Combined Events Training Blueprint Schemes Planning and Periodization: Autumn Cycles



Dan A. Pfaff

Altis

Phoenix, AZ

CURRENT ROLES

• Audit coaches and performance staff at institutions of high

performance, globally.



• Mentor performance staff members on multiple facets of sport

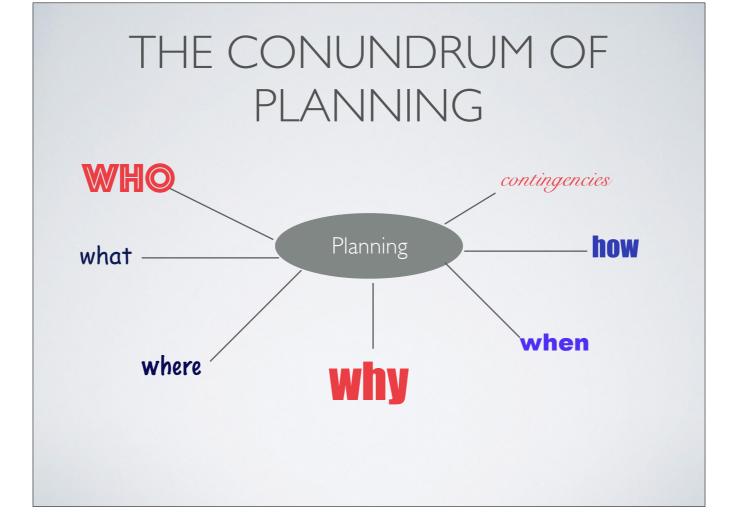
excellence.



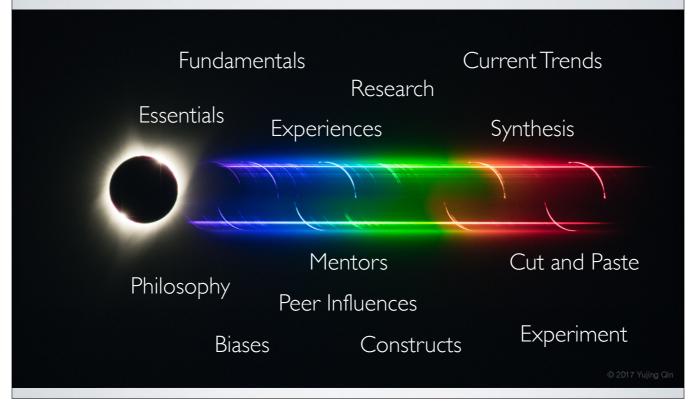
Gate keeper duties and enforcement driver for action points agreed upon by key stake holders.

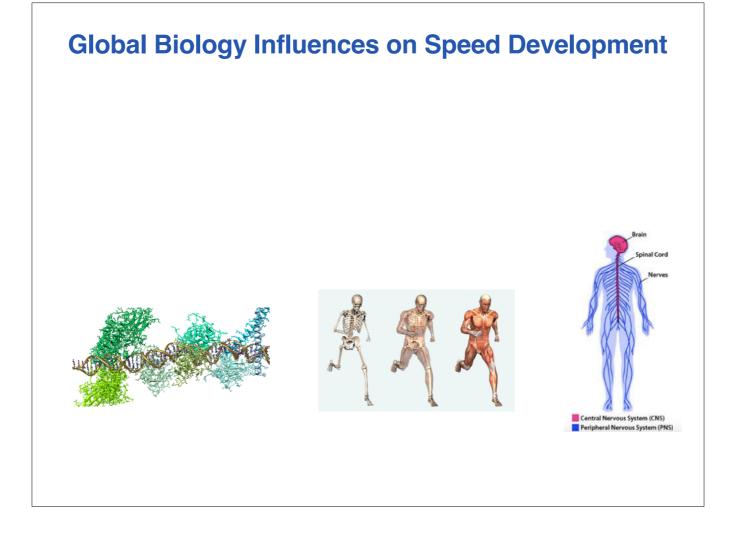


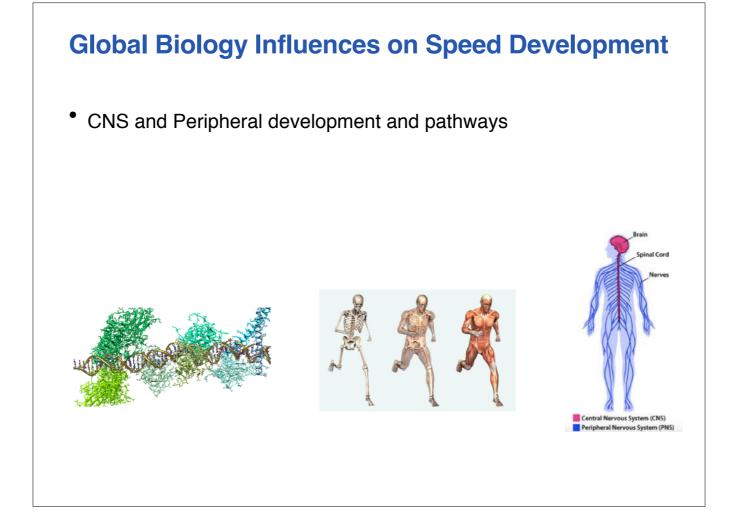


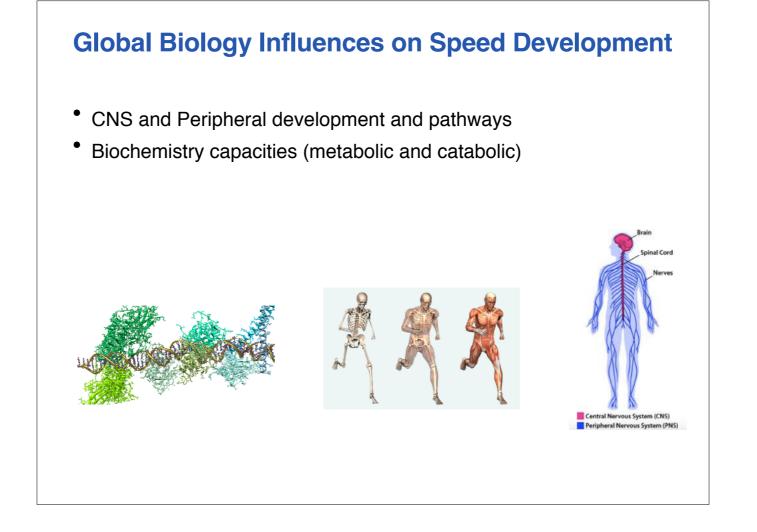


HOW WE COACH AND PLAN



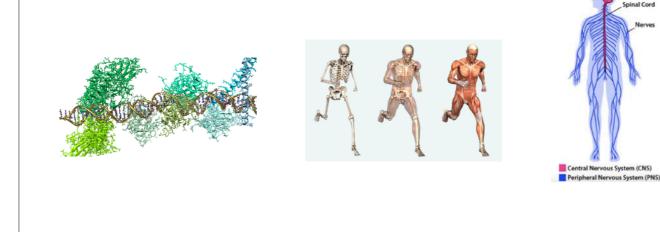






Global Biology Influences on Speed Development

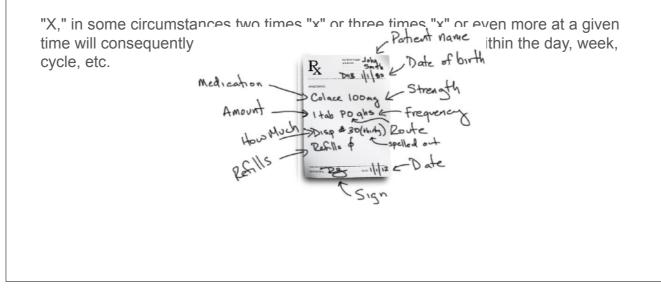
- CNS and Peripheral development and pathways
- Biochemistry capacities (metabolic and catabolic)
- Architectural Integrity and Wellness

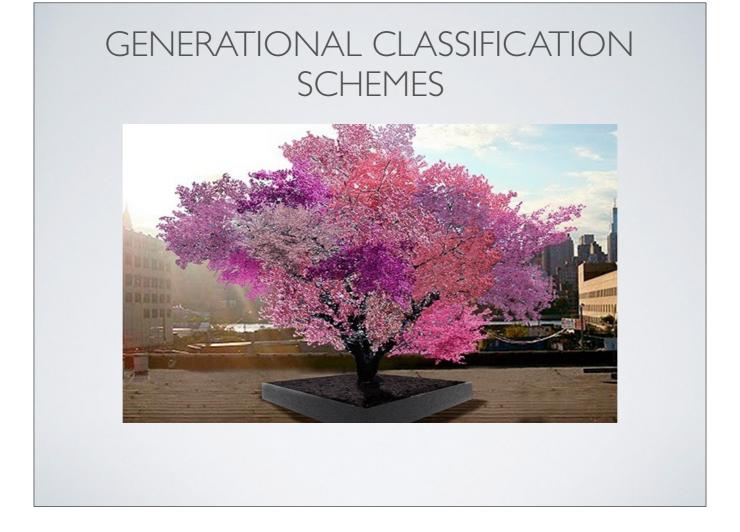


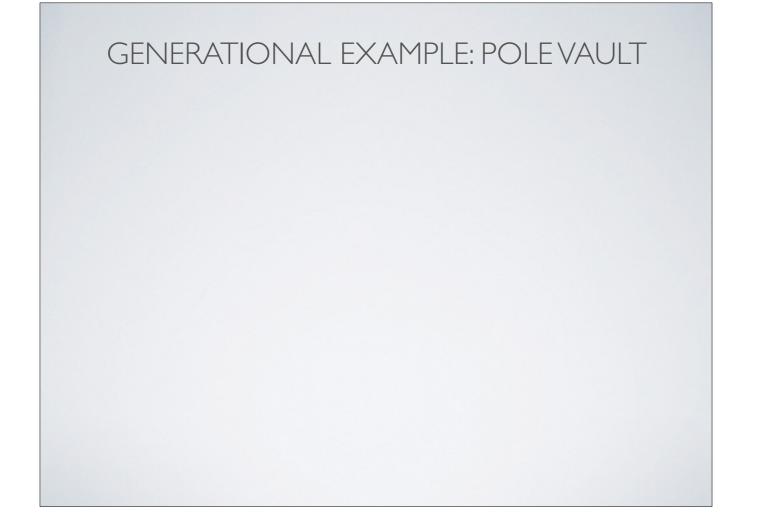


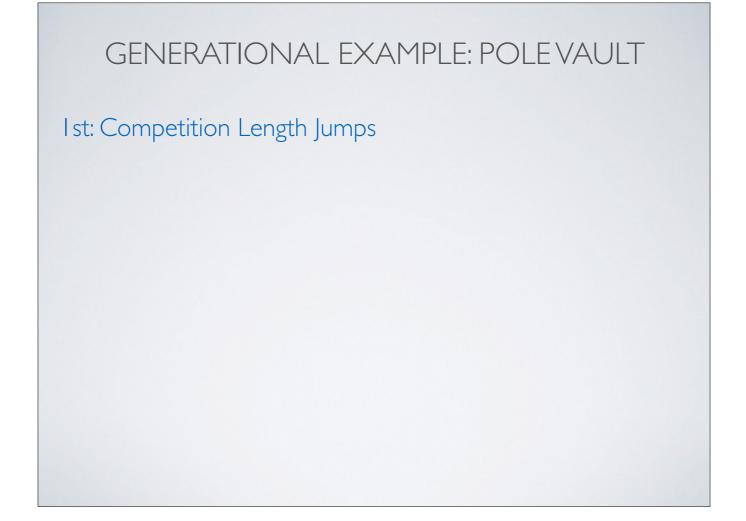
Dosages Sting not Destroy

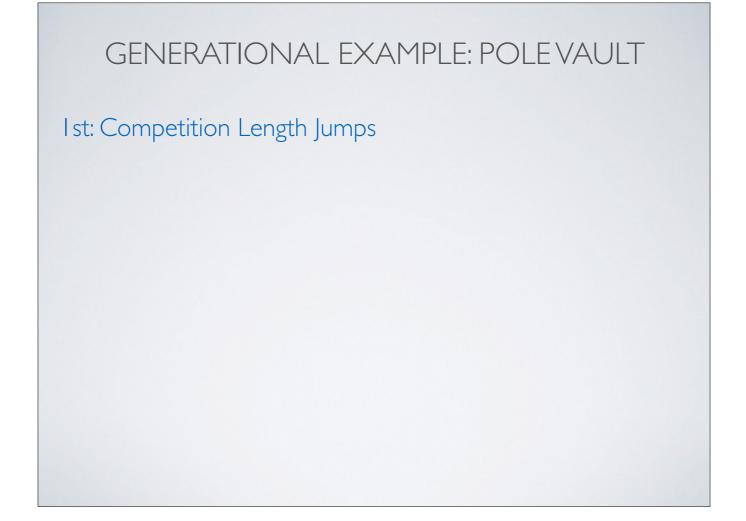
The optimal dosage is the dosage that gives the desired effect with **minimum side effects**.











Ist: Competition Length Jumps

2nd:Various shorter run jumps and event specific exercises

Ist: Competition Length Jumps

2nd:Various shorter run jumps and event specific exercises

Ist: Competition Length Jumps

2nd:Various shorter run jumps and event specific exercises

3rd: Acceleration, Speed and Jumps exercises

Ist: Competition Length Jumps

2nd:Various shorter run jumps and event specific exercises

3rd: Acceleration, Speed and Jumps exercises

Ist: Competition Length Jumps

2nd:Various shorter run jumps and event specific exercises

3rd: Acceleration, Speed and Jumps exercises

4th: Weight Training, Plyometrics, Throwing, Gymnastics, Alactic Runs, Wellness Exercises

Ist: Competition Length Jumps

2nd:Various shorter run jumps and event specific exercises

3rd: Acceleration, Speed and Jumps exercises

4th: Weight Training, Plyometrics, Throwing, Gymnastics, Alactic Runs, Wellness Exercises

Ist: Competition Length Jumps

2nd:Various shorter run jumps and event specific exercises

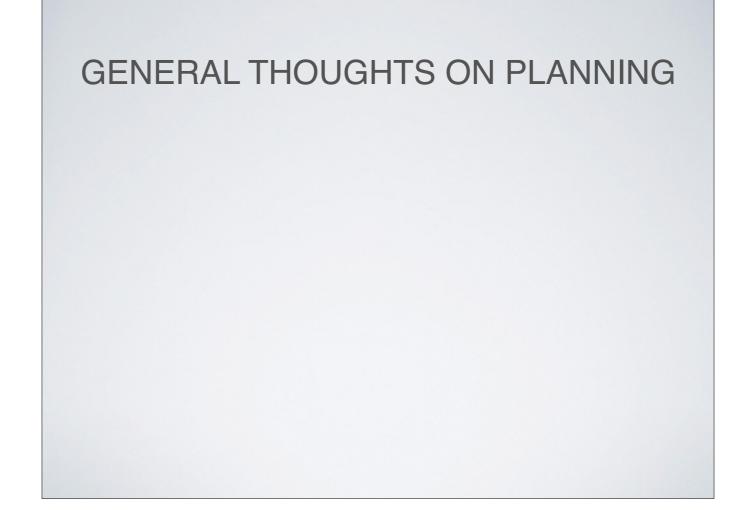
3rd: Acceleration, Speed and Jumps exercises

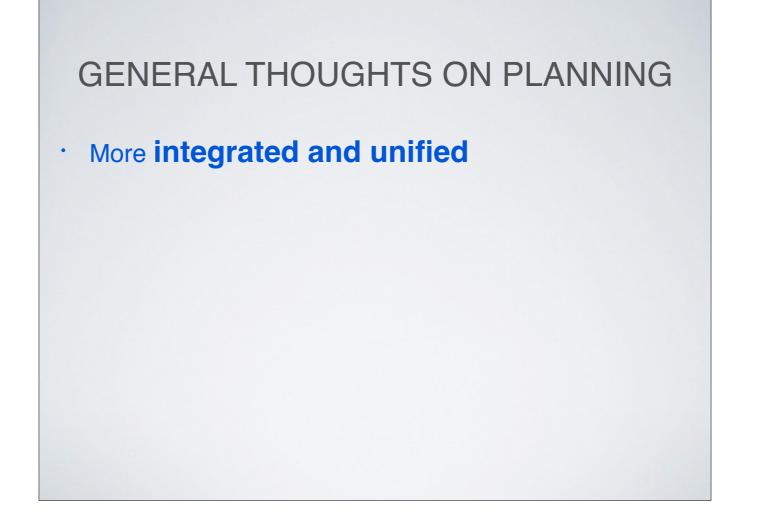
4th: Weight Training, Plyometrics, Throwing, Gymnastics, Alactic Runs, Wellness Exercises

*note: very little general or 5th generation work

ERGONOMICS OF COMBINED EVENT SCORING TABLES

- Biased to power/speed
- Evaluate cost/benefit factors for the one endurance event compared to the other events
- Many methods to train anaerobic glycolysis





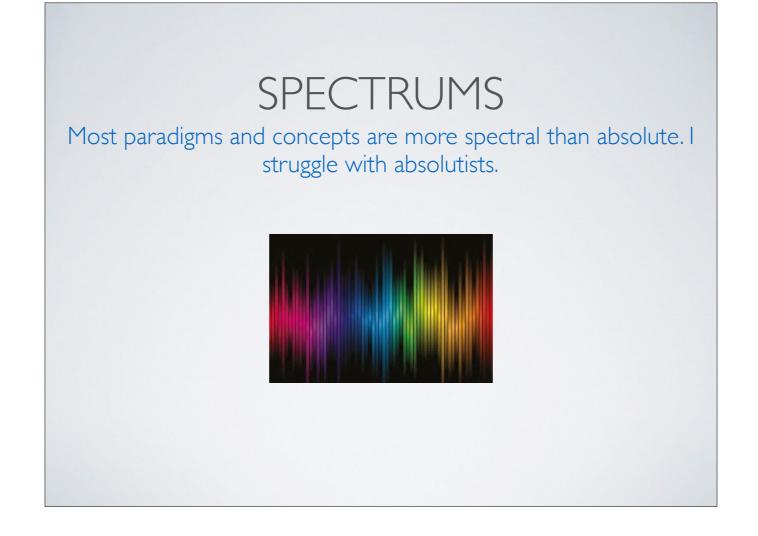
- More integrated and unified
- Less general in work tasks

- More integrated and unified
- Less general in work tasks
- · Generational considerations in all designs

- More integrated and unified
- Less general in work tasks
- Generational considerations in all designs
- Template designs with **prescriptive implementation**

- More integrated and unified
- Less general in work tasks
- · Generational considerations in all designs
- Template designs with **prescriptive implementation**
- Power/Speed sports have lots of commonalities

- More integrated and unified
- Less general in work tasks
- · Generational considerations in all designs
- Template designs with **prescriptive implementation**
- Power/Speed sports have lots of commonalities
- Wellness factors have become more prevalent



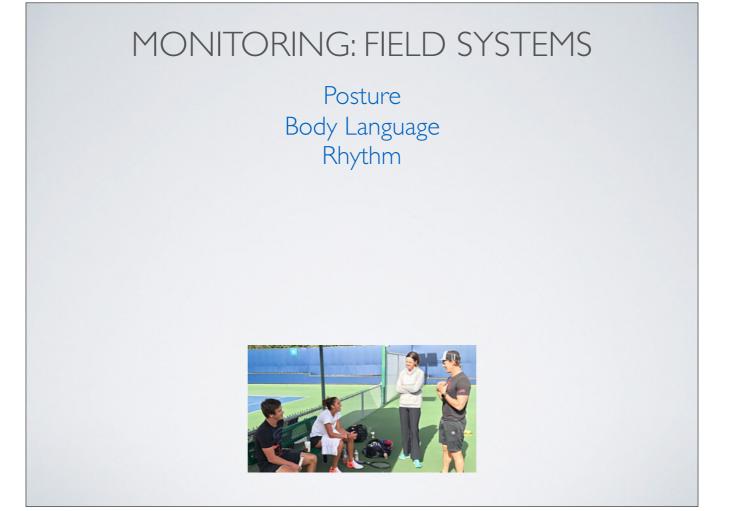














Posture Body Language Rhythm Coordination Feedback and tone of voice



Posture Body Language Rhythm Coordination Feedback and tone of voice Perceived Exertion



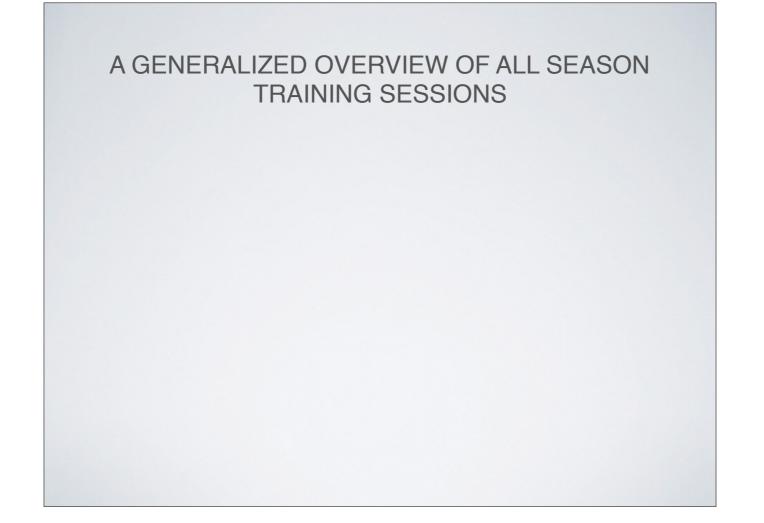
Posture Body Language Rhythm Coordination Feedback and tone of voice Perceived Exertion

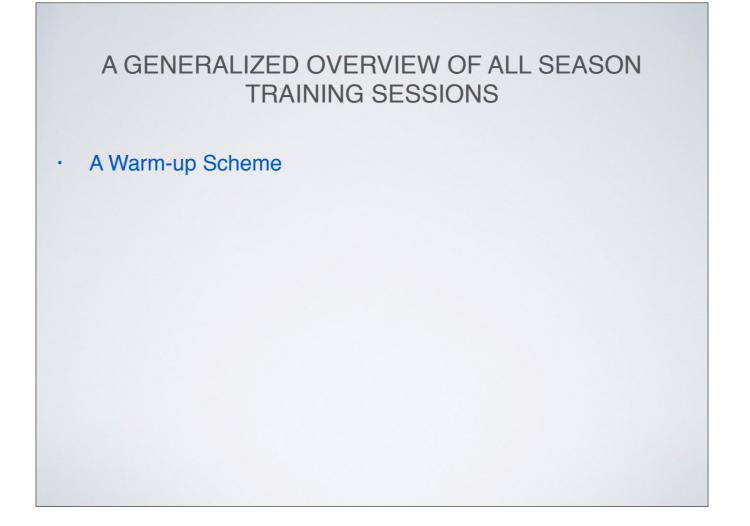


Posture Body Language Rhythm Coordination Feedback and tone of voice Perceived Exertion

***Evaluated against normative maps!







- A Warm-up Scheme
- A Technical or High Neural Demand Activity

- A Warm-up Scheme
- A Technical or High Neural Demand Activity
- Appropriate Power or Elastic Strength Routines

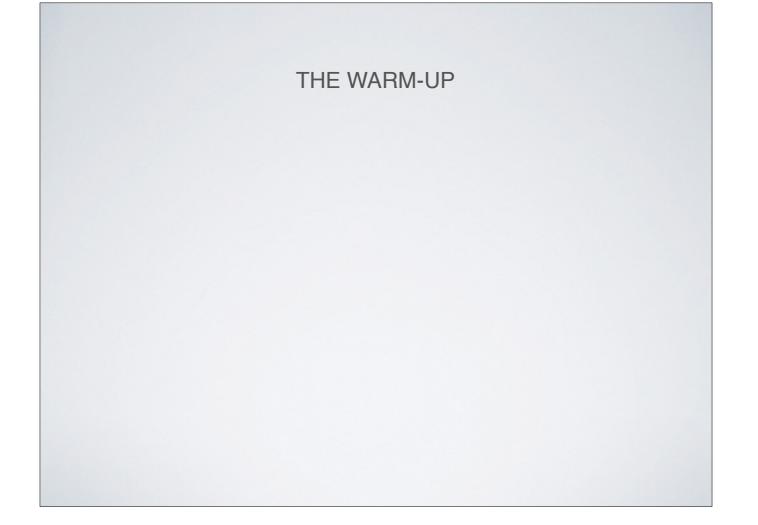
- A Warm-up Scheme
- A Technical or High Neural Demand Activity
- Appropriate Power or Elastic Strength Routines
- Designed Wellness Programs

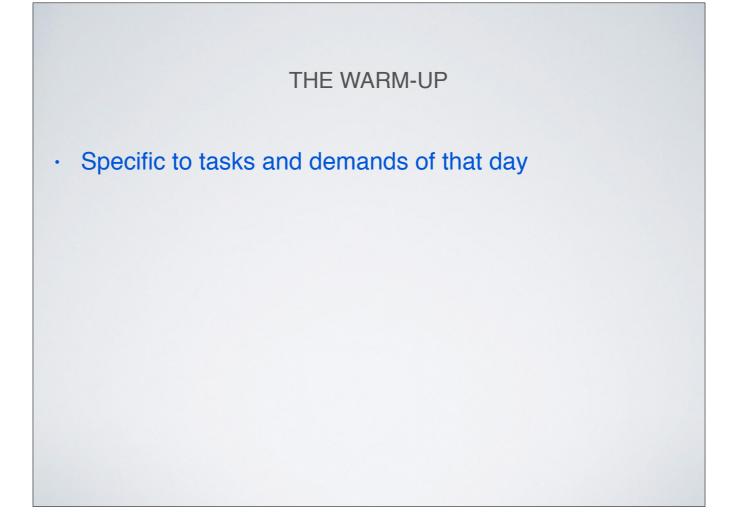
- A Warm-up Scheme
- A Technical or High Neural Demand Activity
- Appropriate Power or Elastic Strength Routines
- Designed Wellness Programs
- General Strength, Special Strength and Regeneration Activities

- A Warm-up Scheme
- A Technical or High Neural Demand Activity
- Appropriate Power or Elastic Strength Routines
- Designed Wellness Programs
- General Strength, Special Strength and Regeneration Activities
- A Designed Cool Down Series

- A Warm-up Scheme
- A Technical or High Neural Demand Activity
- Appropriate Power or Elastic Strength Routines
- Designed Wellness Programs
- General Strength, Special Strength and Regeneration Activities
- A Designed Cool Down Series
- Prescribed Therapies and Rehab

- A Warm-up Scheme
- A Technical or High Neural Demand Activity
- Appropriate Power or Elastic Strength Routines
- Designed Wellness Programs
- General Strength, Special Strength and Regeneration Activities
- A Designed Cool Down Series
- Prescribed Therapies and Rehab
- Fascial Homework Series and Hydrotherapy





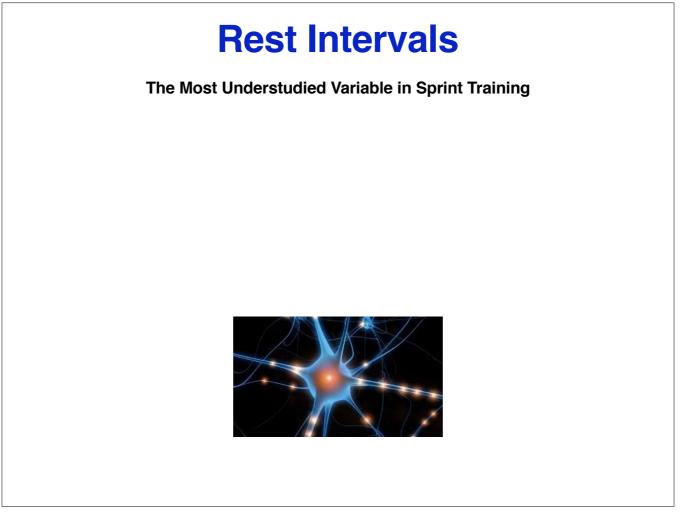
- · Specific to tasks and demands of that day
- Warming, attentional and vibrational activities

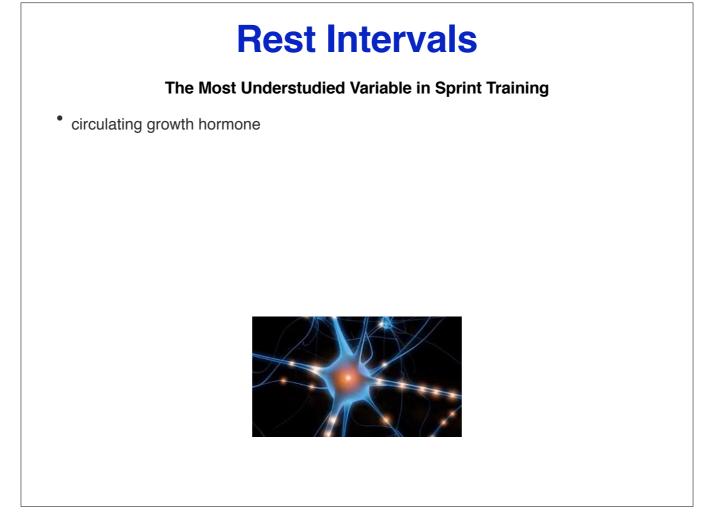
- · Specific to tasks and demands of that day
- Warming, attentional and vibrational activities
- Static flexibility and Fascial work

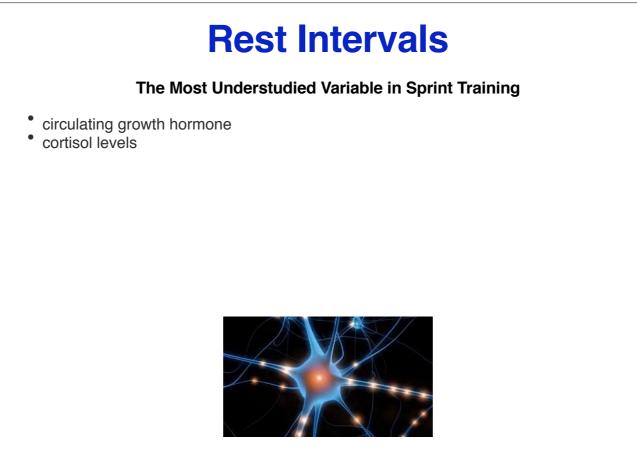
- Specific to tasks and demands of that day
- Warming, attentional and vibrational activities
- Static flexibility and Fascial work
- Sprint awareness exercises

- · Specific to tasks and demands of that day
- Warming, attentional and vibrational activities
- Static flexibility and Fascial work
- Sprint awareness exercises
- Dynamic flexibility work

- · Specific to tasks and demands of that day
- Warming, attentional and vibrational activities
- Static flexibility and Fascial work
- Sprint awareness exercises
- Dynamic flexibility work
- Acceleration progressions







- circulating growth hormone
 cortisol levels
 intensity-associated acidosis



- circulating growth hormone
 cortisol levels
 intensity-associated acidosis
 elevation of other hormones



- circulating growth hormone
 cortisol levels
 intensity-associated acidosis
 elevation of other hormones
 elevate protein synthesis



- circulating growth hormone
 cortisol levels
 intensity-associated acidosis
 elevation of other hormones
 elevate protein synthesis
 protein turnover



- circulating growth hormone
 cortisol levels
 intensity-associated acidosis
 elevation of other hormones
 elevate protein synthesis
 protein turnover

- •
- repair, regulation of various metabolic functions



- circulating growth hormone
 cortisol levels
 intensity-associated acidosis
 elevation of other hormones
 elevate protein synthesis

- protein turnover • •
- repair, regulation of various metabolic functions elevated levels of circulating microRNA
- •

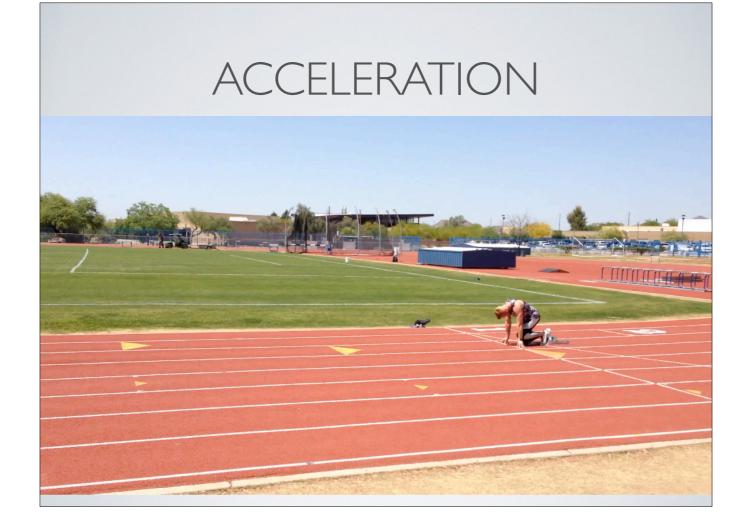


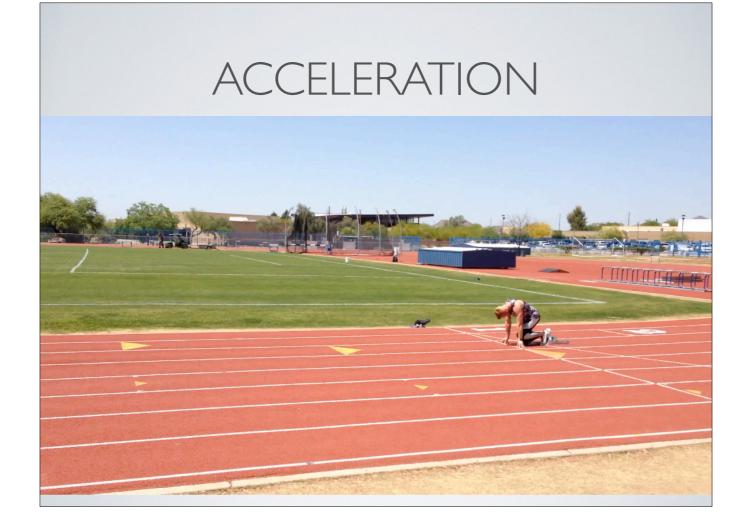
- circulating growth hormone
 cortisol levels
 intensity-associated acidosis
- elevation of other hormones
- ٠ elevate protein synthesis
- protein turnover
- •
- repair, regulation of various metabolic functions
 elevated levels of circulating microRNA
 levels of circulating regulators of vascular and anabolic adaptive responses

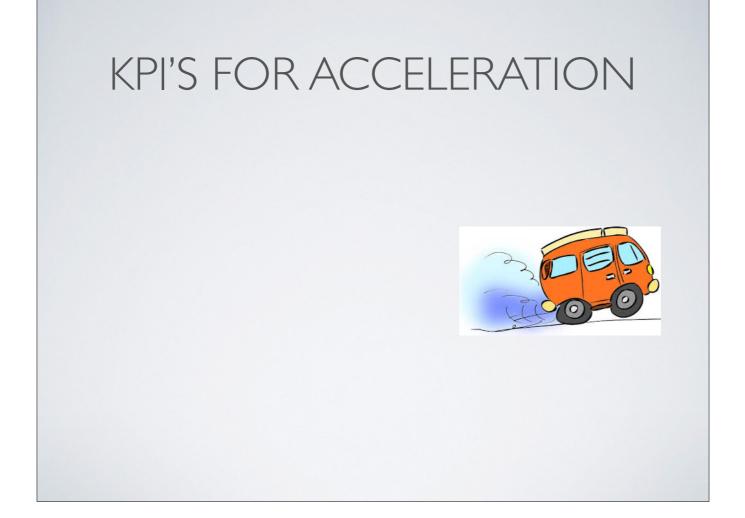


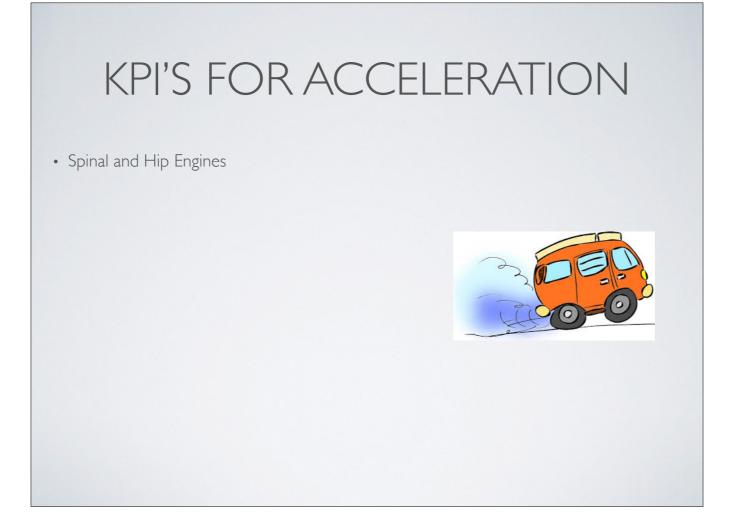
MONDAY, AUTUMN

- Warm-up A
- Throw, Javelin, MB series, Weighted balls
- Acceleration Development (10-40m, with sets of 3 or 4 x 3-5 efforts in each set) use 1' and 3' recoveries; use blocks, group starts, rollovers or fly-ins... emphasize mechanics, rhythm and relaxation......can add one to two special speed endurance runs with 5' recoveries
- Multiple Jump Series: 5 x 5 hurdles at 33" and 2m spacing; dynamic or static to needs or Multiple Throw series: "Grenade" x 5 reps (OHB, BLF, repeat with one jump before launch) Use heavy implement! R=2+
- Wt. Training: Olympic lifts, Presses, and Leg Series; Ancillary lifts: Russian Twists and Negative Toe Risers, stabilization loads
- Cool Down with 5' of jog/skip routines
- · Fascial and target therapies only
- Hydrotherapy Session, 15'









- Spinal and Hip Engines
- Joint and Muscle Order



- Spinal and Hip Engines
- Joint and Muscle Order
- Projection Angles and Force Application



- Spinal and Hip Engines
- Joint and Muscle Order
- Projection Angles and Force Application
- Stride Rate of Change



- Spinal and Hip Engines
- Joint and Muscle Order
- Projection Angles and Force Application
- Stride Rate of Change
- Stride Frequency/Stride Length Harmony



- Spinal and Hip Engines
- Joint and Muscle Order
- Projection Angles and Force Application
- Stride Rate of Change
- Stride Frequency/Stride Length Harmony
- Total Body Axis to Ground Angles

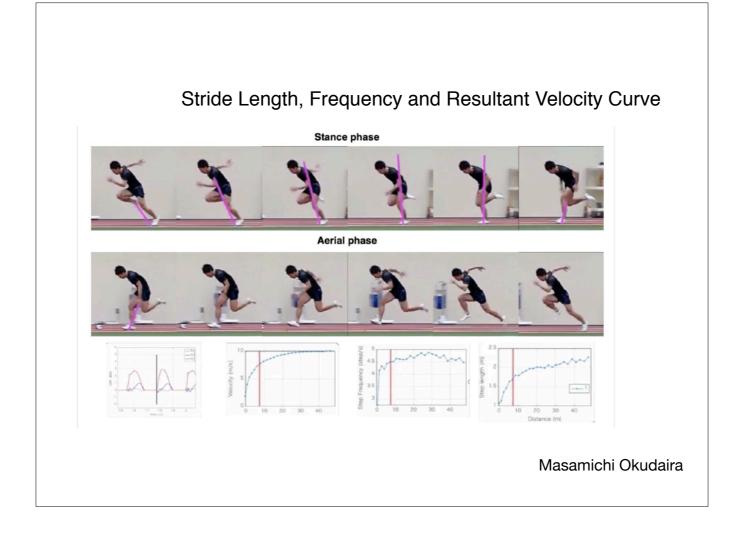


- Spinal and Hip Engines
- Joint and Muscle Order
- Projection Angles and Force Application
- Stride Rate of Change
- Stride Frequency/Stride Length Harmony
- Total Body Axis to Ground Angles
- Appendage Positions and Transitions



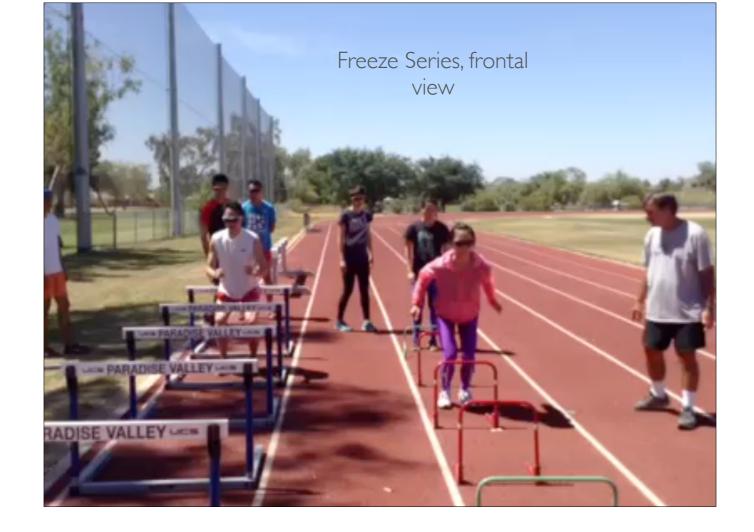
- Spinal and Hip Engines
- Joint and Muscle Order
- Projection Angles and Force Application
- Stride Rate of Change
- Stride Frequency/Stride Length Harmony
- Total Body Axis to Ground Angles
- Appendage Positions and Transitions
- Ground Contact, Amortization and Flight Times

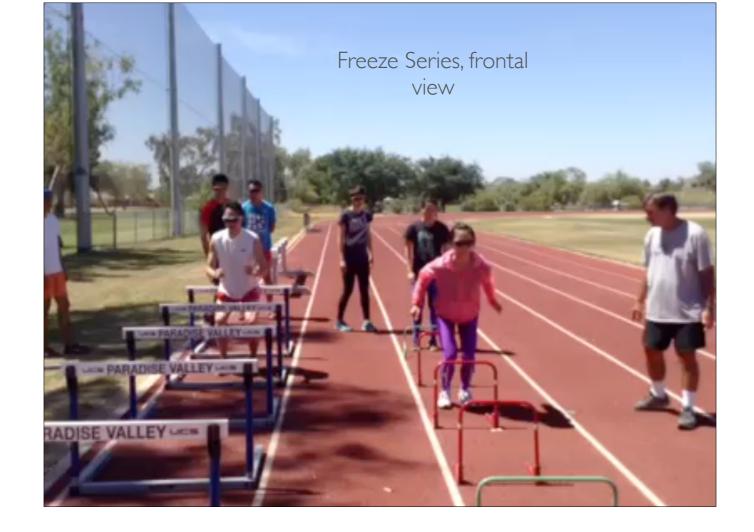


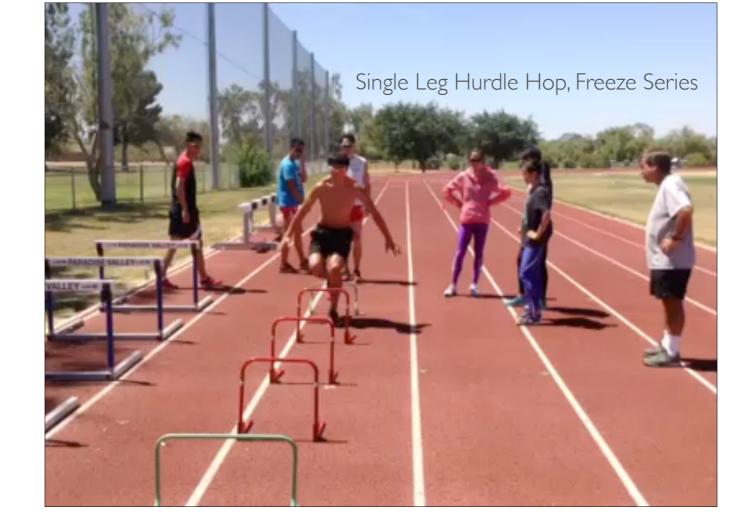


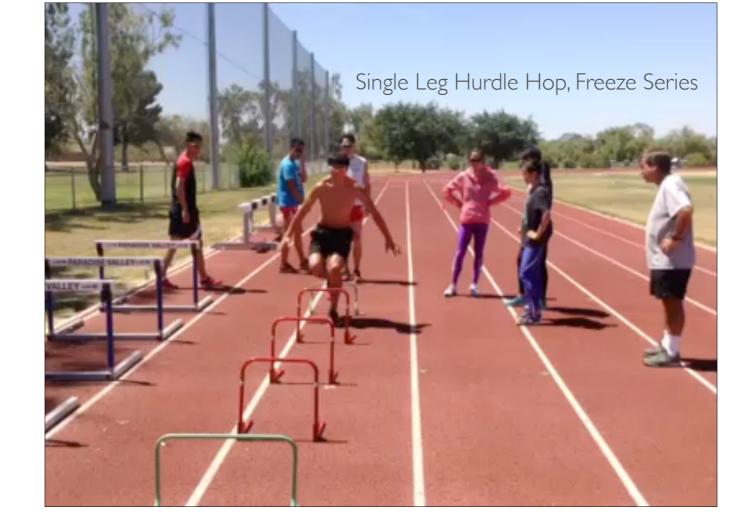










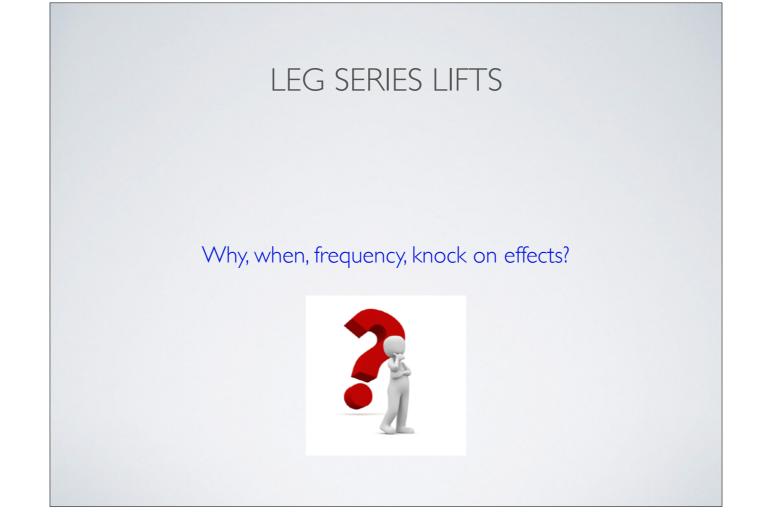


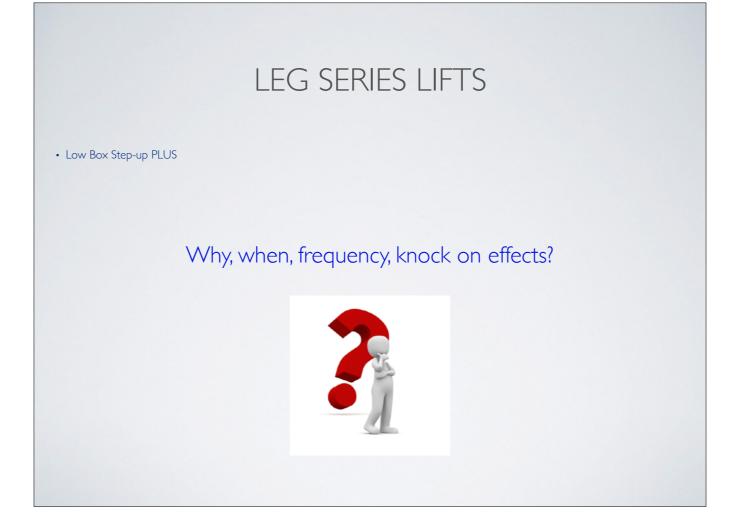


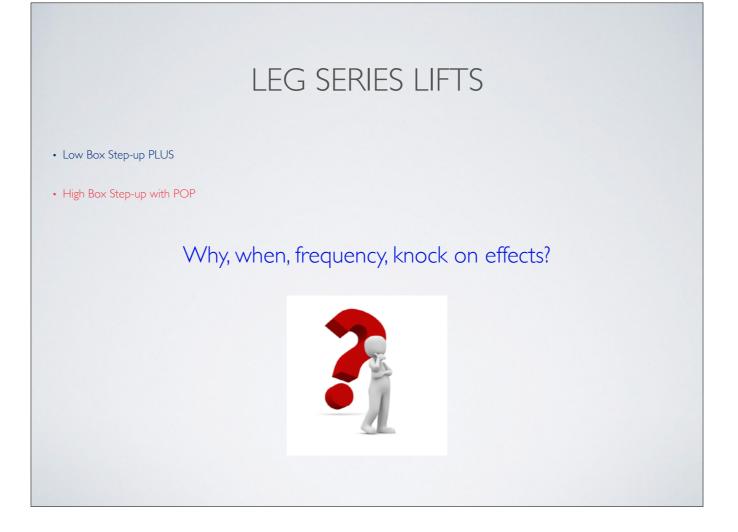


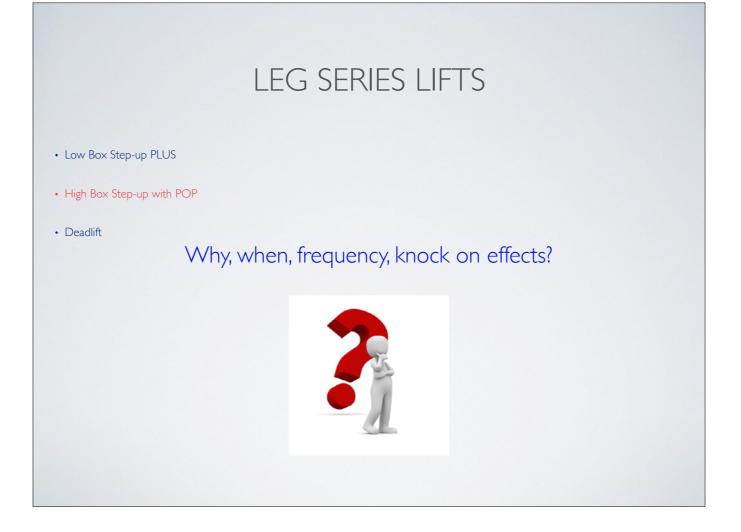


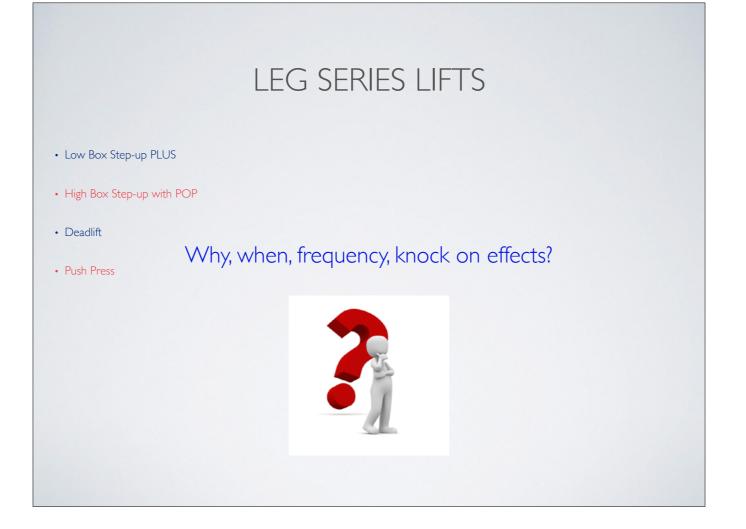


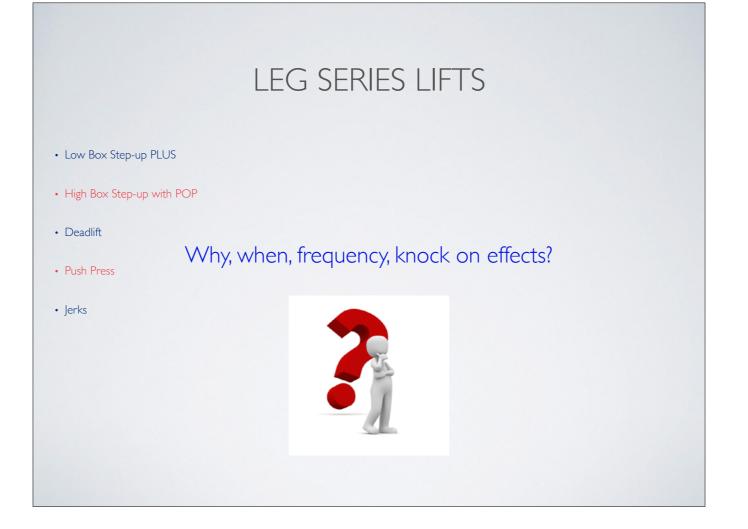


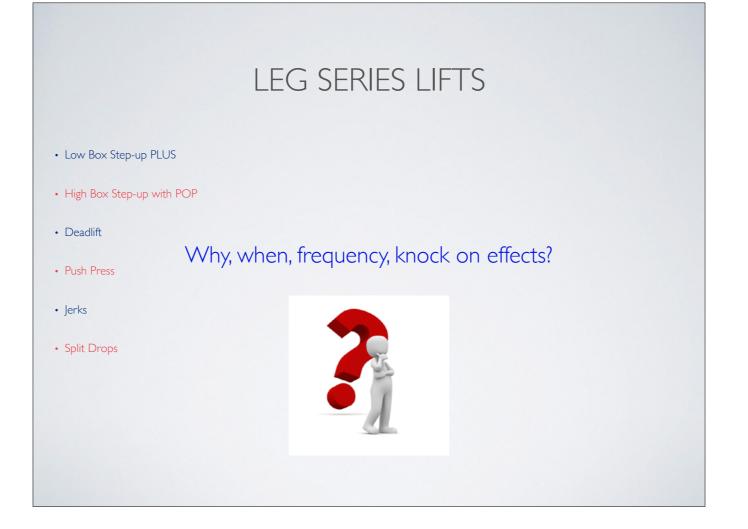


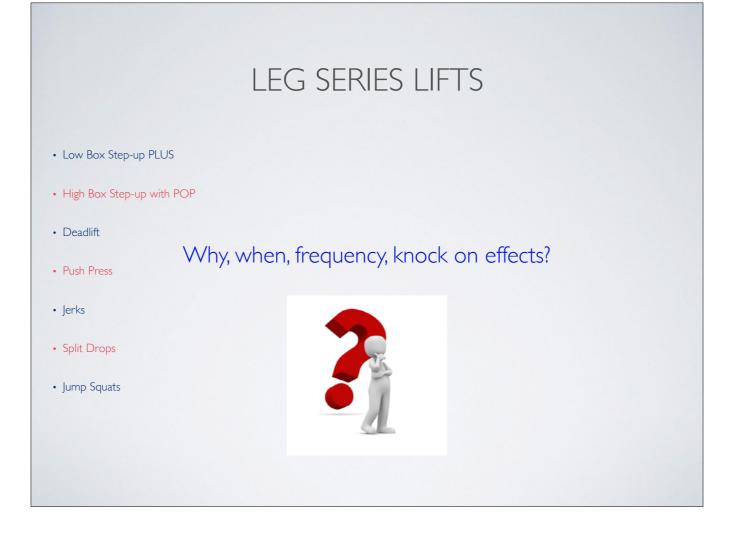


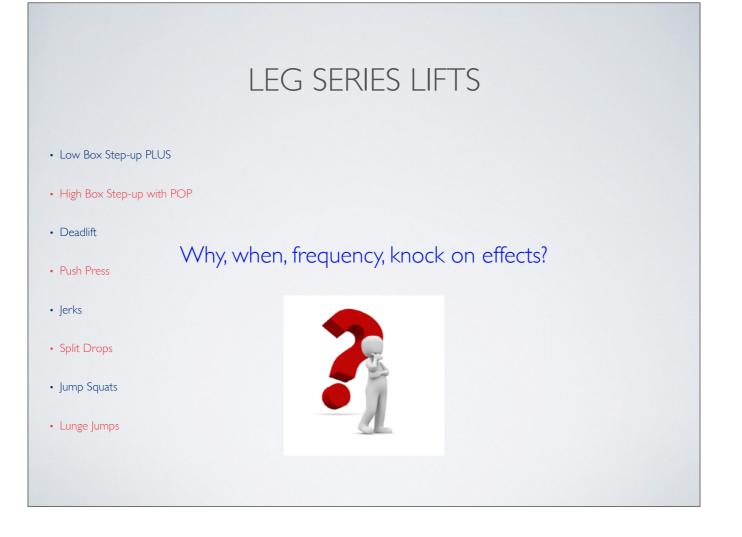


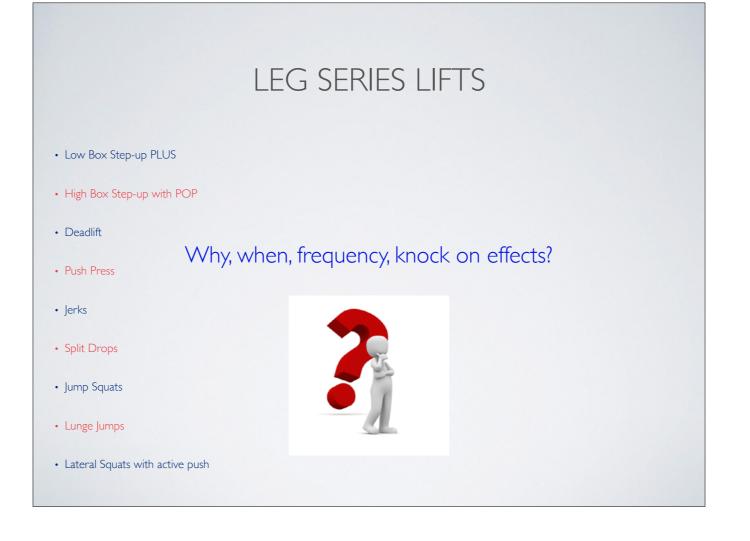


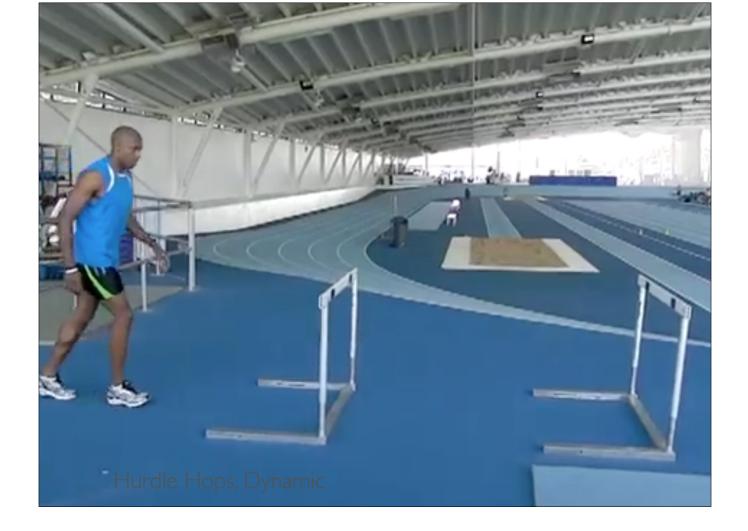


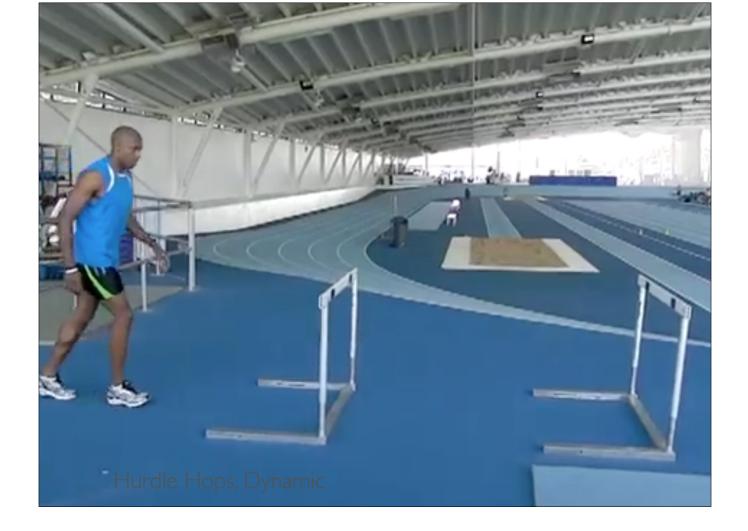






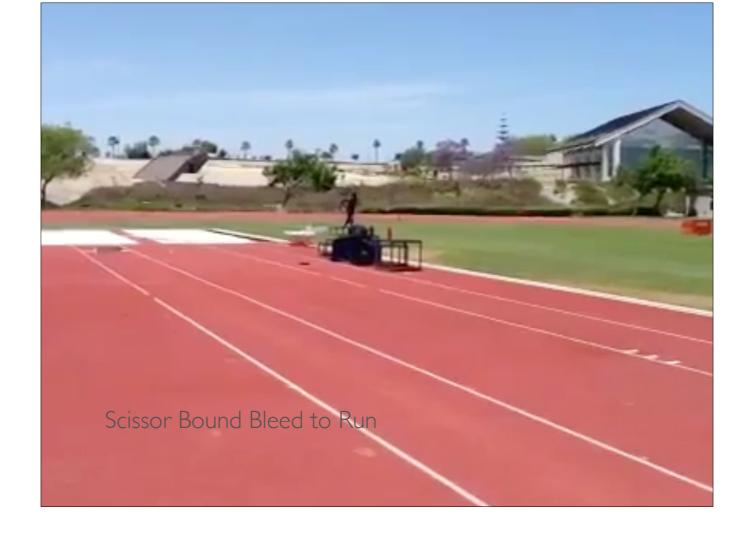


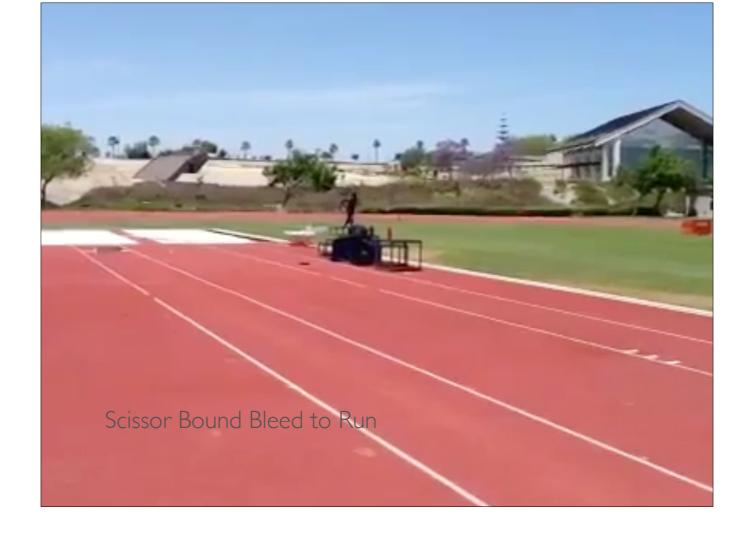


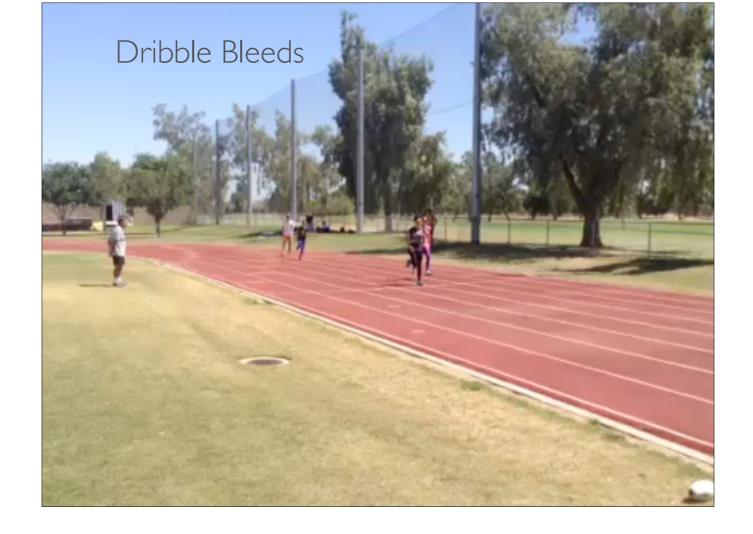


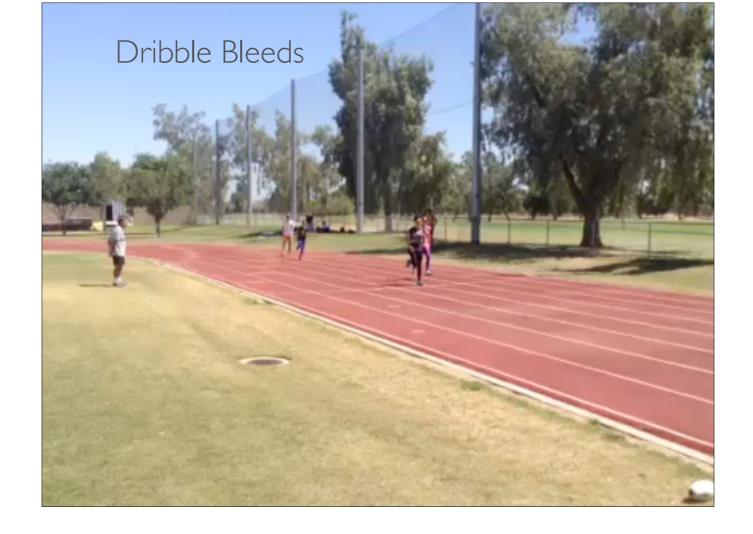
TUESDAY, AUTUMN

- Warm-up B
- Throw, Shot Put, Drills and Progressions
- · Jump Specific Technical Training or
 - Technical Runs on Grass or in Flats; 6-8 runs x 50m with dribble, scissor or elastic over cues for 25m and runoffs for 25m;
 - $^{-}$ if a jump session is scheduled, then approaches x 4-6 and then 10-12 short run jumps instead of tech runs
- · General Strength Series
- Medicine Ball Series
- Hurdle Mobility Series
- Therapy upon target schemes
- · Cool down with multidirectional series for 5'









WEDNESDAY, AUTUMN

- Warm-up C
- Throw, Discus, Progressions and Drills
- Speed or Special Speed Endurance Runs; 2-3sets x 3 runs x 40-50m with 2' and 8' recoveries
- Alternative Workout Options: Alactic Runs of 3 X 150,or 3 x120 or 3 x 90m with 5'-7'; can be done with SFS motif
- Elastic Endurance Series: Skips for height and distance, scissor bounds, alternate leg bounds, etc. total 500m workloads
- Wt. Training. As on Monday with variations: a load day
- Mixed Cool Down Rhythms
- Deep Tissue session
- · Mixed Hydrotherapy Session, 2 hot, 1 cold







Posture Strike Landmarks for the Foot



Posture Strike Landmarks for the Foot Arm Positions and Angulation Factors



Posture Strike Landmarks for the Foot Arm Positions and Angulation Factors Leg Angulation Factors



Posture Strike Landmarks for the Foot Arm Positions and Angulation Factors Leg Angulation Factors Dorsiflexion Paradigm



Posture Strike Landmarks for the Foot Arm Positions and Angulation Factors Leg Angulation Factors Dorsiflexion Paradigm Hip and Shoulder Axis Undulation and Oscillation



Posture Strike Landmarks for the Foot Arm Positions and Angulation Factors Leg Angulation Factors Dorsiflexion Paradigm Hip and Shoulder Axis Undulation and Oscillation Ground Contact and Flight Times



Posture Strike Landmarks for the Foot Arm Positions and Angulation Factors Leg Angulation Factors Dorsiflexion Paradigm Hip and Shoulder Axis Undulation and Oscillation Ground Contact and Flight Times Joint Stiffness Mechanisms

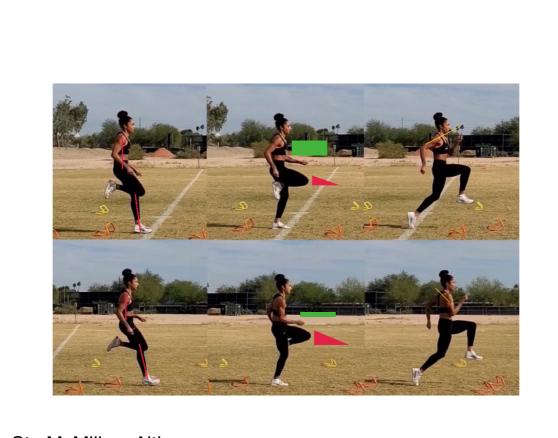


Posture Strike Landmarks for the Foot Arm Positions and Angulation Factors Leg Angulation Factors Dorsiflexion Paradigm Hip and Shoulder Axis Undulation and Oscillation Ground Contact and Flight Times Joint Stiffness Mechanisms Direction of Force Application



Posture Strike Landmarks for the Foot Arm Positions and Angulation Factors Leg Angulation Factors Dorsiflexion Paradigm Hip and Shoulder Axis Undulation and Oscillation Ground Contact and Flight Times Joint Stiffness Mechanisms Direction of Force Application Limb Repositioning Times and Factors

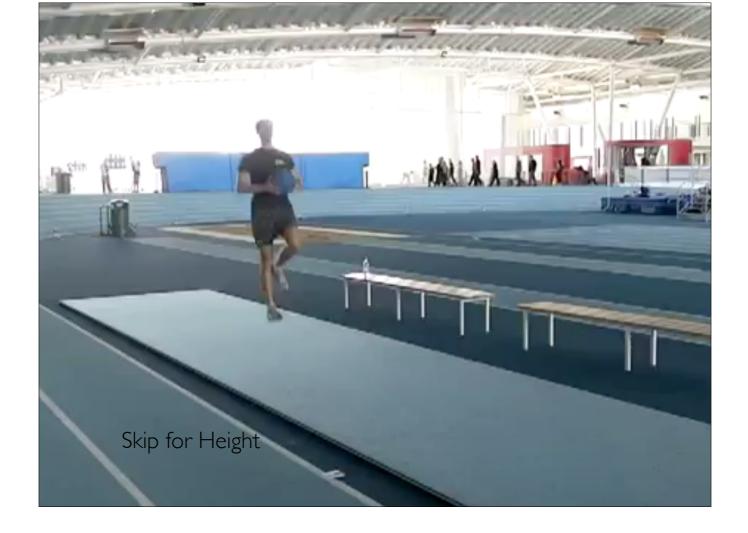


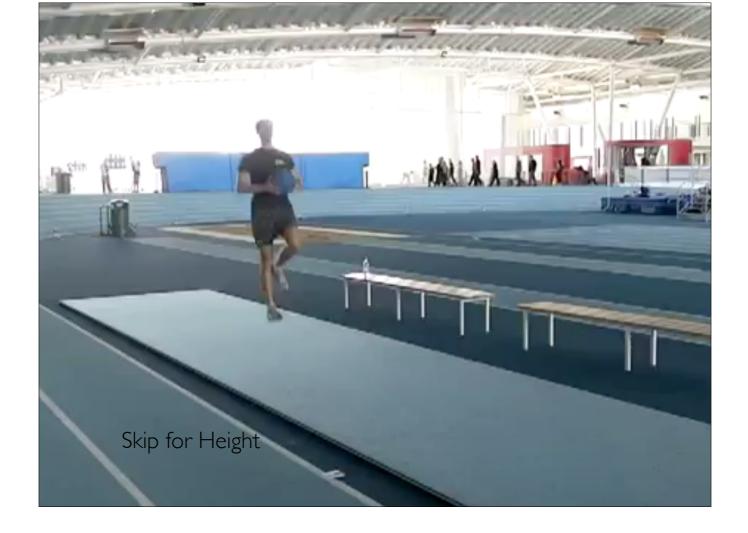


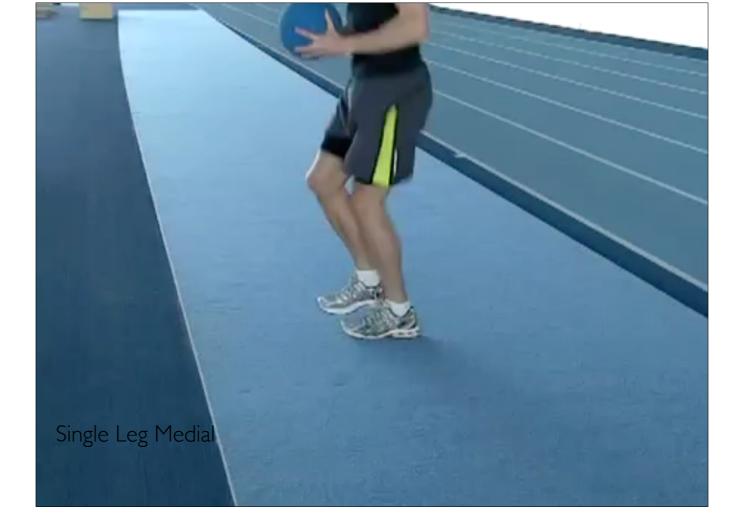
via: Stu McMillan, Altis

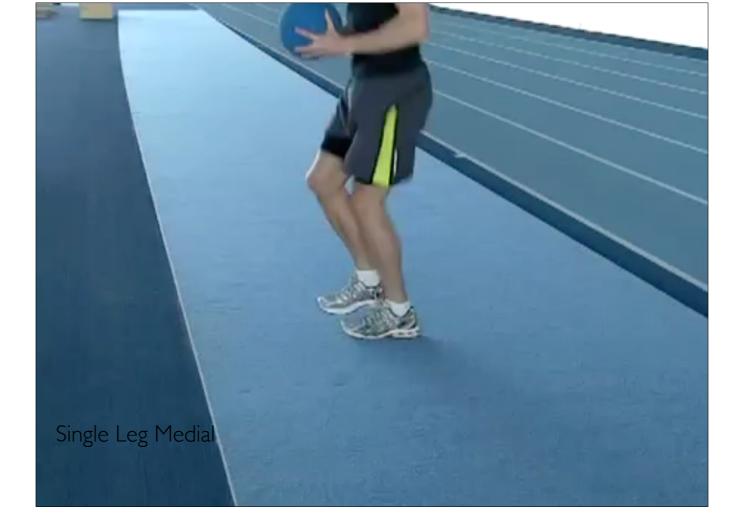
USAIN BOLT, THE FASTEST MAN A

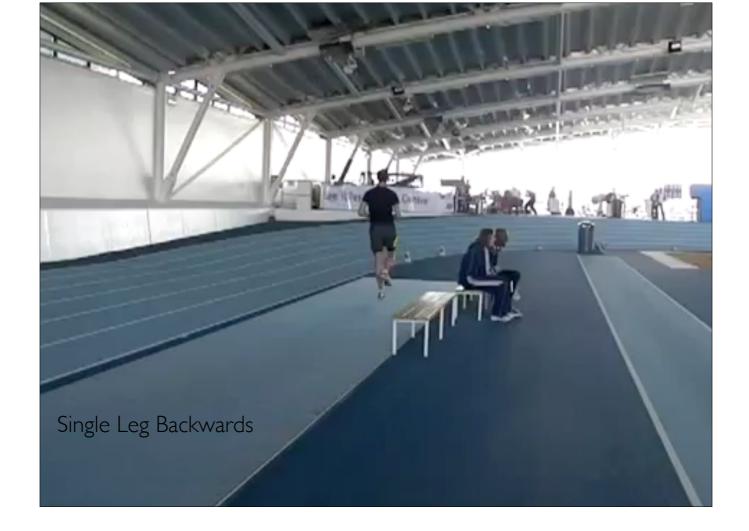
USAIN BOLT, THE FASTEST MAN A

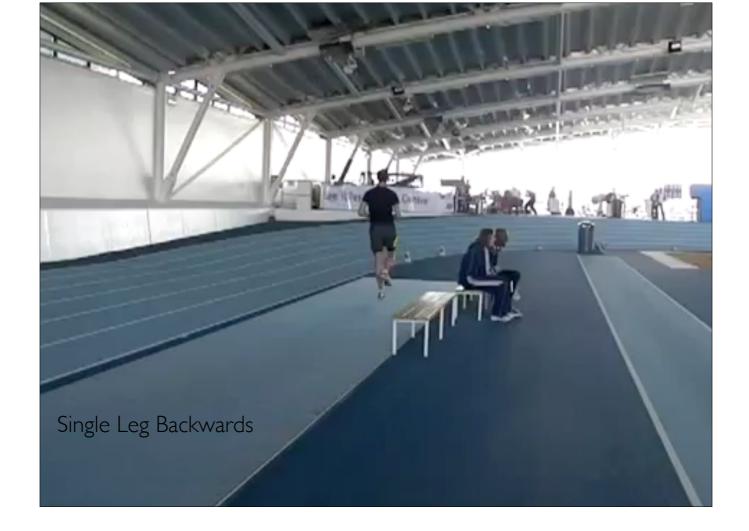


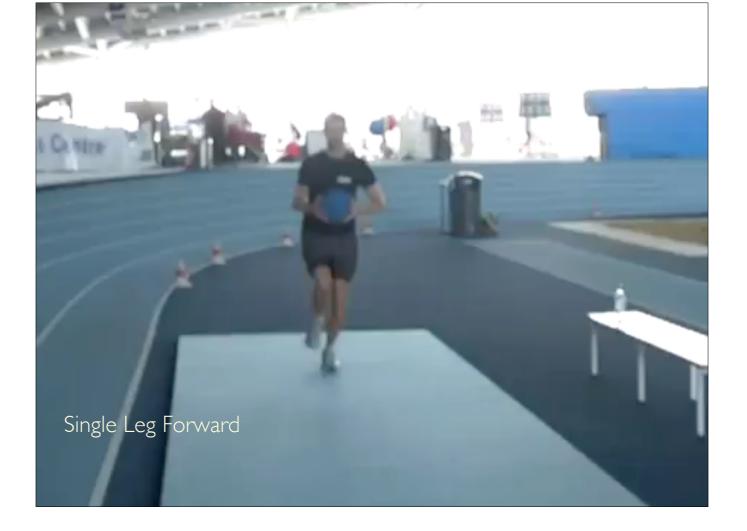


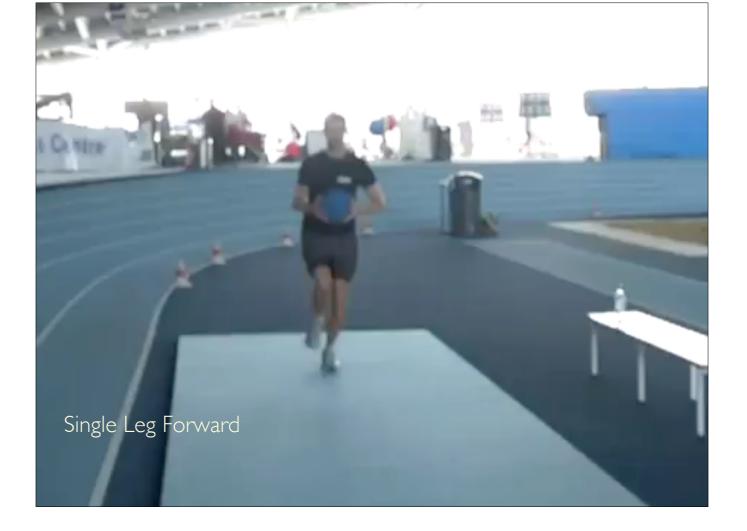


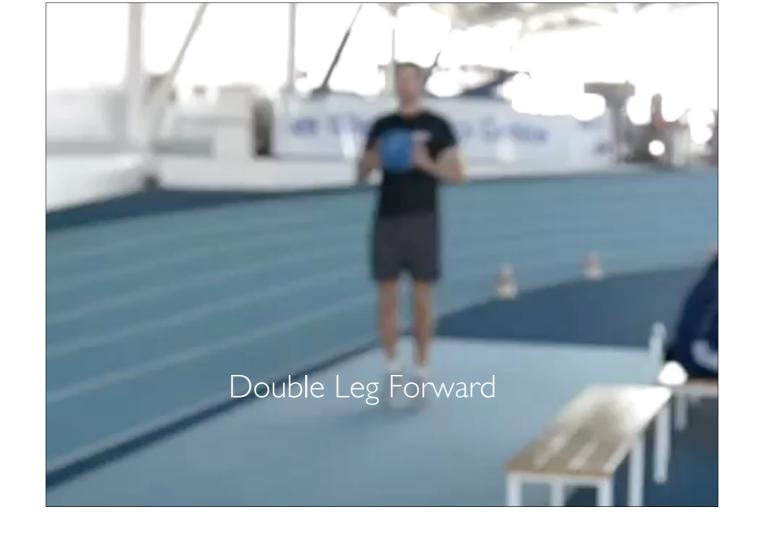


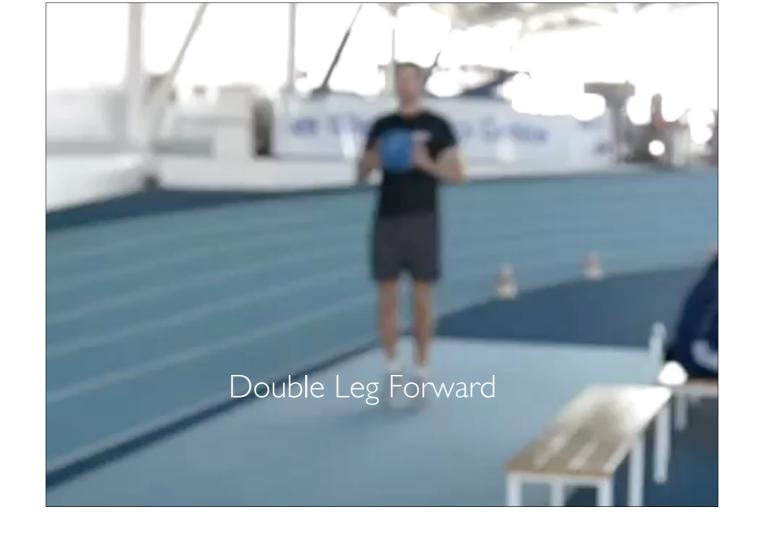


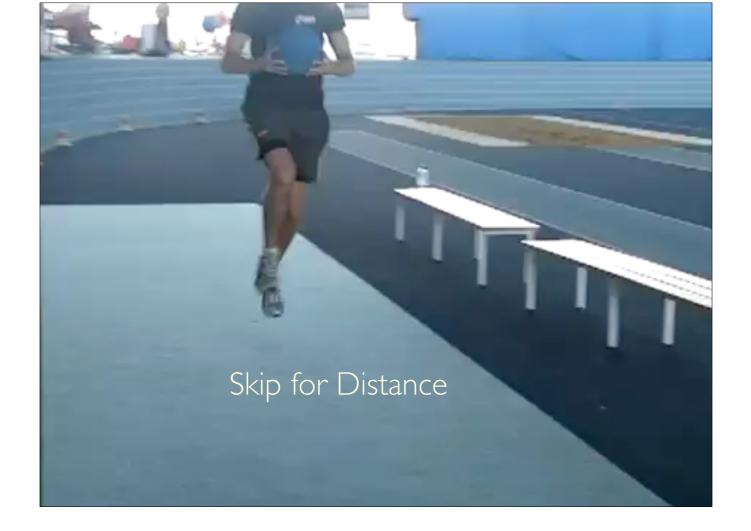


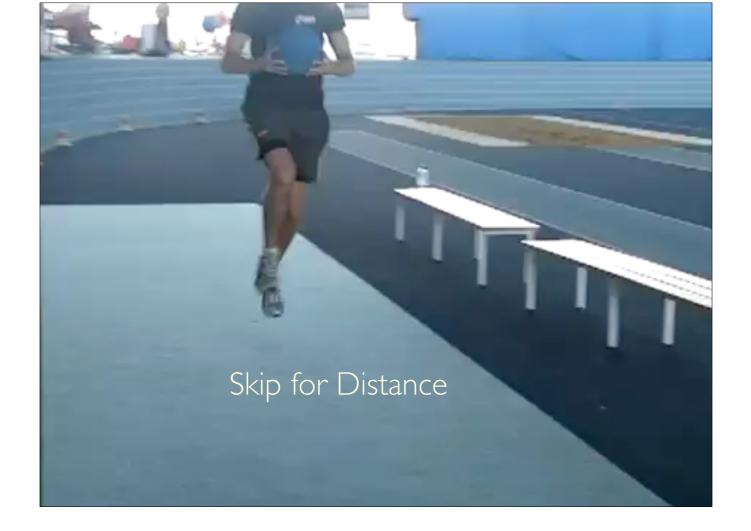


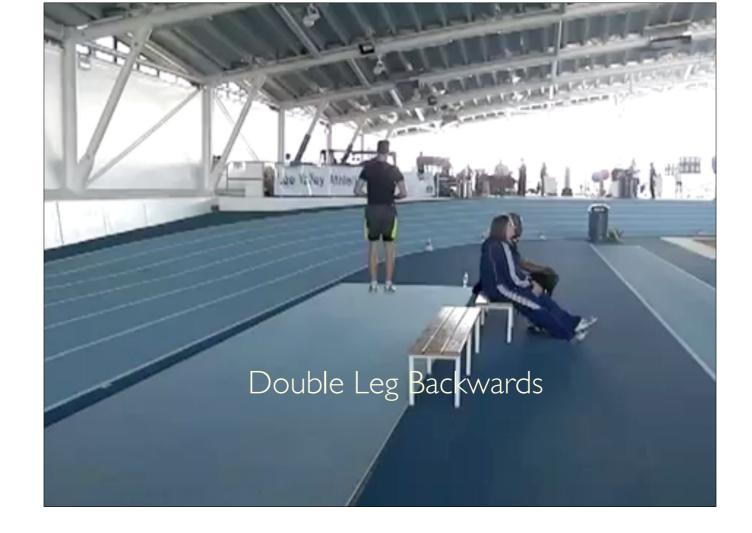


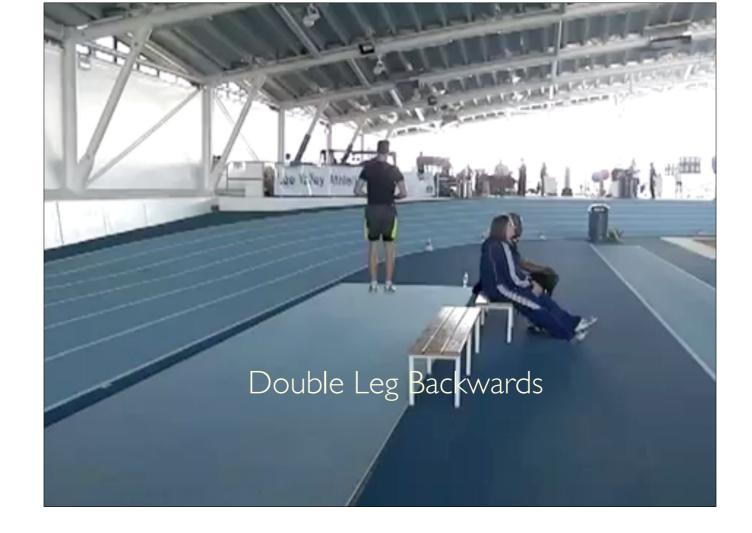
















THURSDAY, AUTUMN

- · Warm-up D
- Throws, General Multiple Ball Throwing
- · Relaxed Grass Runs or limited short run jumps series or approach work
- · General Strength Series
- Med Ball Series
- Hurdle Mobility Series
- Cool Down with 5' skipping
- · If a rest day is needed, this is the preferred day
- Parasympathetic Massage Session

FRIDAY, AUTUMN

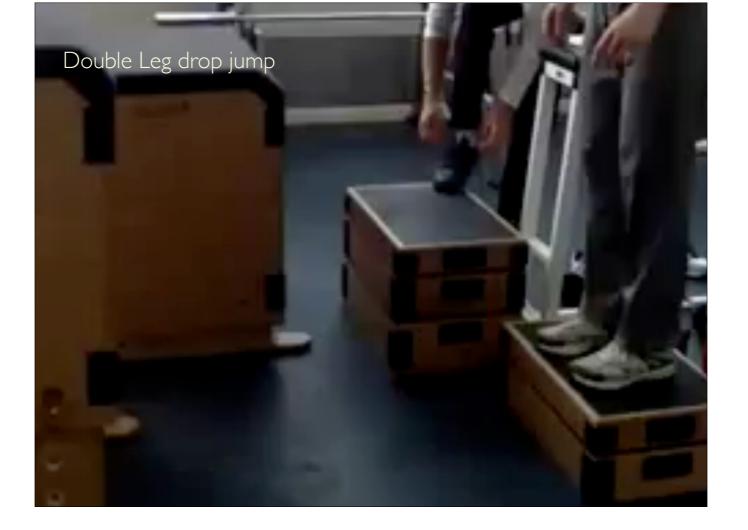
- · Warm-up E
- · Throws, SP or Discus, Progressions and Whole Sequencing
- Acceleration Development as Monday
- Multiple Throw Series or In Place Jump Circuits as prescribed to needs R=TBA
- · Wt. Training, as Monday with leg series box jump variants, axis emphasis
- · Cool Down as Prescribed
- Special Therapy Prescriptions

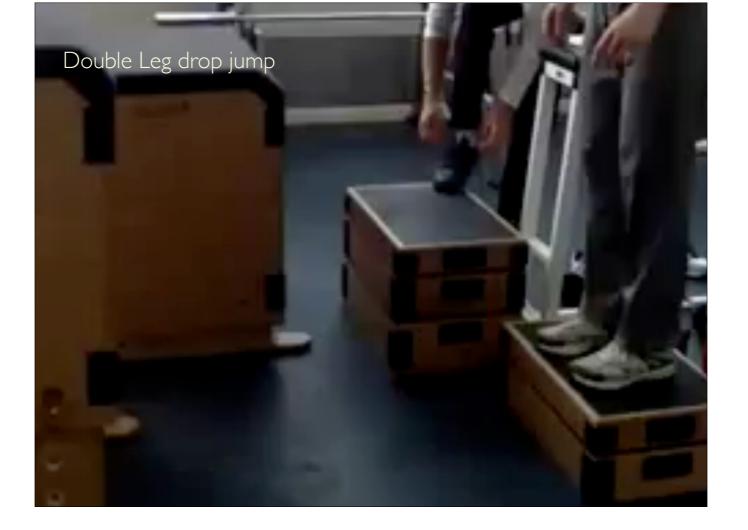
















SATURDAY, AUTUMN

- · Warm-up A
- · Speed Endurance Series; Rhythm and Mechanics
 - 10 x 90m or
 - 8 x 120 or
 - 6 x 150 all with 2'-5' recoveries, can set if needed
- · Special Walks Series with heavy implement
- Hurdle Mobility Series
- · Cool Down with 5' Jog/Skip/Side Shuffle
- · Therapies as based on week
- Hydrotherapy Session TBA

SUNDAY

 An active rest day or complete rest day depending on reaction to the week's work or athlete tendencies.

