 year follow up. *British Medical Journal* 313, 775–79.
- Keys, A. (1987). Olive oil and coronary heart disease. *Lancet* i, 983–84.
- Khan, K.M., Cook, J.L., Bonar, F., Harcourt, P., Åstrom, M. (1999). Histopathology of common tendinopathies: Update and implications for clinical management. *Sports Medicine* 27, 393–408.
- Khan, K.M., Fuller, P.J., Brukner, P.D., Kearney, C., Burry, H. (1992). Outcomes of conservative and surgical management of navicular stress fracture in athletes: Eighty-six cases proven with computerised tomography. *American Journal of Sports Medicine* 20, 657–66.
- Khan, K.M., Maffulli, N., Coleman, B.D., Cook, J.L., Taunton, J.E. (1998). Patellar tendinopathy: Some aspects of basic science and clinical management. *British Journal of Sports Medicine* 32, 346–55.
- Kibler, W.B., Goldberg, C., Chandler, T.J. (1991). Functional biomechanical deficits in running athletes with plantar fasciitis. *American Journal of Sports Medicine* 19, 66–71.
- Kielblock, A.J., van Rensburg, J.P., Franz, R.M. (1986). Body cooling as a method for reducing hyperthermia. *South African Medical Journal* 69, 378–80.
- Kiely, D.K., Wolf, P.A., Cupples, L.A., Beiser, A.S., Kannel, W.B. (1994). Physical activity and stroke risk: The Framingham Study. *American Journal of Epidemiology* 140, 608–20.
- Kiernan, M., Rodin, J., Brownell, K.D., Wilmore, J.H., Crandall, C. (1992). Relation of level of exercise, age, and weight-cycling history to weight and eating concerns in male and female runners. *Health Psychology* 11, 418–21.
- Kilmartin, T.E., Wallace, W.A. (1994). The scientific basis for the use of biomechanical foot orthoses in the treatment of lower limb sports injuries: A review of the literature. *British Journal of Sports Medicine* 28, 180–84.
- Kincaid-Smith, P. (1982). Haematuria and exercise-related haematuria. *British Medical Journal* 285, 1595–97.
- King, D.S., Costill, D.L., Fink, W.J., Hargreaves, M., Fielding, R.A. (1985). Muscle metabolism during exercise in the heat in unacclimatized and acclimatized humans. *Journal of Applied Physiology* 59, 1350–54.
- King, M.J., Noakes, T.D., Weinberg, E.G. (1989). Physiological effects of a physical training program in children with exercise-induced asthma. *Pediatric Exercise Science* 1, 137–44.
- King, N.A., Blundell, J.E. (1995). High-fat foods overcome the energy expenditure of vigorous high-intensity cycling or running. *European Journal of Clinical Nutrition* 49, 114–23.
- King, N.A., Burley, V.J., Blundell, J.E. (1994). Exercise-induced suppression of appetite: Effects on food intake and implications for energy balance. *European Journal of Clinical Nutrition* 48, 715–24.
- King, N.A., Tremblay, A., Blundell, J.E. (1997). Effects of exercise on appetite control: Implications for energy balance. *Medicine and Science in Sports and Exercise* 29, 1076–89.
- Kingwell, B.A., Dart, A.M., Jennings, G.L., Korner, P.I. (1992). Exercise training reduces the sympathetic component of the blood pressure-heart rate baroreflex in man. *Clinical Science* 82, 357–62.
- Kingwell, B.A., Tran, B., Cameron, J.D., Jennings, G.L., Dart, A.M. (1996). Enhanced vasodilation to acetylcholine in athletes is associated with lower plasma cholesterol. *American Journal of Physiology* 270, H2008–13.
- Kinuthia, I., Anderson, O. (1994). How the Kenyan cross country system really works. *Running Research* 10(4) (July/August), 1–4.
- Kirkwood, S.P., Packer, L., Brooks, G.A. (1987). Effects of endurance training on a mitochondrial reticulum in limb skeletal muscle. *Archives of Biochemistry and Biophysics* 255, 80–88.
- Kirsch, K.A., Von Ameln, H. (1981). Feeding patterns of endurance athletes. *European Journal of Applied Physiology* 47, 197–208.
- Kirwan, J.P., Costill, D.L., Kuipers, H., Burrell, M.J., Fink, W.J., Kovaleski, J.E., Fielding, R.A. (1987). Substrate utilization in leg muscle of men after heat acclimation. *Journal of Applied Physiology* 63, 31–35.
- Kirwan, J.P., Costill, D.L., Mitchell, J.B., Houmard, J.A., Flynn, M.G., Fink, W.J., Beltz, J.D. (1988). Carbohydrate balance in competitive runners during successive days of intense training. *Journal of Applied Physiology* 65, 2601–6.
- Kirwan, J.P., O’Gorman, D., Evans, W.J. (1998). A moderate glycemic meal before endurance exercise can enhance performance. *Journal of Applied Physiology* 84, 53–59.
- Kiscsik, N. (1977). The history of women’s participation in the marathon. *Annals of the New York Academy of Sciences* 301, 862–76.
- Kiss, Z.S., Khan, K.M., Fuller, P.J. (1993). Stress fractures of the tarsal navicular bone: CT findings in 55 cases. *American Journal of Roentgenology* 160, 111–15.
- Klag, M.J., Ford, D.E., Mead, L.A., He, J., Whelton, P.K., Liang, K.-Y., Levine, D.M. (1993). Serum cholesterol in young men and subsequent cardiovascular disease. *New England Journal of Medicine* 328, 313–18.
- Klebanoff, M.A., Shiono, P.H., Carey, J.C. (1990). The effect of physical activity during pregnancy on preterm delivery and birth weight. *American Journal of Obstetrics and Gynecology* 163, 1450–56.
- Klein, H.G. (1985). Blood transfusion and athletics: Games people play. *New England Journal of Medicine* 312, 854–56.
- Klein, S., Coyle, E.F., Wolfe, R.R. (1994). Fat metabolism during low-intensity exercise in endurance-trained and untrained men. *American Journal of Physiology* 267, E934–40.
- Klein, S., Webber, J.-M., Coyle, E.F., Wolfe, R.R. (1996). Effect on endurance training on glycerol kinetics during strenuous exercise in humans. *Metabolism* 45, 357–61.
- Klingshirm, L.A., Pate, R.R., Bourque, S.P., Davis, J.M., Sargent, R.G. (1992). Effect of iron supplementation on endurance capacity in iron-depleted female runners. *Medicine and Science in Sports and Exercise* 24, 819–24.

- Klitgaard, H., Mantoni, M., Schiaffino, S., Ausoni, S., Gorza, L., Laurent-Winter, C., Schnohr, P., Saltin, B. (1990). Function, morphology and protein expression of ageing skeletal muscle: A cross-sectional study of elderly men with different training backgrounds. *Acta Physiologica Scandinavica* 140, 41–54.
- Knochel, J.P. (1972). Exertional thabdomyolysis. *New England Journal of Medicine* 287, 927–29.
- Kobasa, S.C., Maddi, S.R., Puccetti, M.C. (1982). Personality and exercise as buffers in the stress-illness relationship. *Journal of Behavioural Medicine* 5, 391–404.
- Koeslag, J.H. (1980). Obesity. In *Basic Medical Sciences, Third Series*. University of Cape Town Postgraduate Medical Centre, Cape Town, South Africa.
- Koeslag, J.H. (1990a). Human biology of obesity. *Continuing Medical Education* 8, 329–36.
- Koeslag, J.H. (1990b). Obesity: Benefits and risks. *Continuing Medical Education* 8, 337–40.
- Koffler, K.H., Menkes, A., Redmond, R.A., Whitehead, W.E., Pratley, R.E., Hurley, B.F. (1992). Strength training accelerates gastrointestinal transit in middle-aged and older men. *Medicine and Science in Sports and Exercise* 24, 415–19.
- Kohatsu, N.D., Schurman, D.J. (1990). Risk factors for the development of osteoarthritis of the knee. *Clinical Orthopedics* 261, 242–46.
- Kohl, H.W., LaPorte, R.E., Blair, S.N. (1988). Physical activity and cancer: An epidemiological perspective. *Sports Medicine* 6, 222–37.
- Kohrt, W.M., Ehsani, A.A., Birge, S.J. (1998). HRT preserves increases in bone mineral density and reductions in body fat after a supervised exercise program. *Journal of Applied Physiology* 84, 1506–12.
- Kolkhorst, F.W., MacTaggart, J.N., Hansen, M.R. (1998). Effect of a sports food bar on fat utilisation and exercise duration. *Canadian Journal of Applied Physiology* 23, 271–78.
- Kollias, J., Moody, D.L., Buskirk, E.R. (1967). Cross-country running: Treadmill simulation and suggested effectiveness of supplemental treadmill training. *Journal of Sports Medicine and Physical Fitness* 7, 148–54.
- Koltyn, K.F., O'Connor, P.J., Morgan, W.P. (1991). Perception of effort in female and male competitive swimmers. *International Journal of Sports Medicine* 12, 427–29.
- Komi, P.V., Bosco, C. (1978). Utilization of stored elastic energy in leg extensor muscles by men and women. *Medicine and Science in Sports and Exercise* 10, 261–65.
- Komi, P.V., Gollhofer, A., Schmidtbleicher, D., Frick, U. (1987). Interaction between man and shoe in running: Considerations for a more comprehensive measurement approach. *International Journal of Sports Medicine* 8, 196–202.
- Komi, P.V., Hyvarinen, T., Kvist, M. (1989). Biomechanical considerations in the study of impact loads and foot stability during running. In M. Kvist (Ed.), *Paavo Nurmi Congress Book: Advanced European Course on Sports Medicine 50th Anniversary of the Finnish Society of Sports Medicine, August 28–September 1, 1989*. Turku, Finland, 219–23.
- Komi, P.V., Karlsson, J. (1979). Physical performance, skeletal muscle enzyme activities and fibre types in monozygous and dizygous twins of both sexes. *Acta Physiologica Scandinavica* 462 (Suppl.), 1–28.
- Komi, P.V., Nicol, C. (2000). Stretch-shortening cycle fatigue. In B. McIntosh, B. Nigg (Eds.), *Biomechanics and Biology of Movement*. Human Kinetics, Champaign, IL, 385–408.
- Komi, P.V., Viitasalo, J.H.T., Havu, M., Thorstensson, A., Sjodin, B., Karlsson, J. (1977). Skeletal muscle fibres and muscle enzyme activities in monozygous and dizygous twins of both sexes. *Acta Physiologica Scandinavica* 100, 385–92.
- Kono, I., Kitas, H., Matsuda, M., Haga, S., Fukushima, H., Kashiwagi, H. (1988). Weight reduction in athletes may adversely affect the phagocytic function. *Physician and Sportsmedicine* 16 (July), 56–65.
- Konradsen, L., Hansen, E.-M.B., Sondergaard, L. (1990). Long distance running and osteoarthritis. *American Journal of Sports Medicine* 18, 379–81.
- Koplan, J.P., Powell, K.E., Sikes, R.K., Shirley, R.W., Campbell, C.C. (1982). An epidemiological study of the benefits and risks of running. *Journal of the American Medical Association* 248, 3118–21.
- Koplan, J.P., Rothenberg, R.B., Jones, E.L. (1995). The natural history of exercise: A 10-yr follow-up of a cohort of runners. *Medicine and Science in Sports and Exercise* 27, 1180–84.
- Kosgei, M., Abmayr, W. (1988). Cross-country training in Kenya. *New Studies in Athletics*.
- Kostrubala, T. (1984). Running and therapy. In M.L. Sachs, G.E. Buffore (Eds.), *Running As Therapy: An Integrated Approach*. University of Nebraska, Lincoln and London, 112–24.
- Koutedakis, Y., Frischknecht, R., Vrbová, G., Sharp, N.C.C., Budgett, R. (1995). Maximal voluntary quadriceps strength patterns in Olympic overtrained athletes. *Medicine and Science in Sports and Exercise* 27, 566–72.
- Kovacs, E.M.R., Stegen, J.H.C.H., Brouns, F. (1998). Effect of caffeinated drinks on substrate metabolism, caffeine excretion, and performance. *Journal of Applied Physiology* 85, 709–15.
- Kovanen, V., Suominen, H. (1988). Effects of age and long-life endurance training on the passive mechanical properties of rat skeletal muscle. *Comprehensive Gerontology* 2, 18–23.
- Kovar, P.A., Allegrante, J.P., MacKenzie, C.R., Peterson, M.G.E., Gutin, B., Charlson, M.E. (1992). Supervised fitness walking in patients with osteoarthritis of the knee. *Annals of Internal Medicine* 116, 529–34.
- Kowall, M.G., Kolk, G., Nuber, G.W., Cassisi, J.E., Stem, S.H. (1996). Patellar taping in the treatment of patellofemoral pain: A prospective randomized study. *American Journal of Sports Medicine* 24, 61–66.
- Kozlowski, S., Brzezinska, Z., Kruk, B., Kaciuba-Uscilko, H., Greenleaf, J.E., Nazar, K. (1985). Exercise hyperthermia as a factor limiting physical performance: Temperature effect on muscle metabolism in dogs. *Journal of Applied Physiology* 59, 766–73.
- Kraemer, W.J., Patton, J.F., Gordon, S.E., Harman, E.A., Deschenes, M.R., Reynolds, K., Newton, R.U., Triplett, N.T., Dziados, J.E. (1995). Compatibility of high-intensity strength and endurance training on hormonal and skeletal muscle adaptations. *Journal of Applied Physiology* 78, 976–89.

- Kraemer, W.J., Volek, J.S. (1999). Creatine supplementation: Its role in human performance. *Clinics in Sports Medicine* 18, 651–66.
- Krahenbuhl, G.S., Morgan, D.W., Pangrazi, R.P. (1989). Longitudinal changes in distance-running performance of young males. *International Journal of Sports Medicine* 10, 92–96.
- Krahenbuhl, G.S., Pangrazi, R.P. (1983). Characteristics associated with running performance in young boys. *Medicine and Science in Sports and Exercise* 15, 486–90.
- Krahenbuhl, G.S., Williams, T.J. (1992). Running economy: Changes with age during childhood and adolescence. *Medicine and Science in Sports and Exercise* 24, 462–66.
- Kramer, M.M., Wells, C.L. (1996). Does physical activity reduce risk of estrogen-dependent cancer in women? *Medicine and Science in Sports and Exercise* 28, 322–34.
- Kramsch, D.M., Aspen, A.J., Abramowitz, B.M., Kreimendahl, T., Hood, W.B. (1981). Reduction of coronary atherosclerosis by moderate conditioning exercise in monkeys on an atherogenic diet. *New England Journal of Medicine* 305, 1483–89.
- Kreider, R.B. (1991). Physiological considerations of ultraendurance performance. *International Journal of Sports Nutrition* 1, 3–27.
- Kreider, R.B., Fry, A.C., O'Toole, M.L. (1998). *Overtraining in Sport*. Human Kinetics, Champaign, IL.
- Krejci, R.C., Sargent, R., Forand, K.J., Ureda, J.R., Saunders, R.P., Durstine, J.L. (1992). Psychological and behavioural differences among females classified as bulimic, obligatory exerciser and normal control. *Psychiatry* 55, 185–93.
- Krejci, V., Koch, P. (1979). *Muscle and Tendon Injuries in Athletes*. Thieme, Stuttgart, 37.
- Kretchmer, N. (1972). Lactose and lactase. *Scientific American* 227 (October), 70–78.
- Krip, B., Gledhill, N., Jamnik, V., Warburton, D. (1997). Effect of alterations in blood volume on cardiac function during maximal exercise. *Medicine and Science in Sports and Exercise* 29, 1469–76.
- Krise, R., Squires, B. (1982). *Fast Tracks: The History of Distance Running Since 884 B.C.* Greene Press, Brattleboro, VT.
- Kris-Etherton, P.M. (1999). Monounsaturated fatty acids and risk of cardiovascular disease. *Circulation* 100, 1253–58.
- Kriska, A.M., Laporte, R.E., Patrick, S.L., Kuller, L.H., Orchard, T.J. (1991). The association of physical activity and diabetic complications in individuals with insulin-dependent diabetes mellitus: The Epidemiology of Diabetes Complications Study—VII. *Journal of Clinical Epidemiology* 44, 1207–14.
- Krivickas, L.S. (1997). Anatomical factors associated with overuse sports injuries. *Sports Medicine* 24, 132–46.
- Krogh, A., Lindhard, J. (1920). The relative value of fat and carbohydrate as sources of muscular energy. *Biochemistry Journal* 14, 290–363.
- Kromhout, D., Bosschieter, E.B., Coulander, C. de L. (1985). The inverse relation between fish consumption and 20-year mortality from coronary heart disease. *New England Journal of Medicine* 312, 1205–9.
- Kronfeld, D.S. (1973). Diet and the performance of racing sled dogs. *Journal of the American Veterinary Medicine Association* 162, 470–73.
- Kronfeld, D.S. (1977). In discussion. *Annals of the New York Academy of Sciences* 301, 956.
- Kronfeld, D.S., Hammel, E.P., Ramberg, C.F., Dunlap, H.L. (1977). Hematological and metabolic responses to training in racing sled dogs fed diets containing medium, low, or zero carbohydrate. *American Journal of Clinical Nutrition* 30, 419–30.
- Krotkiewski, M., Aniansson, A., Grimby, G., Bjorntorp, P., Sjostrom, L. (1979). The effect of unilateral isokinetic strength training on local adipose and muscle cell morphology, thickness and enzymes. *European Journal of Applied Physiology* 42, 271–81.
- Krotkiewski, M., Gudmundsson, M., Backstrom, P., Mandroukas, K. (1982). Zinc and muscle strength and endurance. *Acta Physiologica Scandinavica* 116, 309–11.
- Kruk, B., Kaciuba-U'Schilko, H., Nazar, K., Greenleaf, J.E., Kozlowski, S. (1985). Hypothalamic, rectal, and muscle temperatures in exercising dogs: Effect of cooling. *Journal of Applied Physiology* 58, 1444–48.
- Kruss, J., Gordon, J., Myburgh, K.H., Noakes, T.D. (1989). The influence of inborn athletic potential on choice of profession and exercise habits of paramedical students. *South African Medical Journal* 76, 538–41.
- Krzentowski, G., Jandrain, B., Pirnay, F., Mosora, F., Lacroix, M., Luyckx, A.S., Lefévre, P.J. (1984). Availability of glucose given orally during exercise. *Journal of Applied Physiology* 56, 315–20.
- Kubica, T., Tyka, A., Zuchowicz, A., Czubala, M. (1996). Human acclimation to work in warm and humid environments. *Journal of Physiology and Pharmacology* 47, 515–24.
- Kubo, K., Akima, H., Kouzaki, M., Ito, M., Kawakami, Y., Kanehisa, H., Fukunaga, T. (2000). Changes in the elastic properties of tendon structures following 20 days bed-rest in humans. *European Journal of Applied Physiology* 83, 463–68.
- Kubo, K., Kanehisa, H., Kawakami, Y., Fukunaga, T. (2000). Elastic properties of muscle-tendon complex in long-distance runners. *European Journal of Applied Physiology* 81, 181–87.
- Kubo, K., Kawakami, Y., Fukunaga, T. (1999). Influence of elastic properties of tendon structures on jump performance in humans. *Journal of Applied Physiology* 87, 2090–96.
- Kuh, D.J.L., Cooper, C. (1992). Physical activity at 36 years: Patterns and childhood predictors in a longitudinal study. *Journal of Epidemiology and Community Health* 46, 114–19.
- Kuipers, H. (1998a). Responses to overtraining questions: 1998 ACSM-USOC Summit. ACSM Annual Conference, Orlando, FL.
- Kuipers, H. (1998b). Training and overtraining: An introduction. *Medicine and Science in Sports and Exercise* 30, 1137–39.
- Kuipers, H., Franssen, E.J., Keizer, H.A. (1999). Pre-exercise ingestion of carbohydrate and transient hypoglycemia during exercise. *International Journal of Sports Medicine* 20, 227–31.
- Kuipers, H., Janssen, G.M.E., Bosman, F., Frederik, P.M., Geurten, P. (1989). Structural and ultrastructural changes in skeletal muscle associated with long-distance training and running. *International Journal of Sports Medicine* 10, S156–59.



- Kuipers, H., Keizer, H.A., De Vries, T., van Rijnthoven, P., Wijts, M. (1988). Comparison of heart rate as a non-invasive determinant of anaerobic threshold with the lactate threshold when cycling. *European Journal of Applied Physiology* 58, 303–6.
- Kuipers, H., Saris, W.H., Brouns, F., Keizer, H.A., ten Bosch, C. (1989). Glycogen synthesis during exercise and rest with carbohydrate feeding in males and females. *International Journal of Sports Medicine* 10 (Suppl 1), S63–67.
- Kuipers, H., Verstappen, F.T.J., Reneman, R.S. (1980). Influence of therapeutic doses of amoxicillin on aerobic work capacity and some strength characteristics. *American Journal of Sports Medicine* 8, 274–79.
- Kujala, U.M., Ahotupa, M., Vasankari, T., Kaprio, J., Tikkanen, M.J. (1996). Low LDL oxidation in veteran endurance athletes. *Scandinavian Journal of Medicine and Science in Sports* 6, 303–8.
- Kujala, U.M., Alen, M., Huhtaniemi, I.T. (1990). Gonadotrophin-releasing hormone and human chorionic gonadotrophin tests reveal that both hypothalamic and testicular endocrine functions are suppressed during acute prolonged physical exercise. *Clinical Endocrinology* 33, 219–25.
- Kujala, U.M., Kaprio, J., Sarna, S. (1994a). Osteoarthritis of weight bearing joints of lower limbs in former elite male athletes. *British Medical Journal* 308, 231–34.
- Kujala, U.M., Kaprio, J., Sarna, S., Koskenvuo, M. (1998). Relationship of leisure-time physical activity and mortality: The Finnish Twin Cohort. *Journal of the American Medical Association* 279, 440–44.
- Kujala, U.M., Kaprio, J., Taimela, S., Sarna, S. (1994b). Prevalence of diabetes, hypertension, and ischemic heart disease in former elite athletes. *Metabolism* 43, 1255–60.
- Kujala, U.M., Kettunen, J., Paananen, H., Aalto, T., Battié, M.C., Impivaara, O., Videman, T., Sarna, S. (1995). Knee osteoarthritis in former runners, soccer players, weight lifters, and shooters. *Arthritis and Rheumatism* 38, 539–46.
- Kujala, U.M., Sarna, S., Kaprio, J., Koskenvuo, M. (1996). Hospital care in later life among former world-class Finnish athletes. *Journal of the American Medical Association* 276, 216–20.
- Kujala, U.M., Sarna, S., Kaprio, J., Koskenvuo, M., Karjalainen, J. (1999). Heart attacks and lower-limb function in master endurance athletes. *Medicine and Science in Sports and Exercise* 31, 1041–46.
- Kujala, U.M., Sarna, S., Kaprio, J., Tikkanen, H.O., Koskenvuo, M. (2000). Natural selection to sports, later physical activity habits, and coronary heart disease. *British Journal of Sports Medicine* 34, 445–49.
- Kulpa, P., White, B.M., Visscher, R. (1987). Aerobic exercise in pregnancy. *American Journal of Obstetrics and Gynecology* 156, 1395–403.
- Kumagai, S., Tanaka, K., Matsuura, Y., Matsuzaka, A., Hirakoba, K., Asano, K. (1982). Relationships of the anaerobic threshold with the 5 km, 10 km and 10 mile races. *European Journal of Applied Physiology* 49, 13–23.
- Kuo, C.C., Shor, A., Fukushi, H., Patton, D.L., Campbell, L.A., Grayston, J.T. (1993). Demonstration of chlamydia pneumoniae in atherosclerotic lesions of coronary arteries. *Journal of Infectious Diseases* 167, 841–47.
- Kuscik, N. (1977). The history of women's participation in the marathon. *Annals of the New York Academy of Sciences* 301, 862–76.
- Kushi, L.H., Fee, R.M., Folsom, A.R., Mink, P.J., Anderson, K.E., Sellars, T.A. (1997). Physical activity and mortality in postmenopausal women. *Journal of the American Medical Association* 277, 1287–92.
- Kushimoto, H., Aoki, T. (1985). Masked type I wheat allergy: Relation to exercise-induced anaphylaxis. *Archives of Dermatology* 121, 355–60.
- Kuusela, T., Kurri, J., Virtama, P. (1984). Stress response of the tibial cortex: A longitudinal radiographic study. *Annals of Clinical Research* 16(Suppl 40), 14–16.
- Kvist, M., Komi, P.V., Hyvarinen, T. (1989). Orthotic treatment, static and dynamic testing of foot-shoe deficiency. In M. Kvist (Ed.), *Paavo Nurmi Congress Book: Advanced European Course on Sports Medicine 50th Anniversary of the Finnish Society of Sports Medicine, August 28–September 1, 1989*. Turku, Finland, 223–29.
- Kyle, C.R. (1979). Reduction of wind resistance and power output of racing cyclists and runners travelling in groups. *Ergonomics* 22, 387–97.
- Kyle, C.R. (1986). Athletic clothing. *Scientific American* 254 (March), 92–98.
- Kyle, C.R., Caiozzo, V.J. (1986). The effect of athletic clothing aerodynamics upon running speed. *Medicine and Science in Sports and Exercise* 18, 509–15.
- Laatikainen, T., Virtanen, T., Apter, D. (1986). Plasma immunoreactive beta-endorphin in exercise-associated amenorrhea. *American Journal of Obstetrics and Gynecology* 154, 94–97.
- Lacey, J.H. (1982). Anorexia nervosa and a bearded female saint. *British Medical Journal* 285, 1816–17.
- Lacour, J.R., Padilla, S., Barthelemy, J.C., Dormois, D. (1990). The energetics of middle-distance running. *European Journal of Applied Physiology* 60, 38–43.
- Lacour, J.R., Padilla, S., Chatard, J.C., Arsac, L., Barthelemy, J.C. (1991). Assessment of running velocity at maximal oxygen uptake. *European Journal of Applied Physiology* 62, 77–82.
- Ladell, W.S.S. (1955). The effects of water and salt intake upon the performance of men working in hot and humid environments. *Journal of Physiology* 127, 11–46.
- LaFontaine, T.P., Londeree, B.R., Spath, W.K. (1981). The maximal steady state versus selected running events. *Medicine and Science in Sports and Exercise* 13, 190–92.
- LaForgia, J., Withers, R.T., Williams, A.D., Murch, B.J., Chatterton, B.E., Schultz, C.G., Leaney, F. (1999). Effect of 3 weeks of detraining on the resting metabolite rate and body composition of trained males. *European Journal of Clinical Nutrition* 53, 126–33.
- Lafortune, M.A., Henning, E.M., Lake, M.J. (1996). Dominant role of interface over knee angle for cushioning impact loading and regulating initial leg stiffness. *Journal of Biomechanics* 29, 1523–29.
- Lakka, T.A., Nyyssöne, K., Salonen, J.T. (1994). Higher levels of conditioning leisure time physical activity are associated with reduced levels of stored iron in Finnish men. *American Journal of Epidemiology* 140, 148–60.
- Lakka, T.A., Salonen, J.T. (1993). Moderate to high intensity conditioning leisure time physical activity and high cardiorespiratory fitness are associated with reduced plasma fibrinogen in eastern Finnish men. *Journal of Clinical Epidemiology* 46, 1119–27.

- Lakka, T.A., Venäläinen, J.M., Rauramaa, R., Salonen, R., Tuomiletho, J., Salonen, J.T. (1994). Relation of leisure-time physical activity and cardiorespiratory fitness to the risk of acute myocardial infarction in men. *New England Journal of Medicine* 330, 1549–54.
- LaManca, J.J., Haymes, E.M. (1994). Effects of iron repletion on  $\text{VO}_2\text{max}$ , endurance, and blood lactate in women. *Medicine and Science in Sports and Exercise* 25, 1386–92.
- LaManca, J.J., Haymes, E.M., Daly, J.A., Moffatt, R.J., Waller, M.F. (1988). Sweat iron loss of male and female runners during exercise. *International Journal of Sports Medicine* 9, 52–55.
- Lamb, D.R., Rinehardt, K.F., Bartels, R.L., Sherman, W.M., Snook, J.T. (1990). Dietary carbohydrate and intensity of interval swim training. *American Journal of Clinical Nutrition* 52, 1058–63.
- Lamb, D.R., Snyder, A.C., Baur, T.S. (1991). Muscle glycogen loading with a liquid carbohydrate supplement. *International Journal of Sport Nutrition* 1, 52–60.
- Lambert, E.V., Goedecke, J.H., Zyle, C., Murphy, K., Hawley, J.A., Dennis, S.C., Noakes, T.D. (2001). High-fat diet versus habitual diet prior to carbohydrate loading: Effects on exercise metabolism and cycling performance. *International Journal of Sports Nutrition and Exercise Metabolism* 11, 209–25.
- Lambert, E.V., Speechly, D.P., Dennis, S.C., Noakes, T.D. (1994). Enhanced endurance in trained cyclists during moderate intensity exercise following 2 weeks adaptation to a high fat diet. *European Journal of Applied Physiology* 69, 287–93.
- Lambert, G.P., Bleiler, T.L., Chang, R.T., Johnson, A.K., Gisolfi, C.V. (1993). Effects of carbohydrate and non-carbonated beverages at specific intervals during treadmill running in the heat. *International Journal of Sport Nutrition* 3, 177–93.
- Lambert, G.P., Chang, R.T., Joensen, D., Shi, X., Summers, R.W., Schedl, H.P., Gisolfi, C.V. (1996). Simultaneous determination of gastric emptying and intestinal absorption during cycle exercise in humans. *International Journal of Sports Medicine* 17, 48–55.
- Lambert, M., Noakes, T.D. (1988). Dissociation of changes in  $\text{VO}_2\text{max}$ , muscle  $\text{QO}_2$  and performance with training in rats. *Journal of Applied Physiology* 66, 1620–25.
- Lambert, M.I., Bryer, L., Hampson, D.B., Nobbs, L., Rapolthy, A.M., Taliep, M.S., Viljoen, L.W. (2002). Accelerated decline in running performance in a masters runner with a history of a large volume of training and racing. *Journal on Experimental Aging Research* (in press).
- Lambert, M.I., Dugan, J.P., Kirkman, M.C., Waldeck, M.R., Mokone, G.G., Bekker, J.P.I., Drake, B.S., Barlowe, G. (2002). Running speeds in a 100 km ultra marathon race. (Unpublished manuscript).
- Lambert, M.I., Keytel, L.R. (2000). Training habits of top runners in different age groups in a 56 km race. *Sports Medicine (South Africa)* (August), 27–32.
- Lamley, P. (1983). *How to Survive Anorexia: A Guide to Anorexia and Bulimarexia*. Muller, London.
- Lampe, J.W., Slavin, J.L., Apple, F.S. (1991). Iron status of active women and the effect of running a marathon on bowel function and gastrointestinal blood loss. *International Journal of Sports Medicine* 12, 173–79.
- Lane, N.E., Bloch, D.A., Jones, H.H., Marshall, W.H., Wood, P.D., Fries, J.F. (1986). Long-distance running, bone density and osteoarthritis. *Journal of the American Medical Association* 255, 1147–51.
- Lane, N.E., Bloch, D.A., Wood, P.D., Fries, J.F. (1987). Aging, long distance running, and the development of musculoskeletal disability: A controlled study. *American Journal of Medicine* 82, 772–80.
- Lane, N.E., Hochberg, M.C., Pressman, A., Scott, J.C., Nevitt, M.C. (1999). Recreational physical activity and the risk of osteoarthritis of the hip in elderly women. *Journal of Rheumatology* 26, 849–54.
- Lane, N.E., Michel, B., Bjorkengren A., Oehlert, J., Shi, H., Bloch, D.A., Fries, J.E. (1993). The risk of osteoarthritis with running and aging: A 5-year longitudinal study. *Journal of Rheumatology* 20, 461–68.
- Lapidus, L., Bengtsson, C. (1986). Socioeconomic factors and physical activity in relation to cardiovascular disease and death: A 12 year follow up of participants in a population study of women in Gothenburg, Sweden. *British Heart Journal* 55, 295–301.
- Laritcheva, K.A., Yalovaya, N.I., Shubin, V.I., Smirnov, P.V. (1978). Study of energy expenditure and protein needs of top weight lifters. In J. Parizkova, V.A. Rogozkin (Eds.), *Nutrition, Physical Fitness and Health*. University Park Press, Baltimore, 155–63.
- Larson, D.C., Fisher, R. (1987). Management of exercise-induced gastrointestinal problems. *Physician and Sportsmedicine* 15 (September), 112–26.
- Larson, R.L., McMahan, R.O. (1966). The epiphyses and the childhood athlete. *Journal of the American Medical Association* 196, 607–12.
- Larsson, L. (1978). Morphological and functional characteristics of the ageing skeletal muscle in man: A cross-sectional study. *Acta Physiologica Scandinavica (Suppl 457)*, 1–36.
- Larsson, L., Ansved, T. (1985). Effects of long-term physical training and detraining on enzyme histochemical and functional skeletal muscle characteristics in man. *Muscle and Nerve* 8, 714–22.
- Lathan, S.R. (1991). Chronic fatigue? Consider hypothyroidism. *Physician and Sportsmedicine* 19 (October), 67–70.
- Latzka, W.A., Sawka, M.N., Montain, S.J., Skrinar, G.S., Fielding, R.A., Matott, R.P., Pandolf, K.B. (1997). Hyperhydration: Thermoregulatory effects during compensable exercise-heat stress. *Journal of Applied Physiology* 83, 860–66.
- Latzka, W.A., Sawka, M.N., Montain, S.J., Skrinar, G.S., Fielding, R.A., Matott, R.P., Pandolf, K.B. (1998). Hyperhydration: Tolerance and cardiovascular effects during uncompensable exercise-heat stress. *Journal of Applied Physiology* 84, 1858–64.
- Lau, E., Donnan, S., Barker, D.J., Cooper, C. (1988). Physical activity and calcium intake in fracture of the proximal femur in Hong Kong. *British Medical Journal* 297, 1441–43.
- Lavender, G., Bird, S.R. (1989). Effect of sodium bicarbonate ingestion upon repeated sprints. *British Journal of Sports Medicine* 23, 41–45.
- Law, M.R., Hacksaw, AK (1997). A meat-analysis of cigarette smoking, bone mineral density and risk of hip fracture: Recognition of a major effect. *British Medical Journal* 315, 841–46.

- Lawton, C.L., Burley, V.J., Wales, J.K., Blundell, J.E. (1993). Dietary fat and appetite control in obese subjects: Weak effects on satiety and satiety. *International Journal of Obesity* 17, 409–16.
- Leach, R.E., Purnell, M.B., Saito, A. (1989). Peroneal nerve entrapment in runners. *American Journal of Sports Medicine* 17, 287–91.
- Lean, M.E.J., Han, T.S. (1998). Natural sporting ability and predisposition to cardiovascular disorders. *Quarterly Journal of Medicine* 91, 641–46.
- Lean, M.E.J., Han, T.S., Morrison, C.E. (1995). Waist circumference as a measure for indicating need for weight management. *British Medical Journal* 311, 158–61.
- Lebenstedt, M., Platte, P., Pirke, K.-M. (1999). Reduced resting metabolic rate in athletes with menstrual disorders. *Medicine and Science in Sports and Exercise* 31, 1250–56.
- Le Blanc, J., Diamond, P., Cote, J., Labrie, A. (1984). Hormonal factors in reduced postprandial heat production of exercise-trained subjects. *Journal of Applied Physiology* 56, 772–76.
- Lebrun, C.M., McKenzie, D.C., Prior, J.C., Taunton, J.E. (1995). Effects of menstrual cycle phase on athletic performance. *Medicine and Science in Sports and Exercise* 27, 437–44.
- Leddy, J.J., Horvath, P., Rowland, J., Pendergast, D.R. (1997). Effect of a high or a low fat diet on cardiovascular risk factors in male and female runners. *Medicine and Science in Sports and Exercise* 29, 17–25.
- Ledingham, I.M., MacVicar, S., Watt, I., Weston, G.A. (1982). Early resuscitation after marathon collapse. *Lancet* ii, 1096–97.
- Lee, D.T., Haymes, E.M. (1995). Exercise duration and thermoregulatory responses after whole body precooling. *Journal of Applied Physiology* 79, 1971–76.
- Lee, I.-M., Hennekens, C.H., Berger, K., Buring, J.E., Manson, J.E. (1999). Exercise and risk of stroke in male physicians. *Stroke* 30, 1–6.
- Lee, I.-M., Hsieh, C.-C., Paffenbarger, R.S. (1995). Exercise intensity and longevity in men. *Journal of the American Medical Association* 273, 1179–84.
- Lee, I.-M., Paffenbarger, R.S. (1992). Change in body weight and longevity. *Journal of the American Medical Association* 268, 2045–49.
- Lee, I.-M., Paffenbarger, R.S. (1994). Physical activity and its relation to cancer risk: A prospective study of college alumni. *Medicine and Science in Sports and Exercise* 26, 831–37.
- Lee, I.-M., Paffenbarger, R.S. (1998). Physical activity and stroke incidence: The Harvard Alumni Health Study. *Stroke* 29, 2049–54.
- Lee, I.-M., Paffenbarger, R.S., Hsieh, C.-C. (1991). Physical activity and risk of developing colorectal cancer among college alumni. *Journal of the National Cancer Institute* 83, 1324–29.
- Lee, I.-M., Sesso, H.D., Paffenbarger, R.S. (2000). Physical activity and coronary heart disease risk in men: Does the duration of exercise episodes predict risk? *Circulation* 102, 981–86.
- Lee, M., Balchin, N. (1996). *Young People, Sport and Ethics: Values and Attitudes in Youth Sport*. A report prepared for the Sports Council, United Kingdom, 1–3.
- Lee, M.J., Cockman, M.J. (1995). Values in children's sport: Spontaneously expressed values among young athletes. *International Review for the Sociology of Sport* 30, 337–52.
- Le Fanu, J. (1999). *The Rise and Fall of Modern Medicine*. Abacus, London.
- Leger, L., Mercier, D., Gauvin, L. (1984). The relationship between %  $\dot{V}O_{2max}$  and running performance time. In D.M. Landers (Ed.), *Sport and Elite Performers (The 1984 Olympic Scientific Congress Proceedings 3)*. Human Kinetics, Champaign, IL, 113–19.
- Leger, L., Tokmakidis, S. (1988). Use of the heart rate deflection point to assess the anaerobic threshold. *Journal of Applied Physiology* 64, 1758–59.
- Le Grange, D. (1999). Family therapy for adolescent anorexia nervosa. *Journal of Clinical Psychiatry* 55, 727–39.
- Le Grange, D., Eisler, I. (1993). The link between anorexia nervosa and excessive exercise: A review. *Eating Disorders Review* 1, 100–19.
- Lehman, M.A., Berg, A., Kapp, R., Wessinghage, T., Keul, J. (1983). Correlations between laboratory testing and distance running performance in marathoners of similar performance ability. *International Journal of Sports Medicine* 4, 226–320.
- Lehmann, M., Foster, C., Gastmann, U., Keizer, H., Steinacker, J.M. (1999). Definition, types, symptoms, findings, underlying mechanisms, and frequency of overtraining and overtraining syndrome. In M. Lehmann, C. Foster, U. Gastmann, and J.M. Steinacker (Eds.), *Overload, Performance Incompetence, and Regeneration in Sport*. Kluwer Academic/Plenum, New York, 1–6.
- Lehmann, M., Foster, C., Netzer, N., Lormes, W., Steinacker, J.M., Liu, Y., Opitz-Gress, A., Gastmann, U. (1998). Physiological responses to short- and long-term overtraining in endurance athletes. In R.B. Kreider, A.C. Fry, M.L. O'Toole (Eds.), *Overtraining in Sport*. Human Kinetics, Champaign, IL, 19–46.
- Lehmann, M., Gastmann, U., Baur, S., Liu, Y., Lormes, W., Opitz-Gress, A., Reißnecker, S., Simsch, C., Steinacker, J.M. (1999). Selected parameters and mechanisms of peripheral and central fatigue and regeneration in overtrained athletes. In M. Lehmann, C. Foster, U. Gastmann, and J.M. Steinacker (Eds.), *Overload, Performance Incompetence, and Regeneration in Sport*. Kluwer Academic/Plenum, New York, 7–25.
- Lehmann, M., Schnee, R., Scheu, R., Stockhausen, W., Bachl, N. (1992). Decreased nocturnal catecholamine excretion: Parameter for an overtraining syndrome in athletes? *International Journal of Sports Medicine* 13, 236–42.
- Lehmann, M., Wieland, H., Gastmann, U. (1997). Influence of unaccustomed increase in training volume vs intensity on performance, hematological and blood-chemical parameters in distance runners. *Journal of Sports Medicine and Physical Fitness* 37, 110–16.
- Lehmann, M.J., Lormes, W., Opitz-Gress, A., Steinacker, J.M., Netzer, N., Foster, C., Gastmann, U. (1977). Training and overtraining: an overview and experimental results in endurance sports. *Journal of Sports Medicine and Physical Fitness* 37, 7–17.
- Leijssen, D.P., Saris, W.H., Jeukendrup, A.E., Wagenmakers, A.J. (1995). Oxidation of exogenous [ $^{13}C$ ] galactose and [ $^{13}C$ ] glucose during exercise. *Journal of Applied Physiology* 79, 720–25.

- Leinonen, H. (1980). Effects of sprint- and endurance-training on capillary circulation in skeletal muscle. *Acta Physiologica Scandinavica* 108, 425–27.
- Leiper, J.B., Maughan, R.J. (1986). The effect of luminal tonicity on water absorption from a segment of the intact human jejunum. *Journal of Physiology* 378, 95P.
- Leiper, J.B., Maughan, R.J. (1988). Experimental models for the investigation of water and solute transport in man: Implications for oral rehydration solutions. *Drugs* 36 (Suppl 4), 65–79.
- Leitzmann, M.F., Giovannucci, E.L., Rimm, E.B., Stampfer, M.J., Spiegelman, D., Wing, A.L., Willett, W.C. (1998). The relation of physical activity to risk for symptomatic gallstone disease in men. *Annals of Internal Medicine* 128, 417–25.
- Leitzmann, M.F., Rimm, E.B., Willett, W.C., Spiegelman, D., Grodstein, F., Stampfer, M.J., Colditz, G.A., Giovannucci, E. (1999). Recreational physical activity and the risk of cholecystectomy in women. *New England Journal of Medicine* 341, 777–84.
- Lemaitre, R.N., Heckbert, S.R., Psaty, B.M., Siscovick, D.S. (1995). Leisure-time physical activity and the risk of nonfatal myocardial infarction in postmenopausal women. *Archives of Internal Medicine* 155, 2302–8.
- Lemaitre, R.N., Siscovick, D.S., Reghunathan, T.E., Weinmann, S., Arbogast, P., Lin, D.-Y. (1999). Leisure-time physical activity and the risk of primary cardiac arrest. *Archives of Internal Medicine* 159, 686–90.
- Le Marchand, L., Kolonel, L.N., Yoshizawa, C.N. (1991). Lifetime occupational physical activity and prostate cancer risk. *American Journal of Epidemiology* 133, 103–11.
- Lemon, P.W.R. (1998). Effects of exercise on dietary protein requirements. *International Journal of Sport Nutrition* 8, 426–47.
- Lemon, P.W.R., Mullin, J.P. (1980). Effect of initial muscle glycogen levels on protein catabolism during exercise. *Journal of Applied Physiology* 48, 624–29.
- Lemon, W.R. (1987). Protein and exercise: Update 1987. *Medicine and Science in Sports and Exercise* 19(Suppl), S179–90.
- Lempriere, L.R. (1930). Athletics in schools. *Lancet* 1, 679–81.
- Lenton, B. (1981). *Off the Record*. Lenton, Duffy, Australia.
- Lenton, B. (1982). Interview: Deek! *Marathon and Distance Runner* 1 (September), 14–18.
- Lenton, B. (1983a). Franz Stampfl. *Marathon and Distance Runner* 2 (November), 27–32; (December), 48–51.
- Lenton, B. (1983b). *Through the Tape*. Lenton, Duffy, Australia.
- Leon, A.S., Jacobs, D.R., Debacker, G., Taylor, H.L. (1981). Relationship of physical characteristics and life habits to treadmill exercise capacity. *American Journal of Epidemiology* 113, 653–60.
- Leppilahti, J., Karpakka, J., Gorra, A., Puranen, J., Orava, S. (1994). Surgical treatment of overuse injuries to the Achilles tendon. *Clinical Journal of Sport Medicine* 4, 100–7.
- Leshem, M., Abutbul, A., Eilon, R. (1999). Exercise increases the preference for salt in humans. *Appetite* 32, 251–60.
- Leshner, A.I. (1997). Addiction is a brain disease, and it matters. *Science* 278, 45–47.
- Leutkemeier, M.J., Thomas, E.L. (1994). Hypervolemia and cycling time trial performance. *Medicine and Science in Sports and Exercise* 26, 503–9.
- Levine, B.D., Stray-Gundersen, J. (1997). “Living high-training low”: Effects of moderate-altitude acclimatization with low-altitude training on performance. *Journal of Applied Physiology* 83(1), 102–12.
- Levine, B.D., Stray-Gundersen, J., Duhaime, G., Snell, P.G., Friedman, D.B. (1991). “Living high-training low”: The effect of altitude acclimatization/hypoxic training in trained runners. *Medicine and Science in Sports and Exercise* 23, S25.
- Levine, B.D., Stray-Gundersen, J. (1992). A practical approach to altitude training: Where to live and train for optimal performance enhancement. *International Journal of Sports Medicine* 13, S209–12.
- Levine, B.J., Lane, L.D., Buckley, J.C., Friedman, D.B., Blomqvist, C.G. (1991). Left ventricular pressure-volume and Frank-Starling relations in endurance athletes. *Circulation* 84, 1016–23.
- Levine, S.A., Gordon, B., Derick, C.L. (1924). Some changes in the chemical constituents of the blood following a marathon race. *Journal of the American Medical Association* 82, 1778–79.
- Levy, W.C., Cerqueira, M.D., Abrass, I.B., Schwartz, R.S., Stratton, J.R. (1993). Endurance exercise training augments diastolic filling at rest and during exercise in healthy young and older men. *Circulation* 88, 116–26.
- Lewicki, R., Tchorzewski, H., Denys, A., Kowalska, M., Golinska, A. (1987). Effect of physical exercise on some parameters of immunity in conditioned sportsmen. *International Journal of Sports Medicine* 8, 309–14.
- Lewthwaite, R., Scanlan, T.K. (1989). Predictors of competitive trait anxiety in male youth sport participants. *Medicine and Science in Sports and Exercise* 21, 221–29.
- Li, G., Zhang, S., Chen, G., Chen, H., Wang, A. (1985). Radiographic and histologic analyses of stress fracture in rabbit tibias. *American Journal of Sports Medicine* 13, 285–94.
- Liberman, A. (1999). State of the art marathon. *Runner's World* (November), p. 67.
- Liberthson, R.R. (1996). Sudden death from cardiac causes in children and young adults. *New England Journal of Medicine* 334, 1039–44.
- Lichtman, S., Poser, E.G. (1983). The effects of exercise on mood and cognitive functioning. *Journal of Psychosomatic Research* 27, 43–52.
- Lichtman, S.W., Pisarska, K., Berman, E.R., Pestone, M., Dowling, H., Offenbacher, E., Weisel, H., Heshka, S., Matthews, D.E., Heymsfield, S.B. (1992). Discrepancy between self-reported and actual caloric intake and exercise in obese subjects. *New England Journal of Medicine* 327, 1947–48.
- Licking, E.F. (1998). Running to extremes: 100-mile races test the limits of human physiology. *U.S. News and World Report* (July 13).
- Liebetrau, C. (1982). *Psychological Training for Competitive Sport*. Haum, Pretoria, South Africa.
- Lindberg, J.S., Fears, W.B., Hunt, M.M., Powell, M.R., Boll, D., Wade, C.E. (1984). Exercise-induced amenorrhea and bone density. *Annals of Internal Medicine* 101, 647–48.
- Lindeman, A.K. (1999). Quest for ideal weight: Costs and consequences. *Medicine and Science in Sports and Exercise* 31, 1135–40.

- Lindenberg, G., Pinshaw, R., Noakes, T.D. (1984). Iliotibial band friction syndrome in runners. *Physician and Sportsmedicine* 12 (May), 118–30.
- Linderman, J., Fahey, T.D. (1991). Sodium bicarbonate ingestion and exercise performance: An update. *Sports Medicine* 11, 71–77.
- Lindinger, M.I., Heigenhauser, G.J.F. (1988). Ion fluxes during tetanic stimulation in isolated perfused rat hindlimb. *American Journal of Physiology* 254, R117–26.
- Lindle, R.S., Metter, E.J., Lynch, N.A., Fleg, J.L., Fozard, J.L., Tobin, J., Roy, T.A., Hurley, B.F. (1997). Age and gender comparisons of muscle strength in 654 women and men aged 20–93 yr. *Journal of Applied Physiology* 83, 1581–87.
- Lindsay, F.H., Hawley, J.A., Myburgh, K.H., Schomer, H.H., Noakes, T.D., Dennis, S.C. (1996). Improved athletic performance in highly trained cyclists after interval training. *Medicine and Science in Sports and Exercise* 28, 1427–34.
- Lindstedt, S.L., Hokanson, J.F., Wells, D.J., Swain, S.D., Hoppeler, H., Navarro, V. (1991). Running energetics in the pronghorn antelope. *Nature* 353, 748–50.
- Linnell, S.I., Stager, J.M., Blue, P.W., Oyster, N., Robertshaw, D. (1984). Bone mineral content and menstrual regularity in female runners. *Medicine and Science in Sports and Exercise* 16, 343–48.
- Liquori, M., Parker, J.L. (1980). *Marti Liquori's Guide for the Elite Runner*. Playboy Press, Chicago.
- Lissner, I., Odell, P.M., D'Agostino, R.B., Stokes, J., Kreger, B.E., Belanger, A.J., Brownell, K.D. (1991). Mass fluctuation is a risk factor for heart disease. *New England Journal of Medicine* 324, 1839–944.
- Lissner, L., Bengtsson, C., Björkelund, C., Wedel, H. (1996). Physical activity levels and changes in relation to longevity: A prospective study of Swedish women. *American Journal of Epidemiology* 143, 54–62.
- Little, J.C. (1969). The athlete's neurosis: A deprivation crisis. *Acta Psychiatrica Scandinavica* 45, 187–97.
- Little, J.C. (1981). The athlete's neurosis: A deprivation crisis. In M.H. Sacks, M.L. Sachs (Eds.), *The Psychology of Running*. Human Kinetics, Champaign, IL, 249–60.
- Liu, S., Willett, W.C., Stampfer, M.J., Hu, F.B., Franz, M., Sampson, L., Hennekens, C.H., Manson, J.E. (2000). A prospective study of dietary glycemic load, carbohydrate intake, and risk of coronary heart disease in US women. *American Journal of Clinical Nutrition* 71, 1455–61.
- Ljungqvist, R. (1967). Subcutaneous partial rupture of the Achilles tendon. *Acta Orthopaedica Scandinavica (Suppl. 113)*.
- Lloyd, T., Triantafyllou, S.J., Baker, E.R., Houts, P.S., Whiteside, J.A., Kalenak, A., Stumpf, P.G. (1986). Women athletes with menstrual irregularity have increased musculoskeletal injuries. *Medicine and Science in Sports and Exercise* 18, 374–79.
- Loader, W.R. (1960). *Testament of a Runner*. Heinemann, London.
- Loat, C.E.R., Rhodes, E.C. (1989). Jet-lag and human performance. *Sports Medicine* 8, 226–38.
- Lobstein, D.D., Mosbacher, B.J., Ismail, A.H. (1983). Depression as a powerful discriminator between physically active and sedentary middle-aged men. *Journal of Psychosomatic Research* 27, 69–76.
- Løchen, M-L., Rasmussen, K. (1992). The Tromsø study: Physical fitness, self reported physical activity, and their relationship to other coronary risk factors. *Journal of Epidemiology and Community Health* 26, 103–7.
- Lodwick, G.S., Rosenthal, D.I., Kathapuram, S.V., Hudson, T.M. (1987). Fatigue and insufficiency fractures. *Journal of Medical Imaging* 1, 1–9.
- Loftin, M., Boileau, R.A., Massey, B.H., Lohman, T.G. (1988). Effect of arm training on central and peripheral circulatory function. *Medicine and Science in Sports and Exercise* 20, 136–41.
- Loke, J., Mahler, D.A., Virgulto, J.A. (1982). Respiratory muscle fatigue after marathon running. *Journal of Applied Physiology* 52, 821–24.
- Lokey, E.A., Tran, Z.V., Wells, C.L., Myers, B.C., Tran, A.C. (1991). Effects of physical exercise on pregnancy outcomes: a meta-analytic review. *Medicine and Science in Sports and Exercise* 23, 1234–39.
- Londemann, R. (1978). Low haematocrits during basic training: Athlete's anaemia? *New England Journal of Medicine* 299, 1191–92.
- Longley, S., Panush, R.S. (1987). Familial exercise-induced anaphylaxis. *Annals of Allergy* 58, 257–59.
- Longnecker, M.P., Gerhardtson le Verdier, M., Frumkin, H., Carpenter, C. (1995). A case-control study of physical activity in relation to risk of cancer of the right colon and rectum in men. *International Journal of Epidemiology* 24, 42–50.
- Lonka, L., Pedersen, R.S. (1987). Fatal rhabdomyolysis in marathon runner. *Lancet* 1, 857–58.
- Lopes, J.M., Aubier, M., Jardim, J., Aranda, J.V., MacKlem, P.T. (1983). Effect of caffeine on skeletal muscle function before and after fatigue. *Journal of Applied Physiology* 54, 1303–05.
- Lorentzen, D., Lawson, L. (1987). Selected sports bras: A biomechanical analysis of breast motion during running. *Physician and Sports Medicine* 15 (May), 128–39.
- Lortie, G., Simoneau, J.A., Hamel, P., Boulay, M.R., Landry, F., Bouchard, C. (1984). Responses of maximal aerobic power and capacity to aerobic training. *International Journal of Sports Medicine* 5, 232–36.
- Losonczy, K.G., Harns, T.B., Havlik, F.J. (1996). Vitamin E and vitamin C supplement use and risk of all-cause and coronary heart disease mortality in older patients: The established populations for epidemiologic studies of the elderly. *American Journal of Clinical Nutrition* 64, 190–96.
- Lotgering, F.K., Gilbert, R.D., Longo, L.D. (1983). Exercise responses in pregnant sheep: Oxygen consumption, uterine blood flow and blood volume. *Journal of Applied Physiology* 55, 834–41.
- Lotgering, F.K., Gilbert, R.D., Longo, L.D. (1985). Maternal and fetal responses to exercise during pregnancy. *Physiological Reviews* 65, 1–36.
- Loucks, A.B. (1990). Effects of exercise training on the menstrual cycle: Existence and mechanisms. *Medicine and Science in Sports and Exercise* 22, 275–80.
- Loucks, A.B., Heath, E.M. (1994). Dietary restriction reduces luteinizing hormone (LH) pulse frequency during waking hours and increases LH pulse amplitude during sleep in young menstruating women. *Journal of Clinical Endocrinology and Metabolism* 78, 901–15.

- Loucks, A.B., Verdun, M. (1998). Slow restoration of LH pulsatility by refeeding in energetically disrupted women. *American Journal of Physiology* 275, R1218–26.
- Loucks, A.B., Verdun, M., Heath, E.M. (1998). Low energy availability, not stress of exercise, alters LH pulsatility in exercising women. *Journal of Applied Physiology* 84, 37–46.
- Louisy, F., Jouanin, J.C., Guezennec, C.Y. (1997). Filling and emptying characteristics of lower limb venous network in athletes. *International Journal of Sports Medicine* 18, 26–29.
- Louw, J. (1989). Predicting your Comrades performance. *Comrades Marathon Update* (January), 12–13.
- Lovejoy, J.C., Bray, G.A., Bourgeois, M.O., Macchiavelli, R., Rood, J.C., Greenson, C., Partington, C. (1996). Exogenous androgens influence body composition and regional body fat distribution in obese postmenopausal women: A clinical research center study. *Journal of Endocrinology and Metabolism* 81, 2198–203.
- Lovelady, C.A., Lonnerdal, B., Dewey, K.G. (1990). Lactation performance of exercising women. *American Journal of Clinical Nutrition* 52, 103–9.
- Lovesey, P. (1968). *The Kings of Distance*. Eyre and Spottiswoode, Fakenham, Norfolk, England.
- Lowensteyn, I., Joseph, L., Grover, S. (1997). Who needs an exercise stress test? Evaluating the new American College of Sports Medicine risk stratification guidelines. *Journal of Cardiopulmonary Rehabilitation* 17, 253–60.
- Loy, S.F., Conlee, R.K., Winder, W.W., Nelson, A.G., Arnall, D.A., Fisher, A.G. (1986). Effects of 24-hour fast on cycling endurance time at two different intensities. *Journal of Applied Physiology* 61, 654–59.
- Lucía, A., Chicharro, J.L., Pérez, M., Serratos, L., Bandrés, F., Legido, J.C. (1996). Reproductive function in male endurance athletes: sperm analysis and hormonal profile. *Journal of Applied Physiology* 81, 2627–36.
- Lucía, A., Hoyos, J., Pérez, M., Chicharro, J.L. (2000). Heart rate and performance parameters in elite cyclists: A longitudinal study. *Medicine and Science in Sports and Exercise* 32, 1777–82.
- Ludwig, D.S. (2000). Dietary glycemic index and obesity. *Journal of Nutrition* 130, 280S–83S.
- Ludwig, D.S., Majzoub, J.A., Al-Zahrani, A., Dallal, G., Blanco, I., Roberts, S.B. (1999). High glycemic index foods, overeating, and obesity. *Pediatrics* 103, E261–66.
- Ludwig, D.S., Peterson, K.E., Gortmaker, S.L. (2001). Relation between consumption of sugar-sweetened drinks and childhood obesity: A prospective, observation analysis. *Lancet* 357, 505–8.
- Luger, A., Deuster, P.A., Gold, P.W., Loriaux, D.D., Chrousos, G.P. (1988). Hormonal responses to the stress of exercise. *Advances in Experimental Medicine and Biology* 245, 273–80.
- Lugo, M., Sherman, W.M., Wimer, G.S., Garleb, K. (1993). Metabolic responses when different forms of carbohydrate energy are consumed during cycling. *International Journal of Sport Nutrition* 3, 398–407.
- Lukaski, H.C., Bolonchuk, W.W., Klevay, L.M., Milne, D.B., Sandstead, H.H. (1983). Maximal oxygen consumption as related to magnesium, copper, and zinc nutriture. *American Journal of Clinical Nutrition* 37, 407–15.
- Lukaski, H.C., Hall, C.B., Siders, W.A. (1991). Altered metabolic response of iron-deficient women during graded, maximal exercise. *European Journal of Applied Physiology* 63, 140–45.
- Lussier, L., Burkirk, E.R. (1977). Effects of an endurance training regimen on assessment of work capacity in pre-pubertal children. *Annals of the New York Academy of Sciences* 301, 734–47.
- Luthala, S. (2001). *The Best of Running*. Meyer and Meyer Verlag, Aachen, Germany.
- Lutter, J.M. (1983). Mixed messages about osteoporosis in female athletes. *Physician and Sportsmedicine* 11 (September), 154–65.
- Lutter, J.M. (1994). History of women in sports: Societal issues. *Clinics in Sports Medicine* 13, 263–79.
- Lutter, J.M., Cushman, S. (1982). Menstrual patterns in female runners. *Physician and Sportsmedicine* 10 (September), 60–72.
- Lydiard, A., Gilmour, G. (1962). *Run to the Top*. Reed, Wellington, England.
- Lydiard, A., Gilmour, G. (1978). *Running the Lydiard Way*. World, Mountain View, CA.
- Lynch, J., Helmrich, S.P., Lakka, T.A., Kaplan, G.A., Cohen, R.D., Salonen, R., Salonen, J.T. (1996). Moderately intense physical activities and high levels of cardiorespiratory fitness reduce the risk of non-insulin-dependent diabetes mellitus in middle-aged men. *Archives of Internal Medicine* 156, 1307–14.
- Lynch, J., Wang, X.L., Wilcken, D.E.L. (2000). Body mass index in Australian children: Recent changes and relevance of ethnicity. *Archives of Diseases in Childhood* 82, 16–20.
- Lynch, P. (1980). Soldiers, sport and sudden death. *Lancet* 1, 1235–37.
- Macaraeg, P.V.J. (1983). Influence of carbohydrate electrolyte ingestion on running endurance. In E.L. Fox (Ed.), *Nutrient Utilisation During Exercise*. Ross Laboratories, Columbus, OH, 91–96.
- MacConnie, S.E., Barkan, A., Lampman, R.M., Schork, M.A., Beitins, I.Z. (1986). Decreased hypothalamic gonadotropin-releasing hormone secretion in male marathon runners. *New England Journal of Medicine* 315, 411–17.
- MacDougall, J.D., Hicks, A.L., MacDonald, J.R., McKelvie, R.S., Green, H.J., Smith, K.M. (1998). Muscle performance and enzymatic adaptations to sprint interval training. *Journal of Applied Physiology* 84, 2138–42.
- MacDougall, J.D., Reddan, W.G., Layton, C.R., Dempsey, J.A. (1974). Effects of metabolic hyperthermia on performance during heavy prolonged exercise. *Journal of Applied Physiology* 36, 538–44.
- MacDougall, J.D., Roche, P.D., Bar-Or, O., Moroz, J.R. (1983). Maximal aerobic capacity of Canadian schoolchildren: Prediction based on age-related oxygen cost of running. *International Journal of Sports Medicine* 4, 194–98.
- MacDougall, J.D., Webber, C.E., Martin, J., Ormerod, S., Chesley, A., Younglai, E.V., Gordon, C.L., Blimkie, C.J.R. (1992). Relationship among running mileage, bone density, and serum testosterone in male runners. *Journal of Applied Physiology* 73, 1165–70.
- Macera, C.A., Pate, R.R., Powell, K.E., Jackson, K.L., Kendrick, J.S., Craven, T.E. (1989). Predicting lower-extremity injuries among habitual runners. *Archives of Internal Medicine* 149, 2565–68.

- Macfarlane, G.J., Lowenfels, A.B. (1994). Physical activity and colon cancer. *European Journal of Cancer Prevention* 3, 393–98.
- MacIntosh, B.R., Wright, B.M. (1995). Caffeine ingestion and performance of a 1500-metre swim. *Canadian Journal of Applied Physiology* 20, 168–77.
- MacIntyre, D.L., Reid, W.D., McKenzie, D.C. (1995). Delayed muscle soreness: The inflammatory response to muscle injury and its clinical implications. *Sports Medicine* 20, 24–40.
- MacIntyre, J.G., Taunton, J.E., Clement, D.B., Lloyd-Smith, D.R., McKenzie, D.C., Morrell, R.W. (1991). Running injuries: A clinical study of 4,173 cases. *Clinical Journal of Sports Medicine* 1, 81–87.
- Mackay, D. (1999). Running the Kenyan training myths into the ground. *Mail and Guardian* (March 26–April 1), 50.
- MacKelvie, K.J., Taunton, J.E., McKay, H.A., Khan, K.M. (2000). Bone mineral density and serum testosterone in chronically trained, high mileage 40–55 year old male runners. *British Journal of Sports Medicine* 34, 273–78.
- Mackinnon, L.T., Chick, T.W., van As, A., Tomasi, T.B. (1987). The effect of exercise on secretory and natural immunity. *Advances in Experimental Medicine and Biology* 216A, 869–76.
- Mackinnon, L.T., Jenkins, D.G. (1993). Decreased salivary immunoglobulins after intense interval exercise before and after training. *Medicine and Science in Sports and Exercise* 25, 678–83.
- MacLaren, D.P.M., Reilly, T., Campbell, I.T., Frayn, K.N. (1994). Hormonal and metabolite responses to glucose and maltodextrin ingestion with or without the addition of guar gum. *International Journal of Sports Medicine* 15, 466–71.
- MacLaren, D.P.M., Reilly, T., Campbell, I.T., Hopkin, C. (1999). Hormonal and metabolic responses to maintained hyperglycemia during prolonged exercise. *Journal of Applied Physiology* 87, 124–31.
- MacLean, D.A., Graham, T.E. (1993). Branched-chain amino acid supplementation augments plasma ammonia responses during exercise in humans. *Journal of Applied Physiology* 74, 2711–17.
- MacLean, D.A., Spriet, L.L., Hultman, E., Graham, T.E. (1991). Plasma and muscle amino acid and ammonia responses during prolonged exercise in humans. *Journal of Applied Physiology* 70, 2095–103.
- MacLennan, D.H., Duff, C., Zorzato, F., Fujii, J., Phillips, M., Korneluk, R.G., Frodis, W., Britt, B.A., Worton, R.G. (1990). Ryanodine receptor gene is a candidate for predisposition to malignant hyperthermia. *Nature* 343, 559–61.
- MacLeod, S. (1981). *The Art of Starvation*. Virago, London.
- MacMahon, J.R., Gross, R.T. (1988). Physical and psychological effects of aerobic exercise in delinquent adolescent males. *American Journal of Diseases in Childhood* 142, 1361–66.
- Macrae, H.S.-H., Dennis, S.C., Bosch, A.N., Noakes, T.D. (1992). Effects of training on lactate production and removal during progressive exercise in humans. *Journal of Applied Physiology* 72, 1649–56.
- MacSearraigh, E.T.M., Kallmeyer, J.C., Schiff, H.B. (1979). Acute renal failure in marathon runners. *Nephron* 24, 236–40.
- Madsen, K., Pedersen, P.K., Djurhuus, M.S., Klitgaard, N.A. (1993). Effects of detraining on endurance capacity and metabolic changes during prolonged exhaustive exercise. *Journal of Applied Physiology* 75, 1444–51.
- Madsen, K., Pedersen, P.K., Rose, P., Richter, E.A. (1990). Carbohydrate supercompensation and muscle glycogen utilization during exhaustive running in highly trained athletes. *European Journal of Applied Physiology* 61, 467–72.
- Maehlum, S., Grandmontagne, M., Newsholme, E.A., Sejersted, O.M. (1986). Magnitude and duration of excess postexercise oxygen consumption in healthy young subjects. *Metabolism* 35, 425–29.
- Maes, H.H.M., Beunen, G.P., Vlietinck, R.F., Neale, M.C., Thomis, M., Vanden Eynde, B., Lysens, R., Simons, J., Derom, C., Derom, R. (1996). Inheritance of physical fitness in 10-yr-old twins and their parents. *Medicine and Science in Sports and Exercise* 28, 1479–91.
- Maffetone, P. (1996). *Training for Endurance*. Barmore, Stamford, NY.
- Maffulli, N., Barrass, V., Ewen, S.W.B. (2000). Light microscopic histology of Achilles tendon ruptures. *American Journal of Sports Medicine* 28, 857–63.
- Maffulli, N., Testa, V., Capasso, G., Bifulco, G., Binfield, P.M. (1997). Results of percutaneous longitudinal tenotomy for Achilles tendinopathy in middle- and long-distance runners. *American Journal of Sports Medicine* 25, 835–40.
- Makrides, L., Heigenhuser, G.J., Jones, N.L. (1990). High-intensity endurance training in 20- to 30- and 60- to 70-year-old healthy men. *Journal of Applied Physiology* 69(5), 1792–98.
- Malik, M.O.A. (1979). Sudden coronary deaths associated with sexual activity. *Journal of Forensic Science* 24, 216–20.
- Malina, R.M. (1983). Menarche in athletes: A synthesis and hypothesis. *Annals of Human Biology* 10, 1–24.
- Malina, R.M. (1994a). Physical activity and training: Effects on stature and the adolescent growth spurt. *Medicine and Science in Sports and Exercise* 26, 759–66.
- Malina, R.M. (1994b). Physical growth and biological maturation of young athletes. *Exercise and Sport Science Reviews* 22, 389–434.
- Malina, R.M., Spirduso, W.W., Tate, C., Baylor, A.M. (1978). Age at menarche and selected menstrual characteristics in athletes at different competitive levels and in different sports. *Medicine and Science in Sports* 10, 218–22.
- Malinow, M.R., Duell, P.B., Hess, D.L., Anderson, P.H., Kruger, W.D., Phillipson, B.E., Gluckman, R.A., Block, P.C., Upson, B.M. (1998). Reduction of plasma homocyst(e)ine levels by breakfast cereal fortified with folic acid in patients with coronary heart disease. *New England Journal of Medicine* 338, 1009–15.
- Manfredi, T.G., Fielding, R.A., O'Reilly, K.P., Meredith, C.N., Lee, H.Y., Evans, W.J. (1991). Plasma creatine kinase activity and exercise-induced muscle damage in older men. *Medicine and Science in Sports and Exercise* 23, 1028–34.
- Manier, J., Deardorff, J. (1998). Marathon death stirs questions: Chicago race victim dies of heart attack. *Chicago Tribune* (October 16).
- Manners, J. (1998) *Kenya's Running Tribe*. [Online]. Available: [http://mulder.umist.ac.uk/sport/2\\_art2.htm](http://mulder.umist.ac.uk/sport/2_art2.htm) [March 29, 2002].

- Manners, J. (1996). Master racers. *Time* (July 22), 47.
- Manning, J.T., Pickup, L.J. (1998). Symmetry and performance in middle distance runners. *International Journal of Sports Medicine* 19, 205–9.
- Mannion, A.F., Jakeman, P.M., Willan, P.L.T. (1995). Skeletal muscle buffer value, fibre type distribution and high intensity exercise performance in man. *Experimental Physiology* 80, 89–101.
- Manson, J.E., Hu, F.B., Rich-Edwards, J.W., Colditz, G.A., Stampfer, M.J., Willett, W.C., Speizer, F.E., Hennekens, C.H. (1999). A prospective study of walking as compared with vigorous exercise in the prevention of coronary heart disease in women. *New England Journal of Medicine* 341, 650–58.
- Manson, J.E., Nathan, D.M., Krolewski, A.S., Stampfer, M.J., Willett, W.C., Hennekens, C.H. (1992). A prospective study of exercise and incidence of diabetes among U.S. male physicians. *Journal of the American Medical Association* 268, 63–67.
- Manson, J.E., Rimm, E.B., Stampfer, M.J., Colditz, G.A., Willett, W.C., Krolewski, A.S., Rosner, B., Hennekens, C.H., Speizer, F.E. (1991). Physical activity and incidence of non-insulin-dependent diabetes mellitus in women. *Lancet* 338, 774–78.
- Manson, J.E., Willett, W.C., Stampfer, M.J., Colditz, G.A., Hunter, D.J., Hankinson, S.E., Hennekens, C.H., Speizer, F.E. (1995). Body weight and mortality among women. *New England Journal of Medicine* 333, 677–85.
- Marcinik, E.J., Potts, J., Schlabach, G., Will, S., Dawson, P., Hurley, B.F. (1991). Effects of strength training on lactate threshold and endurance performance. *Medicine and Science in Sports and Exercise* 23, 739–43.
- Marcoux, S., Brisson, J., Fabia, J. (1989). The effect of leisure time physical activity on the risk of pre-eclampsia and gestational hypertension. *Journal of Epidemiology and Community Health* 43, 147–52.
- Marcus, B.H., Albrecht, A.E., Niaura, R.S., Abrams, D.B., Thompson, P.D. (1991). Usefulness of physical exercise for maintaining smoking cessation in women. *American Journal of Cardiology* 68, 406–7.
- Marcus, B.H., Albrecht, A.E., Niaura, R.S., Taylor, E.R., Simkin, L.R., Feder, S.I., Abrams, D.B., Thompson, P.D. (1995). Exercise enhances the maintenance of smoking cessation in women. *Addictive Behaviour* 20, 87–92.
- Marcus, P.M., Newcomb, P.A., Storer, B.E. (1994). Early adulthood physical activity and colon cancer risk among Wisconsin women. *Cancer Epidemiology and Biomarkers and Prevention* 3, 641–44.
- Marcus, R., Cann, C., Madrig, P., Minkoff, J., Goddard, M., Bayer, M., Martin, M., Gaudiani, L., Haskell, W., Genant, H. (1985). Menstrual function and bone mass in elite women distance runners: Endocrine and metabolic features. *Annals of Internal Medicine* 102, 158–63.
- Margulies, J.Y., Simkin, A., Leichter, I., Bivas, A., Steinberg, R., Giladi, M., Stein, M., Kashtan, H., Milgrom, C. (1986). Effect of intense physical activity on the bone-mineral content in the lower limbs of young adults. *Journal of Bone and Joint Surgery* 68A, 1090–93.
- Marino, F.E., Mbambo, Z., Kortekaas, E., Wilson, G., Lambert, M.I., Noakes, T.D., Dennis, S.C. (2000). Advantages of smaller body mass during distance running in warm, humid environments. *Pflügers Archives* 441, 359–67.
- Maron, B.J. (1992). New observations on the interrelation of dynamic subaortic obstruction and exercise in hypertrophic cardiomyopathy. *Journal of the American College of Cardiology* 19, 534–35.
- Maron, B.J., Pelliccia, A., Spirito, P. (1995). Cardiac disease in young trained athletes. *Circulation* 91, 1596–601.
- Maron, B.J., Poliac, L.C., Roberts, W.O. (1996). Risk for sudden cardiac death associated with marathon running. *Journal of the American College of Cardiology* 28, 428–31.
- Maron, B.J., Roberts, W.C., Epstein, S.E. (1982). Sudden death in hypertrophic cardiomyopathy: A profile of 78 patients. *Circulation* 65, 1388–94.
- Maron, B.J., Shirani, J., Poliac, L.C., Mathenge, R., Roberts, W.C., Mueller, F.O. (1996). Sudden death in young competitive athletes: Clinical, demographic, and pathologic profiles. *Journal of the American Medical Association* 276, 199–204.
- Marples, D. (2000). Water channels: Who needs them anyway? *Lancet* 355, 1571–72.
- Marrella, M., Guerrini, F., Tregnaghi, P.L., Chiesa, M., Velo, G.P., Milanino, R. (1990). Effect of exercise on copper, zinc and ceruloplasmin levels in blood of athletes. *Metal Ions in Biology and Medicine* 33, 111–13.
- Marrugat, J., Elosua, R., Covas, M.I., Molina, L., Rubiés-Prat, J. (1996). Amount and intensity of physical activity, physical fitness, and serum lipids in men: The MARATHOM Investigators. *American Journal of Epidemiology* 143, 562–69.
- Marsal, K., Lofgren, O., Gennser, G. (1979). Fetal breathing movements and maternal exercise. *Acta Obstetrica Gynecologica Scandinavica* 58, 197–201.
- Marsh, D., Sleivert, G. (1999). Effect of precooling on high intensity cycling performance. *British Journal of Sports Medicine* 33, 393–97.
- Martens, M., Libbrecht, P., Burssens, A. (1989). Surgical treatment of the iliotibial band friction syndrome. *American Journal of Sports Medicine* 17, 651–54.
- Martens, M.A., Backaert, M., Vermaut, G., Mulier, J.C. (1984). Chronic leg pain in athletes due to a recurrent compartment syndrome. *American Journal of Sports Medicine* 12, 148–51.
- Marti, B. (1988). Benefits and risks of running among women: An epidemiologic study. *International Journal of Sports Medicine* 9, 92–98.
- Marti, B., Abelin, T., Minder, C.E., Vader, J.P. (1988). Smoking, alcohol consumption, and endurance capacity: an analysis of 6,500 19-year-old conscripts and 4,100 joggers. *Preventive Medicine* 17, 79–92.
- Marti, B., Howald, H. (1990). Long-term effects of physical training on aerobic capacity: Controlled study of former elite athletes. *Journal of Applied Physiology* 69, 1451–59.
- Marti, B., Knobloch, M., Riesen, W.F., Howald, H. (1991). Fifteen-year changes in exercise, aerobic power, abdominal fat, and serum lipids in runners and controls. *Medicine and Science in Sports and Exercise* 23, 115–22.
- Marti, B., Knobloch, M., Tschopp, A., Jucker, A., Howald, H. (1989). Is excessive running predictive for degenerative hip disease? A controlled study of former elite athletes. *British Medical Journal* 299, 91–93.
- Marti, B., Vader, J.P. (1987). Joggers grow old. *Lancet* 1, 1207.



- Marti, B., Vader, J.P., Minder, C.E., Abelin, T. (1988). On the epidemiology of running injuries. *American Journal of Sports Medicine* 16, 285–94.
- Martin, B.J. (1981). Effect on sleep deprivation on tolerance of prolonged exercise. *European Journal of Applied Physiology* 47, 345–54.
- Martin, D.E., Benario, H.W., Gynn, R.W.H. (1977). Development of the marathon from Pheidippides to the present, with statistics of significant races. *Annals of the New York Academy of Sciences* 301, 820–52.
- Martin, D.E., Coe, P.N. (1997). Better Training for Distance Runners. Human Kinetics, Champaign, IL.
- Martin, D.E., Gynn, R.W.H. (1979). The marathon footrace. In *Performers and Performances*. Thomas, Springfield, IL.
- Martin, D.E., Gynn, R.W.H. (2000). *The Olympic Marathon*. Human Kinetics, Champaign, IL.
- Martin, D.T., Scifres, J.C., Zimmerman, S.D., Wilkinson, J.G. (1994). Effects of interval training and a taper on cycling performance and isokinetic leg strength. *International Journal of Sports Medicine* 15, 485–91.
- Martin, J.E., Dubbert, P.M. (1984). Behavioral management strategies for improving health and fitness. *Journal of Cardiac Rehabilitation* 4, 200–8.
- Martin, P.E. (1985). Mechanical and physiological responses to lower extremity loading during running. *Medicine and Science in Sports and Exercise* 17, 427–33.
- Martin, W.H. (1997). Effect of endurance training on fatty acid metabolism during whole body exercise. *Medicine and Science in Sports and Exercise* 29, 635–39.
- Martin, W.H., Dalsky, G.P., Hurley, B.F., Matthews, D.E., Bier, D.M., Hagberg, J.M., Rogers, M.A., King, D.S., Holloszy, J.O. (1993). Effect of endurance training on plasma free fatty acid turnover and oxidation during exercise. *American Journal of Physiology* 265, E708–14.
- Martinez, M.E., Giovannucci, E., Spiegelman, D., Hunter, D.J., Willett, W.C., Colditz, G.A. (1997). Leisure-time physical activity, body size, and colon cancer in women. *Journal of the National Cancer Institute* 89, 948–55.
- Martinsen, E.W., Medhus, A., Sandvik, L. (1985). Effects of aerobic exercise on depression: A controlled study. *British Medical Journal* 291, 109.
- Martsui, H., Miyashita, M., Kiura, M., Kabayshi, K., Hoshikawa, T., Kamei, S. (1972). Maximum oxygen intake and its relationship to body weight of Japanese adolescents. *Medicine and Science in Sports* 3, 170–75.
- Marvin, G., Nobbs, L., Sharma, A., Jones, D.A. (1999). Hypothalamic thermoreceptors and central fatigue. *Journal of Sports Sciences* 17, 580–81.
- Marx, J. (1994). Obesity gene discovery may help solve weighty problem. *Science* 266, 1477–78.
- Marymont, J.V., Lynch, M.A., Henning, C.E. (1986). Exercise-related stress reaction of the sacroiliac joint: An unusual cause of low back pain in athletes. *American Journal of Sports Medicine* 14, 320–23.
- Mason, W.L., McConell, G., Hargreaves, M. (1993). Carbohydrate ingestion during exercise: Liquid vs solid feedings. *Medicine and Science in Sports and Exercise* 15, 966–69.
- Massey, E.W. (1982). Effort headache in runners. *Headache* 22, 99–100.
- Massicotte, D., Péronnet, F., Allah, C., Hillaire-Marcel, C., Ledoux, M., Brisson, G. (1986). Metabolic response to [13C] glucose and [13C] fructose ingestion during exercise. *Journal of Applied Physiology* 61, 1180–84.
- Massicotte, D., Péronnet, F., Brisson, G., Bakkouch, K., Hillaire-Marcel, C. (1989). Oxidation of a glucose polymer during exercise: Comparison with glucose and fructose. *Journal of Applied Physiology* 66, 179–83.
- Massicotte, D., Péronnet, F., Brisson, G.R., Hillaire-Marcel, C. (1992). Oxidation of exogenous medium-chain free fatty acids during prolonged exercise: Comparison with glucose. *Journal of Applied Physiology* 73, 1334–39.
- Massicotte, D., Péronnet, F., Brisson, G., Boivin, L., Hillaire-Marcel, C. (1990). Oxidation of exogenous carbohydrate during prolonged exercise in fed and fasted conditions. *International Journal of Sports Medicine* 11, 253–58.
- Massicotte, D., Péronnet, F., Tremblay, C., Bronsard, É., Hillaire-Marcel, C. (1996). Lack of effect of NaCl and/or metoclopramide on exogenous (13C)-glucose oxidation during exercise. *International Journal of Sports Medicine* 17, 165–69.
- Massicotte, D., Provencher, S., Adopo, E., Péronnet, F., Brisson, G., Hillaire-Marcel, C. (1993). Oxidation of ethanol at rest and during prolonged exercise in men. *Journal of Applied Physiology* 75, 329–33.
- Matheson, G.O. (2000). Positive coaching. *Physician and Sportsmedicine* 28 (June), 7.
- Matheson, G.O., Clement, D.B., McKenzie, D.C., Taunton, J.E., Lloyd-Smith, D.R., Macintyre, J.G. (1987). Scintigraphic uptake of 99m Tc at non-painful sites in athletes with stress fractures: The concept of bone strain. *Sports Medicine* 4, 65–75.
- Matin, P., Lang, G., Carretta, R., Simon, G. (1983). Scintigraphic evaluation of muscle damage following extreme exercise: Concise communication. *Journal of Nuclear Medicine* 24, 308–11.
- Matson, L.G., Tran, Z.V. (1993). Effects of sodium bicarbonate ingestion on anaerobic performance: A meta-analytic review. *International Journal of Sport Nutrition* 3, 2–28.
- Matter, M., Stittfall, T., Graves, J., Myburgh, K., Adams, B., Jacobs, P., Noakes, T.D. (1987). The effects of iron and folate therapy on maximal exercise performance in iron and folate deficient marathon runners. *Clinical Science* 72, 415–22.
- Maud, P.J., Pollock, M.L., Foster, C., Anholm, J.D., Guten, G., Al-Nouri, M., Hellman, C., Schmidt, D.H. (1981). Fifty years of training and competition in the marathon: Wally Hayward, age 70—a physiological profile. *South African Medical Journal* 59, 153–57.
- Maughan, R.J. (1985). Thermoregulation in marathon competition at low ambient temperature. *International Journal of Sports Medicine* 6, 15–19.
- Maughan, R.J. (1986). Exercise-induced muscle cramp: A prospective biochemical study in marathon runners. *Journal of Sports Sciences* 4, 31–34.
- Maughan, R.J. (1990). Marathon running. In T. Reilly, N. Secher, P. Snell, C. Williams (Eds.), *Physiology of Sports*. Spon, London, 121–52.
- Maughan, R.J., Bethell, L.R., Leiper, J.B. (1996). Effects of ingested fluids on exercise capacity and on cardiovascular and metabolic responses to prolonged exercise in man. *Experimental Physiology* 81, 847–59.

- Maughan, R.J., Donnelly, A.E., Gleeson, M., Whiting, P.H., Walker, K.A., Cough, P.J. (1989). Delayed-onset muscle damage and lipid peroxidation in man after a downhill run. *Muscle and Nerve* 12(4), 332–36.
- Maughan, R.J., Leiper, J.B. (1983). Aerobic capacity and fractional utilization of aerobic capacity in elite and non-elite male and female marathon runners. *European Journal of Applied Physiology* 52, 80–87.
- Maughan, R.J., Leiper, J.B. (1995). Sodium intake and post-exercise rehydration in man. *European Journal of Applied Physiology* 71, 311–19.
- Maughan, R.J., Leiper, J.B., McGaw, B.A. (1990). Effects of exercise intensity on absorption of ingested fluids in man. *Experimental Physiology* 75, 419–21.
- Maughan, R.J., Poole, D.C. (1981). The effects of a glycogen-loading regimen on the capacity to perform anaerobic exercise. *European Journal of Applied Physiology* 46, 211–19.
- Mayer, J. (1953). Genetic, traumatic and environmental factors in obesity. *Physiological Reviews* 33, 472–508.
- Mayer, J. (1965). Genetic factors in human obesity. *Annals of the New York Academy of Sciences* 131, 412–21.
- Mayers, L.B., Noakes, T.D., (2000). A guide to treating Ironman triathletes at the finish line. *Physician and Sportsmedicine* 28 (August), 35–50.
- Mbambo, Z. (1999). Monitoring of training and racing of long distance runners using rate monitors. MSc thesis, University of Cape Town, Cape Town, South Africa.
- Mbambo, Z.H., Lambert, M.I. (2000). Variations in the heart rate of an elite long distance runner during races of varying distances. *Sports Medicine (South Africa)* (April), 17–20.
- McAlindon, T.E., Wilson, P.W.F., Aliabadi, P., Weissman, B., Felson, D.T. (1999). Level of physical activity and the risk of radiographic and symptomatic knee osteoarthritis in the elderly: The Framingham Study. *American Journal of Medicine* 106, 151–57.
- McArthur, J.W. (1982). Influence of body mass, body composition and exercise. In C. Flamigni, J.R. Givens (Eds.), *The Gonadotrophins: Basic Science and Clinical Aspects in Females*, Serona Symposium No. 42. Academic Press, New York, 203–15.
- McArthur, K.E., Feldman, M. (1989). Gastric acid secretion, gastrin release, and gastric emptying in humans as affected by liquid meal temperature. *American Journal of Clinical Nutrition* 49, 51–54.
- McArthur, P.S., Noakes, T.D., Gevers, W., Miller, R. (1983). Studies of the metabolic basis of fatigue during marathon and ultra-marathon races. *South African Journal for Research in Sport, Physical Education and Recreation* 6, 49–57.
- McCabe, M.E., Peura, D.A., Kadakia, S.C., Bocek, Z., Johnson, L.F. (1986). Gastro-intestinal blood loss associated with running a marathon. *Digestive Diseases and Sciences* 31, 1229–32.
- McCamish, M. (1999). Recombinant leptin, for weight loss in obese and lean adults. *Journal of the American Medical Association* 282, 1568–75.
- McCann, I.L., Holmes, D.S. (1984). Influence of aerobic exercise on depression. *Journal of Personal and Social Psychology* 46, 1142–47.
- McCaw, S.T., Heil, M.E., Hamill, J. (2000). The effect of comments about shoe construction on impact forces during walking. *Medicine and Science in Sports and Exercise* 32, 1258–64.
- McConnell, G., Kloot, K., Hargreaves, M. (1996). Effect of timing of carbohydrate ingestion on endurance exercise performance. *Medicine and Science in Sports and Exercise* 28, 1300–1304.
- McConnell, G.K., Burge, C.M., Skinner, S.L., Hargreaves, M. (1997). Influence of ingested fluid volume on physiological responses during prolonged exercise. *Acta Physiologica Scandinavica* 160, 149–56.
- McConnell, G.K., Costill, D.L., Widrick, J.J., Hickey, M.S., Tanaka, H., Gastin, P.B. (1993). Reduced training volume and intensity maintain aerobic capacity but not performance in distance runners. *International Journal of Sports Medicine* 14, 33–37.
- McConnell, G.K., Stephens, T.J., Canny, B.J. (1999). Fluid ingestion does not influence intense 1-h exercise performance in a mild environment. *Medicine and Science in Sports and Exercise* 31, 386–92.
- McCormack, R.G. (1994). Arthroscopic division of symptomatic synovial plicae of the knee. *Clinical Journal of Sport Medicine* 4, 141.
- McCorry, J.A., Martin, D.F., Lowery, R.B., Cannon, D.W., Curl, W.W., Read, H.M., Hunter, D.M., Craven, T., Messier, S.P. (1999). Etiologic factors associated with Achilles tendinitis in runners. *Medicine and Science in Sports and Exercise* 31, 1374–81.
- McCorry, P. (2000). Headaches and exercise. *Sports Medicine* 30, 221–29.
- McCutcheon, L., Ayres, A. (1983). Are runners really like anorectics? *Running Times* (June), 14–18.
- McDonald, R., Keen, C.L. (1988). Iron, zinc and magnesium nutrition and athletic performance. *Sports Medicine* 5, 171–84.
- McKechnie, J.K., Leary, W.P., Noakes, T.D., Kallmeyer, J.C., MacSearraigh, E.T.M., Olivier, L.R. (1979). Acute pulmonary oedema in two athletes during a 90-km running race. *South African Medical Journal* 56, 261–65.
- McKechnie, J.K., Reid, J.V.O., Joubert, S.M. (1970). The effect of dietary sucrose on the performance of marathon runners. *South African Medical Journal* 20, 728–31.
- McKenzie, D.C. (1999). Markers of excessive exercise. *Canadian Journal of Applied Physiology* 24, 66–73.
- McKenzie, D.C., Clement, D.B., Taunton, J.E. (1985). Running shoes, orthotics, and injuries. *Sports Medicine* 2, 334–47.
- McKenzie, D.C., Coutts, K.D., Stirling, D.R., Hoeben, H.H., Kuzara, G. (1986). Maximal work production following two levels of artificially induced metabolic alkalosis. *Journal of Sports Sciences* 4, 35–38.
- McKenzie, R.T. (1923). *Exercise in Education and Medicine*. Saunders, London.
- McKenzie, S., Phillips, S., Carter, S.L., Lowther, S., Gibala, M.J., Tarnopolsky, M.A. (2000). Endurance exercise training attenuates leucine oxidation and branched-chain 2-oxo acid dehydrogenase activation during exercise in humans. *American Journal of Physiology* 278, E580–87.
- McMahon, L.F., Ryan, M.J., Larson, D., Fisher, R.L. (1984). Occult gastrointestinal blood loss in marathon runners. *Annals of Internal Medicine* 101, 846–47.
- McMahon, T.A., Greene, P.R. (1978). Fast running tracks. *Scientific American* 243 (December), 112–21.

- McMahon, T.A., Greene, P.R. (1979). The influence of track compliance on running. *Journal of Biomechanics* 12, 893–904.
- McNab, T. (1982). *Flanagan's Run*. Hodder and Stoughton, London.
- McNaughton, L., Curtin, R., Goodman, G., Perry, D., Turner, B., Showell, C. (1991). Anaerobic work and power output during cycle ergometer exercise: Effects of bicarbonate loading. *Journal of Sports Sciences* 9, 151–60.
- McNaughton, L., Dalton, B., Palmer, G. (1999). Sodium bicarbonate can be used as an ergogenic aid in high-intensity, competitive cycle ergometry of 1 h duration. *European Journal of Applied Physiology* 80, 64–69.
- McNaughton, L., Preece, D. (1986). Alcohol and its effects on sprint and middle distance running. *British Journal of Sports Medicine* 20, 56–59.
- McPherson, B.D., Paivio, A., Vuhasz, M.S., Rechnitzer, P.A., Pickard, H.A., Lefcoe, N.M. (1967). Psychological effects of an exercise program for post-infarct and normal adult men. *Journal of Sports Medicine and Physical Fitness* 7, 95–102.
- McTiernan, A. (1997). Exercise and breast cancer: Time to get moving? *New England Journal of Medicine* 336, 1311–12.
- Meade, T.W. (1995). Exercise and haemostatic function. *Journal of Cardiovascular Risk* 2, 323–29.
- Meadow, R. (1977). Munchausen syndrome by proxy: The hinterland of child abuse. *Lancet* 2, 343–45.
- Meadow, R. (1987). Munchausen syndrome by proxy. *Archives of Childhood Diseases* 57, 92–98.
- Medical World News (1984). Jogger Jim Fixx ran a risky race against his family history and CAD warnings. *Medical World News*, (August 27).
- Mehaffey, J. (1986). De Castella sporting new philosophy. *Asahi Evening News* (August 21).
- Mehta, J., Lopez, L.M., Wargovich, T. (1987). Eicosapentaenoic acid: Its relevance in atherosclerosis and coronary artery disease. *American Journal of Cardiology* 59, 155–59.
- Meijer, G.A., Janssen, G.M., Westertero, K.R., Verhoeven, F., Saris, W.H., ten Hoor, F. (1991). The effect of a 5-month endurance-training programme on physical activity: Evidence for a sex-difference in the metabolic response to exercise. *European Journal of Applied Physiology* 62, 11–17.
- Mellerowicz, H., Barron, D.K. (1971). Overtraining. In L.A. Larson, D.E. Hermann (Eds.), *Encyclopaedia of Sports Science and Medicine*. Macmillan, New York, 1310–12.
- Mendenhall, L.A., Swanson, S.C., Habash, D.L., Coggan, A.R. (1994). Ten days of exercise training reduces glucose production and utilization during moderate-intensity exercise. *American Journal of Physiology* 266, E136–43.
- Mercier, D., Leger, L., Desjardins, M. (1986). Normogram to predict performance equivalence for distance runners. *Track Technique* 94, 3004–3009.
- Meredith, C.N., Frontera, W.R., Fisher, E.C., Hughes, V.A., Herland, J.C., Edwards, J., Evans, W.J. (1989). Peripheral effects of endurance training in young and old subjects. *Journal of Applied Physiology* 66, 2844–49.
- Meredith, C.N., Zackin, M.J., Frontera, W.R., Evans, W.J. (1989). Dietary protein requirements and body protein metabolism in endurance-trained men. *Journal of Applied Physiology* 66, 2850–56.
- Merians, D.R., Haskell, W.L., Vranizan, K.M., Phelps, J., Wood, P.D., Superko, R. (1985). Relationship of exercise, oral contraceptive use, and body fat to concentration of plasma lipids and lipoprotein cholesterol in young women. *American Journal of Medicine* 78, 913–19.
- Merkel, K.H.H., Hess, H., Kunz, M. (1982). Insertion tendopathy in athletes: A light microscopic, histochemical and electron microscopic examination. *Pathology in Research and Practice* 173, 303–9.
- Mero, A., Luhtanen, P., Viitasalo, J.T., Komi, P.V. (1981). Relationship between the maximal running velocity, muscle fibre characteristics, force production and force relaxation of sprinters. *Scandinavian Journal of Sports Science* 3, 16–22.
- Mertens, D.J., Rhind, S., Berkhoff, F., Dugmore, D., Shek, P.N., Shephard, R.J. (1996). Nutritional, immunologic and psychological responses to a 7250 km run. *Journal of Sports Medicine and Physical Fitness* 36, 132–38.
- Merzenich, H., Boeing, H., Wahrendorf, J. (1993). Dietary fat and sports activity as determinants for age at menarche. *American Journal of Epidemiology* 138, 217–24.
- Meshkinpour, H., Kemp, C., Fairshier, R. (1989). The effect of aerobic exercise on mouth to cecum transit time. *Gastroenterology* 96, 938–41.
- Messier, S.P., Davis, S.E., Curl, W.W., Lowery, R.B., Pack, R.J. (1991). Etiologic factors associated with patellofemoral pain in runners. *Medicine and Science in Sports and Exercise* 23(9), 1008–15.
- Messier, S.P., Edwards, D.G., Martin, D.F., Lowery, R.B., Cannon, D.W., James, M.K., Curl, W.W., Read, H.M., Hunter, D.M. (1995). Etiology of iliotibial band friction syndrome in distance runners. *Medicine and Science in Sports and Exercise* 27, 951–60.
- Messier, S.P., Pittala, K.A. (1988). Etiologic factors associated with selected running injuries. *Medicine and Science in Sports and Exercise* 20, 501–5.
- Metz, J.A., Anderson, J.J., Gallagher, P.N. (1993). Intakes of calcium, phosphorus, and protein, and physical-activity level are related to radial bone mass in young adult women. *American Journal of Clinical Nutrition* 58, 537–42.
- Meyer, Elena (1991). Personal communication.
- Michael, R.H., Holder, L.E. (1985). The soleus syndrome: A cause of medial tibial stress (shin splints). *American Journal of Sports Medicine* 13, 87–94.
- Michel, B.A., Bloch, D.A., Fries, J.F. (1989). Weight-bearing exercise, overexercise, and lumbar bone density over age 50 years. *Archives of Internal Medicine* 149, 2325–29.
- Michel, B.A., Lane, N.E., Bloch, D.A., Jones, H.H., Fries, J.F. (1991). Effect of changes in weight bearing exercise on lumbar bone mass after age fifty. *Annals of Medicine* 23, 397–401.
- Micheli, L.J., Couzens, G.S. (1993). How I manage low-back pain in athletes. *Physician and Sportsmedicine* 27 (March), 183–94.
- Micklesfield, L.K., Lambert, E.V., Fataar, A.B., Noakes, T.D., Myburgh, K.H. (1995). Bone mineral density in mature, premenopausal ultramarathon runners. *Medicine and Science in Sports and Exercise* 27, 688–96.
- Mikesell, A., Dudley, G.A. (1984). Influence of intensive endurance training on aerobic power of competitive distance runners. *Medicine and Science in Sports and Exercise* 16, 371–75.
- Mikkola, J.J. (1929). *Rata-ja Kentta-Urheilun Kasikirja [Track and Field Athletics Handbook]*. Helsinki.

- Milgrom, C., Finestone, A., Shlamkovitch, N., Wosk, J., Laor, A., Voloshin, A., Eldad, A. (1992). Prevention of overuse injuries of the foot by improved shoe shock attenuation: A randomized prospective study. *Clinical Orthopedics and Related Research* 281, 189–92.
- Milgrom, C., Simkin, A., Eldad, A., Nyska, M., Finestone, A. (2000). Using bone's adaptation ability to lower the incidence of stress fractures. *American Journal of Sports Medicine* 28, 245–51.
- Millar, A.P. (1975). An early stretching routine in hamstring strains. *Australian Journal of Sports Medicine* 8, 107–9.
- Millar, A.P. (1976). An early stretching routine for calf muscle strains. *Medicine and Science in Sports* 8, 39–42.
- Millard-Stafford, M.L. (1992). Fluid replacement during exercise in the heat. *Sports Medicine* 13, 223–33.
- Millard-Stafford, M.L., Roskopf, L.B., Snow, T.K., Hinson, B.T. (1997). Water versus carbohydrate-electrolyte ingestion before and during a 15-km run in the heat. *International Journal of Sports Nutrition* 7, 26–38.
- Millard-Stafford, M.L., Cureton, K.J., Ray, C.A. (1988). Effect of glucose polymer diet supplement on responses to prolonged successive swimming, cycling and running. *European Journal of Applied Physiology* 58, 327–33.
- Millard-Stafford, M.L., Sparling, P.B., Roskopf, L.B., Dicarlo, L.J. (1992). Carbohydrate-electrolyte replacement improves distance running performance in the heat. *Medicine and Science in Sports and Exercise* 24, 934–40.
- Miller, D.S., Mumford, P.M. (1967). Gluttony: Parts I and II. *American Journal of Clinical Nutrition* 20, 1212–23.
- Miller, D.S., Parsonage, S. (1975). Resistance to slimming: Adaptation or illusion? *Lancet* 1, 773–75.
- Miller, G.D., Dimond, A.G., Stern, J.S. (1994). Exercise reduces fat selection in female Sprague-Dawley rats. *Medicine and Science in Sports and Exercise* 26, 1466–72.
- Miller, J.M., Coyle, E.F., Sherman, W.M., Hagberg, J.M., Costill, D.L., Fink, W.J., Terblanche, S.E., Holloszy, J.O. (1983). Effect of glycerol feeding on endurance and metabolism during prolonged exercise in man. *Medicine and Science in Sports and Exercise* 15, 237–42.
- Miller, W.C. (1999). How effective are traditional dietary and exercise interventions for weight loss? *Medicine and Science in Sports and Exercise* 31, 1129–34.
- Milroy, A. (1981). *The Long Distance Record Book*. Road Runners Club, London.
- Milroy, A. (1983). The remarkable record of the nineteenth century pedestrians. *Ultrarunning* (July–August), 24–26.
- Milroy, A. (1987). Personal communication.
- Milroy, A. (1991). What is a sensible racing strategy for elite 100km runners. (Unpublished manuscript.)
- Milroy, A. (1992a). Is the female of the ultra species tougher than the male? (Unpublished manuscript.)
- Milroy, A. (1992b). Personal communication.
- Milroy, A. (1998). Personal communication.
- Milroy A (2000). Personal communication.
- Milvy, P. (Ed.). (1977). The marathon: Physiological, medical, epidemiological and psychological studies. *Annals of the New York Academy of Sciences* 301, 1–1090.
- Milvy, P. (Ed.). (1978). *The Long Distance Runner: A Definitive Study*. Urizen Books, New York.
- Milvy, P. (1979). On "Of jogging." *American Heart Journal* 98, 136.
- Milvy, P., Colt, E., Thornton, J. (1981). A high incidence of urolithiasis in male marathon runners. *Journal of Sports Medicine and Physical Fitness* 21, 295–98.
- Minson, C.T., Wladkowski, S.L., Cardell, A.F., Pawelczyk, J.A., Kenney, W.L. (1998). Age alters the cardiovascular response to direct passive heating. *Journal of Applied Physiology* 84, 1323–32.
- Mirkin, G., Hoffman, M. (1978). *The Sportsmedicine Book*. Little, Brown, Boston.
- Misner, J.E., Massey, B.H., Goings, S.B., Bembien, M.G., Ball, T.E. (1990). Sex differences in static strength and fatigability in three different muscle groups. *Research Quarterly in Exercise and Sport* 61, 238–42.
- Mitchell, J.B., Costill, D.L., Houmard, J.A., Fink, W.J., Pascoe, D.D., Pearson, D.R. (1989a). Influence of carbohydrate dosage on exercise performance and glycogen metabolism. *Journal of Applied Physiology* 67, 1843–49.
- Mitchell, J.B., Costill, D.L., Houmard, J.A., Fink, W.J., Robergs, R.A., Davis, J.A. (1989b). Gastric emptying: Influence of prolonged exercise and carbohydrate concentration. *Medicine and Science in Sports and Exercise* 21, 269–74.
- Mitchell, J.B., Costill, D.L., Houmard, J.A., Flynn, M.G., Fink, W.J., Beltz, J.D. (1988). Effects of carbohydrate ingestion on gastric emptying and exercise performance. *Medicine and Science in Sports and Exercise* 20, 110–15.
- Mitchell, J.B., Grandjean, P.W., Pizza, F.X., Starling, R.D., Holtz, R.W. (1994). The effect of volume ingested on rehydration and gastric emptying following exercise-induced dehydration. *Medicine and Science in Sports and Exercise* 26, 1135–43.
- Mitchell, J.B., Voss, K.W. (1991). The influence of the volume of fluid ingested on gastric emptying and fluid balance during prolonged exercise. *Medicine and Science in Sports and Exercise* 23, 314–19.
- Mitchell, J.E., Pyle, R.L., Eckert, E.D., Hatsukami, D., Pomeroy, C., Zimmerman, R. (1990). A comparison study of antidepressants and structured intensive group psychotherapy in the treatment of bulimia nervosa. *Archives of General Psychiatry* 47, 149–57.
- Mitchell, J.H., Blomqvist, G. (1971). Maximal oxygen uptake. *New England Journal of Medicine* 284, 1018–22.
- Mitchell, J.H., Reardon, W.C., McCloskey, D.I. (1977). Reflex effects on circulation and respiration from contracting skeletal muscle. *American Journal of Physiology* 233, H374–78.
- Mitchell, J.H., Wildenthal, K. (1974). Static (isometric) exercise and the heart: Physiological and clinical considerations. *Annual Review of Medicine* 25, 369–81.
- Mittendorf, R., Longnecker, M.P., Newcomb, P.A., Dietz, A.T., Greenberg, E.R., Bogdan, G.F., Clapp, R.W., Willett, W.C. (1995). Strenuous physical activity in young adulthood and risk of breast cancer (United States). *Cancer Causes and Control* 6, 347–53.
- Mittleman, M.A., Maclure, M., Tofler, G.H., Sherwood, J.B., Goldberg, R.J., Muller, J.E. (1993). Triggering of acute myocardial infarction by heavy physical exertion. *New England Journal of Medicine* 329, 1677–83.
- Miyashita, M., Miura, M., Murase, Y., Yamaji, K. (1978). Running performance from the viewpoint of aerobic power. In L.J. Folinbee, J.A. Wagner, J.F. Borgia, B.L. Drinkwater, J.A. Gliner, J.F. Bedi (Eds.), *Environmental Stress: Individual Human Adaptations*. Academic Press, New York, 183–94.

- Mizuno, M., Juel, C., Bro-Rasmussen, T., Mygind, E., Schibye, B., Rasmussen, B., Saltin, B. (1990). Limb skeletal muscle adaptation in athletes after training at altitude. *Journal of Applied Physiology* 68, 496–502.
- Mohr, T., Van Soeren, M., Graham, T.E., Kjaer, M. (1998). Caffeine ingestion and metabolic responses of tetraplegic humans during electrical cycling. *Journal of Applied Physiology* 85, 979–85.
- Moisan, J., Meyer, F., Gingras, S. (1991). Leisure physical activity and age at menarche. *Medicine and Science in Sports and Exercise* 23, 1170–75.
- Mokdad, A.H., Serdula, M.K., Dietz, W.H., Bowman, B.A., Marks, J.S., Koplan, J.P. (1999). The spread of the obesity epidemic in the United States, 1991–1998. *Journal of the American Medical Association* 282, 1519–22.
- Molé, A. (1990). Impact of energy intake and exercise on resting metabolic rate. *Sports Medicine* 10, 72–87.
- Molé, P.A., Stern, J.S., Schultz, C.L., Bernauer, E.M., Holcomb, B.J. (1989). Exercise reverses depressed metabolic rate produced by severe caloric restriction. *Medicine and Science in Sports and Exercise* 21, 29–33.
- Moller-Nielsen, J., Hammar, M. (1989). Women's soccer injuries in relation to the menstrual cycle and oral contraceptive use. *Medicine and Science in Sports and Exercise* 21, 126–29.
- Mondin, G.W., Morgan, W.P., Piering, P.N., Stegner, A.J., Stotesbery, C.L., Trine, M.R., Wu, M.-Y. (1996). Psychological consequences of exercise deprivation in habitual exercisers. *Medicine and Science in Sports and Exercise* 28, 1199–203.
- Montain, S.J., Coyle, E.F. (1992a). Fluid ingestion during exercise increases skin blood flow independent of increases in blood volume. *Journal of Applied Physiology* 73, 903–10.
- Montain, S.J., Coyle, E.F. (1992b). Influence of graded dehydration on hyperthermia and cardiovascular drift during exercise. *Journal of Applied Physiology* 73, 1340–50.
- Montain, S.J., Hopper, M.K., Coggan, A.R., Coyle, E.F. (1991). Exercise metabolism at different time intervals after a meal. *Journal of Applied Physiology* 70, 882–88.
- Montain, S.J., Latzka, W.A., Sawka, M.N. (1999). Fluid replacement recommendations for training in hot weather. *Military Medicine* 164, 502–8.
- Montain, S.J., Sawka, M.N., Latzka, W.A., Valeri, C.R. (1998). Thermal and cardiovascular strain from hypohydration: Influence of exercise intensity. *International Journal of Sports Medicine* 19, 87–91.
- Montain, S.J., Smith, S.A., Mattot, R.P., Zienntata, G.P., Jolesz, F.A., Sawka, M.N. (1998). Hypohydration effects on skeletal muscle performance and metabolism: A <sup>31</sup>P-MRS study. *Journal of Applied Physiology* 84, 1889–94.
- Montgomery, H., Clarkson, P., Barnard, M., Bell, J., Brynes, A., Dollery, C., Hajnal, J., Hemingway, H., Mercer, D., Jarman, P., Marshall, R., Prasad, K., Rayson, M., Saeed, N., Talmud, P., Thomas, L., Jubbs, M., World, M., Humphries, S. (1999). Angiotensin converting enzyme gene insertion/deletion polymorphism and response to physical training. *Lancet* 353, 541–45.
- Montgomery, H.E., Marshall, R., Hemingway, H., Myerson S., Clarkson P., Dollery C., Hayward M., Holliman D.E., Jubbs M., World M., Thomas E.L., Brynes A.E., Saeed N., Barnard M., Bell J.D., Prasad K., Rayson M., Talmud P.J., Humphries S.E. (1998). Human gene for physical performance. *Nature* 393, 221–22.
- Moodley, D., Noakes, T.D., Bosch, A.N., Schall, R., Dennis, S.C. (1992). Oxidation of exogenous carbohydrate during prolonged exercise: The effects of carbohydrate type and its concentration. *European Journal of Applied Physiology* 64, 328–34.
- Moore, D.H. (1975). A study of age group track and field records to relate age and running speed. *Nature* 153, 264–65.
- Moore, D.H., Jarrett, J.C., Bendick, P.J. (1988). Exercise-induced changes in uterine blood flow, as measured by Doppler ultrasound, in pregnant subjects. *American Journal of Perinatology* 5, 94–97.
- Moore, J.G., Datz, F.L., Christian, P.E. (1990). Exercise increases solid meal gastric emptying rates in men. *Digestive Diseases and Science* 35(4), 428–32.
- Moore, K. (1982). *Best Efforts: World Class Runners and Races*. Doubleday, Garden City, NY.
- Moore, L.L., Nguyen, U.-S.D.T., Rothman, K.J., Cupples, L.A., Ellison, R.C. (1995). Preschool physical activity level and change in body fatness in young children. *American Journal of Epidemiology* 142, 982–88.
- Moore, R.L., Thacker, E.M., Kelley, G.A., Musch, T.I., Sinoway, L.L., Foster, V.L., Dickinson, A.L. (1987). Effect of training/detraining on submaximal exercise responses in humans. *Journal of Applied Physiology* 63, 1719–24.
- Moorstein, B. (1968). Life expectancy of Ivy League rowing crews. *Journal of the American Medical Association* 205, 106.
- Moran, Lord. (1945). *The Anatomy of Courage*. Constable, London.
- Morgan, D.L., Allen, D.G. (1999). Early events in stretch-induced muscle damage. *Journal of Applied Physiology* 87, 2007–15.
- Morgan, D.W., Baldini, F.D., Martin, P.E., Kohrt, W.M. (1989). Ten kilometer performance and predicted velocity at  $\dot{V}O_{2\max}$  among well-trained male runners. *Medicine and Science in Sports and Exercise* 21, 78–83.
- Morgan, D.W., Bransford, D.R., Costill, D.L., Daniels, J.T., Howley, E.T., Krahenbuhl, G.S. (1995). Variation in the aerobic demand of running among trained and untrained subjects. *Medicine and Science in Sports and Exercise* 27, 404–9.
- Morgan, D.W., Craib, M. (1992). Physiological aspects of running economy. *Medicine and Science in Sports and Exercise* 24, 456–61.
- Morgan, J.E. (1873). *University Oars*. Macmillan, London.
- Morgan, W.P. (1978). The mind of the marathoner. *Psychology Today* 11 (April), 38–47.
- Morgan, W.P. (1979). Negative addiction in runners. *Physician and Sportsmedicine* 7 (February), 57–70.
- Morgan, W.P. (1985). Affective beneficence of vigorous physical activity. *Medicine and Science in Sports and Exercise* 17, 94–100.
- Morgan, W.P. (2000). Psychological outcomes of physical activity. In R.J. Maughan (Ed.), *Basic and Applied Sciences for Sports Medicine*. Butterworth Heinemann, Burlington, MA, 237–59.
- Morgan, W.P., Brown, D.R., Raglin, J.S., O'Connor, P.J., Ellickson, K.A. (1987). Psychological monitoring of overtraining and staleness. *British Journal of Sports Medicine* 21, 107–14.

- Morgan, W.P., Costill, D.L. (1972). Psychological characteristics of the marathon runner. *Journal of Sports Medicine and Physical Fitness* 12, 42–46.
- Morgan, W.P., Costill, D.L., Flynn, M.G., Raglin, J.S., O'Connor, P.J. (1988). Mood disturbance following increased training in swimmers. *Medicine and Science in Sports and Exercise* 20, 408–14.
- Morgan, W.P., Pollock, M.L. (1977). Psychologic characterization of the elite distance runner. *Annals of the New York Academy of Sciences* 301, 382–403.
- Morris, A.E., Husman, B.F. (1978). Life quality changes following an endurance conditioning program. *American Corrective Therapy Journal* 32, 3–6.
- Morris, A.F. (1982). Sleep disturbances in athletes. *Physician and Sportsmedicine* 10 (September), 75–85.
- Morris, A.F., Lussier, L., Vaccaro, P., Clarke, D.H. (1982). Life quality characteristics of national class women masters long distance runners. *Annals of Sports Medicine* 1, 23–26.
- Morris, J.G., Nevill, M.E., Lakomy, H.K.A., Nicholas, C., Williams, C. (1998). Effect of a hot environment on performance of prolonged, intermittent, high-intensity shuttle running. *Journal of Sports Sciences* 16, 677–86.
- Morris, J.N., Chave, S.P.W., Adam, C., Sirey, C., Epstein, L., Sheehan, D.J. (1973). Vigorous exercise in leisure-time and the incidence of coronary heart disease. *Lancet* 1, 333–39.
- Morris, J.N., Clayton, D.G., Everitt, M.G., Semmence, A.M., Burgess, E.H. (1990). Exercise in leisure time: Coronary attack and death rates. *British Heart Journal* 63, 325–34.
- Morris, J.N., Everitt, M.G., Pollard, R., Chave, S.P.W., Semmence, A.M. (1980). Vigorous exercise in leisure-time: Protection against coronary heart disease. *Lancet* 2, 1207–10.
- Morris, J.N., Heady, J.A., Raffle, P.A.B. (1956). Physique of London busmen: Epidemiology of uniforms. *Lancet* 2, 569–70.
- Morris, J.N., Heady, J.A., Raffle, P.A.B., Roberts, C.G., Parks, J.W. (1953). Coronary heart disease and physical activity of work. *Lancet* 2, 1053–57.
- Morris, N., Osborn, S.B., Wright, H.P., Hart, A. (1956). Effective uterine blood flow during exercise in normal and pre-eclamptic pregnancies. *Lancet* 2, 481–84.
- Morton, D.P., Callister, R. (2000). Characteristics and etiology of exercise-related transient abdominal pain. *Medicine and Science in Sports and Exercise* 32, 432–38.
- Morton, H. (1984). Personal communication.
- Morton, R.H. (1983). The supreme runner: What evidence now? *Australian Journal of Sports Sciences* 3, 7–10.
- Morton, R.H. (1984). You can't catch me: I'm the gingerbread man. In R.J. Brook, G.C. Arnold, T.H. Hassard, R.M. Pringle (Eds.), *The Fascination of Statistics*. Marcel Dekker, New York.
- Moses, F.M. (1990). The effect of exercise on the gastrointestinal tract. *Sports Medicine* 9, 159–72.
- Moses, F.M., Baska, R., Graeber, G., Kearny, P.D. (1989). Gastrointestinal bleeding during an ultramarathon. *Medicine and Science in Sports and Exercise* 21, 578.
- Moses, F.M., Brewer, T.G., Peura, D.A. (1988). Running-associated proximal hemorrhagic colitis. *Annals of Internal Medicine* 108, 385–86.
- Moses, F.M., Ryan, C., DeBolt, J., Smoak, B., Hoffmann, A. (1988). Oral cecal transit time during a 2 hr run with ingestion of water or glucose polymer. *American Journal of Gastroenterology* 83, 1055.
- Mosimann, R., Walder, J., Van Melle, G. (1985). Stenotic intimal thickening of the external iliac artery: Illness of the competition cyclists? *Journal of Vascular Surgery* 19, 258–63.
- Moy, C.S., Songer, T.J., LaPorte, R.E., Dorman, J.S., Kriska, A.M., Orchard, T.J., Becker, D.J., Drash, A.L. (1993). Insulin-dependent diabetes mellitus, physical activity, and death. *American Journal of Epidemiology* 137, 74–81.
- Mubarak, S.J., Gould, R.N., Lee, Y.F., Schmidt, D.A., Hargens, A.R. (1982). The medial tibial stress syndrome: A cause of shinsplints. *American Journal of Sports Medicine* 10, 201–5.
- Mueller, E.J., Thompson, I.M. (1988). Bladder carcinoma presenting as exercise-induced hematuria. *Postgraduate Medicine* 84, 173–76.
- Mujika, I. (1998). The influence of training characteristics and tapering on the adaptation in highly trained individuals: A review. *International Journal of Sports Medicine* 19, 439–46.
- Mujika, I., Padilla, S. (1997). Creatine supplementation as an ergogenic aid for sports performance in highly trained athletes: A critical review. *International Journal of Sports Medicine* 18, 491–96.
- Muller, J.E., Mittleman, M.A., Maclure, M., Sherwood, J.B., Tofler, G.H. (1996). Triggering myocardial infarction by sexual activity: Low absolute risk and prevention by regular physical exertion. *Journal of the American Medical Association* 275, 1405–09.
- Müns, G., Singer, P., Wolf, F., Rubinstein, I. (1995). Impaired nasal mucociliary clearance in long-distance runners. *International Journal of Sports Medicine* 16, 209–13.
- Muoio, D.M., Leddy, J.J., Horvath, P.J., Awad, A.B., Pendergast, D.R. (1994). Effect of dietary fat on metabolic adjustments to maximal VO<sub>2</sub> and endurance in runners. *Medicine and Science in Sports and Exercise* 26, 81–88.
- Murase, Y., Kobayashi, K., Mamei, S., Matsui, H. (1981). Longitudinal study of aerobic power in superior junior athletes. *Medicine and Science in Sports and Exercise* 13, 180–84.
- Murphy, F. (1992). *A Cold Clear Day: The Athletic Biography of Buddy Edelen*. Windsprint Press, Kansas City, MO.
- Murphy, P.C., Baxter, D.E. (1985). Nerve entrapment of the foot and ankle in runners. *Clinics in Sports Medicine* 4, 753–63.
- Murphy, S.M., Fleck, S.J., Dudley, G. (1990). Psychological and performance concomitants of increased volume training in elite athletes. *Applied Sport Psychology* 2, 34–50.
- Murray, R., Bartoli, W.P., Eddy, D.E., Horn, M.K. (1995). Physiological and performance responses to nicotinic-acid ingestion during exercise. *Medicine and Science in Sports and Exercise* 27, 1057–62.
- Murray, R., Eddy, D.E., Paul, G.L., Seifert, J.G., Halaby, G.A. (1991). Physiological responses to glycerol ingestion during exercise. *Journal of Applied Physiology* 71(1), 144–49.

- Murray, R., Eddy, D.E., Siefert, J.G., Paul, G.L., Halaby, G.A. (1987). The effect of fluid and carbohydrate feedings during intermittent cycling exercise. *Medicine and Science in Sports and Exercise* 19, 597–604.
- Murray, R., Paul, G.L., Siefert, J.G., Eddy, D.E. (1991). Responses to varying rates of carbohydrate ingestion during exercise. *Medicine and Science in Sports and Exercise* 23, 713–18.
- Murray, R., Paul, G.L., Siefert, J.G., Eddy, D.E., Halaby, G.A. (1989). The effects of glucose, fructose, and sucrose ingestion during exercise. *Medicine and Science in Sports and Exercise* 21, 275–82.
- Murray, R., Siefert, J.G., Eddy, D.E., Paul, G.L., Halaby, G.A. (1989). Carbohydrate feeding and exercise: Effect of beverage carbohydrate content. *European Journal of Applied Physiology* 59, 152–58.
- Murray-Leslie, C.F., Lintott, D.J., Wright, V. (1977). The knees and ankles in sport and veteran military parachutists. *Annals of Rheumatic Diseases* 36, 327–31.
- Mussabini, A., Ransom, C. (1913). *The Complete Athletic Trainer*. Methuen, London.
- Myburgh, K.H. (1989). *The Effects of Exercise on Bone Fragility and Bone Strength in Osteoporosis and in Health*. PhD thesis, University of Cape Town, Cape Town, South Africa.
- Myburgh, K.H. (2000). “Physiological anecdotes” concerning creatine supplementation: Can they be scientifically substantiated? *Sports Medicine* (April), 3–7.
- Myburgh, K.H., Bachrach, L.K., Lewis, B., Kent, K., Marcus, R. (1993). Low bone mineral density at axial and appendicular sites in amenorrhic athletes. *Medicine and Science in Sports and Exercise* 25, 1197–202.
- Myburgh, K.H., Berman, C., Novick, I., Noakes, T.D., Lambert, E.V. (1999). Decreased resting metabolic rate in ballet dancers with menstrual irregularity. *International Journal of Sport Nutrition* 9, 285–94.
- Myburgh, K.H., Grobler, N., Noakes, T.D. (1988). Factors associated with shin soreness in athletes. *Physician and Sportsmedicine* 16 (April), 129–34.
- Myburgh, K.H., Hutchins, J., Fataar, A.B., Hough, S.F., Noakes, T.D. (1990). Low bone density is an etiologic factor for stress fractures in athletes. *Annals of Internal Medicine* 113, 754–59.
- Myburgh, K.H., Watkin, V.A., Noakes, T.D. (1992). Are risk factors for menstrual dysfunction cumulative? *Physician and Sportsmedicine* 20, 114–25.
- Myers, J., Walsh, D., Sullivan, M., Froelicher, V. (1990). Effect of sampling on variability and plateau in oxygen uptake. *Journal of Applied Physiology* 68, 404–10.
- Myers, J.N. (1996). *Essentials of Cardiopulmonary Exercise Testing*. Human Kinetics, Champaign, IL.
- Myers, J.N., Walsh, D., Buchanan, N., Froelicher, V.F. (1989). Can maximal cardiopulmonary capacity be recognised by a plateau in oxygen uptake? *Chest* 96, 1312–16.
- Myers, N. (2000). On trying. *Headington Roadrunners Club Newsletter* (July). [Online]. Available: <http://www.hrr.org.uk> [July 2000].
- Myerson, M., Gutin, B., Warren, M.P., May, M.T., Contento, I., Lee, M., Pi-Sunyer, F.X., Pierson, R.N., Brooks-Gunn, J. (1991). Resting metabolic rate and energy balance in amenorrhic and eumenorrhic runners. *Medicine and Science in Sports and Exercise* 23, 15–22.
- Myhal, M., Lamb, D.R. (2000). Hormones as performance-enhancing drugs. In M.P. Warren, N.W. Constantini (Eds.), *Contemporary Endocrinology: Sports Endocrinology*. Humana Press, Totowa, NJ, 433–76.
- Nabel, E.G. (2000). Coronary heart disease in women: An ounce of prevention. *New England Journal of Medicine* 343, 572–74.
- Nachbauer, W., Nigg, B.M. (1992). Effects of arch height of the foot on ground reaction forces in running. *Medicine and Science in Sports and Exercise* 24, 1264–69.
- Nadel, E.R., Fortney, S.M., Wenger, C.B. (1980). Effect of hydration state on circulatory and thermal regulations. *Journal of Applied Physiology* 49, 715–21.
- Naessén, N. T., Persson, I., Adami, H.-O., Bergstrom, R., Bergkvist, L. (1990). Hormone replacement therapy and the risk for first hip fracture. *Annals of Internal Medicine* 113, 95–103.
- Naicker, S., Poovalingam, V., Mlisana, K., Christopher, N., Nadesan, D., Seedat, Y.K. (1992). Comparative assessment of phase contrast microscopy and Coulter counter measurements in localising the site of haematuria. *South African Medical Journal* 82, 183–85.
- Nakamura, Y., Schwartz, A. (1972). The influence of hydrogen ion concentration on calcium binding and release by skeletal muscle sarcoplasmic reticulum. *Journal of General Physiology* 59, 22–32.
- Nakatani, A., Han, D.-H., Hansen, P.A., Nolte, L.A., Host, H.H., Hickner, R.C., Holloszy, J.O. (1997). Effect of endurance exercise training on muscle glycogen supercompensation in rats. *Journal of Applied Physiology* 82, 711–15.
- Nanda, R., James, R., Smith, H., Dudley, C.R.K., Jewell, D.P. (1989). Food intolerance and the irritable bowel syndrome. *Gut* 30, 1099–104.
- Nash, H.L. (1985). Treating thermal injury: Disagreement heats up. *Physician and Sportsmedicine* 13, 134–44.
- National Heart, Lung and Blood Institute. (1981). *Exercise and Your Heart*. National Heart, Lung, and Blood Institute, Bethesda, MD.
- Natri, A., Kannus, P., Järvinen, M. (1998). Which factors predict the long-term outcome in chronic patellofemoral pain syndrome? A 7-yr prospective follow-up study. *Medicine and Science in Sports and Exercise* 30, 1572–77.
- Naughton, G., Farpour-Lambert, N.J., Carlson, J., Bradney, M., Van Praagh, E. (2000). Physiological issues surrounding the performance of adolescent athletes. *Sports Medicine* 30, 309–25.
- Naveri, H., Tikkanen, H., Kairento, A.-L., Harkonen, M. (1989). Gastric emptying and serum insulin levels after intake of glucose-polymer solutions. *European Journal of Applied Physiology* 58, 661–65.
- Need, A.G., Wishart, J.M., Scopacasa, F., Horowitz, M., Morris, H.A., Nordin, B.E.C. (1995). Effect of physical activity on femoral bone density in men. *British Medical Journal* 310, 1501–2.
- Neely, F.G. (1998a). Biomechanical risk factors for exercise-related lower limb injuries. *Sports Medicine* 26, 395–413.
- Neely, F.G. (1998b). Intrinsic risk factors for exercise-related lower limb injuries. *Sports Medicine* 26, 253–63.
- Nelson, A. (1924). *Practical Athletics and How to Train*. Mayflower Press, Plymouth, England.

- Nelson, M.E., Fisher, E.C., Catsos, P.D., Meredith, C.N., Turksoy, R.N., Evans, W.J. (1986). Diet and bone status in amenorrheic runners. *American Journal of Clinical Nutrition* 43, 910–16.
- Nelson, R.C., Gregor, R.J. (1976). Biomechanics of distance running: A longitudinal study. *Research Quarterly* 47, 417–28.
- Nemeth, W.C., Sanders, B.L. (1996). The lateral synovial recess of the knee: Anatomy and role in chronic iliotibial band friction syndrome. *Arthroscopy* 12, 574–80.
- Nestler, E.J., Aghajanian, G.K. (1997). Molecular and cellular basis of addiction. *Science* 278, 58–63.
- Neufer, P.D. (1989). The effect of detraining and reduced training on the physiological adaptations to aerobic exercise training. *Sports Medicine* 8, 302–20.
- Neufer, P.D., Costill, D.L., Fielding, R.A., Flynn, M.G., Kirwan, J.P. (1987a). Effect of reduced training on muscular strength and endurance in competitive swimmers. *Medicine and Science in Sports and Exercise* 19, 486–90.
- Neufer, P.D., Costill, D.L., Fink, W.J., Kirwan, J.P., Fielding, R.A., Flynn, M.G. (1986). Effects of exercise and carbohydrate composition on gastric emptying. *Medicine and Science in Sports and Exercise* 18, 658–62.
- Neufer, P.D., Costill, D.L., Flynn, M.G., Kirwan, J.P., Mitchell, J.B., Houmard, J. (1987b). Improvements in exercise performance: Effects of carbohydrate feedings and diet. *Journal of Applied Physiology* 63, 893–988.
- Neufer, P.D., Young, A.J., Sawka, M.N. (1989a). Gastric emptying during exercise: Effects of heat stress and hypohydration. *European Journal of Applied Physiology* 58, 433–39.
- Neufer, P.D., Young, A.J., Sawka, M.N. (1989b). Gastric emptying during walking and running: Effects of varied exercise intensity. *European Journal of Applied Physiology* 58, 440–45.
- Neugut, A.I., Terry, M.B., Hocking, G., Mosca, L., Garbowski, G.C., Forde, K.A., Treat, M.R., Wayne, J. (1996). Leisure and occupational physical activity and risk of colorectal adenomatous polyps. *International Journal of Cancer* 68, 744–48.
- Neumann, R.O. (1902). Experimentelle beitrage zur lehre von dem taglichen nahrungsbedarf des menschen unter besonderer berucksichtigung der not wendigen eiweissmenge [Experimental studies of the daily food requirements with special reference to egg white requirements]. *Archiv Hugiene* 45, 1–87.
- Neuspiel, D.R. (1986). Sudden death from myocarditis in young athletes. *Mayo Clinic Proceedings* 61, 226–27.
- Nevill, M.E., Williams, C., Roper, D., Slater, C., Nevill, A.M. (1993). Effect of diet on performance during recovery from intermittent sprint exercise. *Journal of Sports Sciences* 11, 119–26.
- Newby-Fraser, P., Mora, J.M. (1995). *Paula Newby-Fraser's Peak Fitness for Women*. Human Kinetics, Champaign, IL.
- Newham, D.J., Jones, D.A., Tolfree, S.E.J., Edwards, R.H.T. (1986). Skeletal muscle damage: A study of isotope uptake, enzyme efflux and pain after stepping. *European Journal of Applied Physiology* 55, 106–12.
- Newhouse, I.J., Clement, D.B., Taunton, J.E., McKenzie, D.C. (1989). The effects of prelatent/latent iron deficiency on physical work capacity. *Medicine and Science in Sports and Exercise* 21, 263–68.
- Newsholme, E.A., Acworth, I.N., Blomstrand, E. (1987). Amino acids, brain neurotransmitters, and a functional link between muscle and brain that is important in sustained exercise. In G. Benzi (Ed.), *Advances in Myochemistry*. Libbey Eurotext, London, 127–33.
- Newsholme, E.A., Leech, T. (1983). *The Runner: Energy and Endurance*. Fitness Books, Oxford.
- Newton, A.F.H. (1935). *Running*. Witherby, London.
- Newton, A.F.H. (1940). *Running in Three Continents*. Witherby, London.
- Newton, A.F.H. (1947a). *Commonsense Athletics*. Berridge, London.
- Newton, A.F.H. (1947b). Rations and athletes. *Athletic Review* (September), 2–1 9.
- Newton, A.F.H. (1948). Drinks and the marathon. *Athletic Review* (July), 14–16.
- Newton, A.F.H. (1949). *Races and Training*. G. Berridge, London.
- Nice, C., Reeves, A.G., Brinck-Johnsen, T., Noll, W. (1984). The effects of pantothenic acid on human exercise capacity. *Journal of Sports Medicine and Physical Fitness* 24, 26–29.
- Nicholas, C.W., Tsintzas, K., Boobis, L., Williams, C. (1999). Carbohydrate-electrolyte ingestion during intermittent high-intensity running. *Medicine and Science in Sports and Exercise* 31, 1280–86.
- Nicholson, J.P., Case, D.B. (1983). Carboxyhemoglobin levels in New York City runners. *Physician and Sportsmedicine* 11 (March), 135–38.
- Nickerson, H.J., Tripp, A.D. (1983). Iron deficiency in adolescent cross-country runners. *Physician and Sportsmedicine* 11 (June), 60–66.
- Nicklas, B.J., Hackney, A.C., Sharp, R.L. (1989). The menstrual cycle and exercise: Performance, muscle glycogen, and substrate responses. *International Journal of Sports Medicine* 10, 264–69.
- Nicol, C., Komi, P.V., Marconnet, P. (1991a). Effects of marathon fatigue on running kinematics and economy. *Scandinavian Journal of Medicine and Science in Sports* 1, 195–204.
- Nicol, C., Komi, P.V., Marconnet, P. (1991b). Fatigue effects of marathon running on neuromuscular performance: I. Changes in muscle force and stiffness characteristics. *Scandinavian Journal of Medicine and Science in Sports* 1, 10–17.
- Nicol, C., Komi, P.V., Marconnet, P. (1991c). Fatigue effects of marathon running on neuromuscular performance: II. Changes in force, integrated electromyographic activity and endurance capacity. *Scandinavian Journal of Medicine and Science in Sports* 1, 18–24.
- Nicol, J., Schweltnus, M., Noakes, T.D. (1996). Serum electrolyte concentrations and hydration status in runners with exercise-associated muscle cramping (EAMC). *Medicine and Science in Sports and Exercise* 28, S245.
- Nicol, J., Schweltnus, M.P., Noakes, T.D., Swanevelder, S. (2002). Changes in electromyographic (EMG) activity and in serum electrolyte concentrations with clinical recovery from acute Exercise Associated Muscle Cramp (EAMC) in distance runners. (Manuscript in preparation.)
- Nideffer, R.M. (1976). *The Inner Athlete*. Cromwell, New York.



- Nideffer, R.M. (1983). The injured athlete: Psychological factors in treatment. *Orthopaedic Clinics of North America* 14, 373–85.
- Nideffer, R.M. (1985). *Athletes' Guide to Mental Training*. Human Kinetics, Champaign, IL.
- Niebauer, J., Hambrecht, R., Velich, T., Hauer, K., Marburger, C., Kälberer, B., Weiss, C., von Hodenberg, E., Schlierf, G., Schuler, G., Zimmermann, R., Kübler, W. (1997). Attenuated progression of coronary artery disease after 6 years of multifactorial risk intervention. *Circulation* 96, 2534–41.
- Nielsen, A.N., Mizuno, M., Ratkevicius, A., Mohr, T., Rohde, M., Mortensen, S.A., Quistorff, B. (1999). No effect of antioxidant supplementation in triathletes on maximal oxygen uptake, 31P-NMRS detected muscle energy metabolism and muscle fatigue. *International Journal of Sports Medicine* 20, 154–58.
- Nielsen, B. (1994). Heat stress and acclimation. *Ergonomics* 37, 49–58.
- Nielsen, B. (1996). Olympics in Atlanta: A fight against physics. *Medicine and Science in Sports and Exercise* 28, 665–68.
- Nielsen, B. (1998). Heat acclimation: Mechanisms of adaptation to exercise in the heat. *International Journal of Sports Medicine* 19 (Suppl 2), S154–56.
- Nielsen, B., Hales, J.R.S., Strange, N.J., Christensen, N.J., Warberg, J., Saltin, B. (1993). Human circulatory and thermoregulatory adaptations with heat acclimation and exercise in a hot, dry environment. *Journal of Physiology* 460, 467–85.
- Nielsen, B., Savard, G., Richter, E.A., Hargreaves, M., Saltin, B. (1990). Muscle blood flow and muscle metabolism during exercise and heat stress. *Journal of Applied Physiology* 69, 1040–46.
- Nielsen, B., Strange, S., Christensen, N.J., Warberg, J., Saltin, B. (1997). Acute and adaptive responses in humans to exercise in a warm, humid environment. *Pflügers Archives* 434, 49–56.
- Nieman, D.C. (1988). Vegetarian dietary practices and endurance performance. *American Journal of Clinical Nutrition* 48(3 Suppl), 754–61.
- Nieman, D.C. (1994). Exercise, infection and immunity. *International Journal of Sports Medicine* 15, S131–41.
- Nieman, D.C. (1995). Upper respiratory tract infections and exercise. *Thorax* 50, 1229–31.
- Nieman, D.C. (1998). Effects of athletic endurance training on infection rates and immunity. In R.B. Kreider, A.C. Fry, M.L. O'Toole (Eds.), *Overtraining in Sport*. Human Kinetics, Champaign, IL, 193–241.
- Nieman, D.C., Berk, L.S., Simpson-Westerberg, M., Arabatzis, K., Youngberg, S., Tan, S.A., Lee, J.W., Eby, W.C. (1989). Effects of long-endurance running on immune system parameters and lymphocyte function in experienced marathoners. *International Journal of Sports Medicine* 10, 317–23.
- Nieman, D.C., Johanssen, L.M., Lee, J.W. (1989). Infectious episodes in runners before and after a roadrace. *Journal of Sports Medicine* 29, 289–96.
- Nieman, D.C., Johansen, L.M., Lee, J.W. (1990). Infectious episodes in runners before and after the Los Angeles marathon. *Journal of Sports Medical and Physical Fitness* 30, 316–28.
- Niemelä, K.O., Palatsi, I.J., Ikheimo, M.J., Takkunen, J.T., Vuori, J.J. (1984). Evidence of impaired left ventricular performance after an uninterrupted competitive 24 hour run. *Circulation* 70, 350–56.
- Niesen-Vertommen, S.L., Taunton, J.E., Clement, D.B., Mosher, R.E. (1992). The effect of eccentric versus concentric exercise in the management of Achilles tendinitis. *Clinical Journal of Sports Medicine* 2, 109–13.
- Nieves, J.W., Grisso, J.A., Kelsey, J.L. (1992). A case-control study of hip fracture: Evaluation of selected dietary variables and teenage physical activity. *Osteoporosis International* 2, 122–27.
- Nigg, B. (1986). *Biomechanics of Running Shoes*. Human Kinetics, Champaign, IL.
- Nigg, B.M. (1985). Biomechanics, load analysis and sports injuries in the lower extremities. *Sports Medicine* 2, 367–79.
- Nigg, B.M. (1997). Impact forces in running. *Current Opinion in Orthopedics* 8, 43–47.
- Nigg, B.M. (2001). The role of impact forces and foot pronation: A new paradigm. *Clinical Journal of Sport Medicine* 11, 2–9.
- Nigg, B.M., Bahlsen, H.A. (1988). Influence of heel flare and midsole construction on pronation, supination, and impact forces for heel-toe running. *International Journal of Sports Biomechanics* 4, 205–19.
- Nigg, B.M., Bahlsen, H.A., Luethi, S.M., Stokes, S. (1987). The influence of running velocity and midsole hardness on external impact forces in heel-toe running. *Journal of Biomechanics* 20, 951–59.
- Nigg, B.M., Herzog, W., Read, J.L. (1988). Effect of viscoelastic shoe insoles on vertical impact forces in heel-toe running. *American Journal of Sports Medicine* 16, 70–76.
- Nigg, B.M., Khan, A., Fisher, V., Stefanyshyn, D. (1998). Effect of shoe insert construction on foot and leg movement. *Medicine and Science in Sports and Exercise* 30, 550–55.
- Nigg, B.M., Morlock, M. (1987). The influence of lateral heel flare of running shoes on pronation and impact forces. *Medicine and Science in Sports and Exercise* 19, 294–302.
- Nigg, B.M., Nurse, M.A., Stefanyshyn, D.J. (1999). Shoe inserts and orthotics for sport and physical activities. *Medicine and Science in Sports Exercise* 31, S421–28.
- Nikolaou, P.K., MacDonald, B.L., Glisson, R.R., Seaber, A.V., Garrett, W.E. (1987). Biomechanical and histological evaluation of muscle after controlled strain injury. *American Journal of Sports Medicine* 15, 9–14.
- Nikolovski, S., Faulkner, D.L., Palmer, T.N., Fournier, P.A. (1996). Muscle glycogen repletion from endogenous carbon sources during recovery from high intensity exercise in the fasted rat. *Acta Physiologica Scandinavica* 157, 427–34.
- Nilsson, L.H., Hultman, E. (1973). Liver glycogen in man: The effect of total starvation or a carbohydrate-poor diet followed by carbohydrate refeeding. *Scandinavian Journal of Clinical and Laboratory Investigation* 32, 325–30.
- Nilsson, L.H., Hultman, E. (1974). Liver and muscle glycogen in man after glucose and fructose infusion. *Scandinavian Journal of Clinical and Laboratory Investigation* 33, 5–10.

- Nixon, J.V., Wright, A.R., Porter, T.R., Roy, V., Arrowood, J.A. (1991). Effects of exercise on left ventricular diastolic performance in trained athletes. *American Journal of Cardiology* 68, 945–49.
- Noakes, T.D. (1981a). Comrades makes medical history: Again! *South African Runner* 4 (September), 8–10.
- Noakes, T.D. (1981b). Heatstroke during the 1981 national cross-country championships. *South African Medical Journal* 61, 145.
- Noakes, T.D. (1982a). Food allergy in runners. *Journal of the American Medical Association* 247, 1406.
- Noakes, T.D. (1982b). Heatstroke: Its definition, diagnosis and treatment. *South African Medical Journal* 62, 537.
- Noakes, T.D. (1983). Running shoe anaphylaxis: A case report. *British Journal of Sports Medicine* 17, 213.
- Noakes, T.D. (1985). A novel, rapidly fatal approach to the management of hypothermia in long-distance swimmers. *South African Medical Journal* 67, 532.
- Noakes, T.D. (1986). Body cooling as a method for reducing hyperthermia. *South African Medical Journal* 70, 373–74.
- Noakes, T.D. (1987a). The effects of exercise on serum enzyme activities in humans. *Sports Medicine* 4, 245–67.
- Noakes, T.D. (1987b). Heart disease in marathon runners: A review. *Medicine and Science in Sports and Exercise* 19, 187–94.
- Noakes, T.D. (1988a). Editorial: Why marathon runners collapse. *South African Medical Journal* 73, 569–71.
- Noakes, T.D. (1988b). Implications of exercise testing for prediction of athletic performance: A contemporary perspective. *Medicine and Science in Sports and Exercise* 20, 319–30.
- Noakes, T.D. (1990a). The dehydration myth and carbohydrate replacement during prolonged exercise. *Cycling Science* 1, 23–29.
- Noakes, T.D. (1990b). Fluid and mineral needs of athletes. In J.S. Torg, R.P. Welsh, R.J. Shephard (Eds.), *Current Therapy in Sports Medicine*, Decker, Toronto.
- Noakes, T.D. (1991a). The collapsed endurance athlete: Time to rethink our management? *Sports Training, Medicine and Rehabilitation* 2, 171–91.
- Noakes, T.D. (1991b). Sacred cows revisited. *Physician and Sportsmedicine* 19 (November), 49.
- Noakes, T.D. (1992a). Hyponatremia during endurance running: A physiological and clinical interpretation. *Medicine and Science in Sports and Exercise* 24, 403–5.
- Noakes, T.D. (1992b). The hyponatremia of exercise. *International Journal of Sports Nutrition* 2, 205–28.
- Noakes, T.D. (1993). Fluid replacement during exercise. *Exercise and Sports Science Reviews* 21, 297–330.
- Noakes, T.D. (1995). Dehydration during exercise: What are the real dangers? *Clinical Journal of Sports Medicine* 5, 123–28.
- Noakes, T.D. (1997). Challenging beliefs: Ex Africa semper aliquid novi. *Medicine and Science in Sports and Exercise* 29, 571–90.
- Noakes, T.D. (1998a). Fluid and electrolyte disturbances in heat illness. *International Journal of Sports Medicine* 19, S146–49.
- Noakes, T.D., (1998b). Maximal oxygen uptake: “Classical” versus “contemporary” viewpoints: A rebuttal. *Medicine and Science in Sports and Exercise* 30, 1381–98.
- Noakes, T.D. (1998c). Why do Africans run so swiftly? A research challenge for African scientists. *South African Journal of Science* 94, 531–35.
- Noakes, T.D. (1999a). Perpetuating ignorance: Intravenous fluid therapy in sport. *British Journal of Sports Medicine* 33, 296–97.
- Noakes, T.D. (1999b). Postexercise increase in nitric oxide in football players with muscle cramps. *American Journal of Sports Medicine* 27, 688–89.
- Noakes, T.D. (2000a). Exercise in the cold. *Ergonomics* 42(10), 1461–79.
- Noakes, T.D. (2000b). Hyponatremia in distance athletes: Pulling the IV on the “dehydration myth.” *Physician and Sportsmedicine* 28 (September), 71–76.
- Noakes, T.D. (2000c). Physiological models to understand exercise fatigue and the adaptations that predict or enhance athletic performance. *Scandinavian Journal of Medicine and Science in Sports* 10, 123–45.
- Noakes, T.D. (2001a). Hyponatremia or hype? *Physician and Sportsmedicine* 29 (July), 27–32.
- Noakes, T.D. (2001b) Editorial. Running, the kidneys and drinking too much—the hyponatraemia of exercise. *South African Medical Journal* 91(10), 843–44.
- Noakes, T.D. (2002). Hyponatremia in distance runners: fluid and sodium balance during exercise. *Current Sports Medicine Reports* 4, 197–207.
- Noakes, T.D., Adams, B.A., Greeff, C., Lotz, T., Nathan, M. (1988). The danger of an inadequate water intake during prolonged exercise: A novel concept revisited. *European Journal of Applied Physiology* 57, 210–19.
- Noakes, T.D., Berlinski, N., Solomon, E., Weight, L.M. (1991). The biochemical results of intravenous fluid therapy in collapsed ultramarathon runners. *Physician and Sportsmedicine* 19(7), 70–81.
- Noakes, T.D., Carter, J.W. (1976). Biochemical parameters in athletes before and after having run 160 kilometres. *South African Medical Journal* 50, 1562–66.
- Noakes, T.D., Carter, J.W. (1982). The responses of plasma biochemical parameters to a 56 km race in novice and experienced ultra-marathon runners. *European Journal of Applied Physiology* 49, 179–86.
- Noakes, T.D., Goodwin, N., Rayner, B.L., Brankin, T., Taylor, R.K.N. (1985). Water intoxication: A possible complication of endurance exercise. *Medicine and Science in Sports and Exercise* 17, 24–30.
- Noakes, T.D., Granger, S. (1990). *Running Injuries*. Oxford University Press, Cape Town, South Africa.
- Noakes, T.D., Higginson, L., Opie, L.H. (1983). Physical training increases ventricular fibrillation thresholds of isolated rat hearts during normoxia, hypoxia and regional ischemia. *Circulation* 67, 24–30.
- Noakes, T.D., Kotzenberg, G., McArthur, P.S., Dykman, J. (1983). Elevated serum creatine kinase MB and creatine kinase BB-isoenzyme fractions after ultra-marathon running. *European Journal of Applied Physiology* 52, 75–59.
- Noakes, T.D., Lambert, V.E., Lambert, M.I., McArthur, P., Myburgh, K., Benade, A.J.S. (1988). Carbohydrate ingestion and muscle glycogen depletion during marathon and ultramarathon racing. *European Journal of Applied Physiology* 57, 482–89.

- Noakes, T.D., Myburgh, K.H., Du Plessis, J., Lang, L., Lambert, M., van der Riet, C. (1990a). Metabolic rate not % dehydration predicts rectal temperature after marathon running. *Medicine and Science in Sports and Exercise* 23, 443–49.
- Noakes, T.D., Myburgh, K.H., Schall, R. (1990b). Peak treadmill running velocity during the  $\dot{V}O_{2\max}$  test predicts running performance. *Journal of Sports Sciences* 8, 35–45.
- Noakes, T.D., Norman, R.J., Buck, R.H., Godlonton, J., Stevenson, K., Pittaway, D. (1990). The incidence of hyponatremia during prolonged ultra-endurance exercise. *Medicine and Science in Sports and Exercise* 22(2), 165–70.
- Noakes, T.D., Opie, L., Beck, W., McKetchnie, J., Benchimol, A., Desser, K. (1977). Coronary heart disease in marathon runners. *Annals of the New York Academy of Sciences* 301, 593–619.
- Noakes, T.D., Peltonen, J.E., Rusko, H. (2001). Evidence that a central governor regulates exercise performance during acute hypoxia and hyperoxia. *Journal of Experimental Biology* 204, 3225–34.
- Noakes, T.D., Rehrer, N.J., Maughan R.J. (1991). The importance of volume in regulating gastric emptying. *Medicine and Science in Sports and Exercise* 23(3), 307–13.
- Noakes, T.D., Rose, A.G. (1984). Exercise-related deaths in subjects with co-existent hypertrophic cardiomyopathy and coronary artery disease: Case reports. *South African Medical Journal* 66, 183–87.
- Noakes, T.D., Rose, A.G., Benjamin, J. (1984a). Sudden death in a champion athlete: Autopsy findings. *South African Medical Journal* 66, 458–59.
- Noakes, T.D., Rose, A.G., Opie, L.H. (1984b). Marathon running and immunity to coronary heart disease: Fact vs. fiction. *Clinics in Sports Medicine* 3, 527–43.
- Noakes, T.D., Smith, J.A., Lindenberg, G., Wills, C.E. (1985). Pelvic stress fractures in long-distance runners. *American Journal of Sports Medicine* 13, 120–23.
- Noakes, T.D., Van Gend, M.A. (1988). Menstrual dysfunction in female athletes: A review for clinicians. *South African Medical Journal* 73, 350–55.
- Noble, B.J., Borg, G.A.V., Jacobs, I., Ceci, R., Kaiser, P. (1983). A category-ratio perceived exertion scale: Relationship to blood and muscle lactates and heart rates. *Medicine and Science in Sports and Exercise* 15, 523–28.
- Noble, C.A. (1979). The treatment of iliotibial band friction syndrome. *British Journal of Sports Medicine* 13, 51–54.
- Noble, C.A. (1980). Iliotibial band friction syndrome in runners. *American Journal of Sports Medicine* 8, 232–34.
- Nordemar, R., Ekblom, B., Zachrisson, L., Lindqvist, K. (1981). Physical training in rheumatoid arthritis: A controlled long-term study. *Scandinavian Journal of Rheumatology* 10, 17–23.
- Norell, S.E., Ahlbom, A., Feychting, M., Petersen, N.L. (1986). Fish consumption and mortality from coronary heart disease. *British Medical Journal* 295, 198.
- Norris, B., Schade, D.S., Eaton, R.P. (1978). Effects of altered free fatty acid mobilization on the metabolic response to exercise. *Journal of Clinical Endocrinology and Metabolism* 46, 254–59.
- Norris, J. (1983). The “scurvy disposition”: Heavy exertion as an exacerbating influence on scurvy in modern times. *Bulletin of the History of Medicine* 53, 325–88.
- Norris, R., Carroll, D., Cochrane, R. (1992). The effects of physical activity and exercise training on psychological stress and well-being in an adolescent population. *Journal of Psychosomatic Research* 36, 55–65.
- North, T.C., McCullagh, P., Tran, Z.V. (1990). Effect of exercise on depression. *Exercise and Sports Science Reviews* 18, 379–409.
- Norton, K., Olds, T., Olive, S., Craig, N. (1996). Anthropometry and sports performance. In K. Norton and T. Olds (Ed.), *Anthropometrica*. University of New South Wales Press, Sydney, 289–364.
- Norton, K.H., Gallagher, K.M., Smith, S.A., Querry, R.G., Welch-O’Connor, R.M., Raven, P.B. (1999). Carotid baroreflex function during prolonged exercise. *Journal of Applied Physiology* 87, 339–47.
- Nose, H., Mack, G.W., Shi, X., Nadel, E.R. (1988a). Involvement of sodium retention hormones during rehydration in humans. *Journal of Applied Physiology* 65, 332–36.
- Nose, H., Mack, G.W., Shi, X., Nadel, E.R. (1988b). Role of osmolality and plasma volume during rehydration in humans. *Journal of Applied Physiology* 65, 325–31.
- Nouri, S., Beer, J. (1989). Relations of moderate physical exercise to scores on hostility, aggression, and trait-anxiety. *Perceptive and Motor Skills* 68, 1191–94.
- Noyce, W. (1958). *The Springs of Adventure*. Murray, London.
- Nybo, L., Nielsen, B. (2001). Hyperthermia and central fatigue during prolonged exercise in humans. *Journal of Applied Physiology* 91, 1055–60.
- Nygaard, E., Madsen, A.G., Christensen, H. (1990). Endurance capacity and longevity in women. *Health Care for Women International* 11, 1–10.
- Nygaard, I., Delancey, J.D., Arnsdorf, L., Murphy, E. (1990). Exercise and incontinence. *Obstetrics and Gynecology* 75, 848–51.
- Nystad, W., Harris, J., Sundgot Borgen, J. (2000). Asthma and wheezing among Norwegian elite athletes. *Medicine and Science in Sports and Exercise* 32, 266–70.
- Oakley, G.P. (1998). Eat right and take a multivitamin. *New England Journal of Medicine* 338, 1060–61.
- Obarzanek, E., Schreiber, G.B., Crawford, P.B., Goldman, S.R., Barrier, P.M., Frederick, M.M., Lakatos, E. (1994). Energy intake and physical activity in relation to indexes of body fat: The National Heart, Lung, and Blood Institute Growth and Health Study. *American Journal of Clinical Nutrition* 60, 15–22.
- O’Brien, J. (1982). The road goes on and on. . . *Marathon and Distance Runner* 1 (September/October), 9–13.
- O’Connor, F.G., Wilder, R.P., Nirschl, R. (2001). *Textbook of Running Medicine*. McGraw-Hill, New York.
- O’Connor, P.J., Morgan, W.P., Raglin, J.S., Barksdale, C.M., Kalin, N.H. (1989). Mood state and salivary cortisol levels following overtraining in female swimmers. *Psychoneuroendocrinology* 14, 303–10.
- O’Connor, P.J., Raglin, J.S., Martinsen, E.W. (2000). Physical activity, anxiety and anxiety disorders. *International Journal of Sport Medicine* 31, 136–55.
- O’Connor, P.J., Smith, J.C. (1999). Using mood responses to overtraining to optimize endurance performance and prevent staleness. *Flemish Journal of Sportsmedicine and Sports Science* 80, 14–19.

- O'Connor, P.J., Smith, J.C., Morgan, W.P. (2000). Physical activity does not provoke panic attacks in patients with panic disorder: A review of the evidence. *Anxiety, Stress and Coping* 13, 333–53.
- O'Connor, T. (1960). *The 4-Minute Smiler: The Derek Ibbotson Story*. Stanley Paul, London.
- Odland, L.M., Heigenhauser, G.J.F., Wong, D., Hollidge-Horvat, M.G., Spriet, L.L. (1998). Effects of increased fat availability on fat-carbohydrate interaction during prolonged exercise in men. *American Journal of Physiology* 274, R894–902.
- Oelz, O., Howard, H., di Pampero, P.E., Hoppeler, H., Claassen, H., Jenni, R., Buhlmann, A., Ferretti, G., Bruckner, J.-C., Veicteinas, A., Gussoni, M., Cerretelli, P. (1986). Physiological profile of world-class high-altitude climbers. *Journal of Applied Physiology* 60, 1734–42.
- Oettlé, G.J. (1991). Effect of moderate exercise on bowel habit. *Gut* 32, 941–44.
- Ogilvie, B., Tutko, T.A. (1971). *Problem Athletes and How to Handle Them*. Pelham Books, London.
- Ogilvie, B.C. (1980). The unconscious fear of success. In R.M. Suinn (Ed.), *Psychology in Sports, Methods and Applications*. Burgess, Minneapolis.
- Ogilvie, B.C. (1981). Quoted by E. Olsen. Speed, strength, guts. *The Runner* 3 (February), 46–53.
- Ogilvie, B.C. (1983a). The orthopedist's role in children's sports. *Orthopedic Clinics of North America* 14, 361–72.
- Ogilvie, B.C. (1983b). Psychology and the elite young athletes. *Physician and Sportsmedicine* 11 (April), 195–202.
- O'Grady, M., Hackney, A.C., Schneider, K., Bossen, E., Steinberg, K., Douglas, J.M., Murray, W.J., Watkins, W.D. (2000). Diclofenac sodium (Voltaren) reduced exercise-induced injury in human skeletal muscle. *Medicine and Science in Sports and Exercise* 32, 1191–96.
- O'Herlichy, C. (1982). Jogging and suppression of ovulation. *New England Journal of Medicine* 306, 50–51.
- O'Leary, D.H., Polak, J.F., Kronmal, R.A., Manolio, T.A., Burke, G.L., Wolfson, S.K. (1999). Carotid-artery intima and media thickness as a risk factor for myocardial infarction and stroke in older adults. *New England Journal of Medicine* 340, 14–22.
- Oliver, R.M. (1967). Physique and serum lipids of young London busmen in relation to ischaemic heart disease. *British Journal of Industrial Medicine* 24, 181–86.
- Oliveria, S.A., Kohl, H.W., Trichopoulos, D., Blair, S.N. (1996). The association between cardiorespiratory fitness and prostate cancer. *Medicine and Science in Sports and Exercise* 28, 97–104.
- Oliveria, S.A., Lee, I.-M. (1997). Is exercise beneficial in the prevention of prostate cancer? *Sports Medicine* 23, 271–78.
- Ollerenshaw, K.J., Norman, S., Wilson, C.G., Hardy, J.G. (1987). Exercise and small intestinal transit. *Nuclear Medicine Communications* 8, 105–10.
- Olschewski, H., Brück, K. (1988). Thermoregulatory, cardiovascular, and muscular factors related to exercise after precooling. *Journal of Applied Physiology* 64, 803–11.
- Orava, S., Puranen, J., Ala-Ketola, L. (1978). Stress fractures caused by physical exercise. *Acta Orthopaedica Scandinavica* 49, 19–27.
- Orchard, J.W., Fricker, P.A., Abud, A.T., Mason, B.R. (1996). Biomechanics of iliotibial band friction syndrome in runners. *American Journal of Sports Medicine* 24, 375–79.
- O'Reilly, K.P., Warhol, M.J., Fiedling, R.A., Frontera, W.R., Meredith, C.N., Evans, W.J. (1987). Eccentric exercise-induced muscle damage impairs muscle glycogen repletion. *Journal of Applied Physiology* 63, 252–56.
- Orlick, T. (2000). In *Pursuit of Excellence*, 3<sup>rd</sup> ed. Human Kinetics, Champaign, IL.
- Ornish, D., Brown, S.E., Scherwitz, L.W., Billings, J.H., Armstrong, W.T., Ports, T.A., McLanahan, S.M., Kirkeeide, R.L., Brand, R.J., Gould, K.L. (1990). Can lifestyle changes reverse coronary heart disease? *Lancet* 336, 129–33.
- O'Rourke, L. (1982). Ron Clarke: The heart that wouldn't stop. *The Australian Weekend Magazine* (January 23–24), 1–2.
- Osler, T. (1967). *The Conditioning of Distance Runners*. Anderson World, Mountain View, CA.
- Osler, T. (1978). *Serious Runner's Handbook*. Anderson World, Mountain View, CA.
- Osler, T., Dodd, E. (1979). *Ultra-Marathonning: The Next Challenge*. World, Mountain View, CA.
- Osler, T.J., Dodd, E.L. (1977). Six-day pedestrian races. *Annals of the New York Academy of Sciences* 301, 820–52.
- Osterback, L., Qvarnberg, Y. (1987). A prospective study of respiratory infections in 12-year-old children actively engaged in sports. *Acta Paediatrica Scandinavica* 76, 944–49.
- O'Toole, M.L. (1988). Prevention and treatment of electrolyte abnormalities. In *Medical Coverage of Endurance Athletic Events*. Ross Laboratories, Columbus, OH, 93–96.
- O'Toole, M.L. (1998). Overreaching and overtraining in endurance athletes. In R.B. Kreider, A.C. Fry, M.L. O'Toole (Eds.), *Overtraining in Sports*. Human Kinetics, Champaign, IL, 3–17.
- O'Toole, M.L., Douglas, P.S., Hiller, D.W., Laird, R.G. (1999). Hematocrits of triathletes: Is monitoring useful? *Medicine and Science in Sports and Exercise* 31(3), 372–77.
- O'Toole, M.L., Douglas, P.S., Hiller, W.D.B. (1998). Use of heart rate monitors by endurance athletes: Lessons from triathletes. *Journal of Sports Medicine and Physical Fitness* 38, 181–87.
- O'Toole, M.L., Douglas, P.S., Laird, R.H., Hiller, D.B. (1995). Fluid and electrolyte status in athletes receiving medical care at an ultradistance triathlon. *Clinical Journal of Sport Medicine* 5, 116–22.
- Owen, M.D., Kregel, K.C., Wall, P.T., Gisolfi, C.V. (1986). Effects of ingesting carbohydrate beverages during exercise in the heat. *Medicine and Science in Sports and Exercise* 18, 568–75.
- Paavola, M., Kannus, P., Paakkala, T., Pasanen, M., Järvinen, M. (2000). Long-term prognosis of patients with Achilles tendinopathy. *American Journal of Sports Medicine* 28, 634–42.
- Paavolainen, L., Häkkinen, K., Hämmäläinen, I., Nummela, A., Rusko, H. (1999). Explosive-strength training improves 5-km running time by improving running economy and muscle power. *Journal of Applied Physiology* 86, 1527–33.
- Paavolainen, L., Nummela, A., Rusko, H., Häkkinen, K. (1999). Neuromuscular characteristics and fatigue during 10 km running. *International Journal of Sports Medicine* 20, 1–6.

- Paavolainen, L., Nummela, A.T., Rusko, H.K. (1999). Neuromuscular characteristics and muscle power as determinants of 5-km running performance. *Medicine and Science in Sports and Exercise* 31, 124–30.
- Pacelli, L.C. (1990). Overhydration: Is it possible? *The Physician and Sportsmedicine* 18 (August), 29–30.
- Padilla, S., Bourdin, M., Barthélémy, J.C., Lacour, J.R. (1992). Physiological correlates of middle-distance running performance. *European Journal of Applied Physiology* 65, 561–66.
- Paffenbarger, R.S., Asnes, D.P. (1966). Chronic disease in former college students: III. Precursors of suicide in early and middle life. *American Journal of Public Health* 56, 1026–36.
- Paffenbarger, R.S., Hale, W.E. (1975). Work activity and coronary heart mortality. *New England Journal of Medicine* 292, 545–50.
- Paffenbarger, R.S., Hale, W.E., Brand, R.J., Hyde, R.T. (1977). Work-energy level, personal characteristics, and fatal heart attacks: A birth-cohort effect. *American Journal of Epidemiology* 105, 200–13.
- Paffenbarger, R.S., Hyde, R.T., Jung, D.L., Wing, A.L. (1984a). Epidemiology of exercise and coronary heart disease. *Clinics in Sports Medicine* 3, 297–318.
- Paffenbarger, R.S., Hyde, R.T., Wing, A.L. (1987). Physical activity and incidence of cancer in diverse populations: a preliminary report. *American Journal of Clinical Nutrition* 45, 312–17.
- Paffenbarger, R.S., Hyde, R.T., Wing, A.L., Steimetz, C.H. (1984b). A natural history of athleticism and cardiovascular health. *Journal of the American Medical Association* 252, 491–95.
- Paffenbarger, R.S., Hyde, R.T., Wing, A.L., Hsieh, C.C. (1986). Physical activity, all-cause mortality, and longevity of college alumni. *New England Journal of Medicine* 314, 605–13.
- Paffenbarger, R.S., Hyde, T.R., Wing, A.L., Lee, I.-M., Jung, D.L., Kampert, J.B. (1993). The association of changes in physical-activity level and other lifestyle characteristics with mortality among men. *New England Journal of Medicine* 328, 538–45.
- Paffenbarger, R.S., Jung, D.L., Leung, R.W., Hyde, R.T. (1991). Physical activity and hypertension: An epidemiological view. *Annals of Medicine* 23, 319–27.
- Paffenbarger, R.S., Lee, I.-M. (1997). Intensity of physical activity related to incidence of hypertension and all-cause mortality: An epidemiologic view. *Blood Pressure Monitoring* 2, 115–23.
- Paffenbarger, R.S., Lee, I.-M., Leung, R. (1994). Physical activity and personal characteristics associated with depression and suicide in American college men. *Acta Psychiatrica Scandinavica* 377 (Suppl.), 16–22.
- Paffenbarger, R.S., Olsen, E. (1996). *Lifefit: An Effective Exercise Program for Optimal Health and a Longer Life*. Human Kinetics, Champaign, IL.
- Paffenbarger, R.S., Wing, A.L., Hyde, R.T. (1978). Physical activity as an index of heart attack risk in college alumni. *American Journal of Epidemiology* 108, 161–75.
- Paffenbarger, R.S., Wing, A.L., Hyde, R.T., Jung, D.L. (1983). Physical activity and incidence of hypertension in college alumni. *American Journal of Epidemiology* 117, 245–57.
- Paganini-Hill, A., Chao, A., Ross, R.K., Henderson, B.E. (1991). Exercise and other factors in the prevention of hip fracture: The Leisure World study. *Epidemiology* 2, 16–25.
- Pallikarakis, N., Jandain, B., Pirnay, F., Mosora, F., Lacroix, M., Luyckx, A.S., Lefebvre, P.J. (1986). Remarkable metabolic availability of oral glucose during long-duration exercise in humans. *Journal of Applied Physiology* 60, 1035–42.
- Palmer, G.S., Clancy, M.C., Hawley, J.A., Rodger, I.M., Burke, L.M., Noakes, T.D. (1998). Carbohydrate ingestion immediately before exercise does not improve 20 km time trial performance in well trained cyclists. *International Journal of Sports Medicine* 19, 415–18.
- Palmoski, M.J., Colyer, R.A., Brandt, K.D. (1980). Joint motion in the absence of normal loading does not maintain normal articular cartilage. *Arthritis and Rheumatism* 23, 325–34.
- Palosuo, K., Alenius, H., Varjonen, E., Koivuluhta, M., Mikkola, J., Keskinen, H., Kalkkinen, N., Reunala, T. (1999). A novel wheat gliadin as a cause of exercise-induced anaphylaxis. *Journal of Allergy and Clinical Immunology* 103, 912–17.
- Pandolf, K.B., Young, A.J., Sawka, M.N., Kenney, J.L., Sharp, M.W., Cote, R.R., Freund, B.J., Valeri, C.R. (1998). Does erythrocyte infusion improve 3.2-km run performance at high altitude? *European Journal of Applied Physiology* 79, 1–6.
- Paneblanco, R.A., Stachenfeld, N., Coplan, N.L., Gleim, G.W. (1995). Effects of blood donation on exercise performance in competitive cyclists. *American Heart Journal* 130, 838–40.
- Panni, A.S., Tartarone, M., Maffulli, N. (2000). Patellar tendinopathy in athletes: Outcome of nonoperative and operative management. *American Journal of Sports Medicine* 28, 392–97.
- Pantano, J.A., Oriel, R.J. (1982). Prevalence and nature of cardiac arrhythmias in apparently normal well-trained runners. *American Heart Journal* 104, 762–68.
- Panush, R.S., Inzinna, J.D. (1994). Recreational activities and degenerative joint disease. *Sports Medicine* 17, 1–5.
- Panush, R.S., Schmidt, C., Caldwell, J., Edwards, N.L., Longley, S., Yonker, R., Webster, E., Nauman, J., Stork, J., Pettersson, H. (1986). Is running associated with degenerative joint disease? *Journal of the American Medical Association* 255, 1152–54.
- Paolone, A.M., Shangold, M., Paul, D., Minniti, J., Weiner, S. (1987). Fetal heart rate measurement during maternal exercise: Avoidance of artifact. *Medicine and Science in Sports and Exercise* 19, 605–9.
- Pargman, D. (1980). The way of the runner: An examination of motives for running. In R.M. Suinn (Ed.), *Psychology in Sports: Methods and Applications*. Burgess, Minneapolis.
- Parisotto, R., Gore, C.J., Hahn, A.G., Ashenden, M.J., Olds, T.S., Martin, D.T., Pyne, D.B., Gawthorn, K., Brugnara, C. (2000). Reticulocyte parameters as potential discriminators of recombinant human erythropoietin abuse in elite athletes. *International Journal of Sports Medicine* 21, 471–79.
- Park, J.H., Brown, R.L., Park, C.R., Cohn, M., Chance, B. (1988). Energy metabolism of the untrained muscle of elite runners as observed by <sup>31</sup>P magnetic resonance spectroscopy: Evidence suggesting a genetic endowment for endurance exercise. *Proceedings of the National Academy of Sciences USA* 85, 8780–84.

- Park, R.J. (1992). Athletes and their training in Britain and America, 1800–1914. In J. Berryman, R.J. Park (Eds.), *Sport and Exercise Science*. University of Illinois Press, Urbana, 57–107.
- Park, R.J. (1997). High protein diets, “damaged hearts,” and rowing men: Antecedents of modern sports medicine and exercise science. *Exercise and Sports Science Reviews* 25, 137–69.
- Parker, B.M., Londeree, B.R., Cupp, G.V., Dubiel, J.P. (1978). The non-invasive cardiac evaluation of long-distance runners. *Chest* 73, 376–81.
- Parkhouse, W.S., McKenzie, D.C. (1984). Possible contribution of skeletal muscle buffers to enhanced anaerobic performance: A brief review. *Medicine and Science in Sports and Exercise* 16, 328–38.
- Parkin, J.M., Carey, M.F., Zhao, S., Febbraio, M.A. (1999). Effect of ambient temperature on human skeletal muscle meta-bolism during fatiguing submaximal exercise. *Journal of Applied Physiology* 86, 902–8.
- Parry-Billings, M., MacLaren, D. (1986). The effect of sodium bicarbonate and sodium citrate ingestion on anaerobic power during intermittent exercise. *European Journal of Applied Physiology* 55, 524–29.
- Pärssien, M., Kujala, U., Vartiainen, E., Sarna, S., Seppälä, T. (2000). Increased premature mortality of competitive powerlifters suspected to have used anabolic agents. *International Journal of Sports Medicine* 21, 225–27.
- Pasman, W.J., van Baak, M.A., Jeukendrup, A.E., de Haan, A. (1995). The effect of different dosages of caffeine on endurance performance time. *International Journal of Sports Medicine* 16, 225–.
- Passe, D.H. (2001). Physiological and psychological determinants of fluid intake. In R.J. Maughan, R. Murray (Eds.), *Sports Drinks: Basic Science and Practical Aspects*. CRC Press, Boca Raton, FL, 45–87.
- Passmore, R., Durnin, J.V.G.A. (1955). Human energy expenditure. *Physiological Reviews* 35, 801–36.
- Pastene, J., Germain, M., Allevard, A.M., Gharib, C., Lacour, J.-R. (1996). Water balance during and after marathon running. *European Journal of Applied Physiology* 73, 49–55.
- Pate, R.R., Miller, B.J., Davis, J.M., Slentz, C.A., Klingshirm, L.A. (1993). Iron status of female runners. *International Journal of Sport Nutrition* 3, 222–31.
- Pate, R.R., Sargent, R.G., Baldwin, C., Burgess, M.L. (1990). Dietary intake of women runners. *International Journal of Sports Medicine* 11, 461–66.
- Pate, R.R., Sparling, P.B., Wilson, G.E., Cureton, K.J., Miller, B.J. (1987). Cardio-respiratory and metabolic responses to submaximal and maximal exercise in elite women distance runners. *International Journal of Sports Medicine* 8 (Suppl 3), 91–95.
- Patterson, M.J., Cotter, J.D., Taylor, N.A. (1995). Thermal tolerance following artificially induced polycythaemia. *European Journal of Applied Physiology* 71, 416–23.
- Paulev, P.-E., Jordal, R., Pedersen, N.S. (1983). Dermal excretion of iron in intensely training athletes. *Clinica Chimica Acta* 127, 19–27.
- Pavlou, K.N., Steffee, W.P., Lerman, R.H., Burrows, B.A. (1985). Effects of diet and exercise on lean body mass, oxygen uptake, and strength. *Medicine and Science in Sports and Exercise* 17, 466–71.
- Pavlov, H., Torg, J.S., Freiburger, R.H. (1983). Tarsal navicular stress fractures: Radiographic evaluation. *Radiology* 148, 641–71.
- Pavy, F.W. (1874). *A Treatise on Food and Dietetics, Physiologically and Therapeutically Considered*. Lea, Philadelphia.
- Peachey, L.D. (1985). Excitation-contraction coupling: the link between the surface and the interior of the muscle cell. *Journal of Experimental Biology* 115, 91–98.
- Pearlmutter, E.M. (1986). The Pittsburgh marathon: “Playing weather roulette.” *Physician and Sportsmedicine* 14, 132–38.
- Pedersen, B.K., Hoffman-Goetz, L. (2000). Exercise and the immune system: Regulation, integration, and adaptation. *Physiological Reviews* 80, 1055–81.
- Pedersen, B.K., Tvede, N., Christensen, L.D., Klarlund, K., Kragbak, S., Halkjær-Kristensen, J. (1989). Natural killer cell activity in peripheral blood of highly trained and untrained persons. *International Journal of Sports Medicine* 10, 129–31.
- Peiris, A., Sothman, M., Hoffman, R., Hennes, M. (1989). Adiposity, fat distribution, and cardiovascular risk. *Annals of Internal Medicine* 110, 867–72.
- Pekkanen, J., Marti, B., Nissinen, A., Tuomilehto, J., Punsar, S., Karvonen, M.J. (1987). Reduction of premature mortality by high physical activity: A 20-year follow-up of middle-aged Finnish men. *Lancet* i, 1473–77.
- Pelliccia, A., Maron, B.J., Spataro, A., Proschan, M.A., Spirito, P. (1991). The upper limit of physiologic cardiac hypertrophy in highly trained elite athletes. *New England Journal of Medicine* 324, 295–301.
- Peltonen, J.E., Rantamaki, J., Niittymaki, S.P., Sweins, K., Viitasalo, J.T., Rusko, H.K. (1995). Effect of oxygen fraction in inspired air on rowing performance. *Medicine and Science in Sports and Exercise* 27, 573–79.
- Peltonen, J.E., Rusko, H.K., Rantamaki, J., Sweins, K., Niittymaki, S., Viitasalo, J.T. (1997). Effects of oxygen fraction in inspired air on force production and electromyogram activity during ergometer rowing. *European Journal of Applied Physiology* 76, 495–503.
- Peltonen, J.E., Tikkanen, H.O., Rusko, H.K. (2001). Cardio-respiratory responses to exercise in acute hypoxia, hyperoxia and normoxia. *European Journal of Applied Physiology* 85, 82–88.
- Pennisi, E. (1997). A new view of how leg muscles operate on the run. *Science* 275, 1067.
- Péronnet, F. (1994). Altitude training did not speed up the progression of running performance in man. *International Journal of Sports Medicine* 15, 335–36.
- Péronnet, F., Burelle, Y., Massicotte, D., Lavoie, C., Hillaire-Marcel, C. (1997). Respective oxidation of <sup>13</sup>C-labelled lactate and glucose ingested simultaneously during exercise. *Journal of Applied Physiology* 82, 440–46.
- Péronnet, F., Rhéaume, N., Lavoie, C., Hillaire-Marcel, C., Massicotte, D. (1998). Oral [<sup>13</sup>C] glucose oxidation during prolonged exercise after high- and low-carbohydrate diets. *Journal of Applied Physiology* 85, 723–30.
- Péronnet, F., Thibault, G. (1989). Mathematical analysis of running performance and world running records. *Journal of Applied Physiology* 67, 453–65.
- Péronnet, F., Thibault, G., Cousineau, D.-L. (1991). A theoretical analysis of the effect of altitude on running performance. *Journal of Applied Physiology* 70, 399–404.

- Perry, A.C., Crane, L.S., Applegate, B., Marquez-Sterling, S., Signorile, J.F., Miller, P.C. (1996). Nutrient intake and psychological and physiological assessment in eumenorrheic and amenorrheic female athletes: A preliminary study. *International Journal of Sport Nutrition* 6, 3–13.
- Perry, S.W., Sacks, M.H. (1981). Psychodynamics of running. In M.H. Sacks, M.L. Sachs (Eds.), *Psychology of Running*. Human Kinetics, Champaign, IL, 69–79.
- Perusse, L., Tremblay, A., Leblanc, C., Bouchard, C. (1989). Genetic and environmental influences on level of habitual physical activity and exercise participation. *American Journal of Epidemiology* 129, 1012–22.
- Peters, E., Bateman, E. (1983). Ultra-marathon running and upper respiratory tract infection: An epidemiological survey. *South African Medical Journal* 64, 582–84.
- Peters, E.M. (1992). Altitude fails to increase susceptibility of ultramarathon runners to post-race upper respiratory tract infections. *South African Journal of Sports Medicine* 5(2), 4–8.
- Peters, E.M. (1997). Exercise, immunology and upper respiratory tract infections. *International Journal of Sports Medicine* 18, S69–77.
- Peters, E.M., Anderson, R., Theron, A.J. (2001). Attenuation of increase in circulating cortisol and enhancement of the acute phase protein response in vitamin C-supplemented ultra-marathoners. *International Journal of Sports Medicine* 22, 120–26.
- Peters, E.M., Goetzsche, J.M. (1997). Dietary practices of South African ultradistance runners. *International Journal of Sport Nutrition* 7, 80–103.
- Peters, E.M., Goetzsche, J.M., Joseph, L.E., Noakes, T.D. (1996). Vitamin C as effective as combinations of antioxidant nutrients in reducing symptoms of upper respiratory tract infection in ultramarathon runners. *South African Journal of Sports Medicine* (March), 23–27.
- Peters, H.P., van Schelvan, F.W., Verstappen, P.A., de Boer, R.W., Bol, E., Erich, W.B., van der Togt, C.R., de Vries, W.R. (1993). Gastrointestinal problems as a function of carbohydrate supplements and mode of exercise. *Medicine and Science in Sports and Exercise* 25, 1211–24.
- Peters, H.P.F., Zweers, M., Backx, F.J.G., Bol, E., Hendriks, E.R.H.A., Mosterd, W.L., De Vries, W.R. (1999). Gastrointestinal symptoms during long-distance walking. *Medicine and Science in Sports and Exercise* 31, 767–73.
- Peters, J. (1955). *In the Long Run*. Cassell, London.
- Peters, J.H. (1955). Personal communication to J. Mekler.
- Peters, J.H., Johnston, J., Edmundson, J. (1957). *Modern Middle and Long Distance Running*. Kaye, London.
- Peters, K. (1981). Conversation with . . . Steve Scott and Herb Elliott. *Running* 6 (June), 16–18.
- Peters-Futre, E.M., Noakes, T.D., Raine, R.I., Terblanche, S.E. (1987). Muscle glycogen repletion during active postexercise recovery. *American Journal of Physiology* 253, E305–11.
- Petray, C.K., Krahenbuhl, G.S. (1985). Running training instruction on running technique, and running economy in 10-year-old males. *Research Quarterly for Exercise and Sport* 56, 251–55.
- Petruzzello, S.J., Landers, D.M., Hatfield, B.D., Kubitz, K.A., Salazar W. (1991). A meta-analysis on the anxiety-reducing effects of acute and chronic exercise: Outcomes and mechanisms. *Sports Medicine* 11, 143–82.
- Pettersson, U., Stalnacke, B., Ahlenius, G., Henriksson-Larsen, K., Lorentzon, R. (1999). Low bone mass density at multiple skeletal sites, including the appendicular skeleton in amenorrheic runners. *Calcified Tissue International* 62, 117–25.
- Pfizinger, P., Douglas, S. (1999). *Road Racing for Serious Runners*. Human Kinetics, Champaign, IL.
- Pflieger, K.L., Strong, W.B. (1992). Screening for heart murmurs. *Physician and Sportsmedicine* 20(10), 71–81.
- Phillips, R.L., Garfinkel, L., Kuzma, J.W., Beeson, W.L., Lotz, T., Brin, B. (1980). Mortality among California Seventh-day Adventists for selected cancer sites. *Journal of the National Cancer Institute* 65, 1097–107.
- Phillips, S., Rook, K., Siddle, N., Bruce, S., Woledge, R. (1993). Muscle weakness in women occurs at an earlier age than in men, but strength is preserved by hormone replacement therapy. *Clinical Science* 84, 95–98.
- Phillips, S.M., Atkinson, S.A., Tarnopolsky, M.A., MacDougall, J.D. (1993). Gender differences in leucine kinetics and nitrogen balance in endurance athletes. *Journal of Applied Physiology* 75, 2134–41.
- Phillips, S.M., Green, H.J., Tarnopolsky, M.A., Grant, S.M. (1995). Decreased glucose turnover after short-term training is unaccompanied by changes in muscle oxidative potential. *American Journal of Physiology* 269, E222–30.
- Phillips, S.M., Green, H.J., Tarnopolsky, M.A., Heigenhauser, G.J.F., Grant, S.M. (1996a). Progressive effect of endurance training on metabolic adaptations in working skeletal muscle. *American Journal of Physiology* 270, E265–72.
- Phillips, S.M., Green, H.J., Tarnopolsky, M.A., Heigenhauser, G.J.F., Hill, R.E., Grant, S.M. (1996b). Effects of training duration on substrate turnover and oxidation during exercise. *Journal of Applied Physiology* 81, 2182–91.
- Phinney, S.D., Bistrian, B.R., Evans, W.J., Gervino, E., Blackburn, G.L. (1983). The human metabolic response to chronic ketosis without caloric restriction: Preservation of submaximal exercise capability with reduced carbohydrate oxidation. *Metabolism* 32, 769–76.
- Pichot, V., Roche, F., Gaspoz, J.-M., Enjolras, F., Antoniadis, A., Minini, P., Costes, F., Busso, T., Lacour, J.-R., Barthélémy, J.C. (2000). Relation between heart rate variability and training load in middle-distance runners. *Medicine and Science in Sports and Exercise* 32, 1729–36.
- Piepoli, M., Coats, A.J., Adamopoulos, S., Bernardi, L., Feng, Y.H., Conway, J., Sleight, P. (1993). Persistent peripheral vasodilation and sympathetic activity in hypotension after maximal exercise. *Journal of Applied Physiology* 75, 1807–14.
- Pierson, W.R., Lockhart, A. (1963). Effect of menstruation on simple movement and reaction time. *British Medical Journal* 1, 796–97.
- Pilegaard, H., Bangsbo, J., Richter, E.A., Juel, C. (1994). Lactate transport studied in sarcolemmal giant vesicles from human muscle biopsies: Relation to training status. *Journal of Applied Physiology* 77, 1858–62.
- Pinshaw, R., Atlas, V., Noakes, T.D. (1983). The nature and response to therapy of 196 consecutive injuries seen at a runner's clinic. *South African Medical Journal* 65, 291–98.
- Pipe, A. (1996). Smoking habits and long-term decline in physical fitness and lung function in men. *Clinical Journal of Sport Medicine* 6, 139.

- Pipes, T.V. (1980). The effects of pangamic acid on performance in trained athletes. *Medicine and Science in Sports and Exercise* 12, 98.
- Pirie, G. (1961). *Running Wild*. Allen, London.
- Pirnay, F., Crielaard, J.M., Pallikarakis, N., Lacroix, M., Mosora, F., Krzentowski, G., Luyckx, A.S., Lefébvre, P.J. (1982). Fate of exogenous glucose during exercise of different intensities in humans. *Journal of Applied Physiology* 53, 1620–24.
- Pirnay, F., Lacroix, M., Mosora, F., Luyckx, A., Lefébvre, P. (1977). Effect of glucose ingestion on energy substrate utilization during prolonged muscular exercise. *European Journal of Applied Physiology* 36, 247–54.
- Pirnay, F., Scheen, A.J., Gautier, J.F., Lacroix, M., Mosora, F., Lefébvre, P.J. (1995). Exogenous glucose oxidation during exercise in relation to the power output. *International Journal of Sports Medicine* 16, 456–60.
- Pi-Sunyer, F.X., Woo, R. (1985). Effect of exercise on food intake in human subjects. *American Journal of Clinical Nutrition* 42 (Suppl 5), 983–90.
- Pitsiladis, Y.P., Maughan, R.J. (1999a). The effects of alterations in dietary carbohydrate intake on the performance of high-intensity exercise in trained individuals. *European Journal of Applied Physiology* 79, 433–42.
- Pitsiladis, Y.P., Maughan, R.J. (1999b). The effects of exercise and diet manipulation on the capacity to perform prolonged exercise in the heat and in the cold in trained humans. *Journal of Physiology* 517, 919–30.
- Pitts, G.C., Johnson, R.E., Consolazio, F.C. (1944). Work in the heat as affected by intake of water, salt and glucose. *American Journal of Physiology* 142, 253–59.
- Plaatjies, M. (1986). Marathoner's injury trends all the same. *The Star* (September 3).
- Platz, E.A., Kawachi, I., Rimm, E.B., Colditz, G.A., Stampfer, M.J., Willett, W.C., Giovannucci, E. (1998). Physical activity and benign prostatic hyperplasia. *Archives of Internal Medicine* 158, 2349–56.
- Plowman, S.A., Liu, N.Y., Wells, C.L. (1991). Body composition and sexual maturation in premenarcheal athletes and nonathletes. *Medicine and Science in Sports and Exercise* 23, 23–29.
- Plunkett, B.T., Hopkins, W.G. (1999). Investigation of the side pain "stitch" induced by running after fluid ingestion. *Medicine and Science in Sports and Exercise* 31, 1169–75.
- Pocock, N.A., Eisman, J.A., Yeates, M.G., Sambrook, P.N., Eberl, S. (1986). Physical fitness is a major determinant of femoral neck and lumbar spine bone mineral density. *Journal of Clinical Investigation* 78, 618–21.
- Podolsky, R.C., Schoenberg, M. (1983). Force generation and shortening in skeletal muscle. In L.D. Peachey, R.H. Adrian, S.R. Geiger (Eds.), *Handbook of Physiology. Volume 10: Skeletal Muscle*. American Physiological Society, Bethesda, MD, 172–87.
- Poehlman, E.T. (1989). A review: Exercise and its influence on resting energy metabolism in man. *Medicine and Science in Sports and Exercise* 21, 515–25.
- Poehlman, E.T., Gardner, A.W., Arciero, P.J., Goran, M.I., Calles-Escandon, J. (1994). Effects of endurance training on total fat oxidation in elderly persons. *Journal of Applied Physiology* 76, 2281–87.
- Poehlman, E.T., McAuliffe T.L., van Houten, D.R., Danforth, E. (1990). Influence of age and endurance training on metabolic rate and hormones in healthy men. *American Journal of Physiology* 259, E66–72.
- Polak, A.A., van Linge, B., Rutten, F.L., Stijnen, T. (1993). Effect of intravenous fluid administration on recovery after running a marathon. *British Journal of Sports Medicine* 27, 205–8.
- Pollock, M.L. (1977). Submaximal and maximal working capacity of elite distance runners. Part 1: Cardiorespiratory aspects. *Annals of the New York Academy of Sciences* 301, 310–21.
- Pollock, M.L., Foster, C., Knapp, D., Rod, J.L., Schmidt, D.H. (1987). Effect of age and training on aerobic capacity and body composition of master athletes. *Journal of Applied Physiology* 62, 725–31.
- Pollock, M.L., Gettman, L.R., Jackson, A., Ayres, J., Ward, A., Linnerud, A.C. (1977). Body composition of elite class distance runners. *Annals of the New York Academy of Sciences* 301, 361–70.
- Pomerance, J.J., Gluck, L., Lynch, V.A. (1974). Physical fitness in pregnancy: Its effect on pregnancy outcome. *American Journal of Obstetrics and Gynecology* 119, 867–76.
- Poortmans, J.R., Francaux, M. (2000). Adverse effects of creatine supplementation: Fact or fiction? *Sports Medicine* 39, 155–70.
- Pope, R.P., Herbert, R.D., Kirwan, J.D., Graham, B.J. (2000). A randomized trial of preexercise stretching for prevention of lower-limb injury. *Medicine and Science in Sports and Exercise* 32, 271–77.
- Porcello, L.A.P. (1984). A practical guide to fad diets. *Clinics in Sports Medicine* 3, 723–29.
- Porter, A.M.W. (1982). Marathon running and the caecal slap syndrome. *British Journal of Sports Medicine* 16, 178.
- Porter, A.M.W. (1983). Do some marathon runners bleed into the gut? *British Medical Journal* 287, 1427.
- Porter, K., Foster, J. (1986). *The Mental Athlete*. Ballantine Books, New York.
- Posel, D., Noakes, T.D., Kantor, P., Lambert, M., Opie, L.H. (1989). Exercise training after experimental myocardial infarction increases the ventricular fibrillation threshold before and after the onset of reinfarction in the isolated rat heart. *Circulation* 80, 138–45.
- Potard, U.S.B., Leith, D.E., Fedde, M.R. (1998). Force, speed, and oxygen consumption in thoroughbred and draft horses. *Journal of Applied Physiology* 84, 2052–59.
- Potgieter, J.R. (1997). *Sport Psychology: Theory and Practice*. Institute for Sport and Movement Studies, University of Stellenbosch, Cape Town, South Africa.
- Potteiger, J.A., Nickel, G.L., Webster, M.J., Haub, M.D., Palmer, R.J. (1996). Sodium citrate ingestion enhances 30 km cycling performance. *International Journal of Sports Medicine* 17, 7–11.
- Potter, P.C. (1994). Diagnosis and management of food allergy. *Continuing Medical Education* 12, 51–56.
- Powell, K., Blair, S.N. (1994). The public health burdens of sedentary living habits: Theoretical but realistic estimates. *Medicine and Science in Sports and Exercise* 26, 851–56.
- Powell, K.E., Kohl, H.W., Caspersen, C.J., Blair, S.N. (1986). An epidemiological perspective on the causes of running injuries. *Physician and Sportsmedicine* 14, 100–14.



- Powell, K.E., Thompson, P.D., Caspersen, C.J., Kendrick, J.S. (1987). Physical activity and the incidence of coronary heart disease. *Annual Review of Public Health* 8, 253–87.
- Powell, P.D., Tucker, A. (1991). Iron supplementation and running performance in female cross-country runners. *International Journal of Sports Medicine* 12, 462–67.
- Powers, S.K., Dodd, S., Lawler, J., Landry, G., Kirtley, M., McKnight, T., Grinton, S. (1988). Incidence of exercise induced hypoxemia in elite endurance athletes at sea level. *European Journal of Applied Physiology* 58, 298–302.
- Powers, S.R., Dodd, S., Deason, R., Byrd, R., McKnight, T. (1983). Ventilatory threshold, running economy and distance running performance of trained athletes. *Research Quarterly for Exercise and Sport* 54, 179–82.
- Prättälä, R., Karisto, A., Berg, M.-A. (1994). Consistency and variation in unhealthy behaviour among Finnish men, 1982–1990. *Society for Scientific Medicine* 39, 115–22.
- Prentice, A.M., Jebb, S.A. (1995). Obesity in Britain: Gluttony or sloth? *British Medical Journal* 311, 437–39.
- Preston, G.M., Smith, B.L., Zeidel, M.L., Moulds, J.J., Agre, P. (1994). Mutations in aquaporin-1 in phenotypically normal humans without functional CHIP water channels. *Science* 265, 1585–87.
- Pretorius, D.M., Noakes, T.D., Irving, G.A., Allerton, K.E. (1986). Runner's knee: What is it and how effective is conservative treatment? *Physician and Sportsmedicine* 14, 71–81.
- Prilutsky, B.I., Herzog, W., Leonard, T.R., Allinger, T.L. (1996). Role of the muscle belly and tendon of soleus, gastrocnemius, and plantaris in mechanical energy absorption and generation during cat locomotion. *Journal of Biomechanics* 29, 417–34.
- Prince, R.L., Smith, M., Dick, I.M., Price, R.I., Webb, P.G., Henderson, N.K., Harris, M.M. (1991). Prevention of postmenopausal osteoporosis: A comparative study of exercise, calcium supplementation, and hormone-replacement therapy. *New England Journal of Medicine* 325, 1189–95.
- Prior, J.C., Vigna, Y. (1985). Gonadal steroids in athletic women: Contraception, complications and performance. *Sports Medicine* 2, 287–95.
- Prior, J.C., Vigna, Y.M. (1991). Ovulation disturbances and exercise training. *Clinical Obstetrics and Gynecology* 34, 180–90.
- Prior, J.C., Vigna, Y., Alojada, N. (1986). Conditioning exercise decreases menstrual symptoms: A prospective controlled three month trial. *European Journal of Applied Physiology* 55, 349–55.
- Prior, J.C., Vigna, Y.M., Schechter, M.T., Burgess, A.E. (1990). Spinal bone loss and ovulatory disturbances. *New England Journal of Medicine* 323, 1221–27.
- Prior, J.C., Yuen, B. Ho., Clement, P., Bowie, L., Thomas, J. (1982). Reversible luteal phase changes and infertility associated with marathon training. *Lancet* 2, 269–70.
- Proctor, D.N., Shen, P.H., Dietz, N.M., Eickhoff, T.J., Lawler, L.A., Ebersold, E.J., Loeffler, D.L., Joyner, M.J. (1998). Reduced leg blood flow during dynamic exercise in older endurance-trained men. *Journal of Applied Physiology* 85, 68–75.
- Prokop, L. (1963-64). Adrenals and sport. *Journal of Sports Medicine and Physical Fitness* 3-4, 115–121.
- Protzman, R.R. (1979). Physiologic performance of women compared to men: Observations of cadets at the United States Military Academy. *American Journal of Sports Medicine* 7, 191–94.
- Prud'Homme, D., Bouchard, C., Leblanc, C., Landry, F., Fontaine, E. (1984). Sensitivity of maximal aerobic power to training is genotype-dependent. *Medicine and Science in Sports and Exercise* 16, 489–93.
- Pugh, L.G.C.E. (1958). Muscular exercise on Mount Everest. *Journal of Physiology* 141, 233–61.
- Pugh, L.G.C.E. (1966). Accidental hypothermia in walkers, climbers, and campers: Report to the medical commission on accident prevention. *British Medical Journal* 1, 123–29.
- Pugh, L.G.C.E. (1967a). Athletes at altitude. *Journal of Physiology (London)* 142, 619–46.
- Pugh, L.G.C.E. (1967b). Cold stress and muscular exercise, with special reference to accidental hypothermia. *British Medical Journal* 2, 333–37.
- Pugh, L.G.C.E. (1970a). The influence of wind resistance in running and walking and the mechanical efficiency of work against horizontal or vertical forces. *Journal of Physiology* 213, 255–76.
- Pugh, L.G.C.E. (1970b). Oxygen uptake in track and treadmill running with observations on the effect of air resistance. *Journal of Physiology* 207, 823–35.
- Pugh, L.G.C.E. (1972). The gooseflesh syndrome (acute anhidrotic heat exhaustion) in long-distance runners. *British Journal of Physical Education* 3 (March), IX–XII.
- Pugh, L.G.C.E., Corbett, J.L., Johnson, R.H. (1967). Rectal temperatures, weight losses and sweat rates in marathon running. *Journal of Applied Physiology* 23, 347–52.
- Pugh, L.G.C.E., Edholm, O.G. (1955). The physiology of Channel swimmers. *Lancet* 2, 761–68.
- Pukkala, E., Kaprio, J., Koskenvuo, M., Kujala, U., Sarna, S. (2000). Cancer incidence among Finnish world class male athletes. *International Journal of Sports Medicine* 21, 216–20.
- Puranen, L., Ala-Ketola, L., Peltokallio, P., Saarela, J. (1975). Running and primary osteoarthritis of the hip. *British Medical Journal* 2, 424–25.
- Putman, C.T., Jones, N.L., Hultman, E., Hollidge-Horvat, M.G., Bonen, A., McConachie, D.R., Heigenhauser, G.J. (1998). Effects of short-term submaximal training in humans on muscle metabolism in exercise. *American Journal of Physiology* 275, E132–39.
- Putterman, C., Levy, L., Rubinger, D. (1993). Transient exercise-induced water intoxication and rhabdomyolysis. *American Journal of Kidney Diseases* 21, 206–9.
- Quadagno, D., Faquin, L., Lim, G., Kuminka, W., Moffatt, R. (1991). The menstrual cycle: Does it affect athletic performance? *Physician and Sportsmedicine* 19 (March), 121–24.
- Quadagno, D.M. (2000). Exercise and the female reproductive system: The effect of hormonal status on performance. In M.P. Warren, N.W. Constantini (Eds.), *Contemporary Endocrinology: Sports Endocrinology*. Humana Press, Totowa, NJ, 321–33.
- Quigley, B.M. (1982). "Biorhythms" and men's track and field world records. *Medicine and Science in Sports and Exercise* 14, 303–7.

- Quigley, T.B. (1968). Life expectancy of Ivy League rowing crews. *Journal of the American Medical Association* 205, 106.
- Quinn, T.G., Alderman, E.L., McMillan, A., Haskell, W., for the SCRIP investigators. (1994). Development of new coronary atherosclerotic lesions during a 4 year multifactor risk reduction program: The Stanford Coronary Risk Intervention Project (SCRIP). *Journal of the American College of Cardiology* 24, 900–8.
- Quinn, T.J., Vroman, N.B., Kertzer, R. (1994). Postexercise oxygen consumption in trained females: Effect of exercise duration. *Medicine and Science in Sports and Exercise* 26, 908–13.
- Radford, P.F. (1985). The art and science of training and coaching athletes in late 18th and early 19th century Britain. In J.A. Mangan (Ed.), *Proceedings of the HISPA International Congress, 1–5 July*. Glasgow.
- Ragland, D.R., Brand, R.J. (1988). Type A behavior and mortality from coronary heart disease. *New England Journal of Medicine* 318, 65–69.
- Raglin, J.S., Morgan, W.P. (1987). Influence of exercise and quiet rest on state anxiety and blood pressure. *Medicine and Science in Sports and Exercise* 19, 456–63.
- Rainey, C.J., McKeown, R.E., Sargent, R.G., Valois, R.F. (1996). Patterns of tobacco and alcohol use among sedentary, exercising, nonathletic, and athletic youth. *Journal of School Health* 66, 27–32.
- Raitakari, O.T., Prokka, K.V.K., Taimela, S., Telama, R., Räsänen, L., Viikari, S.A. (1994). Effects of persistent physical activity and inactivity on coronary risk factors in children and young adults. *American Journal of Epidemiology* 140, 195–205.
- Ramirez, J.A. (1996). Isolation of chlamydia pneumoniae from the coronary artery of a patient with coronary atherosclerosis. *Annals of Internal Medicine* 125, 979–82.
- Ramsbottom, R., Williams, C., Fleming, N., Nute, M.L.G. (1989). Training induced physiological and metabolic changes associated with improvements in running performance. *British Journal of Sports Medicine* 23, 171–76.
- Randle, P.J., Garland, P.B., Hales, C.N., Newsholme, E.A. (1963). The glucose-fatty acid cycle: Its role in insulin sensitivity and the metabolic disturbances of diabetes mellitus. *Lancet* 1, 785–89.
- Ransom, (1913). *Training of Athletes*. London.
- Ratcliffe, T. (1994). Camp Kenya. *Runner's World* (March), 64–71.
- Räty, H.P., Kujala, U.M., Videman, T., Impivaara, O., Battié, M.C., Sarna, S. (1997). Lifetime musculoskeletal symptoms and injuries among former elite male athletes. *International Journal of Sports Medicine* 18, 625–32.
- Rauch, H.G., Hawley, J.A., Woodey, M., Noakes, T.D., Dennis, S.C. (1999). Effects of ingesting a sports bar versus glucose polymer on substrate utilisation and ultra-endurance performance. *International Journal of Sports Medicine* 20, 252–57.
- Rauch, H.G., Hawley, J.A., Noakes, T.D., Dennis, S.C. (1998). Fuel metabolism during ultra-endurance exercise. *Pflugers Archives* 436, 211–19.
- Rauch, L.G.H., Rodger, I., Wilson, G., Belonje, J.D., Dennis, S.C., Noakes, T.D., Hawley, J.A. (1995). The effects of starting leg muscle glycogen content on cycling performance. *International Journal of Sports Nutrition* 5, 25–36.
- Rauramo, I., Forss, M. (1988). Effect of exercise on maternal hemodynamics and placental blood flow in healthy women. *Acta Obstetrica Gynecologica Scandinavica* 67, 21–25.
- Raven, P.B., Pawelczyk, J.A. (1993). Chronic endurance exercise training: a condition of inadequate blood pressure regulation and reduced tolerance to LBNP. *Medicine and Science in Sports and Exercise* 25, 713–21.
- Ravussin, E., Bogardus, C., Scheidegger, K., LaGrange, B., Horton, E.D., Horton, E.S. (1986). Effect of elevated FFA on carbohydrate and lipid oxidation during prolonged exercise in humans. *Journal of Applied Physiology* 60, 893–900.
- Rawson, E.S., Clarkson, P.M. (2000). Creatine supplementation: The athlete's friend or foe? *International SportMed Journal* 1(1) (March).
- Ray, M.L., Bryan, M.W., Ruden, T.M., Baier, S.M., Sharp, R.L., King, D.S. (1998). Effect of sodium in a rehydration beverage when consumed as a fluid or meal. *Journal of Applied Physiology* 85, 1329–36.
- Raynes, R.H. (1969). The doping of athletes. *British Journal of Sports Medicine* 4, 145–62.
- Razeghi, M., Batt, M.E. (2000). Biomechanical analysis of the effect of orthotic shoe inserts. *Sports Medicine* 29, 425–38.
- Rebuffe-Scrive, M., Marin, P., Bjorntorp, P. (1991). Effect of testosterone on abdominal adipose tissue in men. *International Journal of Obesity* 15, 791–95.
- Reed, D.R., Price, R.A. (1998). Dieting, exercise, or disordered eating does not account for extremes of body weight within families. *Obesity Research* 6, 332–37.
- Reed, M.J., Brozinick, J.T., Lee, M.C., Ivy, J.L. (1989). Muscle glycogen storage postexercise: Effect of mode of carbohydrate administration. *Journal of Applied Physiology* 66, 720–26.
- Reeves, J. (1979). Estimating fatness. *Science* 204, 881.
- Rehm, J., Fichter, M.M., Elton, M. (1993). Effects on mortality of alcohol consumption, smoking, physical activity, and close personal relationships. *Addiction* 88, 101–12.
- Rehrer, N.J. (1990). *Limits to Fluid Availability During Exercise*. Uitgeverij de Vrieseborch, Haarlem.
- Rehrer, N.J., Beckers, E., Brouns, F., ten Hoor, F., Saris, W.H.M. (1989). Exercise and training effects on gastric emptying of carbohydrate beverages. *Medicine and Science in Sports and Exercise* 21, 540–49.
- Rehrer, N.J., Beckers, E.J., Brouns, F., ten Hoor, F., Saris, W.H.M. (1990). Effects of dehydration on gastric emptying and gastrointestinal distress while running. *Medicine and Science in Sports and Exercise* 22(6), 790–95.
- Rehrer, N.J., Brouns, F., Beckers, E., ten Hoor, F., Saris, W.H.M. (1990). Gastric emptying with repeated drinking during running and bicycling. *International Journal of Sports Medicine* 11, 238–43.
- Rehrer, N.J., Janssen, G.M.E., Brouns, F., Saaris, W.H.M. (1989). Fluid intake and gastrointestinal problems in runners competing in a 25-km race and a marathon. *International Journal of Sports Medicine* 10 (Suppl 1), S22–25.
- Rehrer, N.J., van Kemenade, M., Meester, W., Brouns, F., Saris, W.H.M. (1992). Gastrointestinal complaints in relation to dietary intake in triathletes. *International Journal of Sport Nutrition* 2, 48–59.

- Reichelt, K.L., Foss, I., Trygstad, O., Edminson, P.D., Johansen, J.H., Boler, J.B. (1978). Humoral control of appetite: II. Purification and characterization of an anorexigenic peptide from human urine. *Neuroscience* 3, 1207–11.
- Reid, I.R., Ames, R.W., Evans, M.C., Gamble, G.D., Sharpe, S.J. (1993). Effect of calcium supplementation on bone loss in postmenopausal women. *New England Journal of Medicine* 328, 460–64.
- Reidman, S. (1950). *The Physiology of Work and Play*. Dryden Press, New York.
- Reinschmidt, C., van den Bogert, A.J., Murphy, N., Lundberg, A., Nigg, B.M. (1997). Tibiocalcaneal motion during running: Measured with external and bone markers. *Clinical Biomechanics* 12, 8–16.
- Rencken, M.L., Chestnut, C.H., Drinkwater, B.L. (1996). Bone density at multiple skeletal sites in amenorrhoeic athletes. *Journal of the American Medical Association* 276, 238–40.
- Ribeiro, J.P., Fielding, R.A., Hughes, V., Black, A., Bochese, M.A., Knuttgen, H.G. (1985). Heart rate break point may coincide with the anaerobic and not the aerobic threshold. *International Journal of Sports Medicine* 6, 220–24.
- Rich, B.S.E., McKeag, D. (1992). When sciatica is not disk disease. *Physician and Sportsmedicine* 20 (October), 105–115.
- Richard, D. (1995). Exercise and neurobiological control of food intake and energy expenditure. *International Journal of Obesity Relationships and Metabolism Disorders* 19 (Suppl 4), S73–79.
- Richards, R., Richards, D. (1984). Exertion-induced heat exhaustion and other medical aspects of the City-to-Surf fun runs, 1978–1984. *Medical Journal of Australia* 141, 799–805.
- Richards, R., Richards, D., Whittaker, R. (1984). Method of predicting the number of casualties in the Sydney City-to-Surf fun runs. *Medical Journal of Australia* 141, 805–8.
- Richardson, B. (1976). How to ruin an athlete. *Runner's World* 11 (February), 76–77.
- Richardson, R.S., Noyszewski, E.A., Kendrick, K.F., Leigh, J.S., Wagner, P.D. (1995). Myoglobin O<sub>2</sub> desaturation during exercise: Evidence of limited O<sub>2</sub> transport. *Journal of Clinical Investigation* 96, 1916–26.
- Richardson, R.S., Noyszewski, E.A., Leigh, J.S., Wagner, P.D. (1998). Lactate efflux from exercising human skeletal muscle: Role of intracellular PO<sub>2</sub>. *Journal of Applied Physiology* 85, 627–34.
- Richie, D.H., Kelso, S.F., Bellucci, P.A. (1985). Aerobic dance injuries: A retrospective study of instructors and participants. *Physician and Sportsmedicine* 13 (February), 130–40.
- Riddoch, C., Trinick, T. (1988). Gastrointestinal disturbances in marathon runners. *British Journal of Sports Medicine* 22, 71–74.
- Ridker, P.M. (1999). Evaluating novel cardiovascular risk factors: Can we better predict heart attacks? *Annals of Internal Medicine* 130, 933–37.
- Ridker, P.M., Hennekens, C.H., Roitman-Johnson, B., Stampfer, M.J., Allen, J. (1998). Plasma concentration of soluble intercellular adhesion molecule 1 and risks of future myocardial infarction in apparently healthy men. *Lancet* 351, 88–92.
- Riebe, D., Maresh, C.M., Armstrong, L.E., Kenefick, R.W., Castellani, J.W., Echegaray, M.E., Clark, B.A., Camaione, D.N. (1997). Effects of oral and intravenous rehydration on rating of perceived exertion and thirst. *Medicine and Science in Sports and Exercise* 29, 117–24.
- Riemersma, R.A., Wood, D.A., Macintyre, C.C.A., Felton, R.A., Gey, K.F., Oliver, M.F. (1991). Risk of angina rises with low vitamin E, C, and carotene intake. *Lancet* 337, 1–5.
- Riley, R.E. (1999). Popular weight loss diets: Health and exercise implications. *Clinics in Sports Medicine* 18, 691–701.
- Rimm, E.B., Giovannucci, E.L., Willett, W.C., Colditz, G.A., Ascherio, A., Rosner, B., Stampfer, M.J. (1991). Prospective study of alcohol consumption and risk of coronary disease in men. *Lancet* 338, 464–68.
- Rimm, E.B., Stampfer, M.J., Ascherio, A., Giovannucci, E., Colditz, G.A., Willett, W.C. (1993). Vitamin E consumption and the risk of coronary heart disease in men. *New England Journal of Medicine* 328, 1450–56.
- Rimm, E.B., Willett, W.C., Hu, F.B., Sampson, L., Colditz, G.A., Manson, J.E., Hennekens, C., Stampfer, M.J. (1998). Folate and vitamin B6 from diet and supplements in relation to risk of coronary heart disease among women. *Journal of the American Medical Association* 279, 359–64.
- Ripple, J. (1988). The 1988 Hawaiian Ironman Triathlon. *Triathlete* (May), 32–34.
- Rippon, C., Nash, J., Myburgh, K.H., Noakes, T.D. (1988). Abnormal eating attitude test scores predict menstrual dysfunction in lean females. *Internal Journal of Eating Disorders* 7(5), 617–27.
- Rivera, M.A., Dionne, F.T., Simoneau, J.-A., Perusse, L., Chagnon, M., Chagnon, Y., Gagnon, J., Leon, A.S., Rao, D.C., Skinner, J.S., Wilmore, J.H., Bouchard, C. (1997a). Muscle-specific creatine kinase gene polymorphism and VO<sub>2</sub>max in the Heritage Family Study. *Medicine and Science in Sports and Exercise* 29, 1311–17.
- Rivera, M.A., Dionne, F.T., Wolfarth, B., Chagnon, M., Simoneau, J.-A., Pérusse, L., Boulay, M.R., Gagnon, J., Song, T.M.K., Keul, J., Bouchard, C. (1997b). Muscle-specific creatine kinase gene polymorphisms in elite endurance athletes and sedentary controls. *Medicine and Science in Sports and Exercise* 29, 1444–47.
- Rivera, M.A., Pérusse, L., Simoneau, J.-A., Gagnon, J., Dionne, F.T., Leon, A.S., Skinner, J.S., Wilmore, J.H., Province, M., Rao, D.C., Bouchard, C. (1999). Linkage between a muscle-specific CK gene marker and VO<sub>2</sub>max in the HERITAGE Family Study. *Medicine and Science in Sports and Exercise* 31, 698–701.
- Rivera, M.A., Wolfarth, B., Dionne, F.T., Chagnon, M., Simoneau, J.-A., Boulay, M.R., Song, T.M.K., Perusse, L., Gagnon, J., Leon, A.S., Rao, D.C., Skinner, J.S., Wilmore, J.H., Keul, J., Bouchard, C. (1998). Three mitochondrial DNA restriction polymorphisms in elite endurance athletes and sedentary controls. *Medicine and Science in Sports and Exercise* 30, 687–90.
- Rivera-Brown, A.M., Gutiérrez, R., Gutiérrez, J.C., Frontera, W.R., Bar-Or, O. (1999). Drink composition, voluntary drinking, and fluid balance in exercising, trained, heat-acclimatized boys. *Journal of Applied Physiology* 86, 78–84.
- Robbins, S., Waked, E. (1997). Hazard of deceptive advertising of athletic footwear. *British Journal of Sports Medicine* 31, 299–303.

- Robbins, S.E., Gouw, G.J. (1990). Athletic footwear and chronic overloading: A brief review. *Sports Medicine* 9(2), 76–85.
- Robbins, S.E., Gouw, G.J. (1991). Athletic footwear: Unsafe due to perceptual illusions. *Medicine and Science in Sports and Exercise* 23(2), 217–24.
- Robergs, R.A., McMinn, S.B., Mermier, C., Leadbetter, G., Ruby, B., Quinn, C. (1998). Blood glucose and glucoregulatory hormone responses to solid and liquid carbohydrate ingestion during exercise. *International Journal of Sport Nutrition* 8, 70–83.
- Robergs, R.A., Pascoe, D.D., Costill, D.L., Fink, W.J., Chwalbinksa-Moneta, J., Davis, J.A., Hickner, R. (1991). Effects of warm-up on muscle glycogenolysis during intense exercise. *Medicine and Science in Sports and Exercise* 23, 37–43.
- Roberts, A.D., Billeter, R., Howald, H. (1982). Anaerobic muscle enzyme changes after interval training. *International Journal of Sports Medicine* 3, 18–21.
- Roberts, K.M., Noble, E.G., Hayden, D.B., Taylor, A.W. (1988). Simple and complex carbohydrate-rich diets and muscle glycogen content of marathon runners. *European Journal of Applied Physiology* 57, 70–74.
- Roberts, T.J., Marsh, R.L., Weyand, P.G., Taylor, C.R. (1997). Muscular force in running turkeys: The economy of minimizing work. *Science* 275, 1113–15.
- Roberts, W.O. (1996). A 12-year summary of Twin Cities Marathon injury. *Medicine and Science in Sports and Exercise* 28 (Suppl), S123.
- Roberts, W.O. (2000). A 12-yr profile of medical injury and illness for the Twin Cities Marathon. *Medicine and Science in Sports and Exercise* 32, 1549–55.
- Robertson, G., Meshkinpour, H., Vandenberg, K., James, N., Cohen, A., Wilson, A. (1993). Effects of exercise on total and segmental colon transit. *Journal of Clinical Gastroenterology* 16, 300–303.
- Robertson, J.D., Maughan, R.J., Davidson, R.J. (1987). Faecal blood loss in response to exercise. *British Medical Journal* 295, 303–5.
- Robertson, R.J., Falkel, J.E., Drash, A.L., Swank, A.M., Metz, K.F., Spungen, S.A., LeBoeuf, J.R. (1987). Effect of induced alkalosis on physical work capacity during arm and leg exercise. *Ergonomics* 30, 19–31.
- Robertson, R.J., Gilcher, R., Metz, K.F., Caspersen, C.J., Allison, T.G., Abott, R.A., Skrinar, G.S., Krause, J.R., Nixon, P.A. (1984). Hemoglobin concentration and aerobic work capacity in women following induced erythrocythemia. *Journal of Applied Physiology* 57, 568–75.
- Robinson, D.M., Robinson, S.M., Hume, P.A., Hopkins, W.G. (1991). Training intensity of elite male distance runners. *Medicine and Science in Sports and Exercise* 23, 1078–82.
- Robinson, K., Conroy, R.M., Mulcahy, R. (1989). When does the risk of acute coronary heart disease in ex-smokers fall to that in non-smokers? A retrospective study of patients admitted to hospital with a first episode of myocardial infarction or unstable angina. *British Heart Journal* 62, 16–19.
- Robinson, S. (1942). The effect of body size upon energy exchange in work. *American Journal of Physiology* 136, 363–68.
- Robinson, S., Edwards, H.T., Dill, D.B. (1937). New records in human power. *Science* 85, 409–10.
- Robinson, S., Harmon, P.M. (1941). The effects of training and of gelatin upon certain factors which limit muscular work. *American Journal of Physiology* 133, 161–69.
- Robinson, T.A., Hawley, J.A., Palmer, G.S., Wilson, G.R., Gray, D.A., Noakes, T.D., Dennis, S.C. (1995). Water ingestion does not improve 1-h cycling performance in moderate ambient temperatures. *European Journal of Applied Physiology* 71, 153–60.
- Robinson, T.N. (1998). Does television cause childhood obesity? *Journal of the American Medical Association* 279, 959–60.
- Robinson, T.N. (1999). Reducing children's television viewing to prevent obesity: A randomized controlled trial. *Journal of the American Medical Association* 282, 1561–67.
- Rockett, J.F., Magill, H.L., Moinuddin, M., Buchignani, J.S. (1991). Scintigraphic manifestation of iliotibial band injury in an endurance athlete. *Clinical Nuclear Medicine* 16, 836–38.
- Rockhill, B., Willett, W.C., Hunter, D.J., Manson, J.E., Hankinson, S.E., Colditz, G.A. (1999). A prospective study of recreational physical activity and breast cancer risk. *Archives of Internal Medicine* 159, 2290–96.
- Rodgers, A.L., Cox, T.A., Noakes, T.D., Lombard, C.J. (1992). Crystalluria in marathon runners: IV. Black subjects. *Urological Research* 20, 27–33.
- Rodgers, A.L., Greyling, K.G., Irving, R.A., Noakes, T.D. (1988). Crystalluria in marathon runners: II. Ultra-marathon—males and females. *Urological Research* 16, 89–93.
- Rodgers, A.L., Greyling, K.G., Noakes, T.D. (1991). Crystalluria in marathon runners III. Stone forming subject. *Urological Research* 19, 189–192.
- Rodgers, B. (1998). *Lifetime Running*. Harper Perennial, New York.
- Rodgers, B., Concannon, J. (1982). *Marathoning*. Simon and Schuster, New York.
- Rodgers, M.A., Evans, W.J. (1993). Changes in skeletal muscle with aging: Effects of exercise training. *Exercise and Sports Science Reviews* 21, 65–102.
- Roecker, K., Schotte, O., Niess, A.M., Horstmann, T., Dickhuth, H.-H. (1998). Predicting competition performance in long-distance running by means of a treadmill test. *Medicine and Science in Sports and Exercise* 30, 1552–57.
- Roest, M., van der Schouw, Y.T., de Valk, B., Marx, J.J., Tempelman, M.J., de Groot, P.G., Sixma, J.J., Banga, J.D. (1999). Heterozygosity for a hereditary hemochromatosis gene is associated with cardiovascular death in women. *Circulation* 100, 1268–73.
- Roger, V.L., Jacobsen, S.J., Pellikka, P.A., Miller, T.D., Bailey, K.R., Gersh, B.J. (1998). Prognostic value of treadmill exercise testing: A population-based study in Olmsted County, Minnesota. *Circulation* 98, 2836–41.
- Rogers, G., Goodman, C., Rosen, C. (1997). Water budget during ultra-endurance exercise. *Medicine and Science in Sports and Exercise* 29, 1477–81.
- Rogers, M.A., Hagberg, J.M., Martin, W.H., Ehsani, A.A., Holloszy, J.O. (1990). Decline in  $\text{VO}_2\text{max}$  with aging in master athletes and sedentary men. *Journal of Applied Physiology* 68, 2195–99.
- Rogers, M.A., Yamamoto, C., Hagberg, J.M., Martin, W.H., Ehsani, A.A., Holloszy, J.O. (1988). Effect of 6 days of exercise training on responses to maximal and submaximal exercise in middle-aged men. *Medicine and Science in Sports and Exercise* 20, 260–64.

- Rogol, A.D., Weltman, A., Weltman, J.Y., Seip, R.L., Snead, D.B., Levine, S., Haskvitz, E.M., Thompson, D.L., Schurrer, R., Dowling, E., Walberg-Rankin, J., Evans, W.S., Veldhuis, J.D. (1992). Durability of the reproductive axis in eumenorrheic women during 1 yr of endurance training. *Journal of Applied Physiology* 72, 1571–80.
- Rohner-Jeanrenaud, F., Jeanrenaud, B. (1996). Obesity, Leptin, and the brain. *New England Journal of Medicine* 334, 324–25.
- Roi, G.S., Giacometti, M., Von Duvillard, S.P. (1999). Marathons in altitude. *Medicine and Science in Sports and Exercise* 31, 723–28.
- Rolston, D.D.K., Zinzuvadia, S.N., Mathan, V.I. (1990). Evaluation of the efficacy of oral rehydration solutions using human whole gut perfusion. *Gut* 31, 1115–19.
- Romano, A., Di Fonso, M., Giuffreda, F., Quarantino, D., Papa, G., Palmieri, V., Zeppilli, P., Venuti, A. (1995). Diagnostic work-up for food-dependent, exercise-induced anaphylaxis. *Allergy* 50, 817–24.
- Romijn, J.A., Coyle, E.F., Sidossis, L.S., Gastaldelli, A., Horowitz, J.F., Endert, E., Wolfe, R.R. (1993). Regulation of endogenous fat and carbohydrate metabolism in relation to exercise intensity and duration. *American Journal of Physiology* 265, E380–91.
- Rontoyannis, G.P., Skoulis, T., Pavlou, K.N. (1989). Energy balance in ultramarathon running. *American Journal of Clinical Nutrition* 49, 976–79.
- Rooke, E.D. (1968). Benign exertional headache. *Medical Clinics of North America* 52, 801–8.
- Roos, R. (1987). Medical coverage of endurance events. *The Physician and Sportsmedicine* 15 (November), 140–46.
- Rorabeck, C.H. (1986). Exertional tibialis posterior compartment syndrome. *Clinical Orthopaedics* 208, 61–64.
- Rorabeck, C.H., Bourne, R.B., Fowler, P.J. (1983). The surgical treatment of exertional compartment syndromes in athletes. *Journal of Bone and Joint Surgery* 65A, 1245–51.
- Rorabeck, C.H., Fowler, P.J., Nott, L. (1988). The results of fasciotomy in the management of chronic exertional compartment syndrome. *American Journal of Sports Medicine* 16, 224–27.
- Rose, G.A., Williams, T.R. (1961). Metabolic studies on large and small eaters. *British Journal of Nutrition* 15, 1–9.
- Rosen, L.W., McKeag, D.B., Hough, D.O., Curley, V. (1986). Pathogenic weight control behaviour in female athletes. *Physician and Sportsmedicine* 14 (January), 79–86.
- Rosen, M.J., Sorkin, J.D., Goldberg, A.P., Hagberg, J.M., Katzell, L.I. (1998). Predictors of age-associated decline in maximal aerobic capacity: A comparison of four statistical models. *Journal of Applied Physiology* 84, 2163–70.
- Rosenbaum, M., Leibel, R.L. (1999). The role of leptin in human physiology. *New England Journal of Medicine* 341, 913–15.
- Rosengren, A., Wilhelmsen, L. (1997). Physical activity protects against coronary death and deaths from all causes in middle-aged men: Evidence from a 20-year follow-up of the Primary Prevention Study in Göteborg. *Annals of Epidemiology* 7, 69–75.
- Ross, C.E., Hayes, D. (1988). Exercise and psychologic well-being in the community. *American Journal of Epidemiology* 127, 762–71.
- Ross, R., Rissanen, J. (1994). Mobilization of visceral and subcutaneous adipose tissue in response to energy restriction and exercise. *American Journal of Clinical Nutrition* 60, 695–703.
- Rossander, L., Hallberg, L., Bjorn-Rasmussen, E. (1979). Absorption of iron from breakfast meals. *American Journal of Clinical Nutrition* 32, 2484–89.
- Rost, F. (1986). Stitch, the side pain of athletes. *New Zealand Journal of Medicine* 99, 469.
- Roth, D.L., Holmes, D.S. (1987). Influence of aerobic exercise training and relaxation training on physical and psychologic health following stressful life events. *Psychosomatic Medicine* 49, 355–65.
- Rothwell, N.J., Stock, M.J. (1981). Regulation of energy balance. *Annual Review of Nutrition* 1, 235–56.
- Round, J.M., Jones, D.A., Cambridge, G. (1987). Cellular infiltrates in human skeletal muscle: Exercise induced damage as a model for inflammatory muscle disease? *Journal of Neurological Science* 82, 1–11.
- Rovere, G.D. (1987). Low back pain in athletes. *Physician and Sportsmedicine* 15(1), 105–17.
- Rowbottom, D.G., Keast, D., Morton, A.R. (1998). Monitoring and preventing of overreaching and overtraining in endurance athletes. In R.B. Kreider, A.C. Fry, M.L. O'Toole (Eds.), *Overtraining in Sport*. Human Kinetics, Champaign, IL, 47–66.
- Rowe, W.J. (1991). A world record marathon runner with silent ischemia without coronary atherosclerosis. *Chest* 99, 1306–8.
- Rowland, T.W. (1993). Does peak  $\text{VO}_2$  reflect  $\text{VO}_{2\text{max}}$  in children? Evidence from supramaximal testing. *Medicine and Science in Sports and Exercise* 25, 689–93.
- Rowland, T.W., Cunningham, L.N. (1992). Oxygen uptake plateau during maximal treadmill exercise in children. *Chest* 101, 485–89.
- Rudman, D., Williams, P.J. (1983). Megadose vitamins: Use and misuse. *The New England Journal of Medicine* 309, 488–89.
- Ruiz, J.C., Mandel, C., Garabedian, M. (1995). Influence of spontaneous calcium intake and physical exercise on the vertebral and femoral bone mineral density of children and adolescents. *Journal of Bone and Mineral Research* 10, 675–82.
- Rushall, B.S. (1979). *Psyching in Sport: The Psychological Preparation for Serious Competition in Sport*. Pelham Books, London.
- Rushall, B.S. (2001). Thought processes for exceptional athletic performance. The 2001 Scholar Address at the Southwest District of the American Alliance for Health, Physical Education, Recreation and Dance Annual Convention, Park City, UT.
- Rusko, H., Tikkanen, H., Videman, T. (1998). Experiences on hemoglobin control with cross-country skiers: IV. Scandinavian Congress on Medicine and Science in Sports, 1998, Lahti, Finland. *Scandinavian Journal of Medicine and Science in Sports* 8(5, Part II), 4.
- Russell, G.F.M., Dare, C., Eisler, I., Le Grange, D. (1992). Controlled trials of family treatments in anorexia nervosa. In K.A. Halmi (Ed.), *Psychobiology and Treatment of Anorexia Nervosa and Bulimia Nervosa*. American Psychiatric Press, Washington, DC, 237–62.
- Russell, G.F.M., Szmukler, G.I., Dare, C., Eisler, I. (1987). An evaluation of family therapy in anorexia and bulimia nervosa. *Archives of General Psychiatry* 44, 1047–56.
- Russell, J.B., Mitchell, D., Musey, P.I., Collins, D.C. (1984). The relationship of exercise to anovulatory cycles in female athletes: Hormonal and physical characteristics. *Obstetrics and Gynecology* 63, 452–56.

- Rutherford, O.M. (1993). Spine and total body bone mineral density in amenorrheic endurance athletes. *Journal of Applied Physiology* 74, 2904–8.
- Ryan, A.J. (1978). Injections for tendon injuries: Cure or cause. *Physician and Sportsmedicine* 6 (September), 39.
- Ryan, A.J. (1983). Overtraining of athletes: Round table discussion. *Physician and Sportsmedicine* 11 (June), 93–110.
- Ryan, A.J., Bleiler, T.L., Carter, J.E., Gisolfi, C.V. (1989). Gastric emptying during prolonged cycling exercise in the heat. *Medicine and Science in Sports and Exercise* 21, 51–58.
- Ryan, A.J., Lambert, G.P., Shi, X., Chang, R.T., Summers, R.W., Gisolfi, C.V. (1998). Effect of hypohydration on gastric emptying and intestinal absorption during exercise. *Journal of Applied Physiology* 84, 1581–88.
- Ryan, A.J., Navarre, A.E., Gisolfi, C.V. (1991). Consumption of carbonated and noncarbonated sports drinks during prolonged treadmill exercise in the heat. *International Journal of Sport Nutrition* 1, 225–39.
- Ryder, H.W., Carr, H.J., Herget, P. (1976). Future performance in footracing. *Scientific American* 234 (June), 108–19.
- Ryun, J., Phillips, M. (1995). *In Quest of Gold: The Jim Ryun Story*. Ryun and Sons, Lawrence, KS.
- Rywik, T.M., Blackman, M.R., Yataco, A.R., Vaitkevicius, P.V., Zink, R.C., Cottrell, E.H., Wright, J.G., Katzel, L.I., Fleg, J.L. (1999). Enhanced endothelial vasoreactivity in endurance-trained older men. *Journal of Applied Physiology* 87, 2136–42.
- Sabo, D., Reiter, A., Pfeil, J., Güssbacher, A., Niethard, F.U. (1996). [Modification of bone quality by extreme physical stress: Bone density measurements in high-performance athletes using dual-energy x-ray absorptiometry.] *Zeitschrift für Orthopädie und ihre Grenzgebiete* 134, 1–6.
- Sacco, R.L., Elkind, M., Boden-Albala, B., Lin, I-F., Kargman, D.E., Hauser, W.A., Shea, S., Paik, M.C. (1999). The protective effect of moderate alcohol consumption on ischemic stroke. *Journal of the American Medical Association* 281, 53–60.
- Sacco, R.L., Gan, R., Boden-Albala, B., Lin, I.F., Kargman, D.E., Hauser, W.A., Shea, S., Paik, M.C., (1998). Leisure-time physical activity and ischemic stroke risk: The Northern Manhattan Stroke Study. *Stroke* 29, 380–87.
- Sachs, M.L. (1984a). The mind of the runner: Cognitive strategies used during running. In M.L. Sachs, G.W. Buffone (Eds.), *Running As Therapy: An Integrated Approach*. Nebraska University Press, Lincoln, 288–303.
- Sachs, M.L. (1984b). A psychoanalytic perspective on running. In M.L. Sachs, G.W. Buffone (Eds.), *Running As Therapy: An Integrated Approach*. University of Nebraska Press, Lincoln, 109.
- Sachs, M.L. (1984c). The runner's high. In M.L. Sachs, G.W. Buffone (Eds.), *Running As Therapy: An Integrated Approach*. University of Nebraska Press, Lincoln, 273–87.
- Sachs, M.L., Buffone, G.W. (1984). *Running As Therapy: An Integrated Approach*. University of Nebraska Press, Lincoln.
- Sachs, M.L., Pargman, D. (1984). Running addiction. In M.L. Sachs, G.W. Buffone (Eds.), *Running As Therapy: An Integrated Approach*. University of Nebraska Press, Lincoln, 231–52.
- Sacks, F.M., Pfeffer, M.A., Moye, L.A., Rouleau, J.L., Rutherford, J.D., Cole, T.G., Brown, L., Warnica, J.W., Arnold, J.M.O., Wun, C.-C., Davis, B.R., Braunwald, E. (1996). The effect of pravastatin on coronary events after myocardial infarction in patients with average cholesterol levels. *New England Journal of Medicine* 335, 1001–9.
- Sacks, F.M., Svetkey, L.P., Vollmer, W.M., Appel, L.J., Bray, G.A., Harsha, D., Obarzanek, E., Conlin, P.R., Miller, E.R., Simons-Morton, D.G., Karanja, N., Lin, P.-H., Aickin, M., Most-Windhauser, M.M., Moore, T.J., Proschan, M.A., Cutler, J.A. (2001). Effects on blood pressure of reduced dietary sodium and the dietary approaches to stop hypertension (DASH) diet. *New England Journal of Medicine* 344, 3–10.
- Sacks, M.H. (1979). A psychodynamic overview of sport. *Psychiatric Annals* 9, 127–33.
- Sacks, M.H. (1981). Running addiction: A clinical report. In M.H. Sacks, M.L. Sachs (Eds.), *The Psychology of Running*. Human Kinetics, Champaign, IL.
- Sadaniantz, A., Clayton, M.A., Sturmer, W.Q., Thompson, P.D. (1989). Sudden death immediately after a record-setting athletic performance. *American Journal of Cardiology* 63, 375.
- Sady, S.P., Carpenter, M.W. (1989). Aerobic exercise during pregnancy: Special considerations. *Sports Medicine* 7, 357–75.
- Sady, S.P., Carpenter, M.W., Thompson, P.D., Sady, M.A., Haydon, B., Coustan, D.R. (1989). Cardiovascular response to cycle exercise during and after pregnancy. *Journal of Applied Physiology* 66, 336–41.
- Safran, M.R., Seaber, A.V., Garrett, W.E. (1989). Warm-up and muscular injury prevention: An update. *Sports Medicine* 8(4), 239–47.
- Sahlin, K., Henriksson, J. (1984). Buffer capacity and lactate accumulation in skeletal muscle of trained and untrained men. *Acta Physiologica Scandinavica* 122, 331–39.
- Sahlin, K., Seger, J.Y. (1995). Effects of prolonged exercise on the contractile properties of human quadriceps muscle. *European Journal of Applied Physiology* 71, 180–86.
- Saikku, P., Leinonen, M., Mattila, K., Ekman, M.R., Nieminen, M.S., Makela, P.H., Huttunen, J.K., Valtonen, V. (1988). Serological evidence of a novel chlamydia TWAR, with chronic coronary heart disease and acute myocardial infarction. *Lancet* 2(8618), 983–86.
- Sailer, S., Seiler, S. (1997). Track and battlefield. *National Review* (December 12).
- Sakhaee, K., Nigam, S., Snell, P., Hsu, M.C., Pak, C.Y. (1987). Assessment of the pathogenetic role of physical exercise in renal stone formation. *Journal of Clinical Endocrinology and Metabolism* 65, 974–79.
- Salazar, A. (1981). Quoted by Olsen E. Alberto. Salazar: Body and soul. *The Runner* 3 (February), 24–31.
- Salazar, A. (1986). Quoted in *The Nike Times* (January 24).
- Salazar, A. (1998). Salazar retires. *Runner's World* (February), 8.
- Salbe, A.D., Nicolson, M., Ravussin, E. (1997). Total energy expenditure and the level of physical activity correlate with plasma leptin concentrations in five-year-old children. *Journal of Clinical Investigations* 99, 592–95.
- Sallis, J.F., Hovell, M.F., Hofstetter, C.R. (1992). Predictors of adoption and maintenance of vigorous physical activity in men and women. *Preventive Medicine* 21, 237–51.

- Sallis, J.F., Prochaska, J.J., Taylor, W.C., Hill, J.O., Geraci, J.C. (1999). Correlates of physical activity in a national sample of girls and boys in grades 4 through 12. *Health Psychology* 18, 410–15.
- Salmerón, J., Ascherio, A., Rimm, E.B., Colditz, G.A., Spiegelman, D., Jenkins, D.J., Stampfer, M.J., Wing, A.L., Willett, W.C. (1997). Dietary fiber, glycemic load, and risk of NIDDM in men. *Diabetes Care* 20, 545–50.
- Salmerón, J., Manson, J.E., Stampfer, M.J., Colditz, G.A., Wing, A.L., Willett, W.C. (1997). Dietary fiber, glycemic load, and risk of non-insulin-dependent diabetes mellitus in women. *Journal of the American Medical Association* 277, 472–77.
- Salminen, A., Hongisto, K., Vihko, V. (1985). Lysosomal changes related to exercise injuries and training-induced protection in mouse skeletal muscle. *Acta Physiologica Scandinavica* 120, 15–19.
- Salonen, J.T., Nyyssöne, K., Korpela, H., Tuomilehto, J., Seppanen, R. (1992). High stored iron levels are associated with excess risk of myocardial infarction in Eastern Finnish men. *Circulation* 86, 803–11.
- Salonen, J.T., Slater, J.S., Tuomilehto, J., Rauramaa, R. (1988). Leisure time and occupational physical activity: Risk of death from ischemic heart disease. *American Journal of Epidemiology* 127, 87–94.
- Saltin, B. (1973). Metabolic fundamentals in exercise. *Medicine and Science in Sports* 5, 137–46.
- Saltin, B. (1981). Muscle fibre recruitment and metabolism in prolonged exhaustive dynamic exercise. *Ciba Foundation* 82, 41–58.
- Saltin, B. (1996). Exercise and the environment: Focus on altitude. *Research Quarterly for Exercise and Sport* 67 (Suppl 3), 1–10.
- Saltin, B., Åstrand, P.-O. (1967). Maximal oxygen uptake in athletes. *Journal of Applied Physiology* 23, 353–58.
- Saltin, B., Gollnick, P.D. (1983). Skeletal muscle adaptability: Significance for metabolism and performance. In L.D. Peachey, R.H. Adrian, S.R. Geiger (Eds.), *Handbook of Physiology*. American Physiological Society, Bethesda, MD.
- Saltin, B., Henriksson, J., Hygaard, E., Andersen, P. (1977). Fibre types and metabolic potentials of skeletal muscles in sedentary man and endurance runners. *Annals of the New York Academy of Sciences* 301, 3–29.
- Saltin, B., Karlsson, J. (1971). Muscle glycogen utilization during work of different intensities. In B. Pernow, B. Saltin (Eds.), *Advances in Experimental Medicine and Biology*. Plenum Press, New York, 289–99.
- Saltin, B., Kim, C.K., Terrados, N., Larsen, H., Svedenhag, J., Rolf, C.J. (1995). Morphology, enzyme activities and buffer capacity in leg muscles of Kenyan and Scandinavian runners. *Scandinavian Journal of Medicine and Science in Sports* 5, 222–30.
- Saltin, B., Larsen, H., Terrados, N., Bangsbo, J., Bak, T., Kim, C.K., Svedenhag, J., Rolf, C.J. (1995). Aerobic exercise capacity at sea level and at altitude in Kenyan boys, junior and senior runners compared with Scandinavian runners. *Scandinavian Journal of Medicine and Science in Sports* 5, 209–21.
- Salvato, E.K., Nichols, J.F., Sucec, A.A. (1990). Serum sodium and fluid balance during a fifty-mile ultraendurance race. *International Journal of Sports Medicine* 11, 320.
- Samet, J.M., Chick, T.W., Howard, C.A. (1982). Running-related morbidity: A community survey. *Annals of Sports Medicine* 1, 30–34.
- Samet, J.M., Dominici, F., Curriero, F.C., Coursac, I., Zeger, S.L. (2000). Fine particulate air pollution and mortality in 20 U.S. cities, 1987–1994. *New England Journal of Medicine* 343, 1742–49.
- Samorajski, T., Delaney, C., Durham, L., Ordy, J.M., Johnson, J.A., Dunlop, W.P. (1985). Effect of exercise on longevity, body weight, locomotor performance, and passive avoidance memory of C57BL/6J mice. *Neurobiology of Aging* 6, 17–24.
- Sanborn, C.F., Albrecht, B.H., Wagner, W.W. (1987). Athletic amenorrhea: Lack of association with body fat. *Medicine and Science in Sports and Exercise* 19, 207–12.
- Sanborn, C.F., Martin, B.J., Wagner, W.W. (1982). Is athletic amenorrhoea specific to runners? *American Journal of Obstetrics and Gynecology* 143, 859–61.
- Sandell, R.C., Pascoe, M.D., Noakes, T.D. (1988). Factors associated with collapse following ultramarathon foot races: A preliminary study. *Physician and Sportsmedicine* 16 (September), 86–94.
- Sanders, B., Noakes, T.D., Dennis, S.C. (1999). Water and electrolyte shifts with partial fluid replacement during exercise. *European Journal of Applied Physiology* 80, 318–23.
- Sanders, B., Noakes, T.D., Dennis, S.C. (2001). Sodium replacement and fluid shifts during prolonged exercise in humans. *European Journal of Applied Physiology* 84, 419–25.
- Sandoval, A. (1981). Quoted by E. Olsen. Speed, strength, guts. *The Runner* 3 (February), 46–53.
- Sandrock, M. (1996). *Running With the Legends*. Human Kinetics, Champaign, IL.
- Sandvik, L., Erikssen, G., Thaulow, E. (1995). Long term effects of smoking on physical fitness and lung function: A longitudinal study of 1393 middle aged Norwegian men for seven years. *British Medical Journal* 311, 715–18.
- Sandvik, L., Erikssen, J., Thaulow, E., Erikssen, G., Mundal, R., Rodahl, K. (1993). Physical fitness as a predictor of mortality among healthy, middle-aged Norwegian men. *New England Journal of Medicine* 328, 533–37.
- Saris, W.H.M., Goodpaster, B.H., Jeukendrup, A.E., Brouns, F., Halliday, D., Wagemakers, A.J.M. (1993). Exogenous carbohydrate oxidation from different carbohydrate sources during exercise. *Journal of Applied Physiology* 75, 2168–72.
- Saris, W.H.M., Schrijver, J., van Erp-Baart, M.-A., Brouns, F. (1989). Adequacy of vitamin supply under maximal sustained workloads: The Tour de France. *International Journal of Vitamin and Nutrition Research* 30, 205–12.
- Saris, W.H.M., Senden, J.M.G., Brouns, F. (1998). What is a normal red-blood cell mass for professional cyclists? *Lancet* 352, 1758.
- Saris, W.H.M., van Erp-Baart, M.A., Brouns, F., Westerterp, K.R., ten Hoor, F. (1989). Study on food intake and energy expenditure during extreme sustained exercise: The Tour de France. *International Journal of Sports Medicine* 10, S26–31.
- Sarna, S., Kaprio, J., Kujala, U.M., Koskenvuo, M. (1997). Health status of former elite athletes: The Finnish experience. *Aging Clinical and Experimental Research* 9, 35–41.

- Sarna, S., Sahi, T., Koskenvuo, M., Kaprio, J. (1993). Increased life expectancy of world class male athletes. *Medicine and Science in Sports and Exercise* 25, 237–44.
- Sasco, A.J., Paffenbarger, R.S., Gendre, I., Wing, A.L. (1992). The role of physical exercise in the occurrence of Parkinson's disease. *Archives of Neurology* 49, 360–65.
- SA Sports Illustrated. (1991). Land of Prodigies. (October), 44–45.
- SA Sports Illustrated. (1992). Kenya's shining sons. (November), 39–40.
- Satabin, P., Portero, P., Defer, G., Bricout, J., Guezennec, C.-Y. (1987). Metabolic and hormonal responses to lipid and carbohydrate diets during exercise in man. *Medicine and Science in Sports and Exercise* 19, 218–23.
- Sato, H., Ohashi, J. (1989). Sex differences in static muscular endurance. *Journal of Human Ergology* 18, 53–60.
- Savaglio, S., Carbone, V. (2000). Scaling in athletic world records. *Nature* 404, 244.
- Savard, G.K., Stonehouse, M.A. (1995). Cardiovascular response to orthostatic stress: Effects of exercise training modality. *Canadian Journal of Applied Physiology* 20, 240–54.
- Sawamura, T., Kume, N., Aoyama, T., Moriwaki, H., Hoshikawa, H., Aiba, Y., Tanaka, T., Miwa, S., Katsura, Y., Kita, T., Maskai, T. (1997). An endothelial receptor for oxidized low-density lipoprotein. *Nature* 386, 73–77.
- Sawka, M.N., Dennis, R.C., Gonzalez, R.R., Young, A.J., Muza, S.R., Martin, J.W., Wenger, C.B., Francesconi, R.P., Pandolf, K.B., Valeri, C.R. (1987). Influence of polycythemia on blood volume and thermoregulation during exercise-heat stress. *Journal of Applied Physiology* 62, 912–18.
- Sawka, M.N., Montain, S.J., Latzka, W.A. (1996). Body fluid balance during exercise-heat exposure. In E.R. Buskirk, S.M. Phul (Eds.), *Body Fluid Balance in Exercise and Sports*. CRC Press, New York.
- Sawka, M.N., Young, A.J., Latzka, W.A., Neuffer, D.P., Quigley, M.D., Pandolf, K.B. (1992). Human tolerance to heat strain during exercise: Influence of hydration. *Journal of Applied Physiology* 73, 368–75.
- Schabert, E.J., Bosch, A.N., Weltan, S.M., Noakes, T.D. (1999). The effect of a preexercise meal on time to fatigue during prolonged cycling exercise. *Medicine and Science in Sports and Exercise* 31, 464–71.
- Schabert, E.J., Hawley, J.A., Hopkins, W.G., Mujika, I., Noakes, T.D. (1998). A new reliable laboratory test of endurance performance for road cyclists. *Medicine and Science in Sports and Exercise* 30, 1744–50.
- Schabert, E.J., Hopkins, W.G., Hawley, J.A. (1998). Reproducibility of self-paced treadmill performance of trained endurance runners. *International Journal of Sports Medicine* 19, 48–51.
- Schabert, E.J., Wilson, G., Noakes, T.D. (2000). Dose-related elevations in venous pH with citrate ingestion do not alter 40-km cycling time-trial performance. *European Journal of Applied Physiology* 83, 320–27.
- Schäirer, J.R., Stein, P.D., Keteyian, S., Fedel, F., Ehrman, J., Alam, M., Henry, J.W., Shaw, T. (1992). Left ventricular response to submaximal exercise in endurance-trained athletes and sedentary adults. *American Journal of Cardiology* 70, 930–33.
- Scharf, S.M., Bark, H., Heimer, D., Cohen, A., Macklem, P.T. (1984). "Second wind" during inspiratory loading. *Medicine and Science in Sports and Exercise* 16, 87–91.
- Scharf, S.M., Bye, P., Parady, R., Macklem, P.T. (1984). Dyspnea, fatigue and second wind. *American Review of Respiratory Diseases* 129 (Suppl), S88–89.
- Schatzkin, A., Hoover, R.N., Taylor, P.P., Ziegler, R.G., Carter, C.L., Larson, D.B., Licitra, L.M. (1987). Serum cholesterol and cancer in the Nhanes 1 epidemiologic followup study. *Lancet* 2, 298–301.
- Schatzkin, A., Jones, D.Y., Hoover, R.N., Taylor, P.R., Brinton, L.A., Ziegler, R.G., Harvey, E.B., Carter, C.L., Licitra, L.M., Dufour, M.C., Larson, D.B. (1987). Alcohol consumption and breast cancer in the epidemiologic follow-up study of the First National Health and Nutrition Examination Survey. *New England Journal of Medicine* 316, 1169–73.
- Schedl, H.P., Clifton, J.A. (1963). Solute and water absorption by the human small intestine. *Nature* 199, 1264–67.
- Schedl, H.P., Maughan, R.J., Gisolfi, C.V. (1994). Intestinal absorption during rest and exercise: Implications for formulating an oral rehydration solution (ORS). *Medicine and Science in Sports and Exercise* 26, 267–80.
- Scheffer, A.L., Austen, K.F. (1980). Exercise-induced anaphylaxis. *Journal of Allergy and Clinical Immunology* 66, 106–11.
- Schelegle, E.S., Adams, W.C. (1986). Reduced exercise time in competitive simulations consequent to low level ozone exposure. *Medicine and Science in Sports and Exercise* 18, 408–14.
- Schep, G., Bender, M. (2000). Exercise-related lower leg pain: Vascular. *Medicine and Science in Sports and Exercise* 32, 1970–71.
- Schep, G., Bender, M.H.M., Kaandorp, D., Hammacher, E., de Vries, W.R. (1999). Flow limitations in the iliac arteries in endurance athletes: Current knowledge and directions for the future. *International Journal of Sports Medicine* 20, 421–28.
- Schepisis, A.A., Martini, C., Corbett, M. (1993). Surgical management of exertional compartment syndrome of the lower leg: Long-term followup. *American Journal of Sports Medicine* 21, 811–17.
- Scherer, P.R. (1991). Heel spur syndrome: Pathomechanics and nonsurgical treatment: Biomechanics Graduate Research Group for 1988. *Journal of the American Podiatric Medical Association* 81, 68–72.
- Schiff, H.B., MacSearraigh, E.T.M., Kallmeyer, J.C. (1978). Myoglobinuria, rhabdomyolysis and marathon running. *Quarterly Journal of Medicine* 47, 463–72.
- Schmidt, V., Brück, K. (1981). Effect of precooling maneuver on body temperature and exercise performance. *Journal of Applied Physiology* 50, 772–78.
- Schmidt-Trucksäss, A.S., Grathwohl, D., Frey, I., Schmid, A., Boragk, R., Upmeyer, C., Keul, J., Huonker, M. (1999). Relation of leisure-time physical activity to structural and functional arterial properties of the common carotid artery in male subjects. *Atherosclerosis* 145, 107–14.
- Schneider, D., Greenberg, M.R. (1992). Choice of exercise: A predictor of behavioral risks? *Research Quarterly for Exercise and Sport* 63, 231–37.
- Schnohr, P., Lange, P., Nyboe, J., Appleyard, M., Jensen, G. (1995). Gray hair, baldness, and wrinkles in relation to myocardial infarction: The Copenhagen City Heart Study. *American Heart Journal* 130, 1003–10.



- Schoene, R.B., Lahiri, S., Hackett, P.H., Peters, R.M., Milledge, J.S., Pizzp, C.J., Sarnquist, F.H., Boyer, S.K., Graber, D.J., Maret, K.H., West, J.B. (1984). Relationship of hypoxic ventilatory response to exercise performance on Mount Everest. *Journal of Applied Physiology* 56, 1478–83.
- Schomer, H.H. (1984). Mental strategies and the perception of effort: Implications for the psychological preparation of marathon runners. PhD thesis, University of Cape Town, Cape Town, South Africa.
- Schomer, H.H. (1986). Mental strategies and the perception of effort of marathon runners. *International Journal of Sports Psychology* 17, 41–59.
- Schomer, H.H. (1987). Mental strategy training programme for marathon runners. *International Journal of Sports Psychology* 18, 133–51.
- Schramm, W.F., Stockbauer, J.W., Hoffman, H.J. (1996). Exercise, employment, other daily activities, and adverse pregnancy outcomes. *American Journal of Epidemiology* 143, 211–18.
- Schulz, R., Curnow, C. (1988). Peak performance and age among super-athletes: Track and field, swimming, baseball, tennis, and golf. *Journal of Gerontology* 43, P113–20.
- Schuster, R.O. (1977). Foot types and the influence of environment on the foot of the long distance runners. *Annals of the New York Academy of Sciences* 301, 881–87.
- Schwaberger, G. (1987). Heart rate, metabolic and hormonal responses to maximal psychoemotional and physical stress in motor car racing drivers. *International Archives of Occupational and Environmental Health* 59, 579–604.
- Schwane, J.A., Armstrong, R.B. (1983). Effect of training on skeletal muscle injury from downhill running in rats. *Journal of Applied Physiology* 55, 969–75.
- Schwane, J.A., Johnson, S.R., Vandenaeker, C.B., Armstrong, R.B. (1983). Delayed-onset muscular soreness and plasma CPK and LDH activities after downhill running. *Medicine and Science in Sports and Exercise* 15, 51–56.
- Schwane, J.A., Williams, J.S., Sloan, J.H. (1987). Effects of training on delayed muscle soreness and serum creatine kinase activity after running. *Medicine and Science in Sports and Exercise* 19, 584–90.
- Schwartz, B., Cumming, D.C., Riordan, E., Selye, M., Yen, S.S.C., Rebar, R.W. (1981). Exercise-induced amenorrhea: A distinct entity? *American Journal of Obstetrics and Gynecology* 141, 662–70.
- Schwartz, R.S., Shuman, W.P., Larson, V., Cain, K.C., Fellingham, G.W., Beard, J.C., Kahn, S.E., Stratton, J.R., Cerqueira, M.D., Abrass, I.B. (1991). The effect of intensive endurance exercise training on body fat distribution in young and older men. *Metabolism* 40, 545–51.
- Schweiger, U., Herrmann, F., Laessle, R., Riedel, W., Schweiger, M., Pirke, K.-M. (1988). Caloric intake, stress, and menstrual function in athletes. *Fertility and Sterility* 49, 447–50.
- Schwellnus, M.P. (1999). Skeletal muscle cramps during exercise. *Physician and Sportsmedicine* 27 (November), 109–15.
- Schwellnus, M.P., Derman, E.W., Noakes, T.D. (1997). Aetiology of skeletal muscle “cramps” during exercise: A novel hypothesis. *Journal of Sports Sciences* 15, 277–85.
- Schwellnus, M.P., Jordaan, G., Noakes, T.D. (1990). Prevention of common overuse injuries by the use of shock absorbing insoles: A prospective study. *American Journal of Sports Medicine* 18, 636–41.
- Scott, B.K., Houmar, J.A. (1994). Peak running velocity is highly related to distance running performance. *International Journal of Sports Medicine* 15, 504–7.
- Scott, V., Gijsbers, K. (1981). Pain perception in competitive swimmers. *British Medical Journal* 283, 91–93.
- Scragg, R., Stewart, A., Jackson, R., Beaglehole, R. (1987). Alcohol and exercise in myocardial infarction and sudden coronary death in men and women. *American Journal of Epidemiology* 126, 77–85.
- Scrimgeour, A.G., Noakes, T.D., Adams, B., Myburgh, K. (1986). The influence of weekly training distance on fractional utilization of maximum aerobic capacity in marathon and ultramarathon runners. *European Journal of Applied Physiology* 55, 202–9.
- Scully, D., Kremer, J. Meade, M.M., Graham, R., Dudgeon, K. (1998). Physical exercise and psychological well being: a critical review. *British Journal of Sports Medicine* 32, 111–20.
- Scully, T.J., Besterman, G. (1982). Stress fracture: A preventable training injury. *Military Medicine* 147, 285–87.
- Seals, D.R., Rogers, M.A., Hagberg, J.M., Yamamoto, C., Cryer, P.E., Ehsani, A.A. (1988). Left ventricular dysfunction after prolonged strenuous exercise in healthy subjects. *American Journal of Cardiology* 61, 875–79.
- Sears, E. (1998). Personal communication.
- Sedgwick, A.W., Smith, D.S., Davies, M.J. (1988). Musculoskeletal status of men and women who entered a fitness programme. *Medical Journal of Australia* 148, 385–91.
- Segal, K.R., Chun, A., Coronel, P., Valdex, V. (1992). Effects of exercise mode and intensity on postprandial thermogenesis in lean and obese men. *Journal of Applied Physiology* 72, 1754–63.
- Segal, K.R., Gutin, B., Albu, J., Pi-Sunyer, F.X. (1987). Thermic effects of food and exercise in lean and obese men of similar lean body mass. *American Journal of Physiology* 252, E110–17.
- Segal, K.R., Gutin, B., Nyman, A.M., Pi-Sunyer, F.X. (1985). Thermic effect of food at rest, during exercise, and after exercise in lean and obese men of similar body weight. *Journal of Clinical Investigations* 76, 1107–12.
- Segura, R., Ventura, J.L. (1988). Effect of L-tryptophan supplementation on exercise performance. *International Journal of Sports Medicine* 9, 301–5.
- Seifert, J.G., Paul, G.L., Eddy, D.E., Murray, R. (1994). Glycemic and insulinemic response to preexercise carbohydrate feedings. *International Journal of Sport Nutrition* 4, 46–53.
- Selby, G.R., Eichner, E.R. (1986). Endurance swimming, intravascular hemolysis, anemia and iron depletion: New perspective on athlete’s anemia. *American Journal of Medicine* 81, 791–94.
- Selye, H. (1950). *The Physiology and Pathology of Exposure to Systemic Stress*. Acta, Montreal.
- Selye, H. (1956). *The Stress of Life*. Longmans, Green, London.
- Sesso, H.D., Paffenbarger, R.S., Lee, I.-M. (1998). Physical activity and breast cancer risk in the college Alumni Health Study (United States). *Cancer Causes and Control* 9, 433–39.

- Sesso, H.D., Paffenbarger, R.S., Lee, I.-M. (2000). Physical activity and coronary heart disease in men: The Harvard Alumni Health Study. *Circulation* 102, 975–80.
- Severson, R.K., Nomura, A.M., Grove, J.S., Stemmermann, G.N. (1989). A prospective analysis of physical activity and cancer. *American Journal of Epidemiology* 130, 522–29.
- Shangold, M., Freeman, R., Thysen, B., Gatz, M. (1979). The relationship between long-distance running, plasma progesterone and luteal phase length. *Fertility and Sterility* 31, 130–33.
- Shangold, M.M. (1980). Sports and menstrual function. *Physician and Sportsmedicine* 8 (August), 66–71.
- Shangold, M.M. (1988). Exercise-induced changes in uterine artery blood flow, as measured by Doppler ultrasound, in pregnant subjects. *American Journal of Perinatology* 5, 187–88.
- Shangold, M.M., Levine, H.S. (1982). The effect of marathon training upon menstrual function. *American Journal of Obstetrics and Gynecology* 143, 862–69.
- Shannon, J.R., Flattem, N.L., Jordan, J., Jacob, G., Black, B.K., Biaggioni, I., Blakely, R.D., Robertson, D. (2000). Orthostatic intolerance and tachycardia associated with norepinephrine-transporter deficiency. *New England Journal of Medicine* 342, 541–49.
- Shaper, A.G., Wannamethee, G. (1991). Physical activity and ischaemic heart disease in middle-aged British men. *British Heart Journal* 66, 384–94.
- Shaper, A.G., Wannamethee, G., Walker, M. (1994). Physical activity, hypertension and risk of heart attack in men without evidence of ischaemic heart disease. *Journal of Human Hypertension* 8, 3–10.
- Shapiro, Y., Moran, D., Epstein, Y. (1998). Acclimatization strategies: Preparing for exercise in the heat. *International Journal of Sports Medicine* 19 (Suppl 2), S161–63.
- Sharman, I. (1971). The effects of vitamin E and training on physiological function and athletic performance in adolescent swimmers. *British Journal of Nutrition* 26, 265–76.
- Sharp, M.W., Reilley, R.R. (1975). The relationship of aerobic physical fitness to selected personality traits. *Journal of Clinical Psychology* 31, 428–30.
- Sharp, R.L., Costill, D.L., Fink, W.J., King, D.S. (1986). Effects of eight weeks of bicycle ergometer sprint training on human muscle buffer capacity. *International Journal of Sports Medicine* 7, 13–17.
- Sharwood, K., Collins, M., Goedecke, J., Wilson, G., Noakes T. (2002). Weight changes, sodium levels, and performance in the South African Ironman Triathlon. *Clinical Journal of Sports Medicine* 12(6), 391–99.
- Sharwood, K.A., Lambert, M.I., St. Clair Gibson, A., Noakes, T.D. (2000). Changes in muscle power and neuromuscular efficiency after a 40-minute downhill run in veteran long distance runners. *Clinical Journal of Sports Medicine* 10, 129–35.
- Sheehan, G.A. (1972). *Encyclopedia of Athletic Medicine*. World, Mountain View, CA.
- Sheehan, G.A. (1973). Longevity of athletes. *American Heart Journal* 86, 425–26.
- Sheehan, G.A. (1975). *Dr. Sheehan on Running*. World, Mountain View, CA.
- Sheehan, G.A. (1977). An overview of overuse syndromes in distance runners. *Annals of the New York Academy of Sciences* 301, 877–80.
- Sheehan, G.A. (1978a). *Dr. George Sheehan's Medical Advice for Runners*. World, Mountain View, CA.
- Sheehan, G.A. (1978b). *Running and Being: The Total Experience*. Simon and Schuster, New York.
- Sheehan, G.A. (1980). *This Running Life*. Simon and Schuster, New York.
- Sheehan, G.A. (1983). *How to Feel Great 24 Hours a Day*. Simon and Schuster, New York.
- Sheffer, A.L. (1988). Anaphylaxis. *Journal of Allergy and Clinical Immunology* 81, 1048–50.
- Shekelle, R.B., Missell, L., Paul, O., Shryock, A.M., Stamler, J. (1985). Fish consumption and mortality from coronary heart disease. *New England Journal of Medicine* 313, 820.
- Sheldon, W., Dupertuis, C.W., McDermott, E. (1954). *Atlas of Men*. Harper, New York.
- Sheldon, W.H., Stevens, S.A. (1945). *The Varieties of Human Temperament* (3rd ed.). Harper, New York.
- Shellock, F.G., Prentice, W.E. (1985). Warming-up and stretching for improved physical performance and prevention of sports-related injuries. *Sports Medicine* 2, 267–78.
- Shephard, R.J. (1981). *Physiology and Biochemistry of Exercise*. Praeger, New York.
- Shephard, R.J., Kavanagh, T. (1978). Fluid and mineral needs of middle-aged and postcoronary distance runners. *Physician and Sportsmedicine* 6 (May), 90–102.
- Shepley, B., MacDougall, J.D., Cipriano, N., Sutton, J.R., Tarnopolsky, M.A., Coates, G. (1992). Physiological effects of tapering in highly trained athletes. *Journal of Applied Physiology* 72, 706–11.
- Sherman, M.M. (1983). Are exercise ailments cyclical? *New England Journal of Medicine* 309, 858–59.
- Sherman, W., Leenders, N. (1995). Fat loading: The next magic bullet? *International Journal of Sport Nutrition* 5, S1–12.
- Sherman, W.M. (1992). Recovery from endurance exercise. *Medicine and Science in Sports and Exercise* 24, S336–39.
- Sherman, W.M., Brodowicz, G., Wright, D.A., Allen, W.K., Simonsen, J., Dernbach, A. (1989). Effects of 4 h preexercise carbohydrate feedings on cycling performance. *Medicine and Science in Sports and Exercise* 21, 598–604.
- Sherman, W.M., Costill, D.L., Fink, W.J., Hagerman, F.C., Armstrong, L.E., Murray, T.F. (1983). Effect of a 42.2 km footrace and subsequent rest or exercise on muscle glycogen and enzymes. *Journal of Applied Physiology* 55, 1219–24.
- Sherman, W.M., Costill, D.L., Fink, W.J., Miller, J.M. (1981). Effect of exercise-diet manipulation on muscle glycogen and its subsequent utilization during performance. *International Journal of Sports Medicine* 2, 114–18.
- Sherman, W.M., Doyle, J.A., Lamb, D.R., Strauss, R.H. (1993). Dietary carbohydrate, muscle glycogen, and exercise performance during 7 d of training. *American Journal of Clinical Nutrition* 57, 27–31.
- Sherman, W.M., Peden, M.C., Wright, D.A. (1991). Carbohydrate feedings 1 h before exercise improves cycling performance. *American Journal of Clinical Nutrition* 54, 866–70.

- Sherman, W.M., Wimer, G.S. (1991). Insufficient dietary carbohydrate during training: does it impair athletic performance? *International Journal of Sport Nutrition* 1, 28–44.
- Sherrid, M.V., Mieres, J., Mogtader, A., Menezes, N., Steinberg, G. (1995). Onset during exercise of spontaneous coronary artery dissection and sudden death. Occurrence in a trained athlete: Case report and review of prior cases. *Chest* 108, 284–87.
- Sherwin, R.W., Wentworth, D.N., Cutler, J.A., Hulley, S.B., Kuller, L.H., Stamler, J. (1987). Serum cholesterol levels and cancer mortality in 361,662 men screened for the multiple risk factor intervention trial. *Journal of the American Medical Association* 257, 943–48.
- Shewry, M.C., Smith, W.C.S., Woodward, M., Tunstall-Pedoe, H. (1992). Variation in coronary risk factors by social status: Results from the Scottish heart health study. *British Journal of General Practice* 42, 406–10.
- Shi, X., Gisolfi, C.V. (1998). Fluid and carbohydrate replacement during intermittent exercise. *Sports Medicine* 25, 157–72.
- Shi, X., Summers, R.W., Schedl, H.P., Flanagan, S.W., Chang, R., Gisolfi, C.V. (1995). Effects of carbohydrate type and concentration and solution osmolality on water absorption. *Medicine and Science in Sports and Exercise* 27, 1607–15.
- Shimegi, S., Yanagita, M., Okano, H., Yamada, M., Fukui, H., Fukumura, Y., Ibuki, Y., Kojima, I. (1994). Physical exercise increases bone mineral density in postmenopausal women. *Endocrinology Journal* 41, 49–56.
- Shinton, R., Sagar, G. (1993). Lifelong exercise and stroke. *British Medical Journal* 307, 231–34.
- Shiraki, K., Yamada, T., Yoshimura, H. (1977). Relation of protein nutrition to the reduction of red blood cells by physical training. *Japanese Journal of Physiology* 27, 413–21.
- Shirreffs, S.M., Maughan, R.J. (1998). Volume repletion after exercise-induced volume depletion in humans: Replacement of water and sodium losses. *American Journal of Physiology* 274, F868–75.
- Shirreffs, S.M., Taylor, A.J., Leiper, J.B., Maughan, R.J. (1996). Post-exercise rehydration in man: Effects of volume consumed and drink sodium content. *Medicine and Science in Sports and Exercise* 28, 1260–71.
- Short, K.R., Sheffield-Moore, M., Costill, D.L. (1997). Glycemic and insulinemic responses to multiple preexercise carbohydrate feedings. *International Journal of Sport Nutrition* 7, 128–37.
- Short, S.H., Short, W.R. (1983). Four-year study of university athletes' dietary intake. *Journal of the American Dietetic Association* 82, 632–45.
- Shorter, F., Bloom, M. (1984). *Olympic Gold: A Runner's Life and Times*. Houghton Mifflin, Boston.
- Shrier, I. (1999). Stretching before exercise does not reduce the risk of local muscle injury: A critical review of the clinical and basic science literature. *Clinical Journal of Sport Medicine* 9, 221–27.
- Shrier, I. (2000). Stretching before exercise: An evidence based approach. *British Journal of Sports Medicine* 34, 324–25.
- Shrier, I., Gossal, K. (2000). Myths and truths of stretching. *Physician and Sportsmedicine* 28 (August), 57–63.
- Shrier, I., Matheson, G.O., Kohl, H.W. (1996). Achilles tendonitis: Are corticosteroid injections useful or harmful? *Clinical Journal of Sports Medicine* 6, 245–50.
- Shrubb, A. (1909). *Long Distance Running and Training*. Imperial News, Toronto.
- Shrubb, A. (1910). *Running and cross-country running*. Health and Strength, London.
- Shu, X.O., Hatch, M.C., Zheng, W., Gao, Y.T., Brinton, L.A. (1993). Physical activity and risk of endometrial cancer. *Epidemiology* 4, 342–439.
- Sidney, S., Sternfeld, B., Gidding, S.S., Jacobs, D.R., Bild, D.E., Oberman, A., Haskell, W.L.,
- Scrow, R.S., Gardin, J.M. (1993). Cigarette smoking and submaximal exercise test duration in a biracial population of young adults: The CARDIA study. *Medicine and Science in Sports and Exercise* 25, 911–16.
- Sidorov, J. (1993). Quinine sulphate for leg cramps: Does it work? *Journal of the American Geriatric Society* 41, 498–500.
- Sidossis, L.S., (1998). The role of glucose in the regulation of substrate interaction during exercise. *Canadian Journal of Applied Physiology* 23, 558–69.
- Sidossis, L.S., Stuart, C.A., Shulman, G.I., Lopaschuk, G.D., Wolfe, R.R. (1996). Glucose plus insulin regulate fat oxidation by controlling the rate of fatty acid entry into the mitochondria. *Journal of Clinical Investigation* 98, 2244–50.
- Sidossis, L.S., Wolfe, R.R. (1996). Glucose and insulin-induced inhibition of fatty acid oxidation: The glucose-fatty acid cycle reversed. *American Journal of Physiology* 270, E733–38.
- Siegel, A.J. (1980). Exercise-induced anaphylaxis. *Physician and Sportsmedicine* 8 (January), 95–98.
- Siegel, A.J., Hennekens, C.H., Solomon, H.S., Van Boeckel, B. (1979). Exercise-related hematuria. *Journal of the American Medical Association* 241, 391–92.
- Sies, H., Krinsky, N.I. (1995). The present status of antioxidant vitamins and  $\beta$ -carotene. *American Journal of Clinical Nutrition* 62 (Suppl), 1299S–300S.
- Silbert, P.L., Edis, R.H., Stewart-Wynne, E.G., Gubbay, S.S. (1991). Benign vascular sexual headache and exertional headache: Interrelationships and long term prognosis. *Journal of Neurology, Neurosurgery and Psychiatry* 54, 417–21.
- Silbert, P.L., Hankey, G.J., Prentice, D.A., Apsimon, H.T. (1989). Angiographically demonstrated arterial spasm in a case of benign sexual headache and benign exertional headache. *Australian and New Zealand Journal of Medicine* 19, 466–68.
- Silverstein, S.R., Frommer, D.A., Dobozin, B., Rosen, P. (1986). Celery-dependent exercise-induced anaphylaxis. *Journal of Emergency Medicine* 4, 195–99.
- Simkin, A., Leichter, I., Giladi, M., Stein, M., Milgrom, C. (1989). Combined effect of foot arch structure and an orthotic device on stress fractures. *Foot and Ankle* 10, 25–29.
- Simoes, E.J., Byers, T., Coates, R.J., Serdula, M.K., Mokdad, A.H., Heath, G.W. (1995). The association between leisure-time physical activity and dietary fat in American adults. *American Journal of Public Health* 85, 240–44.
- Simon, H.B. (1993). Hyperthermia. *New England Journal of Medicine* 329, 483–87.

- Simoneau, J.A., Lortie, G., Boulay, M.R., Marcotte, M., Thibault, M.C., Bouchard, C. (1986). Inheritance of human skeletal muscle and anaerobic capacity adaptation to high-intensity intermittent training. *International Journal of Sports Medicine* 7, 167–71.
- Simonsen, J.S., Sherman, W.M., Lamb, D.R., Dernbach, A.R., Doyle, J.A., Strauss, R. (1991). Dietary carbohydrate, muscle glycogen, and power output during rowing training. *Journal of Applied Physiology* 70, 1500–05.
- Simopoulos, A.P. (1992). Omega-3 fatty acids and coronary heart disease: Current status. *Continuing Medical Education* 10, 1405–16.
- Sims, E.A.H. (1976). Experimental obesity, dietary-induced thermogenesis, and their clinical implications. *Clinics in Endocrinology and Metabolism* 5, 377–95.
- Sims, E.A.H. (1990). Destiny rides again as twins overeat. *New England Journal of Medicine* 322, 1522–24.
- Sims, W.A.H., Danforth, E., Horton, E.S., Bray, G.A., Glennon, J.A., Salman, L.B. (1973). Endocrine and metabolic effects of experimental obesity in man. *Recent Progress in Hormonal Research* 29, 457–96.
- Sinclair, J.D. (1951). Stitch: The side pain of athletes. *New Zealand Medical Journal* 50, 607–12.
- Singh, A., Evans, P., Gallagher, K.L., Deuster, P.A. (1993). Dietary intakes and biochemical profiles of nutritional status of ultramarathoners. *Medicine and Science in Sports and Exercise* 25, 328–34.
- Singh, A., Moses, F.M., Deuster, P.A. (1992). Chronic multivitamin-mineral supplementation does not enhance physical performance. *Medicine and Science in Sports and Exercise* 24, 726–32.
- Singh, R., Crampton, R.S., Horgan, J.A. (1975). Physical, electrocardiographic, echocardiographic and hemodynamic features of the athletic heart syndrome. *Clinical Research* 23, 8A.
- Siscovick, D.S., Ekelund, L.G., Johnson, J.L., Truong, Y., Adler, A. (1991). Sensitivity of exercise electrocardiography for acute cardiac events during moderate and strenuous physical activity: The Lipid Research Clinics Coronary Primary Prevention Trial. *Archives of Internal Medicine* 151, 325–30.
- Siscovick, D.S., Fried, L., Mittelmark, M., Rutan, G., Bild, D., O'Leary, D.H. (1997). Exercise intensity and subclinical cardiovascular disease in the elderly. *American Journal of Epidemiology* 145, 977–86.
- Siscovick, D.S., Raghunathan, T.E., King, I., Weinmann, S., Wicklund, K.G., Albright, J., Bovbjerg, P., Arbogast, P., Smith, H., Kushi, L.H. et al. (1995). Dietary intake and cell membrane levels of long-chain n-3 polyunsaturated fatty acids and the risk of primary cardiac arrest. *Journal of the American Medical Association* 274, 1363–67.
- Siscovick, D.S., Weiss, N.S., Fletcher, R.H., Lasky, T. (1984a). The incidence of primary cardiac arrest during vigorous exercise. *New England Journal of Medicine* 311, 874–77.
- Siscovick, D.S., Weiss, N.S., Fletcher, R.H., Schoenbach, V.J., Wagner, E.H. (1984b). Habitual vigorous exercise and primary cardiac arrest: Effect of other risk factors on the relationship. *Journal of Chronic Diseases* 37, 625–31.
- Siscovick, D.S., Weiss, N.S., Hallstrom, A.P., Inui, T.S., Peterson, D.R. (1982). Physical activity and primary cardiac arrest. *Journal of the American Medical Association* 248, 3113–17.
- Sisson, M., Hosker, R. (1983). *Triathlon Training Book*. Anderson World, Mountain View, CA.
- Sjödin, A.M., Forslund, A.H., Westerterp, K.R., Andersson, A.B., Forslund, J.M., Hambraeus, L.M. (1996). The influence of physical activity on BMR. *Medicine and Science in Sports and Exercise* 28, 85–91.
- Sjodin, B., Jacobs, I. (1981). Onset of blood lactate accumulation and marathon running performance. *International Journal of Sports Medicine* 2, 23–26.
- Sjodin, B., Jacobs, I., Karlsson, J. (1981). Onset of blood lactate accumulation and enzyme activities in M. vastus lateralis in man. *International Journal of Sports Medicine* 2, 166–70.
- Sjodin, B., Schele, R. (1982). Oxygen cost of treadmill running in long distance runners. In P.V. Komi (Ed.), *Exercise and Sport Biology*. Human Kinetics, Champaign, IL, 61–67.
- Sjodin, B., Svedenhag, J. (1985). Applied physiology of marathon running. *Sports Medicine* 2, 83–99.
- Sjogaard, G., Adams, R.P., Saltin, B. (1985). Water and ion shifts in skeletal muscle of humans with intense dynamic knee extension. *American Journal of Physiology* 248, R190–96.
- Sjoström, M., Friden, J., Ekblom, B. (1987). Endurance, what is it? Muscle morphology after an extremely long distance run. *Acta Physiologica Scandinavica* 130, 513–20.
- Sjoström, M., Johansson, C., Lorentzon, R. (1988). Muscle pathomorphology in m. quadriceps of marathon runners: Early signs of strain disease or functional adaptation? *Acta Physiologica Scandinavica* 132, 537–42.
- Slattery, M.L., Abd-Elghany, N., Kerber, R., Schumacher, M.C. (1990). Physical activity and colon cancer: A comparison of various indicators of physical activity to evaluate the association. *Epidemiology* 1, 481–85.
- Slattery, M.L., Potter, J., Caan, B., Edwards, S., Coates, A., Ma, K.-N., Berry, T.D. (1997). Energy balance and colon cancer: Beyond physical activity. *Cancer Research* 57, 75–80.
- Slattery, M.L., Schumacher, M.C., Smith, K.R., West, D.W., Abd-Elghany, N. (1988). Physical activity, diet, and risk of colon cancer in Utah. *American Journal of Epidemiology* 128, 989–99.
- Sleamaker, R., Browning, R. (1996). *Serious Training for Endurance Athletes* (2nd ed.). Human Kinetics, Champaign, IL.
- Slemenda, C.W., Johnston, C.C. (1993). High intensity activities in young women: Site specific bone mass effects among female figure skaters. *Bone Mineralization* 20, 125–32.
- Slemenda, C.W., Miller, J.Z., Hui, S.L., Reister, T.K., Johnston, C.C. (1991). Role of physical activity in the development of skeletal mass in children. *Journal of Bone and Mineral Research* 6, 1227–33.
- Slovic, P. (1977). Empirical study of training and performance in the marathon. *Research Quarterly* 48, 769–77.
- Smart, G.W., Taunton, J.E., Clement, D.B. (1980). Achilles tendon disorders in runners: A review. *Medicine and Science in Sports and Exercise* 12, 231–43.
- Smith, D.A., O'Donnell, T.V. (1984). The time course during 36 weeks' endurance training of changes in  $\dot{V}O_{2\max}$  and anaerobic threshold as determined with a new computerized method. *Clinical Sciences* 67, 229–36.

- Smith, D.W., Claren, S.K., Harvey, M.A.S. (1978). Hyperthermia as a possible teratogenic agent. *Journal of Pediatrics* 92, 878–83.
- Smith, E.L., Gilligan, C., Mcadam, M., Ensign, C.P., Smith, P.E. (1989). Deterring bone loss by exercise intervention in premenopausal and postmenopausal women. *Calcified Tissues International* 44, 312–21.
- Smith, E.L., Raab, D.M. (1986). Osteoporosis and physical activity. *Acta Medica Scandinavica* 711 (Suppl), 149–56.
- Smith, E.L., Smith, P.E., Ensign, C.J., Shea, M.M. (1984). Bone involution decrease in exercising middle-aged women. *Calcified Tissues International* 36 (Suppl 1), S129–38.
- Smith, G.D., Bannister, R., Mathias, C.J. (1993). Post-exertion dizziness as the sole presenting symptom of autonomic failure. *British Heart Journal* 69, 359–61.
- Smith, G.M., Beecher, H.K. (1959). Amphetamine sulfate and athletic performance. *Journal of the American Medical Association* 170, 542–47.
- Smith, J., McNaughton, L. (1993). The effects of intensity of exercise on excess postexercise oxygen consumption and energy expenditure in moderately trained men and women. *European Journal of Applied Physiology* 67, 420–25.
- Smith, L.S., Clarke, T.E., Hamill, C.L., Santopietro, F. (1986). The effects of soft and semi-rigid orthoses upon rearfoot movement in running. *Journal of the American Podiatric Medical Association* 76, 227–33.
- Smith, R.E. (1984). The dynamics and prevention of stress-induced burnout in athletics. *Primary Care* 11, 115–27.
- Smith, T.P., McNaughton, L.R., Marshall, K.J. (1999). Effects of 4-wk training using Vmax/Tmax on VO<sub>2</sub>max and performance in athletes. *Medicine and Science in Sports and Exercise* 31, 892–96.
- Smuts, J.C. (1951). *The Thoughts of General Smuts*. Juta, Cape Town, South Africa.
- Snader, C.E., Marwick, T.H., Pashkow, F.J., Harvey, S.A., Thomas, J.D., Lauer, M.S. (1997). Importance of estimated functional capacity as a predictor of all-cause mortality among patients referred for exercise thallium single-photon emission computed tomography: Report of 3,400 patients from a single center. *Journal of the American College of Cardiology* 30, 641–48.
- Snead, D.B., Weltman, A., Weltman, J.Y., Evans, W.S., Veldhuis, J.D., Varma, M.M., Teates, C.D., Dowling, E.A., Rogol, A.D. (1992). Reproductive hormones and bone mineral density in women runners. *Journal of Applied Physiology* 72, 2149–56.
- Sneddon, J.F., Scalia, G., Ward, D.E., McKenna, W.J., Camm, A.J., Frenneaux, M.P. (1994). Exercise induced vasodepressor syncope. *British Heart Journal* 71, 554–57.
- Snell, P. (1997). Training of the distance runners. Abstract in *Second Annual Congress of the European College of Sport Science*. Copenhagen, 57.
- Snider, M.P., Clancy, W.G., McBeatt, A.A. (1983). Plantar fascia release for chronic plantar fasciitis in runners. *American Journal of Sports Medicine* 11, 215–19.
- Snowdon, D.A. (1988). Animal product consumption and mortality because of all causes combined, coronary heart disease, stroke, diabetes, and cancer in Seventh-day Adventists. *American Journal of Clinical Nutrition* 48, 739–48.
- Snow-Harter, C., Whalen, R., Myburgh, K., Amaud, S., Marcus, R. (1992). Bone mineral density, muscle strength, and recreational exercise in men. *Journal of Bone Mineral Research* 7, 1291–96.
- Snyder, A.C., Lamb, D.R., Salm, C.P., Judge, M.D., Aberle, E.D., Mills, E.W. (1984). Myofibrillar protein degradation after eccentric exercise. *Experientia* 40, 69–70.
- Snyder, A.C., Moorhead, K., Luedtke, J., Small, M. (1993). Carbohydrate consumption prior to repeated bouts of high-intensity exercise. *European Journal of Applied Physiology* 66, 141–45.
- Snyder, D.K., Carruth, B.R. (1984). Current controversies: Exercising during pregnancy. *Journal of Adolescent Health Care* 5, 34–36.
- Soffer, E.E., Merchant, R.K., Duethman, G., Launspach, J., Gisolfi, C., Adrian, T.E. (1993). Effect of graded exercise on esophageal motility and gastroesophageal reflux in trained athletes. *Digestive Diseases and Sciences* 38, 220–24.
- Sohar, E., Adar, R. (1964). Sodium requirements in Israel under conditions of work in hot climate. *Unesco Arid Zone Research* 24, 55–62.
- Sohn, R.S., Micheli, L.J. (1984). The effect of running on the pathogenesis of osteoarthritis of the hips and knees. *Medicine and Science in Sports and Exercise* 16, 150.
- Sole, C.C., Noakes, T.D. (1989). Faster gastric emptying for glucose-polymer and fructose solutions than for glucose in humans. *European Journal of Applied Physiology* 58, 605–12.
- Somerville, W., Taggart, P., Carruthers, M. (1971). Addressing a medical meeting: Effect on heart rate, electrocardiogram, plasma catecholamines, free fatty acids, and triglycerides. *British Heart Journal* 33, 608.
- Sommer, H.M., Vallentyne, S.W. (1995). Effect of foot posture on the incidence of medial tibial stress syndrome. *Medicine and Science in Sports and Exercise* 27, 800–4.
- Song, E.Y.M., Lim, C.L., Lim, M.K. (1998). A comparison of maximum oxygen consumption, aerobic performance, and endurance in young and active male smokers and nonsmokers. *Military Medicine* 11, 770–74.
- Sonstegard, D.A., Matthews, L.S., Kaufer, H. (1978). The surgical replacement of the knee joint. *Scientific American* 238 (January), 44–51.
- Sorensen, K.E., Borlum, K.G. (1986). Fetal heart function in response to short-term maternal exercise. *British Journal of Obstetrics and Gynaecology* 93, 310–13.
- Sorock, G.S., Bush, T.L., Golden, A.L., Fried, L.P., Breuer, B., Hale, W.E. (1988). Physical activity and fracture risk in a free-living elderly cohort. *Journal of Gerontology* 43, M134–39.
- South African Runner. (1987a). Fast and furious for Matthews. *South African Runner* (September), 33.
- South African Runner. (1987b). Xolile Yawa. *South African Runner*, (June), 45.
- Sparling, P.B. (1995). Expected environmental conditions for the 1996 Summer Olympic Games in Atlanta. *Clinical Journal of Sport Medicine* 5, 220–22.
- Sparling, P.B. (1996). Letter to the editor. *Clinical Journal of Sport Medicine* 6, 142–43.
- Sparling, P.B. (1997). Environmental conditions during the 1996 Olympic Games: A brief follow-up report. *Clinical Journal of Sport Medicine* 7, 159–61.

- Sparling, P.B., O'Donnell, E.M., Snow, T.K. (1999). The gender difference in distance running performance has plateaued: An analysis of world rankings from 1980–1996. *Medicine and Science in Sports and Exercise* 30, 1725–29.
- Spector, T.D., Harris, P.A., Hart, D.J., Cicuttini, F.M., Nandra, D., Etherington, J., Wolman, R.L., Doyle, D.V. (1996). Risk of osteoarthritis associated with running: A radiological survey of female ex-athletes and population controls. *Arthritis and Rheumatism* 39, 988–95.
- Speechly, D.P., Taylor, S.R., Rogers, G.G. (1996). Differences in ultra-endurance exercise in performance-matched male and female runners. *Medicine and Science in Sports and Exercise* 28, 359–65.
- Speedy, D.B., Faris, J.G., Hamlin, M., Gallagher, P.G., Campbell, R.G.D. (1997). Hyponatremia and weight changes in an ultradistance triathlon. *Clinical Journal of Sport Medicine* 7, 180–84.
- Speedy, D.B., Noakes, T.D., Boswell, T., Thompson, J.M.D., Rehner, N., Boswell, D.R. (2001a). Response to a fluid load in athletes with a history of exercise induced hyponatremia. *Medicine and Science in Sports and Exercise* 33, 1434–42.
- Speedy, D.B., Noakes, T.D., Kimber, N.E., Rogers, I.R., Thompson, J.M.D., Boswell, D.R., Ross, J.J., Campbell, R.G.D., Gallagher, P.G., Kuttner, J.A. (2001b). Fluid balance during and after an Ironman triathlon. *Clinical Journal of Sport Medicine* 11, 44–50.
- Speedy, D.B., Noakes, T.D., Rogers, I.R., Hellemans, I., Kimber, N.E., Boswell, D.R., Campbell, R., Kuttner, J.A. (2000). A prospective study of exercise-associated hyponatremia in two ultradistance triathletes. *Clinical Journal of Sport Medicine* 10, 136–41.
- Speedy, D.B., Noakes, T.D., Rogers, I.R., Thompson, J.M., Campbell, R.G., Kuttner, J.A., Boswell, D.R., Wright, S., Hamlin, M. (1999). Hyponatremia in ultradistance triathletes. *Medicine and Science in Sports and Exercise* 31, 809–15.
- Speedy, D.B., Noakes, T.D., Schneider, C. (2001c). Exercise associated hyponatremia: A review. *Emergency Medicine* 13, 17–27.
- Speedy, D.B., Rogers, I.R., Noakes, T.D., Wright, S., Thompson, J.M.D., Campbell, R.G.D., Hellemans, I., Kimber, N.E., Boswell, D.R., Kuttner, J.A., Safih, S. (2000a). Exercise-induced hyponatremia in ultradistance triathletes is caused by inappropriate fluid retention. *Clinical Journal of Sport Medicine* 10, 272–78.
- Speedy, D.B., Rogers, I.R., Noakes, T.D., Thompson, J.M., Guirey, J., Safih, S., Boswell, D.R. (2000b). Diagnosis and prevention of hyponatremia at an ultradistance triathlon. *Clinical Journal of Sport Medicine* 10, 52–58.
- Speedy, D.B., Rogers, I.R., Safih, S., Foley, B. (2000c). Hyponatremia and seizures in an Ironman triathlete. *Journal of Emergency Medicine* 10, 41–44.
- Speedy, D.B., Thompson, J.M.D., Rodgers, I., Collins, M., Sharwood, K., Noakes, T.D. (2001). Oral salt supplementation during ultra-distance exercise. (Manuscript submitted.)
- Speer, K.P., Lohnes, J., Garrett, W.E. (1993). Radiographic imaging of muscle strain injury. *American Journal of Sports Medicine* 21, 89–95.
- Speroff, L., Redwine, D.B. (1980). Exercise and menstrual function. *Physician and Sportsmedicine* 8 (May), 42–52.
- Spieth, L.E., Harnish, J.D., Lenders, C.M., Raezer, L.B., Pereira, M.A., Hangen, S.J., Ludwig, D.S. (2000). A low glycemic index diet in the treatment of pediatric obesity. *Archives of Pediatric and Adolescent Medicine* 154, 947–51.
- Spina, R.J., Chi, M.M., Hopkins, M.G., Nemeth, P.M., Lowry, O.H., Holloszy, J.O. (1996). Mitochondrial enzymes increase in muscle in response to 7–10 days of cycle exercise. *Journal of Applied Physiology* 80, 2250–54.
- Spinnewijn, W.E., Lotgering, F.K., Struijk, P.C., Wallenburg, H.C. (1996). Fetal heart rate and uterine contractility during maternal exercise at term. *American Journal of Obstetrics and Gynecology* 174, 43–48.
- Spriet, L.L. (1987). Muscle pH, glycolytic ATP turnover and the onset of fatigue. In D. Macleod, R. Maughan, M. Nimmo, T. Reilly, C. Williams (Eds.), *Exercise Benefits, Limits and Adaptations*. Spon, London, 85–102.
- Spriet, L.L., Gledhill, N., Froese, A.B., Wilkes, D.L. (1986). Effect of graded erythrocythemia on cardiovascular and metabolic responses to exercise. *Journal of Applied Physiology* 61, 1942–48.
- Spriet, L.L., MacLean, D.A., Dyck, D.J., Hultman, E., Cederblad, G., Graham, T.E. (1992). Caffeine ingestion and muscle metabolism during prolonged exercise in humans. *American Journal of Physiology* 262, E891–98.
- Sproule, J. (1998). The influence of either no fluid or carbohydrate-electrolyte fluid ingestion and the environment (thermoneutral versus hot and humid) on running economy after prolonged, high-intensity exercise. *European Journal of Applied Physiology* 77, 536–42.
- Squires, R.W. (1982). *Improving Your Running*. Greene Press, Lexington, KY.
- Squires, R.W., Buskirk, E.R. (1982). Aerobic capacity during acute exposure to simulated altitude, 914 to 2,286 metres. *Medicine and Science in Sports and Exercise* 14, 36–40.
- St. Clair Gibson, A., Lambert, E.V., Lambert, M.I., Hampson, D.B., Noakes T.D. (2001). Exercise and fatigue-control mechanisms. *International Sports Medicine Journal* 2, 1–14.
- St. Clair Gibson, A., Lambert, M.I., Milligan, J., van der Merwe, W., Walters, J., Noakes, T.D. (1998). Exercise-induced mitochondrial dysfunction in an elite athlete. *Clinical Journal of Sports Medicine* 8, 52–55.
- St. Clair Gibson, A., Lambert, M.I., Noakes, T.D. (2001). Neural control of force output during maximal and submaximal exercise. *Sports Medicine* 31 (9): 637-650.
- St. Clair Gibson, A., Schabort, E.J., Noakes, T.D. (2001). Reduced neuromuscular activity and force generation during prolonged cycling. *American Journal of Physiology* 281, R187–96.
- Stacoff, A., Denoth, J., Kaelin, X., Stuessi, E. (1988). Running injuries and shoe construction: Some possible relationships. *International Journal of Sports Biomechanics* 4, 342–57.
- Stacoff, A., Kalin, X., Stussi, E. (1991). The effects of shoes on the torsion and rearfoot motion in running. *Medicine and Science in Sports and Exercise* 23, 482–90.
- Stacoff, A., Reinschmidt, C., Nigg, B.M., van den Bogert, A.J., Lundberg, A., Denoth, J., Stüssi, E. (2001). Effects of shoe sole construction on skeletal motion during running. *Medicine and Science in Sports and Exercise* 33, 311–19.

- Stacoff, A.P. (1998). Skeletal lower extremity motions during running. Doctoral dissertation, University of Calgary, Alberta, Canada.
- Stager, J.M., Ritchie-Flanagan, B., Robertshaw, D. (1984). Reversibility of amenorrhea in athletes. *New England Journal of Medicine* 310, 51–52.
- Stager, J.M., Robertshaw, D., Miescher, E. (1984). Delayed menarche in swimmers in relation to age at onset of training and athletic performance. *Medicine and Science in Sports and Exercise* 16, 550–55.
- Stager, J.M., Wigglesworth, J.K., Hatler, L.K. (1990). Interpreting the relationship between age of menarche and pre-pubertal training. *Medicine and Science in Sports and Exercise* 22, 54–58.
- Stamford, B.A., Matter, S., Fell, R.D., Sady, S., Papanek, P., Cresanta, M.K. (1984a). Cigarette smoking, exercise and high density lipoprotein cholesterol. *Atherosclerosis* 52, 73–83.
- Stamford, B.A., Matter, S., Fell, R.D., Sady, S., Papanek, P., Cresanta, M.K. (1984b). Cigarette smoking, physical activity, and alcohol consumption: Relationship to blood lipids and lipoproteins in premenopausal females. *Metabolism* 33, 585–90.
- Stamler, J., Wentworth, D., Neaton, J.D. (1986). Is relationship between serum cholesterol and risk of premature death from coronary heart disease continuous and graded? *Journal of the American Medical Association* 256, 2823–28.
- Stampfer, M.J., Hennekens, C.H., Manson, J.E., Colditz, G.A., Rosner, B., Willett, W.C. (1993). Vitamin E consumption and the risk of coronary disease in women. *New England Journal of Medicine* 328, 1444–49.
- Stampfer, M.J., Hu, F.B., Manson, J.E., Rimm, E.B., Willett, W.C. (2000). Primary prevention of coronary heart disease in women through diet and lifestyle. *New England Journal of Medicine* 343, 16–22.
- Stampfer, M.J., Rimm, E.B. (1995). Epidemiologic evidence for vitamin E in prevention of cardiovascular disease. *American Journal of Clinical Nutrition* 62 (Suppl), 1365S–69S.
- Stampfer, M.J., Sacks, F.M., Salvini, S., Willett, W.C., Hennekens, C.H. (1991). A prospective study of cholesterol, apolipoproteins, and the risk of myocardial infarction. *New England Journal of Medicine* 325, 373–81.
- Stampfl, F. (1955). *Franz Stampfl on Running*. Jenkins, London.
- Stanford, C.F., Stanford, R.L. (1988). Exercise induced rhinorrhoea (athlete's nose). *British Medical Journal* 297, 660.
- Stanish, W.D., Curwin, S., Rubinovich, M. (1985). Tendinitis: The analysis and treatment for running. *Clinics in Sports Medicine* 4, 593–609.
- Stanish, W.D., Rubinovich, R.M., Curwin, S. (1986). Eccentric exercise in chronic tendinitis. *Clinical Orthopedics* 208, 65–68.
- Starek, P.J.K. (1982). Athletic performance in children with cardiovascular problems. *Physician and Sportsmedicine* 10 (February), 78–89.
- Staron, R.S. (1997). Human skeletal muscle fiber types: Delineation, development, and distribution. *Canadian Journal of Applied Physiology* 22, 307–27.
- Staron, R.S., Hikida, R.S., Hagerman, F.C., Dudley, G.A., Murray, T.F. (1984). Human skeletal muscle fibre type adaptability to various workloads. *Journal of Histology and Cytochemistry* 32, 146–52.
- Steen, S.N. (1997). The female-athlete triad. *Sports Science Exchange Roundtable* 8(1), 1–5.
- Steenkamp, I., Fuller, C., Graves, J., Noakes, T.D., Jacobs, P. (1986). Marathon running fails to influence RBC survival rates in iron-replete women. *Physician and Sportsmedicine* 14 (May), 89–95.
- Steinberg, H., Sykes, E.A., Moss, T., Lowery, S., LeBoutillier, N., Dewey, A. (1997). Exercise enhances creativity independently of mood. *British Journal of Sports Medicine* 31, 240–45.
- Stensrud, T., Ingjer, F., Holm, H., Stromme, S.B. (1992). L-tryptophan supplementation does not improve running performance. *International Journal of Sports Medicine* 13(6), 481–85.
- Stephens, N.G., Parsons, A., Scholfield, P.M., Kelly, F., Cheeseman, K., Mitchinson, M.J. (1996). Randomised controlled trial of vitamin E in patients with coronary disease: Cambridge Heart Antioxidant Study (CHAOS). *Lancet* 347, 781–86.
- Stephens, T. (1987). Secular trends in adult physical activity: Exercise boom or bust? *Research Quarterly for Exercise and Sport* 58, 94–105.
- Stephens, T. (1988). Physical activity and mental health in the United States and Canada: Evidence from four population surveys. *Preventive Medicine* 17, 35–47.
- Stephenson, L.A., Kolka, M.A., Wilkerson, J.E. (1982a). Metabolic and thermoregulatory responses to exercise during the human menstrual cycle. *Medicine and Science in Sports and Exercise* 14, 270–75.
- Stephenson, L.A., Kolka, M.A., Wilkerson, J.E. (1982b). Perceived exertion and anaerobic threshold during the menstrual cycle. *Medicine and Science in Sports and Exercise* 14, 218–22.
- Stepto, N.K., Hawley, J.A., Dennis, S.C., Hopkins, W.G. (1999). Effects of different interval-training programs on cycling time-trial performance. *Medicine and Science in Sports and Exercise* 31, 736–41.
- Sternfeld, B. (1992). Cancer and the protective effect of physical activity: The epidemiological evidence. *Medicine and Science in Sports and Exercise* 24, 1195–209.
- Sternfeld, B., Quesenberry, C.P., Eskenazi, B., Newman, L.A. (1995). Exercise during pregnancy and pregnancy outcome. *Medicine and Science in Sports and Exercise* 27, 634–40.
- Stevens, E.D. (1983). Effect of the weight of athletic clothing in distance running by amateur athletes. *Journal of Sports Medicine and Physical Fitness* 23, 185–90.
- Stevens, J., Cai, J., Pamuk, E.R., Williamson, D.F., Thun, M.J., Wood, J.L. (1998). The effect of age on the association between body-mass index and mortality. *New England Journal of Medicine* 338, 1–7.
- Stewart, A.D., Hannan, J. (2000). Total and regional bone density in male runners, cyclists, and controls. *Medicine and Science in Sports and Exercise* 32, 1373–77.
- Stewart, G.A., Steel, J.E., Toyne, A.H., Stewart, M.J. (1972). Observations on the haematology and iron and protein intake of Australian Olympic athletes. *Medical Journal of Australia* 2, 1339–43.
- Stewart, J.G., Ahlquist, D.A., McGill, D.B., Ilstrup, D.M., Schwartz, S., Owen, R.A. (1984). Gastro-intestinal blood loss and anemia in runners. *Annals of Internal Medicine* 101, 843–45.

- Stofan, J.R., DiPietro, L., Davis, D., Kohl, H.W., Blair, S.N. (1998). Physical activity patterns associated with cardiorespiratory fitness and reduced mortality: The Aerobics Center Longitudinal Study. *American Journal of Public Health* 88, 1807–13.
- Stones, M.J., Kozma, A. (1986). Age by distance effects in running and swimming records: A note on methodology. *Experimental Aging Research* 12, 203–6.
- Strachan, A.F., Noakes, T.D., Kotzenberg, G., Nel, A.E., De Beer, F.C. (1984). C-reactive protein levels during long-distance running. *British Medical Journal* 289, 1249–51.
- Strachan, D.P., Carrington, D., Mendall, M.A., Ballam, L., Morris, J., Butland, B.K., Sweetnam, P.M., Elwood, P.C. (1999). Relation of chlamydia pneumoniae serology to mortality and incidence of ischaemic heart disease over 13 years in the Caerphilly Prospective Heart Disease Study. *British Medical Journal* 318, 1035–49.
- Stratton, J.R., Levy, W.C., Cerqueira, M.S., Schwartz, R.S., Abrass, I.B. (1994). Cardiovascular responses to exercise: Effects of aging and exercise training in healthy men. *Circulation* 89, 1648–55.
- Stray-Gundersen, J., Levine, B.D. (1999). “Living high and training low” can improve sea level performance in endurance athletes. *British Journal of Sports Medicine* 33, 150–51.
- Stripe, P. (1982a). The effect of shoe weight on the aerobic demands of running. *Nike Research Newsletter* 1(4), 1–2.
- Stripe, P. (1982b). Running economy on air-soles. *Nike Research Newsletter* 1(1), 1–2.
- Stripe, P. (1983). Rearfoot control, cushioning and shoe design. *Nike Research Newsletter* 2(1), 1–3.
- Strydom, N.B., Kielblock, A.J., Schutte, P.C. (1982). Heat-stroke: Its definition, diagnosis and treatment. *South African Medical Journal* 61, 537.
- Strydom, N.B., Wyndham, C.H., van Graan, C.H., Holdsworth, L.D., Morrison, J.F. (1966). The influence of water restriction on the performance of men during a prolonged march. *South African Medical Journal* 40, 539–44.
- Stuart, M.K., Howley, E.T., Gladden, L.B., Cox, R.H. (1981). Efficiency of trained subjects differing in maximal oxygen uptake and type of training. *Journal of Applied Physiology* 50, 444–49.
- Stunkard, A. (1958). The management of obesity. *New York State Journal of Medicine* 58, 79–87.
- Stunkard, A.J., Harris, J.R., Pedersen, N.L., McClearn, G.E. (1990). The body-mass index of twins who have been reared apart. *New England Journal of Medicine* 322, 1483–87.
- Stunkard, A.J., Sorensen, T.I.A., Hanis, C., Teasdale, T.W., Chakraborty, R., Schull, W.J., Schulsinger, F. (1986). An adoption study of human obesity. *New England Journal of Medicine* 314, 193–98.
- Sturgeon, S.R., Brinton, L.A., Berman, M.L., Mortel, R., Twigg, L.B., Barrett, R.J., Wilbanks, G.D. (1993). Past and present physical activity and endometrial cancer risk. *British Journal of Cancer* 68, 584–89.
- Styf, J., Korner, L., Suurkula, M. (1987). Intramuscular pressure and muscle blood flow during exercise in chronic compartment syndrome. *Journal of Bone and Joint Surgery* 69B, 301–5.
- Suboticanec-Buzina, K., Buzina, R., Brubacher, G., Sapunar, J., Cristeller, S., Milanovic, N. (1984). Vitamin C status and physical working capacity in adolescents. *International Journal of Vitamin and Nutrition Research* 54, 55–60.
- Subotnick, S.I. (1977). A biomechanical approach to running injuries. *Annals of the New York Academy of Sciences* 301, 888–99.
- Subotnick, S.I. (1979). *Cures for Common Running Injuries*. Macmillan, New York.
- Sullivan, J.E. (1909). *Marathon Running*. American Sports, New York.
- Sullivan, J.L. (1992). Stored iron and ischemic heart disease: Empirical support for a new paradigm. *Circulation* 86, 1036–37.
- Sullivan, S.N. (1981). The gastro-intestinal symptoms of running. *New England Journal of Medicine* 304, 915.
- Sullivan, S.N. (1992). Overcoming runner's diarrhea. *Physician and Sportsmedicine* 20(10), 63–68.
- Sullivan, S.N., Champion, M.C., Christofides, N.D., Adrian, T.E., Bloom, S.R. (1984). Gastrointestinal regulatory peptide responses in long-distance runners. *Physician and Sports Medicine* 12 (July), 77–82.
- Sumida, K.D., Donovan, C.M. (1994). Endurance training fails to inhibit skeletal muscle glucose uptake during exercise. *Journal of Applied Physiology* 76, 1876–81.
- Sundaresan, S.M., Roemmich, J.N., Rogol, A.D. (2000). Exercise and the developing child: Endocrine considerations. In M.P. Warren, N.W. Constantini (Eds.), *Contemporary Endocrinology: Sports Endocrinology*. Humana Press, Totowa, NJ, 303–19.
- Sundberg, S., Elovainio, R. (1982). Cardiorespiratory function in competitive endurance runners aged 12–16 years compared with ordinary boys. *Acta Paediatrica Scandinavica* 71, 987–92.
- Sundgot-Borgen, J. (1993). Nutrient intake of female elite athletes suffering from eating disorders. *International Journal of Sport Nutrition* 3, 431–42.
- Sundgot-Borgen, J. (1994). Risk and trigger factors for the development of eating disorders in female elite athletes. *Medicine and Science in Sports and Exercise* 26, 414–19.
- Sundgot-Borgen, J. (1999). Eating disorders among male and female elite athletes. *British Journal of Sports Medicine* 33, 434.
- Suominen, H. (1993). Bone mineral density and long term exercise: An overview of cross-sectional athlete studies. *Sports Medicine* 16, 316–30.
- Surbey, G.D., Andrew, G.M., Cervenko, F.W., Hamilton, P.P. (1984). Effects of naloxone on exercise performance. *Journal of Applied Physiology* 57, 674–79.
- Surgenor, S., Uphold, R.E. (1994). Acute hyponatremia in ultra-endurance athletes. *American Journal of Emergency Medicine* 12, 441–44.
- Sutker, A.N., Jackson, D.W., Pagliano, J.W. (1981). Iliotibial band syndrome in distance runners. *Physician and Sportsmedicine* 9 (October), 69–73.
- Sutton, G. (1984). Hamstrung by hamstring strains: A review of the literature. *Journal of Orthopaedic and Sports Physical Therapy* 5, 184–95.
- Sutton, J.R. (1972). Community jogging vs arduous racing. *New England Journal of Medicine* 286, 951.
- Sutton, J.R. (1990). Clinical implications of fluid balance. In C.V. Gisolfi, D.R. Lamb (Eds.), *Perspectives in Exercise Science and Sports Medicine: Vol. 3. Fluid Homeostasis During Exercise*. Benchmark Press, Carmel, IN, 425–55.



- Sutton, J.R., Bar-Or, O. (1980). Thermal illness in fun running. *American Heart Journal* 100, 778–81.
- Sutton, J.R., Jones, N.L., Pugh, L.G.C.E. (1983). Exercise at altitude. *Annual Review of Physiology* 45, 427–37.
- Sutton, J.R., Reeves, J.T., Wagner, P.D., Groves, B.M., Cymerman, A., Malconian, M.K., Rock, P.B., Young, P.M., Walter, S.D., Houston, C.S. (1988). Operation Everest II: Oxygen transport during exercise at extreme simulated altitude. *Journal of Applied Physiology* 64, 1309–21.
- Svedenhag, J., Saltin, B., Johansson, C., Kaijser, L. (1991). Aerobic and anaerobic exercise capacities of elite middle-distance runners after two weeks of training at moderate altitude. *Scandinavian Journal of Medicine and Science in Sports* 1, 205–14.
- Svedenhag, J., Sjodin, B. (1985). Physiological characteristics of elite male runners in and off-season. *Canadian Journal of Applied Sport Sciences* 10, 127–33.
- Svensson, T. (Ed.). (1996). *The Total Triathlon Almanac* (3rd ed.). Trimarket Company, Palo Alto, CA.
- Swain, R.A., Harsha, D.M., Baenziger, J., Saywell, R.M. (1997). Do pseudoephedrine or phenylpropranolamine improve a maximum oxygen uptake and time to exhaustion? *Clinical Journal of Sports Medicine* 7, 168–73.
- Swank, A., Robertson, R.J. (1989). Effect of induced alkalosis on perception of exertion during intermittent exercise. *Journal of Applied Physiology* 76, 1862–67.
- Swenson, E.J., DeHaven, K.E., Sebastianelli, W.J., Hanks, G., Kalenak, A., Lynch, J.M. (1997). The effect of a pneumatic leg brace on return to play in athletes with tibial stress fractures. *American Journal of Sports Medicine* 25, 322–28.
- Szabo, C. P. (1996). Playboy centrefolds and eating disorders: From male pleasure to female pathology. *South African Medical Journal* 86, 838–39.
- Taggart, P., Carruthers, M. (1971). Endogenous hyperlipidaemia induced by emotional stress of racing driving. *Lancet* 1, 363–66.
- Taggart, P., Carruthers, M., Somerville, W. (1973). Electrocardiogram, plasma catecholamines and lipids, and their modification by oxyprenolol when speaking before an audience. *Lancet* 2, 341–46.
- Taggart, P., Carruthers, M., Somerville, W. (1983). Some effects of emotion on the normal and abnormal heart. *Current Problems in Cardiology* 7(12), 1–29.
- Taggart, P., Parkinson, P., Carruthers, M. (1972). Cardiac responses to thermal, physical, and emotional stress. *British Medical Journal* 3, 71–76.
- Talbott, J.H. (1935). Heat cramps. *Medicine* 14, 323–376.
- Talbott, J.H. (1940). *Modern Medical Therapy in General Practice*. Williams & Wilkins, Baltimore.
- Talbott, J.H., Dill, D.B., Edwards, H.T., Stumme, E.H., Consolazio, W.V. (1937). The ill effects of heat upon workmen. *Journal of Industrial Hygiene and Toxicology* 19, 258–74.
- Tanaka, H., Seals, D.R. (1997). Age and gender interactions in physiological functional capacity: Insight from swimming performance. *Journal of Applied Physiology* 82, 846–51.
- Tanaka, J.A., Tanaka, H., Landis, W. (1995). An assessment of carbohydrate intake in collegiate distance runners. *International Journal of Sport Nutrition* 5, 206–14.
- Tanaka, K., Matsuura, Y. (1984). Marathon performance, anaerobic threshold, and onset of blood lactate accumulation. *Journal of Applied Physiology* 57, 640–43.
- Tanaka, K., Matsuura, Y., Kumagai, S., Matsuzaka, A., Hirakoba, K., Asano, K. (1983). Relationship of anaerobic threshold and onset of blood lactate accumulation with endurance performance. *European Journal of Applied Physiology* 52, 51–56.
- Tanaka, K., Matsuura, Y., Matsuzaka, A., Hirakoba, K., Kumagai, S., Sun, S.O., Asano, K. (1984). A longitudinal assessment of anaerobic threshold and distance running performance. *Medicine and Science in Sports and Exercise* 16, 278–82.
- Tanji, J.L. (1992). Exercise and the hypertensive athlete. *Clinics in Sports Medicine* 11, 291–302.
- Tanser, T. (1997). *Train Hard, Win Easy: The Kenyan Way*. Tafnews Press, Mountain View, CA.
- Tarnopolsky, L.J., MacDougall, J.D., Atkinson, S.A., Tarnopolsky, M.A., Sutton, J.R. (1990). Gender differences in substrate for endurance exercise. *Journal of Applied Physiology* 68, 302–8.
- Tarnopolsky, M.A. (2000). Gender differences in substrate metabolism during endurance exercise. *Canadian Journal of Applied Physiology* 25, 312–27.
- Tarnopolsky, M.A., Atkinson, S.A., Phillips, S.M., MacDougall, J.D. (1995). Carbo-hydrate loading and metabolism during exercise in men and women. *Journal of Applied Physiology* 78, 1360–68.
- Tarnopolsky, M.A., Bosman, M., MacDonald, J.R., Vandeputte, D., Martin, J., Roy, B.D. (1997). Postexercise protein-carbohydrate and carbohydrate supplements increase muscle glycogen in men and women. *Journal of Applied Physiology* 83, 1877–83.
- Tarnopolsky, M.A., MacDougall, J.D., Atkinson, S.A. (1988). Influence of protein intake and training status on nitrogen balance and lean body mass. *Journal of Applied Physiology* 64, 187–93.
- Tarrant, J. (1979). The ghost runner. *Athletics Weekly*. Rochester, England.
- Tashiro, H., Hori, S., Shinozawa, Y., Obara, K., Fujishima, S., Miyata, Y., Namiki, J., Koizumi, J., Sasaki, J., Hirata, T. et al. (1993). [A case of food-dependent exercise-induced anaphylaxis associated with repeated episodes of syncope]. *Kokyu To Junkan* 41, 587–90.
- Tate, C.A., Holtz, R.W. (1998). Gender and fat metabolism during exercise: A review. *Canadian Journal of Applied Physiology* 23, 570–82.
- Taunton, J.E., Clement, D.B., Smart, G.W., Wiley, J.P., McNicol, K.L. (1985). A triplanar electrogoniometer investigation of running mechanics in runners with compensatory overpronation. *Canadian Journal of Applied Sports Science* 10, 104–15.
- Taunton, J.E., Ryan, M.B., Clement, D.B., McKenzie, D.C., Lloyd-Smith, D.R., Zumbo, B.D. (2002). A retrospective case-control analysis of 2002 running injuries. *British Journal of Sports Medicine* 36, 95–101.
- Taylor, C.R., Rowntree, V.J. (1973). Temperature regulation and heat balance in running cheetahs: A strategy for sprinters? *American Journal of Physiology* 224, 848–51.
- Taylor, H.L., Buskirk, E., Henschel, A. (1955). Maximal oxygen intake as an objective measure of cardio-respiratory performance. *Journal of Applied Physiology* 8, 73–80.
- Taylor, H.L., Henschel, A., Mickelsen, O., Keys, A. (1943). The effect of the sodium chloride intake on the work performance of man during exposure to dry heat and experimental heat exhaustion. *American Journal of Physiology* 140, 439–51.

- Taylor, H.R., West, S.K., Rosenthal, F.S., Munoz, B., Newland, H.S., Abbey, H., Emmett, E.A. (1988). Effect of ultraviolet radiation on cataract formation. *New England Journal of Medicine* 319, 1429–33.
- Taylor, R.R., Mamotte, C.D.S., Fallon, K., van Bockxmeer, F.M. (1999). Elite athletes and the gene for angiotensin-converting enzyme. *Journal of Applied Physiology* 87, 1035–37.
- Telford, R.D., Bunney, C.J., Catchpole, E.A., Catchpole, W.R., Deakin, V., Gray, B., Hahn, A.G., Kerr, D.A. (1992). Plasma ferritin concentration and physical work capacity in athletes. *International Journal of Sport Nutrition* 2, 335–42.
- Temple, C. (1980). *Cross Country and Road Running*. Stanley Paul, London.
- Temple, C. (1981). *Challenge of the Marathon*. Stanley Paul, London.
- Terblanche, S., Noakes, T.D., Dennis, S.C., Marais, DeW., Eckert, M. (1992). Failure of magnesium supplementation to influence marathon running performance or recovery in magnesium-replete subjects. *International Journal of Sport Nutrition* 2, 154–64.
- Terrados, N., Melichna, J., Sylven, C., Jansson, E., Kaijser, L. (1988). Effects of training at simulated altitude on performance and muscle metabolic capacity in competitive road cyclists. *European Journal of Applied Physiology* 57, 203–9.
- Terray, L. (1975). *Conquistadors of the Useless: From the Alps to Annapurna*. Gollancz, London.
- Testa, V., Capasso, G., Maffulli, N., Bifulco, G. (1999). Ultrasound-guided percutaneous longitudinal tenotomy for the management of patellar tendinopathy. *Medicine and Science in Sports and Exercise* 31, 1509–15.
- Thaxton, L. (1982). Physiological and psychological effects of short-term exercise addiction on habitual runners. *Journal of Sports Psychology* 4, 73–80.
- Theander, S. (1985). Outcome and prognosis in anorexia nervosa and bulimia. *Journal of Psychiatric Research* 19, 493–508.
- Thelle, D.S. (1996). Salt and blood pressure revisited. *British Medical Journal* 313, 1240.
- Thom, W. (1813). *Pedestrianism, or an Account of the Performance of Celebrated Pedestrians During the Last Century; With a Full Narrative of Captain Barclay's Public and Private Matches and an Essay on Training*. Brown and Frost, Aberdeen.
- Thomas, D.E., Brotherhood, J.R., Brand, J.C. (1991). Carbohydrate feeding before exercise: Effect of glycemic index. *International Journal of Sports Medicine* 12, 180–86.
- Thomas, D.E., Brotherhood, J.R., Miller, J.B. (1994). Plasma glucose levels after prolonged strenuous exercise correlate inversely with glycemic response to food consumed before exercise. *International Journal of Sport Nutrition* 4, 361–73.
- Thomis, M.A.I., Gaston, G.P., Beunen, P., Maes, H.H., Blimkie, C.J., van Leemputte, M., Claessens, A.L., Marchal, G., Willems, E., Vlietinck, R.F. (1998). Strength training: importance of genetic factors. *Medicine and Science in Sports and Exercise* 30, 724–31.
- Thompson, D.A., Wolfe, L.A., Eikelboom, R. (1988). Acute effects of exercise intensity on appetite in young men. *Medicine and Science in Sports and Exercise* 20, 222–27.
- Thompson, J.L., Manore, M.M., Skinner, J.S., Ravussin, E., Spraul, M. (1995). Daily energy expenditure in male endurance athletes with differing energy intakes. *Medicine and Science in Sports and Exercise* 27, 347–54.
- Thompson, P.D. (1982). Cardiovascular hazards of physical activity. In R.L. Terjung (Ed.), *Exercise and Sports Science Reviews*. Franklin Institute, Philadelphia. 208–35.
- Thompson, P.D., Funk, E.J., Carleton, R.A., Sturner, W.Q. (1982). Incidence of death during jogging in Rhode Island from 1975 to 1980. *Journal of the American Medical Association* 247, 2535–38.
- Thompson, P.D., Lazarus, B., Cullinane, E., Henderson, L.O., Musliner, T., Eshleman, R., Herbert, P.N. (1983). Exercise, diet, or physical characteristics as determinants of HDL-levels in endurance athletes. *Atherosclerosis* 46, 333–39.
- Thomson, H.L., Atherton, J.J., Khafagi, F.A., Frenneaux, M.P. (1996). Failure of reflex vasoconstriction during exercise in patients with vasovagal syncope. *Circulation* 93, 953–59.
- Thomson, H.L., Lele, S.S., Atherton, J.J., Wright, K.N., Stafford, W., Frenneaux, M.P. (1995). Abnormal forearm vascular responses during dynamic leg exercise in patients with vasovagal syncope. *Circulation* 92, 2204–9.
- Thomson, J.A., Green, H.J., Houston, M.E. (1979). Muscle glycogen depletion patterns in fast twitch fibre subgroups of man during submaximal and supramaximal exercise. *Pflügers Archives* 379, 105–8.
- Thong, F.S.L., Graham, T.E. (1999). Leptin and reproduction: Is it a critical link between adipose tissue, nutrition, and reproduction? *Canadian Journal of Applied Physiology* 24, 317–36.
- Thoreau, H.D. (1862). In *The Portable Thoreau* (1977), Penguin Books, New York.
- Thorland, W., Podolin, D.A., Mazzeo, R.S. (1994). Coincidence of lactate threshold and HR-power output threshold under varied nutritional states. *International Journal of Sports Medicine* 15, 301–4.
- Thorogood, M., Mann, J., Appleby, P., McPherson, K. (1994). Risk of death from cancer and ischaemic heart disease in meat and non-meat eaters. *British Medical Journal* 308, 1667–71.
- Thorstensson, A. (1986). Effects of moderate external loading on the aerobic demand of submaximal running in men and 10 year-old boys. *European Journal of Applied Physiology* 55, 569–74.
- Thun, M.J., Peto, R., Lopez, A.D., Monaco, J.H., Henley, S.J., Heath, C.W., Doll, R. (1997). Alcohol consumption and mortality among middle-aged and elderly U.S. adults. *New England Journal of Medicine* 337, 1705–14.
- Thune, I., Brenn, T., Lund, E., Gaard, M. (1997). Physical activity and the risk of breast cancer. *New England Journal of Medicine* 336, 1269–75.
- Thune, I., Lund, E. (1994). Physical activity and the risk of prostate and testicular cancer: A cohort study of 53,000 Norwegian men. *Cancer Causes Control* 5, 549–56.
- Thune, I., Lund, E. (1996). Physical activity and risk of colorectal cancer in men and women. *British Journal of Cancer* 73, 1134–40.
- Thune, I., Lund, E. (1997). The influence of physical activity on lung-cancer risk: A prospective study of 81,516 men and women. *International Journal of Cancer* 70, 57–62.

- Tiberi, M., Bohle, E., Zimmermann, E., Heck, H., Holmann, W. (1988). Comparative examination between Conconi and lactate threshold on the treadmill by middle distance runners. *International Journal of Sports Medicine* 9, 372.
- Tiidus, P.M. (1999). Massage and ultrasound as therapeutic modalities in exercise-induced muscle damage. *Canadian Journal of Applied Physiology* 24, 267–78.
- Tikkanen, H.O. (2001). The influence of skeletal muscle properties, physical activity and physical fitness on serum lipids and the risk of coronary heart disease. PhD thesis, University of Helsinki.
- Tikkanen, H.O., Hämmäläinen, E., Härkönen, M. (1999). Significance of skeletal muscle properties on fitness, long-term physical training and serum lipids. *Atherosclerosis* 142, 367–87.
- Tikkanen, H.O., Hämmäläinen, E., Sarna, S., Adlercreutz, H., Härkönen, M. (1998). Associations between skeletal muscle properties, physical fitness, physical activity and coronary heart disease risk factors in men. *Atherosclerosis* 137, 377–89.
- Tikkanen, H.O., Härkönen, M., Näveri, H., Hämmäläinen, E., Elovainio, R., Sarna, S., Frick, M.H. (1991). Relationship of skeletal muscle fiber type to serum high density lipoprotein cholesterol and apolipoprotein A-1 levels. *Atherosclerosis* 90, 49–57.
- Tikkanen, H.O., Näveri, H., Härkönen, M. (1996). Skeletal muscle fiber distribution influences serum high-density lipoprotein cholesterol level. *Atherosclerosis* 120, 1–5.
- Tin-May-Tham, Ma-Win-May, Khin-Sann-Aung, M., Mya-Tu, M. (1978). The effect of vitamin B12 on physical performance capacity. *British Journal of Nutrition* 40, 269–73.
- To, W.W., Wong, M.W., Chan, K.M. (1995). The effect of dance training on menstrual function in collegiate dancing students. *Australian and New Zealand Journal of Obstetrics and Gynaecology* 35, 304–9.
- Tobin, C. (1984). *New Zealand's Olympic Gold Miler*. McIndoe, Dunedin, New Zealand.
- Tokmakidis, S.P., Leger, L.A. (1992). Comparison of mathematically determined blood lactate and heart rate “threshold” points and relationship with performance. *European Journal of Applied Physiology* 64, 309–17.
- Tokmakidis, S.P., Volaklis, K.A. (2000). Pre-exercise glucose ingestion at different time periods and blood glucose concentration during exercise. *International Journal of Sports Medicine* 21, 453–57.
- Tomten, S.E., Falch, J.A., Birkeland, K.I., Hemmersbach, P., Høstmark, A.T. (1998). Bone mineral density and menstrual irregularities: A comparative study on cortical and trabecular bone structures in runners with alleged normal eating behavior. *International Journal of Sports Medicine* 19, 92–97.
- Tomten, S.E., Høstmark, A.T., Strømme, S.B. (1996). Exercise intensity: An important factor in the etiology of menstrual dysfunction? *Scandinavian Journal of Medicine and Science in Sports* 6, 329–36.
- Topp, R. (1989). Effect of relaxation or exercise on undergraduates' test anxiety. *Perceptive and Motor Skills* 69, 35–41.
- Town, G.P., Bradley, S.S. (1991). Maximal metabolic responses of deep and shallow water running in trained runners. *Medicine and Science in Sports and Exercise* 23, 238–41.
- Trappe, S.W., Costill, D.L., Goodpaster, B., Vukovich, M.D., Fink, W.J. (1994). The effects of L-carnitine supplementation on performance during interval swimming. *International Journal of Sports Medicine* 15, 181–85.
- Trappe, S.W., Costill, D.L., Vukovich, M.D., Jones, J., Melham, T. (1996). Aging among elite distance runners: A 22-yr longitudinal study. *Journal of Applied Physiology* 80, 285–90.
- Trason, A. (1998). Personal communication.
- Trason (2001). Personal communication to the author.
- Tremblay, A., Buemann, B. (1995). Exercise-training, macronutrient balance and body weight control. *International Journal of Obesity* 19, 79–86.
- Tremblay, A., Després, J.P., Bouchard, C. (1985). The effects of exercise-training on energy balance and adipose tissue morphology and metabolism. *Sports Medicine* 2, 223–33.
- Tremblay, A., Nadeau, A., Després, J.P., St.-Jean, L., Tériault, G., Bouchard, C. (1990). Long-term exercise training with constant energy intake. 2: Effect on glucose metabolism and resting energy expenditure. *International Journal of Obesity* 14, 75–84.
- Tremblay, A., Simoneau, J.-A., Bouchard, C. (1994). Impact of exercise intensity on body fatness and skeletal muscle metabolism. *Metabolism* 43, 814–18.
- Tremblay, M.S., Galloway, S.D., Sexsmith, J.R. (1994). Ergogenic effects of phosphate loading: Physiological fact or methodological fiction? *Canadian Journal of Applied Physiology* 19, 1–11.
- Treuth, M.S., Hunter, G.R., Williams, M. (1996). Effects of exercise intensity on 24-h energy expenditure and substrate oxidation. *Medicine and Science in Sports and Exercise* 28, 1138–43.
- Trichopoulou, A., Kouris-Blazos, A., Wahlqvist, M.L., Gnardellis, C., Lagiou, P., Polychronopoulos, E., Vassilakou, T., Lipworth, L. (1995). Diet and overall survival in elderly people. *British Medical Journal* 311, 1457–60.
- Trygstad, O., Foss, I., Edminson, P.D., Johansen, J.H., Reichelt, K.L. (1978). Humoral control of appetite: A urinary anorexigenic peptide. Chromatographic patterns of urinary peptides in anorexia nervosa. *Acta Endocrinologica* 89, 196–208.
- Tse, H.-F., Lau, C.-P. (1995). Exercise-associated cardiac asystole in persons without structural heart disease. *Chest* 107, 572–76.
- Tsintzas, O.K., Liu, R., Williams, C., Campbell, I., Gaitanos, G. (1993). The effect of carbohydrate ingestion on performance during a 30-km race. *International Journal of Sport Nutrition* 3, 127–39.
- Tsintzas, O.-K., Williams, C., Boobis, L., Greenhaff, P. (1995a). Carbohydrate ingestion and glycogen utilization in different fibre types in man. *Journal of Physiology* 15, 243–50.
- Tsintzas, O.-K., Williams, C., Boobis, L., Greenhaff, P. (1996a). Carbohydrate ingestion and single muscle fiber glycogen metabolism during prolonged running in men. *Journal of Applied Physiology* 81, 801–9.
- Tsintzas, O.-K., Williams, C., Singh, R., Wilson, W., Burrin, J. (1995b). Influence of carbohydrate-electrolyte drinks on marathon running performance. *European Journal of Applied Physiology* 70, 154–60.

- Tsintzas, O.-K., Williams, C., Wilson, W., Burrin, J. (1996b). Influence of carbohydrate supplementation early in exercise on endurance running capacity. *Medicine and Science in Sports and Exercise* 28, 1373–79.
- Tucker, A., Stager, J.M., Cordain, L. (1984). Arterial O<sub>2</sub> saturation and maximum O<sub>2</sub> consumption in moderate-altitude runners exposed to sea level and 3,050m. *Journal of the American Medical Association* 252, 2867–71.
- Tuomainen, T.P., Kontula, K., Nyyssonen, K., Lakka, T.A., Helio, T., Salonen, J.T. (1999). Increased risk of acute myocardial infarction in carriers of the hemochromatosis gene Cys282Tyr mutation: A prospective cohort study in men in eastern Finland. *Circulation* 100, 1274–79.
- Turcotte, L.P., Swenberger, J.R., Tucker, M.Z., Yee, A.J. (1999). Training-induced elevation in FABPPM is associated with increased palmitate use in contracting muscle. *Journal of Applied Physiology* 87, 285–93.
- Turnbull, A. (1989). The race for a better running shoe. *New Scientist* 15 (July), 42–44.
- Turnbull, R. (1985). Turnbull and Temane: The team triumphant. *South African Runner* (November), 26–27.
- Tutko, T., Tosi, U. (1976). *Sports Psychology: Playing Your Best Game All of the Time*. Putnam Book, New York.
- Twisk, J.W., van Mechelen, W., Kemper, H.C., Post, G.B. (1997). The relation between long-term exposure to lifestyle during youth and young adulthood and risk factors for cardiovascular disease at adult age. *Journal of Adolescent Health* 20, 309–19.
- Twisk, J.W.R., Kemper, H.C.G., Mellenbergh, G.J., van Mechelen, W. (1996). Relation between the longitudinal development of lipoprotein levels and biological parameters during adolescence and young adulthood in Amsterdam, The Netherlands. *Journal of Epidemiology and Community Health* 50, 505–11.
- Ulbright, T.L.V., Southgate, D.A.T. (1991). Coronary heart disease: Seven dietary factors. *Lancet* 338, 985–92.
- Ulyot, J. (1976). Women's secret weapon. In E. Van Aaken (Ed.), *Van Aaken Method*. Anderson World, Mountain View, CA.
- Ulrich, C.M., Georgiou, C.C., Snow-Harter, C.M., Gillis, D.E. (1996). Bone mineral density in mother-daughter pairs: Relations to lifetime exercise, lifetime milk consumption, and calcium supplements. *American Journal of Clinical Nutrition* 63, 72–79.
- United Kingdom Testicular Cancer Study Group. (1994). Aetiology of testicular cancer: Association with congenital abnormalities, puberty, infertility, and exercise. *British Medical Journal* 308, 1393–99.
- Uram, P. (1980). *The Complete Stretching Book*. Anderson World, Mountain View, CA.
- Urhausen, A., Gabriel, H.H.W., Kindemann, W. (1998). Impaired pituitary hormonal response to exhaustive exercise in overtrained endurance athletes. *Medicine and Science in Sports and Exercise* 30, 407–14.
- Urhausen, A., Kullmer, T., Kindermann, W. (1987). A 7-week follow-up study of the behaviour of testosterone and cortisol during the competition period in rowers. *European Journal of Applied Physiology* 56, 528–33.
- Utter, A., Kang, J., Nieman, D., Warren, B. (1997). Effect of carbohydrate substrate availability on ratings of perceived exertion during prolonged running. *International Journal of Sports Nutrition* 7, 274–85.
- Uusitalo, A. (1998). Ability of non-invasive and invasive methods of autonomic function measurements and stress hormones to indicate endurance training-induced stress. Thesis, Acta Universitatis Tampereensis 621, TAJU University of Tampere, Finland.
- Vachon, J.A., Bassett, D.R., Clarke, S. (1999). Validity of the heart rate deflection point as a predictor of lactate threshold during running. *Journal of Applied Physiology* 87, 452–59.
- Vaitkevicius, P.V., Fleg, J.L., Engel, J.H., O'Connor, F.C., Wright, J.G., Lakaatta, L.E., Yin, F.C., Laketta, E.G. (1993). Effects of age and aerobic capacity on arterial stiffness in healthy adults. *Circulation* 88, 1456–62.
- Välimäki, M.J., Kärkkäinen, M., Lamberg-Allardt, C., Laitinen, J., Alhava, E., Heikkinen, J., Impivaara, O., Mäkelä, P., Palmgren, J., Seppänen, R., et al. (1994). Exercise, smoking, and calcium intake during adolescence and early adulthood as determinants of peak bone mass: Cardiovascular Risk in Young Finns Study Group. *British Medical Journal* 309, 230–35.
- Van Aaken, E. (1976). *Van Aaken Method*. Anderson World, Mountain View, CA.
- Van den Bergh, M.F., DeMan, S.A., Witteman, J.C., Hofman, A., Trouerbach, W.T., Grobbee, D.E. (1995). Physical activity, calcium intake, and bone mineral content in children in the Netherlands. *Journal of Epidemiology and Community Health* 49, 299–304.
- Van den Burg, P.J.M., Hospers, J.E.H., van Vliet, M., Mosterd, W.L., Bouma, B.N., Huisveld, I.A. (1997). Effect of endurance training and seasonal fluctuation on coagulation and fibrinolysis in young sedentary men. *Journal of Applied Physiology* 82, 613–20.
- Van den Burg, P.J.M., Hospers, J.E.H., van Vliet, M., Mosterd, W.L., Huisveld, I.A. (1995). Unbalanced haemostatic changes following strenuous physical exercise: A study in young sedentary males. *European Heart Journal* 16, 1995–2001.
- Van der Beek, E.J. (1985). Vitamins and endurance training: Food for running or faddish claims? *Sports Medicine* 2, 175–97.
- Van der Beek, E.J., van Dokkum, W., Schrijver, J., Wesstra, J.A., van Weerd, H., Hermus, R.J.J. (1984). Effect of marginal vitamin intake on physical performance of man. *International Journal of Sports Medicine* 5 (Suppl), 28–31.
- Van der Merwe, F. (1990). Frith's winning ways. *Femina* (January), 38–40.
- Van der Merwe, F.J.G. (1987). Britse invloed op atletiek in die Wes-Kaap tot 1932. Ongepubliseerde, M.A. (geskiedenis)—verhandeling, Universiteit van Stellenbosch.
- Van der Merwe, P.J., Luus, H.G., Barnard, J.G. (1992). Caffeine in sport: Influence of endurance exercise on the urinary caffeine concentration. *International Journal of Sports Medicine* 13, 74–76.
- Van der Walt, T.S.P., Turnbull, R.C. (1985). Lower limb muscle volumes of South African middle and long distance runners. *South African Journal of Sport Science, Physical Education and Recreation* 8, 17–22.
- Van Erp-Baart, A.M.J., Saris, W.H.M., Binkhorst, R.A., Vos, J.A., Elvers, J.W.H. (1989a). Nationwide survey on nutritional habits in elite athletes: Part I. Energy, carbohydrate, protein, and fat intake. *International Journal of Sports Medicine* 10 (Suppl 1), S3–10.

- Van Erp-Baart, A.M.J., Saris, W.H.M., Binkhorst, R.A., Vos, J.A., Elvers, J.W.H. (1989b). Nationwide survey on nutritional habits in elite athletes: Part II. Mineral and vitamin intake. *International Journal of Sports Medicine* 10 (Suppl 1), S11–16.
- Van Gend, M.A., Noakes, T.D. (1987). Menstrual patterns of ultramarathon runners. *South African Medical Journal* 72, 788–93.
- Van Handel, P.J., Fink, W.J., Branam, G., Costill, D.L. (1980). Fate of 14C glucose ingested during prolonged exercise. *International Journal of Sports Medicine* 1, 127–31.
- Vanhees, L., Fagard, R., Thijs, L., Staessen, J., Amery, A. (1994). Prognostic significance of peak exercise capacity in patients with coronary artery disease. *Journal of the American College of Cardiology* 23, 358–63.
- Van Lenthe, F.J., Kemper, H.C.G., van Mechelen, W. (1996). Rapid maturation in adolescence results in greater obesity in adulthood: The Amsterdam Growth and Health Study. *American Journal of Clinical Nutrition* 64, 18–24.
- Van Loon, L.J.C., Greenhaff, P.L., Constantin-Teodosiu, D., Saris, W.H.M., Wagenmakers, A.J.M. (2001). The effects of increasing exercise intensity on muscle fuel utilisation in humans. *Journal of Physiology* 536 (Oct), 295–304.
- Van Loon, L.J.C., Jeukendrup, A.E., Saris, W.H.M., Wagenmakers, A.J.M. (1999). Effect of training status on fuel selection during submaximal exercise with glucose ingestion. *Journal of Applied Physiology* 87, 1413–20.
- Van Loon, L.J.C., Saris, W.H.M., Kruijshoop, M., Wagenmakers, A.J.M. (2000). Maximising post-exercise muscle glycogen synthesis: Carbohydrate supplementation and the application of amino acid and protein hydrolysate mixtures. *American Journal of Clinical Nutrition* 72, 106–11.
- Van Mechelen, W. (1992). *Aetiology and Prevention of Running Injuries*. Proefschrift Vrije Universiteit Amsterdam.
- Van Mechelen, W., Hlobil, H., Kemper, H.C.G., Voorn, W.J., de Jongh, H.R. (1993). Prevention of running injuries by warm-up, cool-down, and stretching exercises. *American Journal of Sports Medicine* 21, 711–19.
- Van Nieuwenhoven, M. (1999). *Gastro-Intestinal Function During Physical Exercise: Basic and Applied Research*. Datatype/Universitaire, Peers Maastricht.
- Van Pelt, R.E., Jones, P.P., Davy, K.P., Desouza, C.A., Tanaka, H., Davy, B.M., Seals, D.R. (1997). Regular exercise and the age-related decline in resting metabolic rate in women. *Journal of Clinical Endocrinology and Metabolism* 82, 3208–12.
- Van Rensburg, J.P., Van der Walt, W.H., Van der Linde, A., Kielblock, A.J., Strydom, N.B. (1982). Lead absorption in distance runners exposed to motor vehicle exhaust fumes. *South African Journal for Research in Sport, Physical Education and Recreation* 5, 21–44.
- Van Soeren, M.H., Graham, T.E. (1998). Effect of caffeine on metabolism, exercise endurance, and catecholamine responses after withdrawal. *Journal of Applied Physiology* 85, 1493–501.
- Van Someren, K., Fulcher, K., McCarthy, J., Moore, J., Horgan, G., Langford, R. (1998). An investigation into the effects of sodium citrate ingestion on high-intensity exercise performance. *International Journal of Sport Nutrition* 8, 356–63.
- Van Zyl, C.G., Lambert, E.V., Hawley, J.A., Noakes, T.D., Dennis, S.C. (1996). Effects of medium-chain triglyceride ingestion on carbohydrate metabolism and endurance cycling performance. *Journal of Applied Physiology* 80, 2217–25.
- Varrassi, G., Bazzano, C., Edwards, W.T. (1989). Effects of physical activity on maternal plasma beta-endorphin levels and perception of labor pain. *American Journal of Obstetrics and Gynecology* 160, 707–12.
- Vasankari, T.J., Kujala, U.M., Vasankari, T.M., Ahotupa, M. (1998). Reduced oxidized LDL levels after a 10-month exercise program. *Medicine and Science in Sports and Exercise* 30, 1496–501.
- Veille, J.-C., Hohimer, A.R., Burry, K., Speroff, L. (1985). The effect of exercise on uterine activity in the last eight weeks of pregnancy. *American Journal of Obstetrics and Gynaecology* 151, 727–30.
- Vellar, O.D. (1968). Studies of sweat losses of nutrients. *Scandinavian Journal of Clinical and Laboratory Investigation* 21, 157–67.
- Vellozo, P.E. (1996). The effect of branched-chain amino acid ingestion on physical performance during prolonged exercise. MSc thesis. University of Cape Town, South Africa.
- Vena, J.E., Graham, S., Zielezny, M., Swanson, M.K., Barnes, R.E., Nolan, J. (1985). Life time occupational exercise and colon cancer. *American Journal of Epidemiology* 122, 357–65.
- Venkatraman, J.T., Leddy, J., Pendergast, D. (2000). Dietary fats and immune status in athletes: Clinical implications. *Medicine and Science in Sports and Exercise* 32 (Suppl), S389–95.
- Venkatraman, J.T., Rowland, J.A., Denardin, E., Horvath, P.J., Pendergast, D. (1997). Influence of the level of dietary lipid intake and maximal exercise on the immune status in runners. *Medicine and Science in Sports and Exercise* 29, 333–44.
- Verde, T., Shephard, R.J., Corey, P., Moore, R. (1982). Sweat composition in exercise and in heat. *Journal of Applied Physiology* 53, 1540–45.
- Videman, T. (1982). The effect of running on the osteoarthritic joint: An experimental match-pair study with rabbits. *Rheumatology and Rehabilitation* 21, 1–8.
- Videman, T., Battié, M.C., Gibbons, L.E., Manninen, H., Gill, K., Fisher, L.D., Koskenvuo, M. (1997). Lifetime exercise and disk degeneration: an MRI study of monozygotic twins. *Medicine and Science in Sports and Exercise* 29, 1350–56.
- Videman, T., Forsythe, K. (2000). The ethics of not testing in athletic competition. *Medicine and Science in Sports and Exercise* 32, 1361–62.
- Videman, T., Sarna, S., Battié, Koskinen, S., Gill, K., Paananen, H., Gibbons, L. (1995). The long-term effects of physical loading and exercise lifestyles on back-related symptoms, disability, and spinal pathology among men. *Spine* 20, 699–709.
- Viitasalo, J.T., Kvist, M. (1983). Some biomechanical aspects of the foot and ankle in athletes with and without shinsplints. *American Journal of Sports Medicine* 11, 125–30.
- Vingård, E., Alfredsson, L., Goldie, I., Hogstedt, C. (1993). Sports and osteo-arthritis of the hip: An epidemiologic study. *American Journal of Sports Medicine* 21, 195–200.

- Virtanen, J.O. (1989). *Paavo Nurmi: Legendary King of Runners*. Published by the author, Turku, Finland. Also published in P. Karikko, M. Koski (Eds.), as *Yksin Aikaa Vastaan*. Weilin and Göös, Helsinki.
- Vist, G.E., Maughan, R.J. (1994). Gastric emptying of ingested solutions in man: Effect of beverage glucose concentration. *Medicine and Science in Sports and Exercise* 26, 1269–73.
- Vist, G.E., Maughan, R.J. (1995). The effect of osmolality and carbohydrate content on the rate of gastric emptying of liquids in man. *Journal of Physiology* 486, 523–31.
- Vita, A.J., Terry, R.B., Hubert, H.B., Fries, J.F. (1998). Aging, health risks, and cumulative disability. *New England Journal of Medicine* 338, 1035–41.
- Vita, J.A., Keaney, J.F. (2000). Exercise: Toning up the endothelium? *New England Journal of Medicine* 342, 503–5.
- Viti, A., Muscetolla, M., Paulesu, L., Bocchi, V., Almi, A. (1985). Effect of exercise on plasma interferon levels. *Journal of Applied Physiology* 59, 426–28.
- Vitting, K.E., Nichols, N.J., Seligson, G.R. (1986). Naproxen and acute renal failure in a runner. *Annals of Internal Medicine* 105, 144.
- Voet, W. (1999). *Breaking the Chain*. Calmann-Levy, Paris.
- Volek, J.S., Duncan, N.D., Mazzetti, S.A., Staron, R.S., Putukian, M., Gómez, A.L., Pearson, D.R., Fink, W.J., Kraemer, W.J. (1999). Performance and muscle fiber adaptations to creatine supplementation and heavy resistance training. *Medicine and Science in Sports and Exercise* 31, 1147–56.
- Vollestad, N.K., Blom, P.C.S. (1985). Effect of varying exercise intensity on glycogen depletion in human muscle fibres. *Acta Physiologica Scandinavica* 125, 395–405.
- Voloshin, A., Wosk, J. (1982). An in vivo study of low back pain and shock absorption in the human locomotor system. *Journal of Biomechanics* 15, 21–27.
- Volpin, G., Milgrom, C., Goldsher, D., Stein, H. (1989). Stress fractures of the sacrum following strenuous activity. *Clinical Orthopaedics* 243, 184–88.
- Voorrips, L.E., Meijers, J.H., Sol, P., Seidell, J.C., van Staveren, W.A. (1992). History of body weight and physical activity of elderly women differing in current physical activity. *International Journal of Obesity* 16, 199–205.
- Vrijens, D.M., Rehrer, N.J. (1999). Sodium free fluid ingestion decreases plasma sodium during exercise in the heat. *Journal of Applied Physiology* 86, 1847–51.
- Vukovich, M.D., Costill, D.L., Fink, W.J. (1994). Carnitine supplementation: effect on muscle carnitine and glycogen content during exercise. *Medicine and Science in Sports and Exercise* 26, 1122–29.
- Vukovich, M.D., Costill, D.L., Hickey, M.S., Trappe, S.W., Cole, K.J., Fink, W.J. (1993). Effect of fat emulsion infusion and fat feeding on muscle glycogen utilization during cycling exercise. *Journal of Applied Physiology* 75, 1514–18.
- Vuori, I., Makarainen, M., Jaaskelainen, A. (1978). Sudden death and physical activity. *Cardiology* 63, 287–304.
- Wade, A.J., Marbut, M.M., Round, J.M. (1990). Muscle fibre type and aetiology of obesity. *Lancet* 335, 805–08.
- Wagemakers, A.J.M., Brouns, F., Saris, W.H.M., Halliday, D. (1993). Oxidation rates of orally ingested carbohydrates during prolonged exercise in men. *Journal of Applied Physiology* 75, 2774–80.
- Wagner, P.D. (2000). New ideas on limitations to  $\text{VO}_2\text{max}$ . *Exercise and Sport Science Reviews* 28, 10–14.
- Wahlquist, M.L., Lo, C.S., Myers, K.A. (1989). Fish intake and arterial wall characteristics in healthy people and diabetic patients. *Lancet* 2, 944–46.
- Wahrenberg, H., Engfeldt, P., Bolinder, J., Arner, P. (1987). Acute adaptation in adrenergic control of lipolysis during physical exercise in humans. *American Journal of Physiology* 253, E383–90.
- Waitz, G., Averbuch, G. (1986). *Grete Waitz: World Class*. Warner Books, New York.
- Wakat, D.K., Sweeney, K.A., Rogol, A.D. (1982). Reproductive system function in women cross-country runners. *Medicine and Science in Sports and Exercise* 14, 263–69.
- Walberg, J.L., Johnston, C.S. (1991). Menstrual function and eating behavior in female recreational weight lifters and competitive body builders. *Medicine and Science in Sports and Exercise* 23, 30–36.
- Wald, G., Brouha, L., Johnson, R. (1942). Experimental human vitamin A deficiency and ability to perform muscular exercise. *American Journal of Physiology* 137, 551–56.
- Walker, J. (1988). Mile mannered. *Runner's World* 23 (February), 29.
- Walker, J.L., Heigenhauser, J.F., Hultman, E., Spriet, L.L. (2000). Dietary carbohydrate, muscle glycogen content, and endurance performance in well-trained women. *Journal of Applied Physiology* 88, 2151–58.
- Walker, R.J., Fawcett, J.P., Flannery, E.M., Gerrard, D.F. (1994). Indomethacin potentiates exercise-induced reduction in renal hemodynamics in athletes. *Medicine and Science in Sports and Exercise* 26, 1302–6.
- Wallace, J.P., Inbar, G., Ernsthansen, K. (1992). Infant acceptance of postexercise breast milk. *Pediatrics* 89, 1245–47.
- Wallensten, R. (1983). Results of fasciotomy in patients with medial tibial syndrome or chronic anterior-compartment syndrome. *Journal of Bone and Joint Surgery* 65A, 1252–55.
- Wallensten, R., Eriksson, E. (1984). Intramuscular pressures in exercise-induced lower leg pain. *International Journal of Sports Medicine* 5, 31–35.
- Wallin, D., Ekblom, B., Grahn, R., Nordenborg, T. (1985). Improvement of muscle flexibility: A comparison of two techniques. *American Journal of Sports Medicine* 13, 263–68.
- Walsh, R.M., Noakes, T.D., Hawley, J.A., Dennis, S.C. (1994). Low levels of dehydration impair exercise performance. *International Journal of Sports Medicine* 15, 392–98.
- Walter, S.D., Hart, L.E., McIntosh, J.M., Sutton, J.R. (1989). The Ontario cohort study of running-related injuries. *Archives of Internal Medicine* 149, 2561–64.
- Walters, T.J., Ryan, K.L., Tate, L.M., Mason, P.A. (2000). Exercise in the heat is limited by a critical internal temperature. *Journal of Applied Physiology* 89, 799–806.
- Walther, R.J., Tiff, C.P. (1985). High blood pressure in the competitive athlete: Guidelines and recommendations. *Physician and Sportsmedicine* 13 (May), 92–114.
- Wang, J., Wolin, M.S., Hintze, T.H. (1993). Chronic exercise enhances endothelium-mediated dilation of epicardial coronary artery in conscious dogs. *Circulation Research* 73, 829–38.

- Wang, J.S., Jen, C.J., Kung, H.C., Lin, L.J., Hsiue, T.R., Chen, H.I. (1994). Different effects of strenuous exercise and moderate exercise on platelet function in men. *Circulation* 90, 2877–85.
- Wannamethee, G., Shaper, A.G. (1989). Body weight and mortality in middle aged British men: Impact of smoking. *British Medical Journal* 299, 1497–504.
- Wannamethee, G., Shaper, A.G. (1992). Physical activity and stroke in British middle aged men. *British Medical Journal* 304, 597–601.
- Wannamethee, G., Shaper, A.G., Macfarlane, P.W. (1993). Heart rate, physical activity, and mortality from cancer and other noncardiovascular diseases. *American Journal of Epidemiology* 137, 735–48.
- Ward, A. (1964). *Modern Distance Training*. Stanley Paul, London.
- Ward, T. (1989). The man from the Rift Valley. *Athletics Today*, 21–23.
- Ward-Smith, A.J. (1986). Altitude and wind effects on long jump performance with particular reference to the world record established by Bob Beamon. *Journal of Sports Sciences* 4, 89–99.
- Warhol, M.J., Siegel, A.J., Evans, W.J., Silverman, L.M. (1985). Skeletal muscle injury and repair in marathon runners after competition. *American Journal of Pathology* 118, 331–39.
- Warren, B.L. (1984). Anatomical factors associated with predicting plantar fasciitis in long-distance runners. *Medicine and Science in Sports and Exercise* 16, 60–63.
- Warren, B.L., Jones, C.J. (1987). Predicting plantar fasciitis in runners. *Medicine and Science in Sports and Exercise* 19, 71–73.
- Warren, M.P. (1992). Amenorrhea in endurance runners. *Journal of Clinical Endocrinology and Metabolism* 75, 1393–97.
- Warren, M.P., Brooks-Gunn, J., Hamilton, L.H., Warren, L.F., Hamilton, W.G. (1986). Scoliosis and fractures in young ballet dancers: Relation to delayed menarche and secondary amenorrhea. *New England Journal of Medicine* 314, 1348–53.
- Washburn, R.A., Seals, D.R. (1984). Peak oxygen uptake during arm cranking for men and women. *Journal of Applied Physiology* 56, 954–57.
- Watkin, V.A., Myburgh, K.H., Noakes, T.D. (1991). Low nutrient intake does not cause the menstrual cycle interval disturbances seen in some ultramarathon runners. *Clinical Journal of Sport Medicine* 1, 154–61.
- Watt, M.J., Febbraio, M.A., Garnham, A.P., Hargreaves, M. (1999). Acute plasma volume expansion: Effect on metabolism during submaximal exercise. *Journal of Applied Physiology* 87, 1202–6.
- Watts, E.J., Weir, P. (1989). Reduced platelet aggregation in long-distance runners. *Lancet* i, 1013.
- Watts, G.F., Lewis, B., Brunt, J.N.H., Lewis, E.S., Coltart, D.J., Smith, L.D., Mann, J.I., Swan, A.V. (1992). Effects of coronary artery disease of lipid-lowering diet, or diet plus cholestyramine in the St. Thomas' Atherosclerosis Regression Study (STARS). *Lancet* 339, 563–69.
- Weathers, B., Michaud, S.C. (2000). *Left for Dead: My Journey Home From Everest*. Little, Brown, London.
- Webb, J.L., Proctor, A.J. (1983). Anthropometric, training and menstrual differences in three groups of American collegiate female runners. *Journal of Sports Medicine and Physical Fitness* 23, 201–9.
- Webster, F.A.M. (1948). *Why? The Science of Athletics*. Nicholas Kaye, London.
- Webster, M.J. (1998). Physiological and performance responses to supplementation with thiamin and pantothenic acid derivatives. *European Journal of Applied Physiology* 77, 486–91.
- Wei, M., Kampert, J.B., Barlow, C.E., Nichauman, M.Z., Gibbons, L.W., Paffenbarger, R.S., Blair, S.N. (1999). Relationship between low cardiorespiratory fitness and mortality in normal-weight, overweight, and obese men. *Journal of the American Medical Association* 282, 1547–53.
- Weight, L. (1998). Experiences with age. *Runner's World (South Africa)* (January).
- Weight, L., Noakes, T.D. (1987). Is running an analogue of anorexia? A survey of eating disorders in female distance runners. *Medicine and Science in Sports and Exercise* 19, 213–17.
- Weight, L.M., Bryne, M.J., Jacobs, P. (1991). Haemolytic effects of exercise. *Clinical Science* 81, 147–52.
- Weight, L.M., Darge, B.L., Jacobs, P. (1991). Athletes' pseudoanaemia. *European Journal of Applied Physiology* 62, 358–62.
- Weight, L.M., Myburgh, K.H., Noakes, T.D. (1988). Vitamin and mineral supplementation: Effect on the running performance of trained athletes. *American Journal of Clinical Nutrition* 47, 192–95.
- Weight, L.M., Noakes, T.D. (1993). Physical activity and iron metabolism. In C. Bouchard, R.J. Shephard, T. Stephens (Eds.), *Physical Activity, Fitness and Health*. Human Kinetics, Champaign, IL, 456–70.
- Weight, L.M., Noakes, T.D., Labadarios, D., Graves, J., Jacobs, P., Berman, P.A. (1988). Vitamin and mineral status of trained athletes including the effects of supplementation. *American Journal of Clinical Nutrition* 47, 186–91.
- Weiler-Ravell, D., Shupak, A., Goldenberg, I., Halpern, P., Shoshani, O., Hirschhorn, G., Margulis, A. (1995). Pulmonary oedema and haemoptysis induced by strenuous swimming. *British Medical Journal* 311, 361–62.
- Weimann, E., Blum, W.F., Wizel, C., Schwidrigall, S., Bohles, H.J. (1999). Hypoleptinemia in female and male elite gymnasts. *European Journal of Clinical Investigation* 29, 853–60.
- Weinsier, R.L., Hunter, G.R., Heini, A.F., Goran, M.I., Sell, S.M. (1998). The etiology of obesity: Relative contribution of metabolic factors, diet, and physical activity. *American Journal of Medicine* 105, 145–50.
- Weir, J., Noakes, T.D., Myburgh, K., Adams, B. (1987). A high carbohydrate diet negates the metabolic effects of caffeine. *Medicine and Science in Sports and Exercise* 19, 100–5.
- Weller, E., Bachert, P., Meinck, H.-M., Friedmann, B., Bärtsch, P., Mairbörl, H. (1998). Lack of effect of oral Mg-supplementation on Mg in serum, blood cells, and calf muscle. *Medicine and Science in Sports and Exercise* 30, 1584–91.
- Wells, A.S., Read, N.W., Laugharne, D.E., Ahluwalia, N.S. (1998). Alterations in mood after changing to a low-fat diet. *British Journal of Nutrition* 79, 23–30.

- Wells, C.L. (1991). *Women, Sport and Performance: A Physiological Perspective* (2nd ed.). Human Kinetics, Champaign, IL.
- Wells, C.L., Hecht, L.H., Krahenbuhl, G.S. (1981). Physical characteristics and oxygen utilization of male and female marathon runners. *Research Quarterly* 52, 281–85.
- Wells, C.L., Plowman, S.A. (1983). Sexual differences in athletic performance: Biological or behavioural. *Physician and Sportsmedicine* 11 (August), 52–63.
- Weltan, S.M., Bosch, A.N., Dennis, S.C., Noakes, T.D. (1998a). Influence of muscle glycogen content on metabolic regulation. *American Journal of Physiology* 274, E72–82.
- Weltan, S.M., Bosch, A.N., Dennis, S.C., Noakes, T.D. (1998b). Preexercise muscle glycogen content affects metabolism during exercise despite maintenance of hyperglycemia. *American Journal of Physiology* 274, E83–88.
- Welten, D.C., Kemper, H.C.G., Post, G.B., Van Mechelen, W., Twisk, J., Lips, P., Teule, G.J. (1994). Weight-bearing activity during youth is a more important factor for peak bone mass than calcium intake. *Journal of Bone and Mineral Research* 9, 1089–96.
- Wemple, R.D., Lamb, D.R., McKeever, K.H. (1997). Caffeine vs caffeine-free sports drinks: Effects on urine production at rest and during prolonged exercise. *International Journal of Sports Medicine* 18, 40–46.
- Wemple, R.D., Morocco, T.S., Mack, G.W. (1997). Influence of sodium replacement on fluid ingestion following exercise-induced dehydration. *International Journal of Sport Nutrition* 7, 104–16.
- Wen, D.Y., Puffer, J.C., Schmalzried, T.P. (1997). Lower extremity alignment and risk of overuse injuries in runners. *Medicine and Science in Sports and Exercise* 29, 1291–98.
- Wennerberg, C. (1974). *Wind, Waves and Sunburn: The Book of Swimming and Swimmers*. Barnes, Cranbury, NJ.
- Wentz, A.C. (1980). Body weight and amenorrhea. *Obstetrics and Gynecology* 56, 482–87.
- Wesslén, L., Pålsson, C., Lindquist, O., Hjelm, E., Gnarpe, J., Larsson, E., Baandrup, U., Eriksson, L., Fohlman, J., Engstrand, L., Linglöf, T., Nyström-Rosander, C., Gnarpe, H., Magnus, L., Rolf, C., Friman, G. (1996). An increase in sudden unexpected cardiac deaths among young Swedish orienteers during 1979–1992. *European Heart Journal* 17, 902–10.
- West, J.B., Boyer, J.J., Graber, D.J., Hackett, P.H., Maret, K.H., Milledge, J.S., Peters, R.M., Pizzo, C.T., Samaja, M., Sarnquist, F.H., Schoene, R.B., Winslow, R.M. (1983). Maximal exercise at extreme altitudes on Mount Everest. *Journal of Applied Physiology* 55, 688–98.
- West, J.B., Hackett, P.H., Maret, K.H., Milledge, J.S., Peters, R.M., Pizzo, C.T., Winslow, R.M. (1983). Pulmonary gas exchange on the summit of Mount Everest. *Journal of Applied Physiology* 55, 678–87.
- Westgarth-Taylor, C., Hawley, J.A., Rickard, S., Myburgh, K.H., Noakes, T.D., Dennis, S.C. (1997). Metabolic and performance adaptations to interval training in endurance-trained cyclists. *European Journal of Applied Physiology* 75, 298–304.
- Weston, A.R., Karamizrak, O., Smith, A., Noakes, T.D., Myburgh, K.H. (1999). African runners exhibit greater fatigue resistance, lower lactate accumulation, and higher oxidative enzyme activity. *Journal of Applied Physiology* 86, 915–23.
- Weston, A.R., Mbambo, Z., Myburgh, K.H. (2000). Running economy of African and Caucasian distance runners. *Medicine and Science in Sports and Exercise* 32, 1130–34.
- Weston, A.R., Myburgh, K.H., Lindsay, F.H., Dennis, S.C., Noakes, T.D., Hawley, J.A. (1997). Skeletal muscle buffering capacity and endurance performance after high-intensity interval training by well-trained cyclists. *European Journal of Applied Physiology* 75, 7–13.
- Weston, A.R., Wilson, G.R., Noakes, T.D., Myburgh, K.H. (1996). Skeletal muscle buffering capacity is higher in the superficial vastus than in the soleus of spontaneously running rats. *Acta Physiologica Scandinavica* 157, 211–16.
- Weyerer, S. (1992). Physical inactivity and depression in the community: Evidence from the Upper Bavarian Field Study. *International Journal of Sports Medicine* 13, 492–96.
- Weyerer, S., Kupfer, B. (1994). Physical exercise and psychological health. *Sports Medicine* 17, 108–16.
- Whatley, J.E., Gillespie, W.J., Honig, J., Walsh, M.J., Blackburn, A.L., Blackburn, G.L. (1994). Does the amount of endurance exercise in combination with weight training and a very-low-energy diet affect resting metabolic rate and body composition? *American Journal of Clinical Nutrition* 59, 1088–92.
- Wheeler, G.D., Singh, M., Pierce, W.D., Epling, W.F., Cumming, D.C. (1991). Endurance training decreases serum testosterone levels in men without change in luteinizing hormone pulsatile release. *Journal of Clinical Endocrinology and Metabolism* 72, 422–25.
- Wheeler, G.D., Wall, S.R., Belcastro, A.H., Cumming, D.C. (1984). Reduced serum testosterone and prolactin levels in male marathon runners. *Journal of the American Medical Association* 252, 514–16.
- Whipp, B.J., Ward, S.A. (1992). Will women soon outrun men? *Nature* 355, 25.
- White, J.R., Case, D.A., McWhirter, D., Mattison, A.M. (1990). Enhanced sexual behavior in exercising men. *Archives of Sexual Behavior* 19, 193–209.
- Whitley, H.A., Humphreys, S.M., Campbell, I.T., Keegan, M.A., Jayanetti, T.D., Sperry, D.A., MacLaren, D.P., Reilly, T., Frayn, K.N. (1998). Metabolic and performance responses during endurance exercise after high-fat and high-carbohydrate meals. *Journal of Applied Physiology* 85, 418–24.
- Whittemore, A.S., Wu-Williams, A.H., Lee, M., Zheng, S., Gallagher, R.P., Jiao, D.A., Zhou, L., Wang, X.H., Chen, K., Jung, D., et al. (1990). Diet, physical activity, and colorectal cancer among Chinese in North America and China. *Journal of the National Cancer Institute* 82, 915–26.
- Whittle, J. (1999). *Yellow Fever: The Dark Heart of the Tour de France*. Headline Book, London.
- Wickham, C.A., Walsh, K., Cooper, C., Barker, D.J., Margetts, B.M., Morris, J., Bruce, S.A. (1989). Dietary calcium, physical activity, and risk of hip fracture: A prospective study. *British Medical Journal* 299, 889–92.
- Wide, L., Bengtsson, C., Berglund, B.O., Ekblom, B. (1995). Detection in blood and urine of recombinant erythropoietin administered to healthy men. *Medicine and Science in Sports and Exercise* 27, 1569–76.



- Wide, L., Bengtsson, C. (1990). Molecular charge heterogeneity of human serum erythropoietin. *British Journal of Haematology* 76, 121–27.
- Widrick, J.J., Costill, D.L., Fink, W.J., Hickey, M.S., McConell, G.H., Tanaka, H. (1993). Carbohydrate feedings and exercise performance: Effect of initial muscle glycogen concentration. *Journal of Applied Physiology* 74, 2998–3005.
- Widrick, J.J., Trappe, S.W., Blaser, C.A., Costill, D.L., Fitts, R.H. (1996a). Isometric force and maximal shortening velocity of single muscle fibers from elite master runners. *American Journal of Physiology* 271, C666–75.
- Widrick, J.J., Trappe, S.W., Costill, D.L., Fitts, R.H. (1996b). Force-velocity and force-power properties of single muscle fibers from elite master runners and sedentary men. *American Journal of Physiology* 271, C676–83.
- Wilber, R.L., Moffatt, R.J. (1991). Influence of glucose polymer ingestion on plasma glucose concentration and performance in male distance runners. *International Journal of Sports Medicine* 12, 251.
- Wilber, R.L., Moffatt, R.J. (1992). Influence of carbohydrate ingestion on blood glucose and performance in runners. *International Journal of Sport Nutrition* 2, 317–27.
- Wilber, R.L., Rundell, K.W., Szmedra, L., Jenkinson, D.M., Im, J., Drake, S.D. (2000). Incidence of exercise-induced bronchospasm in Olympic winter sport athletes. *Medicine and Science in Sports and Exercise* 32, 732–37.
- Wildmann, J., Kruger, A., Schmale, M., Niemann, J., Matthaei, H. (1986). Increase of circulating beta-endorphin-like immunoreactivity correlates with the change in feeling of pleasantness after running. *Life Sciences* 38, 997–1003.
- Wiles, J.D., Bird, S.R., Hopkins, J., Riley, M. (1992). Effect of caffeinated coffee on running speed, respiratory factors, blood lactate and perceived exertion during 1500-m treadmill running. *British Journal of Sports Medicine* 26, 116–20.
- Wiley, J.P., Clement, D.B., Doyle, D.L., Taunton, J.E. (1987). A primary care perspective of chronic compartment syndrome of the leg. *Physician and Sportsmedicine* 15 (March), 111–20.
- Wilhite, J., Mellion, M.B. (1990). Occult gastrointestinal bleeding in endurance cyclists. *Physician and Sportsmedicine* 18(8), 75–78.
- Wilk, B., Bar-Or, O. (1996). Effect of drink flavor and NaCl on voluntary drinking and hydration in boys exercising in the heat. *Journal of Applied Physiology* 80, 1112–17.
- Wilk, B., Kriemler, S., Keller, H., Bar-Or, O. (1998). Consistency in preventing voluntary dehydration in boys who drink a flavoured carbohydrate-NaCl beverage during exercise in the heat. *International Journal of Sport Nutrition* 8, 1–9.
- Wilkes, D., Gledhill, N., Smyth, R. (1983). Effect of acute induced metabolic alkalosis on 800 m racing time. *Medicine and Science in Sports and Exercise* 15, 277–80.
- Willett, W.C., Stampfer, M.J., Colditz, G.A., Rosner, B.A., Hennekens, C.H., Speizer, F.E. (1987). Moderate alcohol consumption and the risk of breast cancer. *New England Journal of Medicine* 316, 1174–79.
- Willett, W.C., Stampfer, M.J., Colditz, G.A., Rosner, B.A., Speizer, F.E. (1990). Relation of meat, fat, and fiber intake to the risk of colon cancer in a prospective study among women. *New England Journal of Medicine* 323, 1664–72.
- Williams, A.F. (1981). When motor vehicles hit joggers: An analysis of 60 cases. *Public Health Reports* 96, 448–51.
- Williams, A.G., Rayson, M.P., Jubb, M., World, M., Woods, D.R., Hayward, M., Martin, J., Humphries, S.E., Montgomery, H.E. (2000). The ACE gene and muscle performance. *Nature* 403, 614.
- Williams, C., Brewer, J., Walker, M. (1992). The effect of a high carbohydrate diet on running performance during a 30-km treadmill time trial. *European Journal of Applied Physiology* 65, 18–24.
- Williams, C., Nute, M.G., Broadbank, L., Vinall, S. (1990). Influence of fluid intake on endurance running performance. *European Journal of Applied Physiology* 60(2), 112–19.
- Williams, C., Nute, M.L.G. (1983). Some physiological demands of a half-marathon race on recreational runners. *British Journal of Sports Medicine* 17, 152–61.
- Williams, C.A., Armstrong, N., Powell, J. (2000). Aerobic responses of pre-pubertal boys to two modes of training. *British Journal of Sports Medicine* 34, 168–73.
- Williams, E.S., Taggart, P., Carruthers, M. (1978). Rock climbing: Observations on heart rate and plasma catecholamine concentrations and the influence of oxprenolol. *British Journal of Sports Medicine* 12, 125–28.
- Williams, J.H., Maher, M., Jacobson, E.D. (1976). Relationship of mesenteric blood flow to intestinal absorption of carbohydrates. *Journal of Laboratory and Clinical Medicine* 63, 853–63.
- Williams, K.R. (1985). The relationship between mechanical and physiological energy estimates. *Medicine and Science in Sports and Exercise* 17, 317–25.
- Williams, K.R. (1990). Relationships between distance running biomechanics and running economy. In P.R. Cavanagh (Ed.), *Biomechanics of Distance Running*. Human Kinetics, Champaign, IL, 272–305.
- Williams, M.H. (1984). Vitamin and mineral supplements to athletes: Do they help? *Clinics in Sports Medicine* 3, 623–37.
- Williams, M.H., Branch, J.D. (1998). Creatine supplementation and exercise performance: An update. *Journal of the American College of Nutrition* 17, 216–34.
- Williams, M.H., Thompson, J. (1963). Effect of variant dosages of amphetamine upon endurance. *Journal of Sports Medicine and Physical Fitness* 3, 221.
- Williams, N.I., Young, J.C., McArthur, J.W., Bullen, B., Skrinar, G.S., Turnbull, B. (1995). Strenuous exercise with caloric restriction: Effect on leutinizing hormone secretion. *Medicine and Science in Sports and Exercise* 27, 1390–98.
- Williams, P.R., Thomas, D.P., Downes, E.M. (2000). Osteitis pubis and instability of the pubic symphysis. *American Journal of Sports Medicine* 28, 350–55.
- Williams, P.T. (1998). Relationships of heart disease risk factors to exercise quantity and intensity. *Archives of Internal Medicine* 158, 237–45.
- Williams, P.T. (1990a). Weight set-point theory and the high-density lipoprotein concentrations of long-distance runners. *Metabolism* 39, 460–67.

- Williams, P.T. (1990b). Weight set-point theory predicts HDL-cholesterol levels in previously obese long-distance runners. *International Journal of Obesity* 14, 421–27.
- Williams, P.T. (1996). High-density lipoprotein cholesterol and other risk factors for coronary heart disease in female runners. *New England Journal of Medicine* 334, 1298–303.
- Williams, P.T. (1997). Evidence for the incompatibility of age-neutral overweight and age-neutral physical activity standards from runners. *American Journal of Clinical Nutrition* 65, 1391–96.
- Williams, P.T., Wood, P.D., Haskell, W.L., Vranizan, K. (1982). The effects of running mileage and duration on plasma lipoprotein levels. *Journal of the American Medical Association* 247, 2674–79.
- Williams, R. (1999). Marathon plan: The advanced plan. *Runner's World* (November), p. 70.
- Williams, R.B. (1987). Refining the Type A hypothesis: Emergence of the hostility complex. *American Journal of Cardiology* 60, 27J–32J.
- Williams, R.S., Logue, E.E., Lewis, J.L., Barton, T., Stead, N.W., Wallace, A.G., Pizzo, S.V. (1980). Physical conditioning augments the fibrinolytic response to venous occlusion in healthy adults. *New England Journal of Medicine* 302, 987–91.
- Williamson, D.F. (1999). The prevention of obesity. *New England Journal of Medicine* 341, 1140–41.
- Williamson, N. (1989). *Everyman's Guide to Distance Running*. Pen Print, Durban, South Africa.
- Willich, S.N., Lewis, M., Löwel, H., Arntz, H.-R., Schubert, F., Schröder, R. (1993). Physical exertion as a trigger of acute myocardial infarction. *New England Journal of Medicine* 329, 1684–90.
- Williford, H.N., East, J.B., Smith, F.H., Burry, L.A. (1986). Evaluation of warm-up for improvement in flexibility. *American Journal of Sports Medicine* 14, 316–19.
- Willoughby, A. (1977). Jogging about. *Runner's World* 18, 17.
- Wilmore, J.H., Brown, C.H., Davis, J.A. (1977). Body physique and composition of female distance runners. *Annals of the New York Academy of Sciences* 301, 764–76.
- Wilmore, J.H., Morton, A.R., Gilbert, H.J., Wood, R.J. (1998). Role of taste preference on fluid intake during and after 90 min of running at 60%  $\dot{V}O_{2\max}$  in the heat. *Medicine and Science in Sports and Exercise* 30, 587–95.
- Wilmore, J.H., Stanforth, P.R., Hudspeth, L.A., Gagnon, J., Daw, E.W., Leon, A.S., Rao, D.C., Skinner, J.S., Bouchard, C. (1998). Alterations in resting metabolic rate as a consequence of 20 wk of endurance training: The HERITAGE Family Study. *American Journal of Clinical Nutrition* 68, 66–71.
- Wilson, T.M., Tanaka, H. (2000). Meta-analysis of the age-associated decline in maximal aerobic capacity in men: Relation to training status. *American Journal of Physiology* 278, H829–34.
- Wilson, V.E., Morley, N.C., Bird, E.I. (1980). Mood profiles of marathon runners, joggers and non-exercisers. *Perceptual and Motor Skills* 50, 117–18.
- Wilson, W.M., Maughan, R.J. (1992). Evidence for a possible role of 5-hydroxytryptamine in the genesis of fatigue in man: Administration of paroxetine, a 5-HT re-uptake inhibitor, reduces the capacity to perform prolonged exercise. *Experimental Physiology* 77, 921–24.
- Wilt, F. (1972). Conditioning of runners for championship competition. *Journal of the American Medical Association* 221, 1017–21.
- Wilt, F. (1973). *How They Train. Volume 2: Long Distances* (2nd ed.). Track and Field News, Los Altos, CA.
- Wing, S., Dargent-Molina, P., Casper, M., Riggan, W., Hayes, C.G., Tyroler, H.A. (1987). Changing association between community occupational structure and ischaemic heart disease mortality in the United States. *Lancet* 2, 1067–70.
- Wingerson, L. (1983). The lion, the spring and the pendulum. *New Scientist* (January), 236–39.
- Winget, C.M., DeRoshia, C.W., Holley, D.C. (1985). Circadian rhythms and athletic performance. *Medicine and Science in Sports and Exercise* 17, 498–516.
- Winter, E.M., Brookes, F.B.C. (1991). Electromechanical response times and muscle elasticity in men and women. *European Journal of Applied Physiology* 63, 124–28.
- Winter, E.M., Brookes, F.B.C., Hamley, E.J. (1991). Maximal exercise performance and lean leg volume in men and women. *Journal of Sports Sciences* 9, 3–13.
- Wischnia, B. (1994). A time to reflect. *Runner's World* (September), 80–84.
- Wishnitzer, R., Vorst, E., Berrebi, A. (1983). Bone marrow iron depression in competitive distance runners. *International Journal of Sports Medicine* 4, 27–30.
- Witztum, J.L. (1994). The oxidation hypothesis of atherosclerosis. *Lancet* 344, 793–95.
- Wolf, J.G. (1971). Staleness. In L.A. Larson, D.E. Herrmann (Eds.), *Encyclopedia of Sports Science and Medicine*. Macmillan, New York, 1048–51.
- Wolfarth, B., Rivera, M.A., Oppert, J.-M., Boulay, M.R., Dionne, F.T., Chagnon, M., Gagnon, J., Chagnon, Y., Pérusse, L., Keul, J., Bouchard, C. (2000). A polymorphism in the alpha2a-adrenoceptor gene and endurance athlete status. *Medicine and Science in Sports and Exercise* 32, 1709–12.
- Wolfe, L.A., Brenner, I.K.M., Mottola, M.F. (1994). Maternal exercise, fetal well-being and pregnancy outcome. *Exercise and Sports Science Reviews* 22, 145–94.
- Wolfe, J.B. (1962). The heart of the athlete. *Journal of Sports Medicine and Physical Fitness* 2, 20–23.
- Wolman, R.L., Clark, P., McNally, E., Harries, M., Reeve, J. (1990). Menstrual state and exercise as determinants of spinal trabecular bone density in female athletes. *British Medical Journal* 301, 516–18.
- Wong, S.C., McKenzie, D.C. (1987). Cardiorespiratory fitness during pregnancy and its effect on outcome. *International Journal of Sports Medicine* 8, 79–83.
- Wood, P.D. (1987). The health benefits of exercise: A Round Table. *and Sportsmedicine* 15 (November), 124.
- Wood, P.D., Haskell, W.L., Stern, M.P., Lewis, S., Perry, C. (1977). Plasma lipoprotein distributions in male and female runners. *Annals of the New York Academy of Sciences* 301, 748–63.
- Wood, P.D., Stefanick, M.L., Dreon, D.M., Frey-Hewitt, B., Garay, S.C., Williams, P.T., Superko, H.R., Fortmann, S.P., Albers, J.J., Vranizan, K.M., Ellsworth, N.M., Terry, R.B., Haskell, W.L. (1988). Changes in plasma lipids and lipoproteins in overweight men during weight loss through dieting as compared with exercise. *New England Journal of Medicine* 319, 1173–79.

- Wood, P.D., Stefanick, M.L., Williams, P.T., Haskell, W.L. (1991). The effects on plasma lipoproteins of a prudent weight-reducing diet, with or without exercise, in overweight men and women. *New England Journal of Medicine* 325, 461–66.
- Worrell, T.W. (1994). Factors associated with hamstring injuries: An approach to treatment and preventative measure. *Sports Medicine* 17, 338–45.
- Wright, D.A., Sherman, W.M. (1989). Carbohydrate feedings 3 h before and during exercise improve cycling performance. *Medicine and Science in Sports and Exercise* 21, S58.
- Wright, D.A., Sherman, W.M., Dernbach, A.R. (1991). Carbohydrate feedings before, during, or in combination improve cycling endurance performance. *Journal of Applied Physiology* 71, 1082–88.
- Wrighton, N.C., Balasubramanian, P., Barbone, F.P., Kashyap, A.K., Farrell, F.X., Jolliffe, L.K., Barrett, R.W., Dower, W.J. (1997). Increased potency of an erythropoietin peptide mimetic through covalent dimerization. *Natural Biotechnology* 15, 1261–65.
- Wu, A.H., Paganini-Hill, A., Ross, R.K., Henderson, B.E. (1987). Alcohol, physical activity and other risk factors for colorectal cancer: a prospective study. *British Journal of Cancer* 55, 687–94.
- Wyndham, C.H. (1977). Heat stroke and hyperthermia in marathon runners. *Annals of the New York Academy of Sciences* 301, 128–38.
- Wyndham, C.H., Strydom, N.B. (1969). The danger of an inadequate water intake during marathon running. *South African Medical Journal* 43, 893–96.
- Wyndham, C.H., Strydom, N.B., Cooke, H.M., Maritz, J.S., Morrison, J.F., Fleming, P.W., Ward, J.S. (1959). Methods of cooling subjects with hyperpyrexia. *Journal of Applied Physiology* 14, 771–76.
- Wyndham, C.H., Strydom, N.B., Leary, W.P. (1966). Studies of the maximum capacity of men for physical effort. Part II: The maximum oxygen intakes of young, active Caucasians. *Internationale Zeitschrift für Angewandte Physiologie* 22, 296–303.
- Wyndham, C.H., Strydom, N.B., Van Rensburg, A.J., Benade, A.J.S. (1969). Physiological requirements for world-class performances in endurance running. *South African Medical Journal* 43, 996–1002.
- Wynyard, J.W., Otto, R.M., Smith, T.K., Perez, H.R. (1985). The metabolic cost of running in sand and on concrete. *Medicine and Science in Sports and Exercise* 17, 237.
- Wyshak, G. (2000). Teenage girls, carbonated beverage consumption, and bone fractures. *Archives of Pediatrics and Adolescent Medicine* 154, 610–13.
- Wyshak, G., Frisch, R.E., Albright, N., Albright, T., Schiff, I. (1986). Lower prevalence of benign diseases of the breast and benign tumors of the reproductive system among former college athletes compared to non-athletes. *British Journal of Cancer* 54, 841–45.
- Wyshak, G., Frisch, R.E., Albright, T.E., Albright, N.L., Schiff, I. (1987). Bone fractures among former college athletes compared with nonathletes in the menopausal and postmenopausal years. *Obstetrics and Gynecology* 69, 121–26.
- Xu, F., Montgomery, D.L. (1995). Effect of prolonged exercise at 65 and 80% of  $VO_{2max}$  on running economy. *International Journal of Sports Medicine* 16, 309–15.
- Yamaji, K., Shephard, R.J. (1987). Grouping of runners during marathon competition. *British Journal of Sports Medicine* 21, 166–67.
- Yates, A., Leehey, K., Shisslak, C.M. (1983). Running: An analogue of anorexia? *New England Journal of Medicine* 308, 251–55.
- Yeager, K.K., Agostini, R., Nattiv, A., Drinkwater, B. (1993). The female athlete triad: Disordered eating, amenorrhea, osteoporosis. *Medicine and Science in Sports and Exercise* 25, 775–77.
- Yeung, R.R. (1996). The acute effects of exercise on mood state. *Journal of Psychosomatic Research* 40, 123–41.
- Yoshida, T., Udo, M., Iwai, K., Yamaguchi, T. (1993). Physiological characteristics related to endurance running performance in female distance runners. *Journal of Sports Sciences* 11, 57–62.
- Yoshimura, H. (1966). Sports anemia. In K. Evand, K.L. Andersen (Eds.), *Physical Activity in Health and Disease*. Universitetsforlaget, Oslo, 74–78.
- Young, A.J., Sawka, M.N., Levine, L., Cadarette, B.S., Pandolf, K.B. (1985). Skeletal muscle metabolism during exercise is influenced by heat acclimation. *Journal of Applied Physiology* 59, 1929–35.
- Young, A.J., Sawka, M.N., Muza, S.R., Boushel, R., Lyons, T., Rock, P.B., Freund, B.J., Waters, R., Cymerman, A., Pandolf, K.B., Valeri, C.R. (1996). Effects of erythrocyte infusion on  $VO_{2max}$  at high altitude. *Journal of Applied Physiology* 81, 252–59.
- Young, D.R., Haskell, W.L., Jatulis, D.E., Fortmann, S.P. (1993). Associations between changes in physical activity and risk factors for coronary heart disease in a community-based sample of men and women: The Stanford Five-City Project. *American Journal of Epidemiology* 138, 205–16.
- Young, J.C., Treadway, J.L., Balon, T.W., Gavras, H.P., Ruderman, N.B. (1986). Prior exercise potentiates the thermic effect of a carbohydrate load. *Metabolism* 35, 1048–53.
- Young, K. (1978). Going over the wall. In J. Henderson (Ed.), *The Complete Marathoner*. Anderson World, Mountain View, CA, 123–26.
- Young, M., Scirbani, F., Rinaldo, J. (1987). Delirium and pulmonary edema after completing a marathon. *American Review of Respiratory Diseases* 136, 737–39.
- Young, N., Formica, C., Szmulker, G., Seeman, E. (1994). Bone density at weight-bearing and nonweight-bearing sites in ballet dancers: The effects of exercise, hypogonadism, and body weight. *Journal of Clinical Endocrinology and Metabolism* 78, 449–54.
- Young, R.J., Ismail, A.H. (1976a). Personality differences of adult men before and after a physical fitness program. *Research Quarterly* 47, 513–19.
- Young, R.J., Ismail, A.H. (1976b). Relationship between anthropometric, physiological, biochemical and personality variables before and after a four month conditioning program for middle-aged men. *Journal of Sports Medicine and Physical Fitness* 16, 267–76.
- Young, R.J., Ismail, A.H. (1977). Comparison of selected physiological and personality variables in regular and non-regular adult male exercisers. *Research Quarterly* 48, 617–22.

- Yusuf, S., Dagenais, G., Pogue, J., Bosch, J., Sleight, P. (2000). Vitamin E supplementation and cardiovascular events in high-risk patients: The Heart Outcomes Prevention Evaluation Study Investigators. *New England Journal of Medicine* 342, 154–60.
- Zaharieva, E. (1972). Olympic participation by women: Effects on pregnancy and childbirth. *Journal of the American Medical Association* 221, 992–95.
- Zanker, C.L., Swaine, I.L. (1998). Relation between bone turnover, oestradiol, and energy balance in women distance runners. *British Journal of Sports Medicine* 32, 167–71.
- Zawadzki, K.M., Yaspelkis, B.B. 3rd, Ivy, J.L. (1992). Carbohydrate-protein complex increases the rate of muscle glycogen storage after exercise. *Journal of Applied Physiology* 72, 1854–59.
- Zelinger, J., Putterman, C., Ilan, Y., Dann, E.J., Zveibil, F., Shvil, Y., Galun, E. (1996). Case series: Hyponatremia associated with moderate exercise. *American Journal of Medical Science* 311, 86–91.
- Zhao, G., Bernstein, R.D., Hintze, T.H. (1999). Nitric oxide and oxygen utilization: Exercise, heart failure and diabetes. *Coronary Artery Disease* 10, 315–20.
- Zheng, W., Shu, X.O., McLaughlin, J.K., Chow, W.H., Gao, Y.T., Blot, W.J. (1993). Occupational physical activity and the incidence of cancer of the breast, corpus uteri, and ovary in Shanghai. *Cancer* 71, 3620–24.
- Zhu, Y.L., Haas, J.D. (1998). Altered metabolic response of iron-depleted nonanemic women during a 15-km time trial. *Journal of Applied Physiology* 85(5), 1768–75.
- Ziegler, S. (1978). An overview of anxiety management strategies in sport. In W.F. Straub (Ed.), *Sport Psychology: An Analysis of Athlete Behaviour*. Movement, New York, 257–64.
- Zierath, J., Kaiserauer, S., Snyder, A.C. (1986). Dietary patterns of amenorrhoeic and regularly menstruating runners. *Medicine and Science and Sports and Exercise* 18, S55–56.
- Zinker, B.A., Britz, K., Brooks, G.A. (1990). Effects of a 36-hour fast on human endurance and substrate utilization. *Journal of Applied Physiology* 69, 1849–55.
- Zinzen, E., Clarys, J.P., Cabri, J., Vanderstappen, D. (1991). The influence of triazolam and flunitrazepam on isokinetic muscle performance and on cardiovascular parameters after a period of sleep. *Journal of Sports Sciences* 9, 349–50.
- Zipes, D.P., Heger, J.J., Prystowsky, E.N. (1981). Sudden cardiac death. *American Journal of Medicine* 70, 1151–54.
- Zucker, P. (1985). In Eating disorders in young athletes: A round table. *Physician and Sportsmedicine* 13 (November), 89–106.
- Zur, M., Hymans, R. (1991). *Progression of World Best Performances and Official IAAF World Records*. International Athletic Foundation, Monaco.
- Zurlo, F., Lillioja, S., Esposito-Del Puente, A., Nyomba, B.L., Raz, I., Saad, M.F., Swinburn, B.A., Knowler, W.C., Bogardus, C., Ravussin, E. (1990). Low ratio of fat to carbohydrate oxidation as predictor of weight gain: Study of 24-h RQ. *American Journal of Physiology* 259, E650–57.
- Zylstra, S., Hopkins, A., Erk, M., Hreshchynshyn, M.M., Aanbar, M. (1989). Effect of physical activity on lumbar spine and femoral neck bone densities. *International Journal of Sports Medicine* 10, 181–86.