

# LIST OF PUBLICATIONS USING DATA FROM NAMCS AND NHAMCS

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[http://www.cdc.gov/nchs/data/ahcd/namcs\\_nhamcs\\_publication\\_list.pdf](http://www.cdc.gov/nchs/data/ahcd/namcs_nhamcs_publication_list.pdf)

*Ambulatory and  
Hospital Care  
Statistics  
Branch/Division of  
Health Care  
Statistics/National  
Center for Health  
Statistics/Centers  
for Disease Control  
and Prevention*

# **National Ambulatory Medical Care Survey (NAMCS) and National Hospital Ambulatory Medical Care Survey (NHAMCS) List of Publications (03/18/2022)**

This list includes reports produced within the National Center for Health Statistics as well as journal articles and books using NAMCS and NHAMCS data. Selections are listed by topic in chronological order, beginning with the most recent in each section. NCHS reports comprise several different formats: *Advance Data from Vital Statistics* reports (ADR) are short summaries, generally not more than 32 pages in length. As of January 2008, this format became *National Health Statistics Reports* (NHSR). *Vital and Health Statistics Series* reports present detailed descriptive statistics. *Data Briefs* are a shorter NCHS report format, generally no more than 8 pages, that was initiated in 2007. Some overlap of topics will be apparent in certain articles and these may be cross-indexed.

NAMCS was conducted annually from 1973-1981, again in 1985, and has been an annual survey since 1989. NHAMCS was first conducted in 1992; publications summarizing those data can be found after the NAMCS listings.

## **NATIONAL AMBULATORY MEDICAL CARE SURVEY**

### **1a. NCHS SUMMARY REPORTS AND DATA BRIEFS**

NOTE: Beginning with 2008 NAMCS data, the traditional summary reports are no longer available. Instead, short reports featuring new data focused on a particular topic are being published in the NCHS *Data Brief* series. Also available at the NAMCS/NHAMCS [website](#) are [web tables](#), starting with 2008 data, which include many of the tables previously published in the annual summary reports. The NCHS summary reports and data briefs cited below can be found [here](#).

#### **Data Briefs**

Ashman JJ, Santo L, Okeyode T. [Characteristics of office-based physician visits, 2018](#). NCHS Data Brief, no 408. Hyattsville, MD: National Center for Health Statistics. 2021.

Ashman JJ, Rui P, Okeyode T. [Characteristics of office-based physician visits, 2016](#). NCHS Data Brief, no 331. Hyattsville, MD: National Center for Health Statistics. 2019.

Cherry D, Albert M, McCaig LF. [Mental health-related physician office visits by adults aged 18 and over: United States, 2012–2014](#). NCHS Data Brief, no 311. Hyattsville, MD: National Center for Health Statistics. 2018.

Ashman JJ, Rui P, Okeyode T. [Characteristics of office-based physician visits, 2015](#). NCHS Data Brief, no 310. Hyattsville, MD: National Center for Health Statistics. 2018.

Ashman JJ, Rui P, Okeyode T. [Characteristics of office-based physician visits, 2014](#). NCHS data brief, no 292. Hyattsville, MD: National Center for Health Statistics. 2017.

Albert M, Rui P, Ashman JJ. [Physician Office Visits for Attention-deficit/Hyperactivity Disorder in Children and Adolescents Aged 4-17 Years: United States, 2012-2013](#). NCHS Data Brief, no. 269. Hyattsville, MD: National Center for Health Statistics. 2017.

Ashman JJ, Rui P, Schappert SM. [Age Differences in Visits to Office-based Physicians by Adults With Hypertension: United States, 2013](#). NCHS data brief, no 263. Hyattsville, MD: National Center for Health Statistics. 2016.

[State Variation in Electronic Sharing of Information in Physician Offices: United States, 2015](#) [Data Brief No. 261]

[Physician Office Visits by Children for Well and Problem-focused Care: United States, 2012](#) [Data Brief No. 248]

[Characteristics of Physician Office Visits for Obesity by Adults Aged 20 and Over: United States, 2012](#) [Data Brief No. 237]

[Adoption of Certified Electronic Health Record Systems and Electronic Informaion Sharing in Physician Offices: United States, 2013 and 2014](#) [Data Brief No. 236]

[State Variation in Preventive Care Visits, by Patient Characteristics, 2012](#) [Data Brief, No. 234]

[Variation in Physician Office Visit Rates by Patient Characteristics and State, 2012](#). [Data Brief No. 212]

[Acceptance of New Patients With Public and Private Insurance by Office-based Physicians: United States, 2013](#) [Data Brief No. 195]

[Age Differences in Visits to Office-based Physicians by Patients With Diabetes: United States, 2010](#) [Data Brief No. 161]

[State Variability in Supply of Office-based Primary Care Providers: United States, 2012](#) [Data Brief No. 151]

[Use and Characteristics of Electronic Health Record Sysrtems Among Office-based Physician Practices: United States, 2001-2013](#) [Data Brief No. 143]

[Physician Experience With Electronic Health Record Systems That Meet Meaningful Use Criteria: NAMCS Physidcian Workflow Survey, 2011](#) [Data Brief No. 129]

[Use and Characteristics of Electronic Health Record Systems Among Office-based Physician Practices: United States, 201-2012](#) [Data Brief No. 111]

[Physician Adoption of Electronic Health Record Systems: United States, 2011](#) [Data Brief No. 98]

[Office-based Physician Practices: United States, 2001-2011](#) [Data Brief No. 79]

[Nurse Practitioners, Certified Nurse Midwives, and Physician Assistants in Physician Offices](#) [Data Brief No. 69]

[Community Health Centers: Providers, Patients and Content of Care](#) [Data Brief No. 65]

## Summary Reports

Akinbami LJ, Santo L, Williams S, Rechtsteiner EA, Strashny A. Characteristics of asthma visits to physician offices in the United States: 2012–2015 National Ambulatory Medical Care Survey. National Health Statistics Reports; no 128. Hyattsville, MD: National Center for Health Statistics. 2019.

Ambulatory Medical Care Utilization Estimates for 2007 [Series 13 No. 169]

2006 NAMCS Summary [NHSR No. 3]

Ambulatory Medical Care Utilization Estimates for 2006 [NHSR No. 8]

2005 NAMCS Summary [ADR No. 387]

Ambulatory Medical Care Utilization Estimates for 2005 [ADR No. 388]

Medication Therapy in Ambulatory Medical Care: United States, 2003-04 [Series 13 No. 163]  
 2004 NAMCS Summary [ADR No. 374]  
 Ambulatory Care Visits to Physician Offices, Hospital Outpatient Departments, and Emergency Departments:  
 United States, 2001-2002 [Series 13 No.159]  
 2003 NAMCS Summary [ADR No. 365]  
 Ambulatory Care Visits to Physician Offices, Hospital Outpatient Departments, and Emergency Departments:  
 United States, 1999-2000 [Series 13 No. 157]  
 2002 NAMCS Summary [ADR No. 346]  
 2001 NAMCS Summary [ADR No. 337]  
 2000 NAMCS Summary [ADR No. 328]  
 1999 NAMCS Summary [ADR No. 322]  
 1998 NAMCS Summary [ADR No. 315]  
 Ambulatory Care Visits to Physician Offices, Hospital Outpatient Departments, and Emergency Departments:  
 United States, 1997 [Series 13, No. 143]  
 1995-96 NAMCS Summary [Series 13, No. 142]  
 1997 NAMCS Summary [ADR No. 305]  
 1993 NAMCS Summary [Series 13, No. 136]  
 Ambulatory Care Visits to Physician Offices, Hospital Outpatient Departments, and Emergency Departments:  
 United States, 1996 [Series 13, No. 134]  
 1996 NAMCS Summary [ADR No. 295]  
 Ambulatory Care Visits to Physician Offices, Hospital Outpatient Departments, and Emergency Departments:  
 United States, 1995 [Series 13, No. 129]  
 1995 NAMCS Summary [ADR No. 286]  
 1994 NAMCS Summary [ADR No. 273]  
 1993 NAMCS Summary [ADR No. 270]  
 1992 NAMCS Summary [ADR No. 253]  
 1991 NAMCS Summary [Series 13, No. 116]  
 1991 NAMCS Summary [ADR No. 230]  
 1990 NAMCS Summary [ADR No. 213]  
 1989 NAMCS Summary [Series 13, No. 110]  
 1989 NAMCS Summary [ADR No. 203]  
 NAMCS Trends, 1975-1981 and 1985 [Series 13, No. 93]  
 1985 NAMCS Summary [ADR No. 128]  
 1981 NAMCS Summary [ADR No. 88]  
 1980 NAMCS Summary [ADR No. 77]  
 NAMCS Complement Survey, 1980 [Series 13, No. 77]  
 1979 NAMCS Summary [Series 13, No. 66]  
 1979 NAMCS Summary [ADR No. 66]  
 1978 NAMCS Summary [ADR No. 60]  
 1977 NAMCS Summary [Series 13, No. 44]  
 1977 NAMCS Summary [ADR No. 48]  
 1976 NAMCS Summary [ADR No. 30]  
 1975 NAMCS Summary [Series 13, No. 33]  
 1975 NAMCS Summary [ADR No. 12]  
 1973 NAMCS Summary [Series 13, No. 21]  
 NAMCS: May 1973-April 1974 [Monthly Vital Statistics Report, Vol. 24, No. 4, Supplement (2), July 14, 1975]

## **1b. SUMMARY REPORTS – JOURNAL ARTICLES USING NAMCS DATA**

Barnett ML, Linder JA, Clark CR, Sommers BD. Low-Value Medical Services in the Safety-Net Population. *JAMA Intern Med.* 2017 Apr 10. doi: 10.1001/jamainternmed.2017.0401. [Epub ahead of print]

Mafi JN, Wee CC, Davis RB, Landon BE. Association of Primary Care Practice Location and Ownership With the Provision of Low-Value Care in the United States. *JAMA Intern Med.* 2017 Apr 10. doi: 10.1001/jamainternmed.2017.0410. [Epub ahead of print]

Pemberton MR, Bose J, Kilmer G, Kroutil LA, Forman-Hoffman VL, Gfroerer JC. Comparison of NSDUH Health and Health Care Utilization Estimates to Other National Data Sources. *CBHSQ Data Review.* Rockville (MD): Substance Abuse and Mental Health Services Administration (US); 2012-.

Lau DT, McCaig LF, Hing E. Toward a More Complete Picture of Outpatient, Office-Based Health Care in the U.S. *Am J Prev Med.* 2016 Apr 5. pii: S0749-3797(16)30003-4. doi: 10.1016/j.amepre.2016.02.028. [Epub ahead of print]

Dieleman JL, Baral R, Birger M, Bui A. et al. US Spending on Personal Health Care and Public Health, 1996-2013. December 27, 2016. *JAMA.* 2016;316(24):2627-2646. doi:10.1001/jama.2016.16885

Wilson FA, Stimpson JP, Wang Y. [Inconsistencies Exist in National Estimates of Eye Care Services Utilization in the United States.](#) *J Ophthalmol.* 2015;2015:435606. doi: 10.1155/2015/435606. Epub 2015 Aug 9.

Kale MS, Bishop TF, Federman AD, Keyhani S. Trends in the Overuse of Ambulatory Health Care Services in the United States. *Arch Intern Med.* 2012 Dec 24;1-7. doi: 10.1001/2013.jamainternmed.1022. [Epub ahead of print]

Pitts SR, Carrier ER, Rich EC, Kellerman AL. Where Americans Get Acute Care: Increasingly, It's Not At Their Doctor's Office. *Health Affairs*, 29, no. 9 (2010): 1620-1629. doi: 10.1377/hlthaff.2009.1026

## **2a. PHYSICIAN SPECIALTY, PRACTICE CHARACTERISTICS - NCHS REPORTS**

Ashman JJ, Rui P, Schappert SM, Strashny A. Characteristics of Visits to Primary Care Physicians by Adults Diagnosed With Hypertension. *Natl Health Stat Report.* 2017 Sep;(106):1-14.

Routine prenatal care visits by provider specialty in the United States, 2009-2010 [Data Brief No. 145]

Generalist and Specialty Physicians: Supply and Access, 2009–2010 [Data Brief No. 105]

Nurse Practitioners, Certified Nurse Midwives, and Physician Assistants in Physician Offices (Data from the 2009 NAMCS) [Data Brief No. 69]

Community Health Centers: Providers, Patients, and Content of Care [Data Brief No. 65]

Visits to Primary Care Delivery Sites: United States, 2008 [Data Brief No. 47]

Office Visits to Orthopedic Surgeons: United States, 1995-96 [ADR No. 302]

Office Visits to Neurologists: 1991-92 [ADR No. 267]

Office Visits to Dermatologists: 1989-90 [ADR No. 240]

Office Visits to Psychiatrists: 1989-90 [ADR No. 237]

Office Visits to Urologists: 1989-90 [ADR No. 234]

Office Visits to General Surgeons: 1989-90 [ADR No. 228]

Office Visits to Cardiovascular Disease Specialists: 1989-90 [ADR No. 226]

Office Visits to Obstetricians and Gynecologists: 1989-90 [ADR No. 223]

Office Visits to Otolaryngologists: 1989-90 [ADR No. 222]

Office Visits to Internists: 1989 [ADR, No. 209]

Office Visits to Pediatric Specialists: 1989 [ADR No. 208]

Office Visits to Cardiovascular Disease Specialists: 1985 [ADR No. 171]

Practice Patterns of Ophthalmologists: 1985 [ADR No. 162]

Office Visits to Neurologists: 1985 [ADR No. 158]

Office Visits to Psychiatrists: 1985 [Series 13, No. 94]

Highlights of Osteopathic Office Practice, 1985 [ADR No. 138]

Office Visits to Orthopedic Surgeons: 1980-81 [ADR No. 117]

Patterns of Ambulatory Care in Internal Medicine: 1980-81 [Series 13, No. 80]

Patterns of Ambulatory Care in Visits to General Surgeons: 1980-81 [Series 13, No. 79]

Patterns of Ambulatory Care in Obstetrics and Gynecology: 1980-81 [Series 13, No. 76]  
Patterns of Ambulatory Care in Pediatrics: 1980-81 [Series 13, No. 75]  
Patterns of Ambulatory Care in General and Family Practice: 1980-81 [Series 13, No. 73]  
Office Visits for Preventive Care: 1977-78 [ADR No. 69]  
Characteristics of Visits to Female and Male Physicians: 1977 [Series 13, No. 49]  
Office Visits to Cardiovascular Disease Specialists: 1975-76 [ADR No. 42]  
Office Visits to Urologists: 1975-76 [ADR No. 39]  
Office Visits to Internists: 1975 [Series 13, No. 36]  
Office Visits to Psychiatrists: 1975-76 [ADR No. 38]  
Office Visits to Dermatologists: 1975-76 [ADR No. 37]  
Office Visits to Otolaryngologists: 1975-76 [ADR No. 36]  
Office Visits to Orthopedic Surgeons: 1975-76 [ADR No. 33]  
Office Visits to Doctors of Osteopathy: 1975 [ADR No. 25]  
Office Visits to General Surgeons: 1975 [ADR No. 22]  
Office Visits to Obstetricians and Gynecologists: 1975 [ADR No. 20]  
Office Visits to Internists: 1975 [ADR, No. 16]  
Office Visits to General and Family Practitioners: 1975 [ADR No. 15]  
Ambulatory Medical Care Rendered in Pediatricians' Offices During 1975 [ADR No. 13]  
Office Visits to General and Family Physicians: 1974 [Monthly Vital Statistics Report, Vol 25, No. 2, Supplement (2), May 18, 1976]  
Also:

The Treatment Practices of Black Physicians. Prepared by Koba Associates for U.S. Department of Health, Education, and Welfare, Public Health Service, Health Resources Administration, Office of Health Resources Opportunity. DHEW Publication No. (HRA) 80-628. April 1979.

## **2b. PHYSICIAN SPECIALTY, PRACTICE CHARACTERISTICS - JOURNAL ARTICLES USING NAMCS DATA**

Peck GM, Roberson FA, Feldman SR. Why Do Patients in the United States Seek Care from Dermatologists? *Dermatol Ther (Heidelb)*. 2022 Mar 14. doi: 10.1007/s13555-022-00706-0. Online ahead of print. PMID: 35286613

Peck GM, Fleischer AB Jr. Workforce Requirements for Skin Cancer and Related Skin Tumors Continue to Increase: Clinicians Expend an Average of 1,740 Full-Time Effort Years Annually. *Dermatol Surg*. 2022 Mar 2. doi: 10.1097/DSS.0000000000003413. Online ahead of print. PMID: 35245231

Lee J, Chang CH, Yung R, Bynum JPW. Provider Specialty and the Use of Disease-Modifying Antirheumatic Drugs for Rheumatoid Arthritis Among Older Adults in the 2005-2016 National Ambulatory Medical Care Survey. *ACR Open Rheumatol*. 2022 Jan 17. doi: 10.1002/acr2.11406. Online ahead of print. PMID: 35040280 Free article.

Oulee A, Javadi SS, Martin A, Do T, Wu JJ. Phototherapy trends in dermatology 2015-2018. *J Dermatolog Treat*. 2021 Dec 20:1-2. doi: 10.1080/09546634.2021.2019660. Online ahead of print. PMID: 34913808

Tadmon D, Olsson M. Trends in Outpatient Psychotherapy Provision by U.S. Psychiatrists: 1996-2016. *Am J Psychiatry*. 2021 Dec 8:appiajp202121040338. doi: 10.1176/appi.ajp.2021.21040338. Online ahead of print. PMID: 34875872

Burstein DS, Liss DT, Linder JA. Association of Primary Care Physician Compensation Incentives and Quality of Care in the United States, 2012-2016. *J Gen Intern Med*. 2021 Apr 14. doi: 10.1007/s11606-021-06617-8. Online ahead of print. PMID: 33852143

Jabbarpour Y, Jetty A, Westfall M, Westfall J. Not Telehealth: Which Primary Care Visits Need In-Person Care? *J Am Board Fam Med*. 2021 Feb;34(Suppl):S162-S169. doi: 10.3122/jabfm.2021.S1.200247. PMID: 33622832

- Jetty A, Jabbarpour Y, Westfall M, Kamerow DB, Petterson S, Westfall JM. Capacity of Primary Care to Deliver Telehealth in the United States. *J Am Board Fam Med.* 2021 Feb;34(Suppl):S48-S54. doi: 10.3122/jabfm.2021.S1.200202. PMID: 33622818
- Martin A, Liu J, Thatiparthi A, Wu JJ. Free open access data sources for dermatology researchers. *Dermatol Online J.* 2021 Feb 15;27(2):13030/qt10g0d18c. PMID: 33818976
- Singh I, Chat VS, Uy A, Borba A, Chen AY, Armstrong AW. Who Sees you Matters: A Population Study Examining Topical Corticosteroid Prescribing Patterns between Primary Care Providers and Dermatologists for Atopic Dermatitis. *J Dermatolog Treat.* 2020 Oct 12:1-14. doi: 10.1080/09546634.2020.1836311. Online ahead of print. PMID: 33043730
- Muddasani S, Peck G, Fleischer AB Jr. Dermatologists are increasing their use of non-opioid pain medications faster than opioids. *J Dermatolog Treat.* 2020 Oct 12:1-4. doi: 10.1080/09546634.2020.1832188. Online ahead of print. PMID: 33019820
- Miksaneck TJ, Skandari MR, Ham SA, Lee WW, Press VG, Brown MT, Laiteerapong N. The Productivity Requirements of Implementing a Medical Scribe Program. *Ann Intern Med.* 2020 Oct 6. doi: 10.7326/M20-0428. Online ahead of print. PMID: 33017564
- Panken EJ, Fantus RJ, Chang C, Kashanian JA, Helfand BT, Brannigan RE, Bennett NE, Halpern JA. Epidemiology and Diagnosis of Erectile Dysfunction by Urologists Versus Non-Urologists in the United States: An Analysis of the National Ambulatory Medical Care Survey. *Urology.* 2020 Sep 24:S0090-4295(20)31167-5. doi: 10.1016/j.urology.2020.09.016. Online ahead of print. PMID: 32979379
- Najmabadi S, Honda TJ, Hooker RS. Collaborative practice trends in US physician office visits: an analysis of the National Ambulatory Medical Care Survey (NAMCS), 2007-2016. *BMJ Open.* 2020 Jun 21;10(6):e035414. doi: 10.1136/bmjopen-2019-035414. PMID: 32565462
- Ward BW, Myrick KL, Cherry DK. Physician Specialty and Office Visits Made by Adults With Diagnosed Multiple Chronic Conditions: United States, 2014-2015. *Public Health Rep.* 2020 May/Jun;135(3):372-382. doi: 10.1177/0033354920913005. Epub 2020 Apr 8.
- Corallo B, Proser M, Nocon R. Comparing Rates of Multiple Chronic Conditions at Primary Care and Mental Health Visits to Community Health Centers Versus Private Practice Providers. *J Ambul Care Manage.* 2020 Apr/Jun;43(2):136-147. doi: 10.1097/JAC.0000000000000324.
- Goodson JD, Shahbazi S, Rao K, Song Z. Differences in the Complexity of Office Visits by Physician Specialty: NAMCS 2013-2016. *J Gen Intern Med.* 2020 Mar 10. doi: 10.1007/s11606-019-05624-0. [Epub ahead of print]
- Geissler KH. Differences in referral patterns for rural primary care physicians from 2005 to 2016. *Health Serv Res.* 2019 Dec 17. doi: 10.1111/1475-6773.13244. [Epub ahead of print]
- Geissler KH, Zeber JE. Primary Care Physician Referral Patterns for Behavioral Health Diagnoses. *Psychiatr Serv.* 2020 Jan 3:appips201900004. doi: 10.1176/appi.ps.201900004. [Epub ahead of print]
- Jing X, Himawan L, Law T. Availability and usage of clinical decision support systems (CDSSs) in office-based primary care settings in the USA. *BMJ Health Care Inform.* 2019 Dec;26(1). pii: e100015. doi: 10.1136/bmjhci-2019-100015.
- Rao A, Shi Z, Ray KN, Mehrotra A, Ganguli I. National Trends in Primary Care Visit Use and Practice Capabilities, 2008-2015. *Ann Fam Med.* 2019 Nov;17(6):538-544. doi: 10.1370/afm.2474.

Pathman DE. Changes in Rates and Content of Primary Care Visits Within an Evolving Health Care System. *Ann Fam Med*. 2019 Nov;17(6):482-484. doi: 10.1370/afm.2477. No abstract available.

O'Neill TR, Peabody MR, Stelter KL, Puffer JC, Brady JE. Validating the Test Plan Specifications for the American Board of Family Medicine's Certification Examination. *J Am Board Fam Med*. 2019 Nov-Dec;32(6):876-882. doi: 10.3122/jabfm.2019.06.190088.

Oronce CIA, Fortuna RJ. Differences in Rates of High-Value and Low-Value Care Between Community Health Centers and Private Practices. *J Gen Intern Med*. 2019 Nov 19. doi: 10.1007/s11606-019-05544-z. [Epub ahead of print]

Li J, Chen A, Parks M, Ghosh A, Casalino LP. County-Level Unemployment Rates and Service Intensity in Primary Care Physician Offices for Medicare Patients. *Med Care Res Rev*. 2019 Aug 31;1077558719872864. doi: 10.1177/1077558719872864. [Epub ahead of print]

Samples H, Stuart EA, Saloner B, Barry CL, Mojtabai R. The Role of Screening in Depression Diagnosis and Treatment in a Representative Sample of US Primary Care Visits. *J Gen Intern Med*. 2019 Aug 6. doi: 10.1007/s11606-019-05192-3. [Epub ahead of print]

Garcia Mosqueira A, Rosenthal M, Barnett ML. The Association Between Primary Care Physician Compensation and Patterns of Care Delivery, 2012-2015. *Inquiry*. 2019 Jan-Dec;56:46958019854965. doi: 10.1177/0046958019854965.

Chou S-H, Venkatesh AK, Trueger NS, Pitts SR. Primary Care Office Visits For Acute Care Dropped Sharply In 2002–15, While ED Visits Increased Modestly, *Health Affairs* 38, No. 2 (2019): 268–275. doi: 10.1377/hlthaff.2018.05184

Komaravolu SS, Kim JJ, Singh S, Merchant AM. Colonoscopy utilization in rural areas by general surgeons: An analysis of the National Ambulatory Medical Care Survey. *Am J Surg*. 2019 Feb 13. pii: S0002-9610(18)31080-8. doi: 10.1016/j.amjsurg.2019.02.009. [Epub ahead of print]

Busch SH, Ndumele CD, Loveridge CF, Kyanko KA. Patient Characteristics and Treatment Patterns Among Psychiatrists Who Do Not Accept Private Insurance. *Psychiatr Serv*. 2018 Nov 20;appips201800014. doi: 10.1176/appi.ps.201800014. [Epub ahead of print]

Mojtabai R, Olfson M. Management of Common Medical Conditions by Office-Based Psychiatrists. *Psychiatr Serv*. 2017 Dec 1;appips201700255. doi: 10.1176/appi.ps.201700255. [Epub ahead of print]

Young RA, Burge S, Kumar KA, Wilson J. The Full Scope of Family Physicians' Work Is Not Reflected by Current Procedural Terminology Codes. *J Am Board Fam Med*. 2017 Nov-Dec;30(6):724-732. doi: 10.3122/jabfm.2017.06.170155.

Basu S, Landon BE, Williams JW Jr, Bitton A, Song Z, Phillips RS. Behavioral Health Integration into Primary Care: a Microsimulation of Financial Implications for Practices. *J Gen Intern Med*. 2017 Sep 12. doi: 10.1007/s11606-017-4177-9. [Epub ahead of print]

Gray B, Vandergrift J, Lipner RS, Green MM. Comparison of Content on the American Board of Internal Medicine Maintenance of Certification Examination With Conditions Seen in Practice by General Internists. *JAMA*. 2017 Jun 13;317(22):2317-2324. doi: 10.1001/jama.2017.6853.

Fitzpatrick SL, Stevens VJ. Adult obesity management in primary care, 2008-2013. *Prev Med*. 2017 Feb 20. pii: S0091-7435(17)30074-9. doi: 10.1016/j.yjmed.2017.02.020. [Epub ahead of print]



- Prasad SM, Alexander GC, Eggener SE. Prostate-specific antigen testing among primary care physicians and urologists: Patterns of care and impact of professional society guidelines. *J Clin Oncol*. 2012 Feb 10;30(5\_suppl):40.
- Scheel JR, Hippe DS, Chen LE, Lam DL, Lee JM, Elmore JG, Rahbar H, Partridge SC, Lee CI. Are Physicians Influenced by Their Own Specialty Society's Guidelines Regarding Mammography Screening? An Analysis of Nationally Representative Data. *AJR Am J Roentgenol*. 2016 Nov;207(5):959-964.
- Gates K, Petterson S, Wingrove P, Miller B, Klink K. You Can't Treat What You Don't Diagnose: An Analysis of the Recognition of Somatic Presentations of Depression and Anxiety in Primary Care. *Fam Syst Health*. 2016 Sep 5. [Epub ahead of print]
- Mainous AG 3rd, Tanner RJ, Baker R. Prediabetes Diagnosis and Treatment in Primary Care. *J Am Board Fam Med*. 2016 Mar-Apr;29(2):283-5. doi: 10.3122/jabfm.2016.02.150252.
- Fontil V, Bibbins-Domingo K, Nguyen OK, Guzman D, Goldman LE. Management of Hypertension in Primary Care Safety-Net Clinics in the United States: A Comparison of Community Health Centers and Private Physicians' Offices. *Health Serv Res*. 2016 Jun 10. doi: 10.1111/1475-6773.12516. [Epub ahead of print]
- Berkowitz Z, Nair N, Saraiya M. Providers' practice, recommendations and beliefs about HPV vaccination and their adherence to guidelines about the use of HPV testing, 2007 to 2010. *Prev Med*. 2016 Feb 26;87:128-131. doi: 10.1016/j.ypmed.2016.02.030. [Epub ahead of print]
- Licciardone JC. A National Study of Primary Care Provided by Osteopathic Physicians. *J Am Osteopath Assoc*. 2015 Dec 1;115(12):704-13. doi: 10.7556/jaoa.2015.145.
- Lee MG, Cross KJ, Yang WY, Sutton BS, Jiroutek MR. Frequency of asthma education in primary care in the years 2007-2010. *J Asthma*. 2015 Sep 18:1-7. [Epub ahead of print]
- Katerndahl D, Wood R, Jaén CR. Complexity of ambulatory care across disciplines. *Healthc (Amst)*. 2015 Jun;3(2):89-96. doi: 10.1016/j.hjdsi.2015.02.002. Epub 2015 Feb 27.
- McMorrow S, Long SK, Fogel A. Primary Care Providers Ordered Fewer Preventive Services For Women With Medicaid Than For Women With Private Coverage. *Health Aff (Millwood)*. 2015 Jun 1;34(6):1001-9. doi: 10.1377/hlthaff.2014.0907.
- Petterson SM, Liaw WR, Tran C, Bazemore AW. Estimating the residency expansion required to avoid projected primary care physician shortages by 2035. *Ann Fam Med*. 2015 Mar;13(2):107-14. doi: 10.1370/afm.1760.
- Renshaw SE, Saywell RM Jr, Burba JL, Butler AL, Zollinger TW, Kiovsky RD, Holley M, O'Hara B. Trends in patient encounters: implications for family medicine clerkships. *Fam Med*. 2014 Nov-Dec;46(10):761-9.
- Nelson KE, Hersh AL, Nkoy FL, Maselli JH, Srivastava R, Cabana MD. Primary care physician smoking screening and counseling for patients with chronic disease. *Prev Med*. 2014 Nov 28. pii: S0091-7435(14)00453-8. doi: 10.1016/j.ypmed.2014.11.010. [Epub ahead of print]
- Iyer SP, Young AS. Health screening, counseling, and hypertension control for people with serious mental illness at primary care visits. *Gen Hosp Psychiatry*. 2014 Oct 16. pii: S0163-8343(14)00265-5. doi: 10.1016/j.genhosppsy.2014.10.003. [Epub ahead of print]
- Chamberlin SR, Oberg E, Hanes DA, Calabrese C. Naturopathic practice at north american academic institutions: description of 300,483 visits and comparison to conventional primary care. *Integr Med Insights*. 2014 May 19;9:7-15. doi: 10.4137/IMI.S14124. eCollection 2014.

Edwards ST, Mafi JN, Landon BE. Trends and Quality of Care in Outpatient Visits to Generalist and Specialist Physicians Delivering Primary Care in the United States, 1997-2010. *J Gen Intern Med.* 2014 Feb 25. [Epub ahead of print]

Martires KJ, Kurlander DE, Minwell GJ, Dahms EB, Bordeaux JS. Patterns of cancer screening in primary care from 2005 to 2010. *Cancer.* 2013 Oct 25. doi: 10.1002/cncr.28403. [Epub ahead of print]

Bruen BK, Ku L, Lu X, Shin P. No Evidence That Primary Care Physicians Offer Less Care To Medicaid, Community Health Center, Or Uninsured Patients. *Health Aff September 2013 vol. 32 no. 9 1624-1630.* doi: 10.1377/hlthaff.2012.1300

Shaw M, Davis SA, Feldman SR, Fleischer AB. Decreasing frequency of office visits on Fridays. *J Dermatolog Treat.* 2013 Dec;24(6):405-7. doi: 10.3109/09546634.2013.844918.

Landis ET, Davis SA, Feldman SR, Taylor S. Complementary and Alternative Medicine Use in Dermatology in the United States. *J Altern Complement Med.* 2014 Feb 11. [Epub ahead of print]

Walsh CO, Milliren CE, Feldman HA, Taveras EM. Factors Affecting Subspecialty Referrals by Pediatric Primary Care Providers for Children With Obesity-Related Comorbidities. *Clin Pediatr (Phila).* 2013 May 13. [Epub ahead of print]

Luersen K, Dabade TS, West C, Davis SA, Feldman S. Phototherapy Trends in Dermatology. *J Dermatolog Treat.* 2013 May 20. [Epub ahead of print]

Rianon N, Anand D, Rasu R. Changing trends in osteoporosis care from specialty to primary care physicians. *Curr Med Res Opin.* 2013 May 29. [Epub ahead of print]

Chambers KJ, Bhattacharyya N. The increasing role of otolaryngology in the management of surgical thyroid disorders. *Laryngoscope.* 2013 Apr 1. doi: 10.1002/lary.24065. [Epub ahead of print]

Sakshaug JW, Miller DC, Hollenbeck BK, Wei JT, Hollingsworth JM. Urologists and the Patient-Centered Medical Home. *J Urol.* 2013 Apr 9. doi:pil: S0022-5347(13)04028-7. 10.1016/j.juro.2013.03.119. [Epub ahead of print]

Zickafoose JS, Clark SJ, Sakshaug JW, Chen LM, Hollingsworth JM. Readiness of Primary Care Practices for Certification. *Pediatrics.* 2013 Feb 4. [Epub ahead of print] [NAMCS]

Mehta H, Patel J, Parikh R, Abughosh S. Differences in Obesity Management Among Physicians. *Popul Health Manag.* 15(5):287-292. Oct 2012. 2012 Jul 12. [Epub ahead of print]

Bhattacharyya N. Characteristics and Trends in Ambulatory Otolaryngology Visits and Practices. *Otolaryngol Head Neck Surg.* 2012 Aug 7. [Epub ahead of print]

Goldman LE, Chu PW, Tran H, Romano MJ, Stafford RS. Federally qualified health centers and private practice performance on ambulatory care measures. *Am J Prev Med.* 2012 Aug;43(2):142-9.

Mehta H, Patel J, Parikh R, Abughosh S. Differences in Obesity Management Among Physicians. *Popul Health Manag.* 2012 Jul 12. [Epub ahead of print]

Kraschnewski JL, Sciamanna CN, Pollak KI, Stuckey HL, Sherwood NE. The epidemiology of weight counseling for adults in the United States: a case of positive deviance. *Int J Obes (Lond).* 2012 Jul 10. doi: 10.1038/ijo.2012.113. [Epub ahead of print]

- Fortuna RJ, Halterman JS, Pulcino T, Robbins BW. Delayed Transition of Care: A National Study of Visits to Pediatricians by Young Adults. *Acad Pediatr.* 12(5):405-411. Sep-Oct 2012. 2012 Jun 17. [Epub ahead of print]
- Kepka D, Berkowitz Z, Yabroff KR, Roland K, Saraiya M. Human papillomavirus vaccine practices in the USA: do primary care providers use sexual history and cervical cancer screening results to make HPV vaccine recommendations? *Sex Transm Infect.* 88(6):433-435. Oct 2012. 2012 Apr 21. [Epub ahead of print]
- Bishop TF, Federman AD, Ross JS. Association between physician quality improvement incentives and ambulatory quality measures. *Am J Manag Care.* 2012 Apr 1;18(4):e126-34.
- Karve S, Balkrishnan R, Seiber E, Nahata M, Levine DA. Population Trends and Disparities in Outpatient Utilization of Neurologists for Ischemic Stroke. *J Stroke Cerebrovasc Dis.* 2011 Dec 22. [Epub ahead of print]
- Hollingsworth JM, Saint S, Sakshaug JW, Hayward RA, Zhang L, Miller DC. Physician Practices and Readiness for Medical Home Reforms: Policy, Pitfalls, and Possibilities. *Health Serv Res.* 47(1 Pt 2):486-508. Feb 2012. 2011 Oct 18. doi: 10.1111/j.1475-6773.2011.01332.x. [Epub ahead of print]
- Licciardone JC, Singh KP. Sociodemographic and geographic characteristics associated with patient visits to osteopathic physicians for primary care. *BMC Health Serv Res.* 2011 Nov 4;11(1):303. [Epub ahead of print]
- The Good Stewardship Working Group. The "Top 5" Lists in Primary Care: Meeting the Responsibility of Professionalism. *Arch Intern Med.* 2011;171(15):1385-1390. doi:10.1001/archinternmed.2011.231
- Katerndahl D, Wood R, Jaén CR. Family Medicine Outpatient Encounters are More Complex Than Those of Cardiology and Psychiatry. *J Am Board Fam Med.* 2011 Jan-Feb;24(1):6-15.
- Hollingsworth JM, Birkmeyer JD, Zhang YS, Zhang L, Hollenbeck BK. Imaging Use Among Employed and Self-Employed Urologists. *J Urol.* 2010 Oct 16. [Epub ahead of print]
- Hing E, Hooker RS, Ashman JJ. Primary Health Care in Community Health Centers and Comparison with Office-Based Practice. *J Community Health.* 2010 Nov 3. [Epub ahead of print]
- Shi L, Lebrun LA, Tsai J, Zhu J. Characteristics of ambulatory care patients and services: a comparison of community health centers and physicians' offices. *J Health Care Poor Underserved.* 2010 Nov;21(4):1169-83.
- Ananthakrishnan AN, McGinley EL, Saeian K. Length of office visits for gastrointestinal disease: impact of physician specialty. *Am J Gastroenterol.* 2010 Aug;105(8):1719-25.
- Craig BM, Bell BA, Quinn GP, Vadaparampil ST. Prevalence of Cancer Visits by Physician Specialty, 1997-2006. *J Cancer Educ.* 2010 Mar 25. [Epub ahead of print]
- Bleich SN, Pickett-Blakely O, Cooper LA. Physician practice patterns of obesity diagnosis and weight-related counseling. *Patient Educ Couns.* 2010 Mar 18. [Epub ahead of print]
- Mojtabai R, Olfson M. National trends in psychotropic medication polypharmacy in office-based psychiatry. *Arch Gen Psychiatry.* 2010 Jan;67(1):26-36.
- Fang J, Keenan NL, Ayala C. Health care services provided during physician office visits for hypertension: differences by specialty. *J Clin Hypertens (Greenwich).* 2010 Feb 1;12(2):89-95.
- Decker SL, Burt CW, Sisk JE. Trends in diabetes treatment patterns among primary care providers. *J Ambul Care Manage.* 2009 Oct-Dec;32(4):333-341.
- Coco AS, Cohen D, Horst MA, Gambler AS. Trends in prenatal care settings: association with medical liability.

BMC Public Health. 2009 Jul 22;9:257.

Licciardone JC, Clearfield MB, Guillory VJ. Clinical practice characteristics of osteopathic and allopathic primary care physicians at academic health centers: results from the National Ambulatory Medical Care Survey. *Acad Med.* 2009 Jun;84(6):744-50.

Coco A. How often do physicians address other medical problems while providing prenatal care? *Ann Fam Med.* 2009 Mar-Apr;7(2):134-8.

Cohen D, Coco A. Declining trends in the provision of prenatal care visits by family physicians. *Ann Fam Med.* 2009 Mar-Apr;7(2):128-33.

Valderas JM, Starfield B, Forrest CB, Sibbald B, Roland M. Ambulatory care provided by office-based specialists in the United States. *Ann Fam Med.* 2009 Mar-Apr;7(2):104-11.

Fortuna RJ, Ting DY, Kaelber DC, Simon SR. Characteristics of medicine-pediatrics practices: results from the national ambulatory medical care survey. *Acad Med.* 2009 Mar;84(3):396-401.

Awadalla F, Rosenbaum DA, Camacho F, Fleischer AB Jr, Feldman SR. Dermatologic disease in family medicine. *Fam Med.* 2008 Jul-Aug;40(7):507-11.

Mojtabai R, Olfson M. National trends in psychotherapy by office-based psychiatrists. *Arch Gen Psychiatry.* 2008 Aug;65(8):962-70.

Housman TS, Hancox JG, Mir MR, Camacho F, Fleischer AB, Feldman SR, Williford PM. What Specialties Perform the Most Common Outpatient Cosmetic Procedures in the United States? *Dermatol Surg.* 2007 Dec 5; [Epub ahead of print]

Morgan PA, Strand J, Ostbye T, Albanese MA. Missing in action: care by physician assistants and nurse practitioners in national health surveys. *Health Serv Res.* 2007 Oct;42(5):2022-37.

Binns HJ, Lanier D, Pace WD, Galliher JM, Ganiats TG, Grey M, Ariza AJ, Williams R; Primary Care Network Survey (PRINS) Participants. Describing primary care encounters: the Primary Care Network Survey and the National Ambulatory Medical Care Survey. *Ann Fam Med.* 2007 Jan-Feb;5(1):39-47.

Licciardone JC. A comparison of patient visits to osteopathic and allopathic general and family medicine physicians: results from the National Ambulatory Medical Care Survey, 2003-2004. *Osteopath Med Prim Care.* 2007 Jan 12;1:2.

Sun C, Jew S, Dasta SL. Osteopathic physicians in the United States: antibiotic prescribing practices for patients with nonspecific upper respiratory tract infections. *J Am Osteopath Assoc.* 2006 Aug;106(8):450-5.

Serwint JR, Thoma KA, Dabrow SM, Hunt LE, Barratt MS, Shope TR, Darden PM. Comparing Patients Seen in Pediatric Resident Continuity Clinics and National Ambulatory Medical Care Survey Practices: A Study From the Continuity Research Network. *Pediatrics.* 2006 Aug 21; [Epub ahead of print]

Won JU, Dembe AE. Services provided by family physicians for patients with occupational injuries and illnesses. *Ann Fam Med.* 2006 Mar-Apr;4(2):138-47.

Wallace AE, MacKenzie TA, Weeks WB. Women's primary care providers and breast cancer screening: who's following the guidelines? *Am J Obstet Gynecol.* 2006 Mar;194(3):744-8.

Altman KW, Stephens RM, Lyttle CS. Changing Impact of Gastroesophageal Reflux in Medical and Otolaryngology Practice. *Laryngoscope.* 2005 Jul;115(7):1145-1153.

- Fiscella K, Franks P. Is patient HMO insurance or physician HMO participation related to racial disparities in primary care? *Am J Manag Care*. 2005 Jun;11(6):397-402.
- Neville JA, Housman TS, Letsinger JA, Fleischer AB Jr, Feldman SR, Williford PM. Increase in procedures performed at dermatology office visits from 1995 to 2001. *Dermatol Surg*. 2005 Feb;31
- Fang MC, McCarthy EP, Singer DE. Are patients more likely to see physicians of the same sex? Recent national trends in primary care medicine. *Am J Med*. 2004 Oct 15;117(8):575-81.
- Scholle SH, Chang J, Harman J, et al. Characteristics of patients seen and services provided in primary care visits in obstetrics/gynecology: Data from NAMCS and NHAMCS. *Am J Obstet Gynecol* 190 (4): 1119-1127 Apr 2004
- Stern RS. Dermatologists and office-based care of dermatologic disease in the 21st century. *J Investig Dermatol Symp Proc*. 2004 Mar;9(2):126-30.
- Freed GL, Nahra TA, Wheeler JR. Which physicians are providing health care to America's children? Trends and changes during the past 20 years. *Arch Pediatr Adolesc Med*. 2004 Jan; 158(1): 22-6.
- Boulet JR, Gimpel JR, Errichetti AM, Meoli FG. Using National Medical Care Survey data to validate examination content on a performance-based clinical skills assessment for osteopathic physicians. *J Am Osteopath Assoc*. 2003 May;103(5):225-31.
- Franks P, Bertakis KD. Physician gender, patient gender, and primary care. *J Womens Health (Larchmt)* 2003 Jan-Feb;12(1):73-80
- Probst JC, Moore CG, Baxley EG, et al. Rural-urban differences in visits to primary care physicians. *Fam Med* 34 (8): 609-615 Sep 2002
- Scholle SH, Chang JC, Harman J, McNeil M. Trends in women's health services by type of physician seen: data from the 1985 and 1997-98 NAMCS. *Womens Health Issues* 2002 Jul-Aug;12(4):165-77
- Mojtabai R. Diagnosing depression and prescribing antidepressants by primary care physicians: the impact of practice style variations. *Ment Health Serv Res* 2002 Jun;4(2):109-18
- Glied S, Zivin JG. How do doctors behave when some (but not all) of their patients are in managed care? *Journal of Health Economics* 21 (2): 337-353 Mar 2002
- Gehlbach SH, Fournier M, Bigelow C. Recognition of osteoporosis by primary care physicians. *Am J Public Health* 2002 Feb;92(2):271-3
- Mills AC, McSweeney M. Nurse practitioners and physician assistants revisited: Do their practice patterns differ in ambulatory care? *J Prof Nurs* 2002 Jan-Feb;18(1):36-46
- Hachmuth FA, Hootman JM. What impact on PA education? A snapshot of ambulatory care visits involving PAs. *JAAPA* 2001 Dec;14(12):22-4, 27-38; quiz 49-50
- Henderson RL, Fleischer AB, Feldman SR. Dermatologists and allergists have far more experience and use more complex treatment regimens in the treatment of atopic dermatitis than other physicians. *J Cutan Med Surg* 2001 May-Jun;5(3):211-6.
- Aparasu RR, Hegge M. Autonomous ambulatory care by nurse practitioners and physician assistants in office-based settings. *J Allied Health* 2001 Fall;30(3):153-9.

Feldman SR, Hollar CB, Gupta AK, Fleischer AB Jr. Women commonly seek care for rosacea: dermatologists frequently provide the care. *Cutis* 2001 Aug;68(2):156-160.

Hooker RS, McCaig LF. Use of physician assistants and nurse practitioners in primary care, 1995-1999. *Health Affairs*. 2001; 20:231-238.

Forrest CB, Reid RJ. Prevalence of health problems and primary care physicians' specialty referral decisions. *The Journal of Family Practice* May 2001; 50(5):427-432.

Henderson RL Jr, Fleischer AB Jr, Feldman SR. Allergists and dermatologists have far more expertise in caring for patients with urticaria than other specialists. *J Am Acad Dermatol* 2000 Dec;43(6):1084-1091

Dovey S, Green L, Fryer GE. Educating doctors to provide counseling and preventive care: Turning twentieth century professional values head over heels. *Education for Health* 2000;13:307-316.

Forrest CB, Whelan E. Primary care safety-net delivery sites in the United States: A comparison of community health centers, hospital outpatient departments, and physicians' offices. *JAMA* 2000; 284:2077-2083.

Paine LL, Johnson TR, Lang JM, Gagnon D, Declercq ER, DeJoseph J, Scupholme A, Strobino D, Ross A. A comparison of visits and practices of nurse-midwives and obstetrician-gynecologists in ambulatory care settings. *J Midwifery Womens Health* 2000 Jan-Feb;45(1):37-44.

Nutting PA, Baier M, Werner JJ, Cutter G, Reed FM, Orzano AJ. Practice patterns of family physicians in practice-based research networks: a report from ASPN (Ambulatory Sentinel Practice Network). *J Am Board Fam Pract* 1999 Jul-Aug;12(4):278-84.

Thompson TT, Feldman SR, Fleischer AB Jr. Only 33% of visits for skin disease in the US in 1995 were to dermatologists: is decreasing the number of dermatologists the appropriate response? *Dermatol Online J* 1998 Oct;4(1):3

Jackson JL, Strong J, Cheng EY, Meyer G. Patients, diagnoses, and procedures in a military internal medicine clinic: comparison with civilian practices. *Mil Med* 1999 Mar; 164(3): 194-7.

Ward MM. Provision of primary care by office-based rheumatologists: results from the National Ambulatory Medical Care Surveys, 1991-1995. *Arthritis Rheum* 1999 Mar; 42(3):409-414.

Moody NB, Smith PL, Glenn LL. Client characteristics and practice patterns of nurse practitioners and physicians. *Nurse Pract* 1999 Mar; 24(3): 94-6, 99-100, 102-3.

Olfson M, Marcus SC, Pincus HA. Trends in office-based psychiatric practice. *Am J Psychiatry* 1999 Mar;156(3):451-7.

Feldman SR, Fleischer AB Jr, Chen JG. The gatekeeper model is inefficient for the delivery of dermatologic services. *J Am Acad Dermatol* 1999 Mar;40(3):426-32.

Feldman SR, Fleischer AB Jr, Young AC, Williford PM. Time-efficiency of nondermatologists compared with dermatologists in the care of skin disease. *J Am Acad Dermatol* 1999 Feb;40(2 Pt 1):194-9.

Stafford RS et al. Trends in adult visits to primary care physicians in the United States. *Arch Fam Med*. 1999; 8:26-32.

Stafford RS, Blumenthal D. Specialty differences in cardiovascular disease prevention practices. *J Am Coll Cardio* 1998 Nov; 32(5):1238-43.

Jacobs J, Chapman EH, Crothers D. Patient characteristics and practice patterns of physicians using homeopathy. *Arch Fam Med* 1998 Nov-Dec;7(6):537-40.

Fleischer A Jr, Thompson T, Feldman S. Prevalence of skin conditions is high among elderly population, but majority of care provided by non-dermatologists. *Skin & Aging* 1998; 1: 8-9

Feldman SR, Peterson SR, Fleischer AB Jr. Dermatologists meet the primary care standard for first contact management of skin disease. *J Am Acad Dermatol* 1998 Aug;39(2 Pt 1):182-186.

Smith ES, Fleischer AB Jr., Feldman SR. Nondermatologists are more likely than dermatologists to prescribe antifungal/corticosteroid products: an analysis of office visits for cutaneous fungal infections, 1990-1994. *J Am Acad Dermatol* 1998 Jul; 39(1):43-47.

Feldman SR, Fleischer AB Jr., McConnell C. Most common dermatologic problems identified by internists, 1990-1994. *Arch Intern Med* 1998;158:726-730.

Fleischer AB, Jr., Feldman SR, McConnell C. The most common dermatologic problems identified by family physicians, 1990-1994. *Fam Med* 1997; 29(9):648-652.

Franks P, Clancy CM, Nutting PA. Defining primary care. Empirical analysis of the National Ambulatory Medical Care Survey. *Med Care* 1997 Jul;35(7):655-668.

Feldman SR et al. Increasing utilization of dermatologists by managed care: an analysis of the National Ambulatory Medical Care Survey, 1990-1994. *J Am Acad Dermatol* 1997;37:784-8.

Clancy CM, Franks P. Utilization of specialty and primary care: the impact of HMO insurance and patient-related factors. *J Fam Pract* Vol. 45, No. 6 (Dec), 1997. 500-508.

Prislin MD, Morohashi D, Jabola G. Practice-based preceptor training in family practice. *Fam Med* 1996. Nov-Dec; 28(10)L 708-712.

Feldman SR, Williford PM, Fleischer AB, Jr. Lower utilization of dermatologists in managed care: despite growth in managed care, visits to dermatologists did not decrease: an analysis of National Ambulatory Medical Care Survey data, 1990-1992. *J Invest Dermatol* 1996 Dec; 107(6): 860-4.

Landry DJ, Forrest JD. Private physicians' provision of contraceptive services. *Fam Plann Perspect* 1996. Sept.-Oct; 28(5):203-9.

Stern RS. Managed care and the treatment of skin diseases: dermatologists do it less often. *Arch Dermatol* 1996 Sep; 132(9): 1039-1042.

Menken, Matthew. The ambulatory workload of office-based neurologists: implications of the National Ambulatory Medical Care Survey. *Arch Neurol* April, 1996. Volume 53: 379-381.

Rosenblatt RA, Hart LG, Gamliel S, Goldstein B, McClendon BJ. Identifying primary care disciplines by analyzing the diagnostic content of ambulatory care. *J Am Board Fam Pract* 1995 Jan-Feb; 8(1): 34-45.

Scheid D, Logue E, Gilchrist VJ, Gillanders WR, Miller RS et al. Do we practice what we preach? Comparing the patients of faculty and residents. *Fam Med* 1995;27:519-524.

Papdakis MA, Kagawa MK. Categorical medicine residents' experiential curriculum. *Am J Med* 1995 Jan; 98(1): 7-12.

Chiang Y-P, Wang F, Javitt JC. Office visits to ophthalmologists and other physicians for eye care among the U.S. population, 1990. *Public Health Rep* March-April 1995, Vol. 110, No. 2, 147-153.

Leader S, Perales PJ. Provision of primary preventive health care services by obstetrician-gynecologists. *Obstet Gynecol* 1995; 85:391-5.

Krowchuk DP, Bradham DD, Fleisher AB Jr. Dermatologic services provided to children and adolescents by primary care and other physicians in the United States. *Pediatr Dermatol* 1994 Sep; 11(3) 199-203.

Blount BW, Hart G, Ehreth JL. A comparison of the content of Army family practice with nonfederal family practice. *J Am Board Fam Pract* 1994; 7:395-402.

Sastry SM, Chiang YP, Javitt JC. Practice patterns of the office-based ophthalmologist. *Ophthalmic Surg* 1994 Feb; 25(2): 76-81.

Rivo ML, Saultz JW, Wartman SA, DeWitt TG. Defining the generalist physician's training. *JAMA* 1994 May 18; 271(10): 1499-504.

Fleischer AB Jr., Feldman SR, Bradham DD. Office-based physician services provided by dermatologists in the United States in 1990. *J Invest Dermatol* 1994 Jan; 102 (1):93-7.

Wartman SA, Modena W, Kahn N. The generalist health care workforce: issues and goals. *J Gen Intern Med* 1994;9, Supplement 1 (April):S7-S13.

Unger, WJ. Implications of healthcare reform for cardiologists. *Journal of Invasive Cardiology* Vol. 6, No. 2, March 1994. 36-40.

Gilchrist V, Miller RS, Gillanders WR, Scheid DC et al. Does family practice at residency teaching sites reflect community practice? *J Fam Pract* 37(6):555-563. December, 1993.

Conrad DA. Coordinating patient care services in the regional health systems: the challenge of clinical integration. *Hospital and Health Services Administration* 38(4). Winter 1993. 491-508.

Green LA, Miller RS, Reed FM, Iverson DC, Barley GE. How representative of typical practice are practice-based research networks? A report from the Ambulatory Sentinel Practice Network Inc (ASPN). *Arch Fam Med* 1993 Sep; 2(9): 939-49.

Javitt JC, Chiang YP. Preparing for managed competition: utilization of ambulatory care eye visits to ophthalmologists. *Arch Ophthalmol* Vol. 111, August 1993. 1034-1035.

Barondess JA. The future of generalism. *Ann Intern Med* 1993; 119: 153-160.

Stern RS, Nelson C. The diminishing role of the dermatologist in the office-based care of cutaneous diseases. *J Am Acad Dermatol* 1993; 29; 773-7.

Greer T, Schneeweiss R, Baldwin LM. A comparison of student clerkship experiences in community practices and residency-based clinics. *Fam Med* 1993 May. 25(5): 322-6.

Olfson M, Goldman, HH. Psychiatric outpatient practice: patterns and policies. *Am J Psychiatry* 149:11, November 1992, 1492-8.

American College of Obstetricians and Gynecologists, Department of Health Economics Analysis. Office Visits to U.S. Obstetrician-Gynecologists: 1975 and 1989. *Economic Impact* July, 1991.

Conry CM, Pace WD, Main DS. Practice style differences between family physicians and internists. *J Am Board Fam Pract* 1991 Nov-Dec; 4(6): 399-406.



Ellsburg KE et al. Content of the model teaching unit: ambulatory care training and continuity of care in six family practice residence programs. *J Fam Pract* 1987; 25:273-8.

Rosenblatt RA et al. The content of ambulatory medical care in the United States: an interspecialty comparison. *N Engl J Med* 309(15):892-7, Oct. 13, 1983.

Monson RA, Jameson JH. Similarities of a general medicine clinic in a teaching hospital to internal medicine practice. *Med Care* 21(8) 816-20, August 1983.

Fishbane M, Starfield B. Child health care in the United States: a comparison of pediatricians and general practitioners. *N Engl J Med* 305(10):552-6, Sep. 3, 1981.

Roos NP. Impact of the organization of practice on quality of care and physician productivity. *Med Care* April 1980. Vol. 18, No. 4: 347-359.

Noren J, Frazier T, Altman I, DeLozier J. Ambulatory medical care: a comparison of internists and family-general practitioners. *N Engl J Med* 302(1):11-6. Jan. 3, 1980.

Rocheleau B. Black physicians and ambulatory care. *Public Health Rep* May-June 1978, Vol. 93, No. 3: 278-282.  
Anonymous. A Profile of Internists: the National Ambulatory Medical Care Survey. *Bulletin of the American College of Physicians* 17(11):16-7, Nov. 1976.

## **2c. PHYSICIAN SPECIALTY, PRACTICE CHARACTERISTICS - BOOKS USING NAMCS DATA**

King B, Chung, H. [Internal Medicine Data Book](#). Internal Medicine Center for Advance Research and Education (IMCARE). Washington, D.C., 1992.

American Academy of Family Physicians. [Facts about: Family Practice](#). 1992.  
(earlier years are available, too)

Rakel, Robert E., M.D. [Principles of Family Practice](#). Philadelphia: W.B. Saunders. 1991.

## **3a. PATIENT CHARACTERISTICS – NCHS REPORTS**

Davis D, Rui P. Urban-rural Differences in Visits to Office-based Physicians by Adults With Hypertension: United States, 2014-2016. *Natl Health Stat Report*. 2020 Nov;(147):1-7.

Age Differences in Visits to Office-based Physicians by Adults With Hypertension: United States, 2013 [Data Brief No. 263]

Physician Office Visits by Children for Well and Problem-focused Care: United States, 2012 [Data Brief No. 248]

Office Visits for Obesity by Adults Aged 20 and Over: United States, 2012. [Data Brief No. 237]

[Variation in Physician Office Visit Rates by Patient Characteristics and State, 2012](#). [Data Brief No. 212]

Acceptance of New Patients With Public and Private Insurance by Office-based Physicians: United States, 2013. [Data Brief No. 195]

[Age Differences in Visits to Office-based Physicians by Patients With Diabetes: United States, 2010](#) [Data Brief No. 161]

Population Aging and the Use of Office-based Physician Services [Data Brief No. 41]

[Health Care Utilization Among Adults Aged 55-64 Years: How Has It Changed Over the Past 10 Years?](#)

[Data Brief No. 32]

Brett KM, Burt CW. Utilization of ambulatory medical care by women: United States, 1997-98. *Vital Health Stat* 13(149). 2001.

Freid VM, Makuc DM, Rooks RN. Ambulatory health care visits by children: principal diagnosis and place of visit. *Vital Health Stat* 13(137). 1998.

Visits by Adolescents, 1985 [ADR No. 196]  
Visits by Hispanics: 1980-81 [ADR No. 129]  
Patients 75 Years Old and Over: 1980-81 [ADR No. 110]  
Health Care of Adolescents: 1980-81 [ADR No. 99]  
Use of Health Services by Women 65 Years of Age and Over [Series 13, No. 59]  
Office Visits by Women: 1977 [Series 13, No. 45]  
Office Visits by Black Patients: 1975-76 [ADR No. 50]  
Ambulatory Care Utilization Patterns of Children and Young Adults: 1975 [Series 13, No. 39]  
Office Visits by Persons Aged 65 and Over [ADR No. 22]

### **3b. PATIENT CHARACTERISTICS - JOURNAL ARTICLES USING NAMCS DATA**

(This section includes articles focused on medical care within a population sub-group, however, it is still possible that some articles may be indexed in other sections. In general, articles focused on medication therapy are indexed in the Medication section, regardless of patient characteristics.)

#### **Pediatric Patients**

Vernacchio L, Herigon JC, Hatoun J, Patane LB, Correa ET. The Antibiotic Likelihood Index: A New Measure of Antimicrobial Stewardship for Pediatric Primary Care Based on Reason for Visit. *J Pediatric Infect Dis Soc.* 2021 Dec 18:piab110. doi: 10.1093/jpids/piab110. Online ahead of print. PMID: 34922373

Vash-Margita A, Kobernik EK, Flagler E, Quint EH, Dalton VK. National Trends in Cervical Cancer Screening in Adolescents. *J Pediatr Adolesc Gynecol.* 2021 Feb 15:S1083-3188(21)00121-2. doi: 10.1016/j.jpag.2021.02.097. Online ahead of print. PMID: 33601068

Poole NM, Shapiro DJ, Kronman MP, Hersh AL. Ambulatory Antibiotic Prescribing for Children with Pneumonia After Publication of National Guidelines: A Cross-Sectional Retrospective Study. *Infect Dis Ther.* 2019 Nov 27. doi: 10.1007/s40121-019-00276-3. [Epub ahead of print]

Hudgins JD, Porter JJ, Monuteaux MC, Bourgeois FT. Trends in Opioid Prescribing for Adolescents and Young Adults in Ambulatory Care Settings. *Pediatrics.* 2019 Jun;143(6). pii: e20181578. doi: 10.1542/peds.2018-1578.

Kou YF, Mitchell RB, Johnson RF. A Cross-sectional Analysis of Pediatric Ambulatory Tonsillectomy Surgery in the United States. *Otolaryngol Head Neck Surg.* 2019 Apr 23;194599819844791. doi: 10.1177/0194599819844791. [Epub ahead of print]

Rege S, Kavati A, Ortiz B, Mosnaim G, Cabana MD, Murphy K, Aparasu RR. Documentation of asthma control and severity in pediatrics: analysis of national office-based visits. *J Asthma.* 2019 Jan 18:1-12. doi: 10.1080/02770903.2018.1554069. [Epub ahead of print]

Yang L, Hur K, Koempel J, Ference EH. Epistaxis health disparities in the United States pediatric population. *Int J Pediatr Otorhinolaryngol.* 2018 Nov;114:20-25. doi: 10.1016/j.ijporl.2018.08.025. Epub 2018 Aug 23.

Gilani S, Shin JJ. The Burden and Visit Prevalence of Pediatric Chronic Rhinosinusitis. *Otolaryngol Head Neck Surg.* 2017 Jul 1;194599817721177. doi: 10.1177/0194599817721177. [Epub ahead of print]

Harahsheh AS, O'Byrne ML, Pastor B, Graham DA, Fulton DR. Pediatric Chest Pain-Low-Probability Referral. *Clin Pediatr (Phila).* 2017 Jan 1;9922816684605. doi: 10.1177/0009922816684605. [Epub ahead of print]

Filice CE, Green JC, Rosenthal MS, Ross JS. Pediatric screening urinalysis: a difference-in-differences analysis of how a 2007 change in guidelines impacted use. *BMC Pediatr.* 2014 Oct 10;14(1):260. doi: 10.1186/1471-2431-14-260.

- Sekhar DL, Murray-Kolb LE, Wang L, Kunselman AR, Paul IM. Adolescent Anemia Screening During Ambulatory Pediatric Visits in the United States. *J Community Health*. 2014 Sep 7. [Epub ahead of print]
- Davis SA, Sandoval LF, Gustafson CJ, Feldman SR, Cordoro KM. Treatment of Preadolescent Acne in the United States: An Analysis of Nationally Representative Data. *Pediatr Dermatol*. 2013 Jul 22. doi: 10.1111/pde.12201. [Epub ahead of print]
- Ahmed S, Shapiro NL, Bhattacharyya N. Incremental health care utilization and costs for acute otitis media in children. *Laryngoscope*. 2013 May 6. doi: 10.1002/lary.24190. [Epub ahead of print]
- Goldberg JL, Dabade TS, Davis SA, Feldman SR, Krowchuk DP, Fleischer AB. Changing age of acne vulgaris visits: another sign of earlier puberty? *Pediatr Dermatol*. 2011 Nov;28(6):645-8. doi: 10.1111/j.1525-1470.2011.01643.x.
- Vogel SA, Yentzer B, Davis SA, Feldman SR, Cordoro KM. Trends in Pediatric Psoriasis Outpatient Health Care Delivery in the United States. *Arch Dermatol*. 148(1):66-71. Jan 2012. 2011 Sep 19. [Epub ahead of print]
- Patel AI, Madsen KA, Maselli JH, Cabana MD, Stafford RS, Hersh AL. Underdiagnosis of Pediatric Obesity during Outpatient Preventive Care Visits. *Acad Pediatr*. 2010 November - December;10(6):405-409.
- Yawman D, Mahar P, Blumkin A, Conners G. Evaluating children with otitis media for bacteremia or urinary tract infection. *Int J Pediatr*. 2010;2010. pii: 790167. Epub 2010 Aug 16.
- Cohen D, Coco A. Trends in well-child visits to family physicians by children younger than 2 years of age. *Ann Fam Med*. 2010 May-Jun;8(3):245-8.
- Flores AR, Szilagyi PG, Auinger P, Fisher SG. Estimated burden of rotavirus-associated diarrhea in ambulatory settings in the United States. *Pediatrics*. 2010 Feb;125(2):e191-8. Epub 2010 Jan 25.
- Branum AM, Lukacs SL. Food Allergy Among Children in the United States. *Pediatrics*. 124(6):1549-1555. Nov 2009. 2009 Nov 16. [Epub ahead of print] PMID: 19917585 [PubMed - as supplied by publisher]
- Stevens J, Harman J, Pakalnis A, Lo W, Prescod J. Sociodemographic Differences in Diagnosis and Treatment of Pediatric Headache. *J Child Neurol*. 2009 Oct 6. [Epub ahead of print]
- Pont SJ, Grijalva CG, Griffin MR, Scott TA, Cooper WO. National Rates of Diarrhea-Associated Ambulatory Visits in Children. *J Pediatr*. 2009 Apr 23. [Epub ahead of print]
- Ma J, Xiao L. Assessment of body mass index and association with adolescent preventive care in U.S. outpatient settings. *J Adolesc Health*. 2009 May;44(5):502-4. Epub 2008 Nov 22.
- Eneli IU, Keast DR, Rappley MD, Camargo CA Jr. Adequacy of two ambulatory care surveillance systems for tracking childhood obesity practice patterns. *Public Health*. 2008 Feb 28 [Epub ahead of print]
- Sacks JJ, Helmick CG, Luo YH, Ilowite NT, Bowyer S. Prevalence of and annual ambulatory health care visits for pediatric arthritis and other rheumatologic conditions in the United States in 2001-2004. *Arthritis Rheum*. 2007 Nov 29;57(8):1439-1445 [Epub ahead of print]
- Horii KA, Simon SD, Liu DY, Sharma V. Atopic dermatitis in children in the United States, 1997-2004: visit trends, patient and provider characteristics, and prescribing patterns. *Pediatrics*. 2007 Sep;120(3):e527-34.
- Moreno C, Laje G, Blanco C, Jiang H, Schmidt AB, Olfson M. National trends in the outpatient diagnosis and treatment of bipolar disorder in youth. *Arch Gen Psychiatry*. 2007 Sep;64(9):1032-9.

- Rand CM, Shone LP, Albertin C, Auinger P, Klein JD, Szilagyi PG. National health care visit patterns of adolescents: implications for delivery of new adolescent vaccines. *Arch Pediatr Adolesc Med.* 2007 Mar;161(3):252-9.
- Hambidge SJ, Emsermann CB, Federico S, Steiner JF. Disparities in pediatric preventive care in the United States, 1993-2002. *Arch Pediatr Adolesc Med.* 2007 Jan;161(1):30-6.
- Liptak GS, Stuart T, Auinger P. Health Care Utilization and Expenditures for Children with Autism: Data from U.S. National Samples. *J Autism Dev Disord.* 2006 Jul 20; [Epub ahead of print]
- Rao G. Pediatric obesity-related counseling in the outpatient setting. *Ambul Pediatr.* 2005 Nov-Dec;5(6):377-9.
- Gonzalez HM, West B, Underwood W 3rd. PSA testing in office-based clinics: are we testing as much as we think? *J Am Coll Surg.* 2005 Dec;201(6):906-12. Epub 2005 Oct 13.
- Miller MR, Gergen P, Honour M, Zhan C. Burden of Illness for Children and Where We Stand in Measuring the Quality of This Health Care. *Ambul Pediatr.* 2005 September-October;5(5):268-278.
- Cook S, Weitzman M, Auinger P, Barlow SE. Screening and counseling associated with obesity diagnosis in a national survey of ambulatory pediatric visits. *Pediatrics.* 2005 Jul;116(1):112-6.
- Cayce KA, Krowchuk DP, Feldman SR, Camacho FT, Balkrishnan R, Fleischer AB. Healthcare Utilization for Acute and Chronic Diseases of Young, School-age Children in the Rural and Non-rural Setting. *Clin Pediatr (Phila).* 2005 Jul-Aug;44(6):491-8.
- Ma J, Wang Y, Stafford RS. U.S. adolescents receive suboptimal preventive counseling during ambulatory care. *J Adolesc Health.* 2005 May;36(5):441.
- Slora EJ, Wasserman TRC, Pedlow SE, Bocian AB. Representativeness of patient visits to a National Practice-Based Research Network: A comparison of pediatric research in office settings (PROS) and National Ambulatory Medical Care Survey (NAMCS) data. *PEDIATRIC RESEARCH* 55 (4): 124 Part 2 Suppl. S APR 2004.
- Serwint JR, Thoma KA, Dabrow SM, Hunt LE, Barratt MS, Shope TR, Darden PM. Comparing patients seen in continuity clinics and the National Ambulatory Medical Care Survey (NAMCS): A study from the continuity research network (CORNET) *PEDIATRIC RESEARCH* 55 (4): 123 Part 2 Suppl. S APR 2004.
- Tanski SE, Klein JD, Winickoff JP, Auinger P, Weitzman M. Tobacco counseling at well-child and tobacco-influenced illness visits: opportunities for improvement. *Pediatrics* 2003 Feb;111(2):E162-7.
- Akinbami LJ, Schoendorf KC. Trends in childhood asthma: prevalence, health care utilization, and mortality. *Pediatrics* 2002 Aug;110(2 Pt 1):315-22
- Hambidge SJ, Davidson AJ, Gonzales R, Steiner JF. Epidemiology of pediatric injury-related primary care office visits in the United States. *Pediatrics* 109 (4): 559-565 Apr 2002
- Marcell AV, Klein JD, Fischer I, Allan MJ, Kokotailo PK. Male adolescent use of health care services: Where are the boys? *Journal of Adolescent Health* 30: (1) 35-43 Jan 2002
- Ziv A, Boulet JR, Slap GB. Utilization of physician offices by adolescents in the United States. *Pediatrics* 1999 Jul;104(1 Pt 1):35-42.

Ferris TG, Saglam D, Stafford RS, Causino N, Starfield B, Culpepper, L Blumenthal D. Changes in the daily practice of primary care for children. *Arch Pediatr Adolesc Med* 1998;152:227-233.

### **Adult Patients**

Minhas AMK, Ijaz SH. Disparities in Statin Use During Outpatient Visits of Adults (Age 18 to 64 Years) With Coronary Heart Disease in the Medicaid Population in the United States (from the National Ambulatory Medical Care Survey Database 2006 to 2015). *Am J Cardiol*. 2021 Dec 30:S0002-9149(21)01158-9. doi: 10.1016/j.amjcard.2021.11.033. Online ahead of print. PMID: 34974897

Ward BW, Myrick KL, Cherry DK. Physician Specialty and Office Visits Made by Adults With Diagnosed Multiple Chronic Conditions: United States, 2014-2015. *Public Health Rep*. 2020 May/Jun;135(3):372-382. doi: 10.1177/0033354920913005. Epub 2020 Apr 8.

Wu KK, Borba AJ, Deng PH, Armstrong AW. Association between atopic dermatitis and conjunctivitis in adults: a population-based study in the United States. *J Dermatolog Treat*. 2019 Sep 2:1-5. doi: 10.1080/09546634.2019.1659480. [Epub ahead of print]

Pilla SJ, Segal JB, Alexander GC, Boyd CM, Maruthur NM. Differences in National Diabetes Treatment Patterns and Trends between Older and Younger Adults. *J Am Geriatr Soc*. 2019 Jan 31. doi: 10.1111/jgs.15790. [Epub ahead of print]

Vadiei N, Bhattacharjee S. Patterns and predictors of depression treatment among adults with chronic kidney disease and depression in ambulatory care settings in the United States. *Int Urol Nephrol*. 2018 Dec 4. doi: 10.1007/s11255-018-2034-3. [Epub ahead of print]

Ashman JJ, Rui P, Schappert SM, Strashny A. Characteristics of Visits to Primary Care Physicians by Adults Diagnosed With Hypertension. *Natl Health Stat Report*. 2017 Sep;(106):1-14.

Maust DT, Kales HC, Blow FC. Mental Health Care Delivered to Younger and Older Adults by Office-Based Physicians Nationally. *J Am Geriatr Soc*. 2015 Jul 3. doi: 10.1111/jgs.13494. [Epub ahead of print]

Ashman JJ, Beresovsky V. Multiple Chronic Conditions Among US Adults Who Visited Physician Offices: Data From the National Ambulatory Medical Care Survey, 2009. *Prev Chronic Dis*. 2013 Apr 25;10:E64. doi: 10.5888/pcd10.120308.

Bhattacharyya N, Kepnes LJ. Patterns of Care Before and After the Adult Sinusitis Clinical Practice Guideline. *Laryngoscope*. 2013 Feb 16. doi: 10.1002/lary.23980. [Epub ahead of print]

Fortuna RJ, Robbins BW, Halterman JS. Ambulatory care among young adults in the United States. *Ann Intern Med*. 2009 Sep 15;151(6):379-85.

Reeves WC, Strine TW, Pratt LA, Thompson W, Ahluwalia I, Dhingra SS, McKnight-Eily LR, Harrison L, D'Angelo DV, Williams L, Morrow B, Gould D, Safran MA; Public Health Surveillance Program Office. Mental illness surveillance among adults in the United States. *MMWR Surveill Summ*. 2011 Sep 2;60 Suppl 3:1-32.

Ma J, Xiao L, Stafford RS. Adult Obesity and Office-based Quality of Care in the United States. *Obesity (Silver Spring)*. 2009 Feb 5. [Epub ahead of print]

Sankaranarayanan J, Puumala SE, Kratochvil CJ. Diagnosis and treatment of adult attention-deficit/hyperactivity disorder at US ambulatory care visits from 1996 to 2003. *Curr Med Res Opin*. 2006 Aug;22(8):1475-91.

### **Older Adults/Elderly Patients**

Lee J, Chang CH, Yung R, Bynum JPW. Provider Specialty and the Use of Disease-Modifying Antirheumatic Drugs for Rheumatoid Arthritis Among Older Adults in the 2005-2016 National Ambulatory Medical Care Survey. *ACR Open Rheumatol*. 2022 Jan 17. doi: 10.1002/acr2.11406. Online ahead of print. PMID: 35040280 Free article.

Gerend MA, Bradbury R, Harman JS, Rust G. Characteristics Associated with Low-Value Cancer Screening Among Office-Based Physician Visits by Older Adults in the USA. *J Gen Intern Med*. 2021 Aug 11. doi: 10.1007/s11606-021-07072-1. Online ahead of print. PMID: 34379279

Vickers LE, Martinez AI, Wallem AM, Johnson C, Moga DC. Potentially Inappropriate Medication Use in Older Adults with Alzheimer's Disease and Related Dementias Living in the Community: A Cross-Sectional Analysis. *Drugs Real World Outcomes*. 2021 Jun 10. doi: 10.1007/s40801-021-00265-4. Online ahead of print. PMID: 34114133

Growdon ME, Gan S, Yaffe K, Steinman MA. Polypharmacy among older adults with dementia compared with those without dementia in the United States. *J Am Geriatr Soc*. 2021 Jun 8. doi: 10.1111/jgs.17291. Online ahead of print. PMID: 34101822

Rubino A, Sanon M, Ganz ML, Simpson A, Fenton MC, Verma S, Hartry A, Baker RA, Duffy RA, Gwin K, Fillit H. Association of the US Food and Drug Administration Antipsychotic Drug Boxed Warning With Medication Use and Health Outcomes in Elderly Patients With Dementia. *JAMA Netw Open*. 2020 Apr 1;3(4):e203630. doi: 10.1001/jamanetworkopen.2020.3630.

Namen AM, Forest DJ, Huang KE, Feldman SR, Hazzard WR, Peters SP, Haponik EF. Physicians Report Sleep Apnea Infrequently in Older and Older Vulnerable Adults. *J Am Geriatr Soc*. 2017 May 4. doi: 10.1111/jgs.14929. [Epub ahead of print]

He XZ. Diabetes care for older patients in America. *Int J Clin Pract*. 66(3):299-304. Mar 2012. 2011 Dec 12. doi: 10.1111/j.1742-1241.2011.02738.x. [Epub ahead of print]

Bhattacharya R, Chatterjee S, Carnahan RM, Aparasu RR. Prevalence and Predictors of Anticholinergic Agents in Elderly Outpatients with Dementia. *Am J Geriatr Pharmacother*. 9(6):434-441. Dec 2011. 2011 Oct 25. [Epub ahead of print]

Lin HW, Bhattacharyya N. Otologic diagnoses in the elderly: Current Utilization and Predicted Workload Increase. *Laryngoscope*. 121(7):1504-1507. Jul 2011. 2011 Apr 27. doi: 10.1002/lary.21827. [Epub ahead of print]

Lo A, Ryder K, Shorr RI. Relationship between patient age and duration of physician visit in ambulatory setting: does one size fit all? *J Am Geriatr Soc*. 2005 Jul;53(7):1162-7.

Hoffman LH, Strutton DR, Stang PE, Hogue SL. Impact of smoking on respiratory illness-related outpatient visits among 50-to 75-year-olds in the United States. *Clinical Therapeutics* 24 (2): 317-324 Feb 2002

Rohrer JE, Xu KT, Bickley L. Duration of heart disease visits by elderly patients: productivity versus quality. *Health Serv Manage Res* 2002 Aug;15(3):141-6

Smith ES, Fleischer AB, Feldman SR. Demographics of aging and skin disease. *Clinics in Geriatric Medicine*:17(4) Nov. 2001.

Sloss EM, Solomon DH, Shekelle PG, Young RT, Saliba D, MacLean CH, Rubenstein LZ, Schnelle JF, Kambert JC, Wenger NS. Selecting target conditions for quality of care improvement in vulnerable older adults. *Journal of the American Geriatric Society* 2000 Apr:48(4).

Feldman SR, Fleischer AB Jr, Williford PM. Proposed Medicare user fees add additional burden on the provision of care of elderly patients. *Skin & Aging* 1998; 10: 6-9.

Sloane PD. Changes in ambulatory care with patient age: is geriatric care qualitatively different? *Fam Med* 23(1) 40-3. January 1991.

Reuben DB, Robertson JB. The care of elderly patients by elderly physicians. *J Am Geriatr Soc* 35(7) 623-8. July 1987.

### **Gender**

Whang KA, Khanna R, Thomas J, Aguh C, Kwatra SG. Racial and Gender Differences in the Presentation of Pruritus. *Medicines (Basel)*. 2019 Sep 27;6(4). pii: E98. doi: 10.3390/medicines6040098.

Hilleary RS, Jabusch SM, Zheng B, Jiroutek MR, Carter CA. Gender disparities in patient education provided during patient visits with a diagnosis of coronary heart disease. *Womens Health (Lond)*. 2019 Jan-Dec;15:1745506519845591. doi: 10.1177/1745506519845591.

Dean CA, Arnold LD, Hauptman PJ, Wang J, Elder K. Patient, Physician, and Practice Characteristics Associated with Cardiovascular Disease Preventive Care for Women. *J Womens Health (Larchmt)*. 2017 May;26(5):491-499. doi: 10.1089/jwh.2015.5613. Epub 2017 Feb 27.

Forde JC, Chughtai B, Cea M, Stone BV, Te A, Bishop TF. Trends in Ambulatory Management of Urinary Incontinence in Women in the United States. *Female Pelvic Med Reconstr Surg*. 2017 Jan 18. doi: 10.1097/SPV.0000000000000365. [Epub ahead of print]

Pickett-Blakely O, Bleich SN, Cooper LA. Patient-physician gender concordance and weight-related counseling of obese patients. *Am J Prev Med*. 2011 Jun;40(6):616-9.

Pinkhasov RM, Wong J, Kashanian J, Lee M, Samadi DB, Pinkhasov MM, Shabsigh R. Are men shortchanged on health? Perspective on health care utilization and health risk behavior in men and women in the United States. *Int J Clin Pract*. 2010 Mar;64(4):475-87.

Sung VW, Washington B, Raker CA. Costs of ambulatory care related to female pelvic floor disorders in the United States. *Am J Obstet Gynecol*. 2010 Mar 12. [Epub ahead of print]

Burris HH, Werler MM. U.S. Provider Reported Folic Acid or Multivitamin Ordering for Non-Pregnant Women of Childbearing Age: NAMCS and NHAMCS, 2005-2006. *Matern Child Health J*. 2010 Mar 5. [Epub ahead of print]

Rasu RS, Jayawant SS, Abercrombie M, Balkrishnan R. Treatment of Anemia among Women with Chronic Kidney Disease in United States Outpatient Settings. *Womens Health Issues*. 2009 May-Jun;19(3):211-9.

Suh DC, Lau H, Pokras SM, Choi IS, Valiyeva E. Sex differences in ambulatory visits for chronic obstructive pulmonary disease, based on the national ambulatory medical care survey and the national hospital ambulatory medical care survey from 1995 to 2004. *Respir Care*. 2008 Nov;53(11):1461-9.

Joy TR, Hegele RA. Prevalence of reproductive abnormalities among women with familial partial lipodystrophy. *Endocr Pract*. 2008 Dec;14(9):1126-32.

Keyhani S, Scobie JV, Hebert PL, McLaughlin MA. Gender disparities in blood pressure control and cardiovascular care in a national sample of ambulatory care visits. *Hypertension*. 2008 Apr;51(4):1149-55. Epub 2008 Feb 7

Glied S. The treatment of women with mental health disorders under HMO and fee-for-service insurance. *Women Health* 1997; 26(2):1-16.

Hurt WG. Postreproductive gynecology: Meeting the present and future needs of women. *Am J Obstet Gynecol* August 1996; 175(2):243-247.

Verbrugge LM, Steiner RP. Physician treatment of men and women patients: sex bias or appropriate care? *Med Care* 19(6):6090-32, June 1981.

Verbrugge LM. Sex differences in complaints and diagnosis. *J Behav Med* 3(4):327-55. Dec. 1980.

### **Race/Ethnicity**

Samander LJ, Harman J. Disparities in Offered Anxiety Treatments Among Minorities. *J Prim Care Community Health*. 2022 Jan-Dec;13:21501319211065807. doi: 10.1177/21501319211065807. PMID: 34996307

Appiah J, Barlow L, Mmonu NA, Makarov DV, Sugarman A, Matulewicz R. A national assessment of the association between patient race and physician visit time during new outpatient urology consultations. *Urology*. 2021 Aug 8:S0090-4295(21)00733-0. doi: 10.1016/j.urology.2021.06.046. Online ahead of print. PMID: 34380056

Senteio CR, Akincigil A. Illuminating Racial Inequity in Diabetes Control: Differences Based on Gender and Geography. *J Racial Ethn Health Disparities*. 2020 Jul 29. doi: 10.1007/s40615-020-00830-7. Online ahead of print.

Whang KA, Khanna R, Thomas J, Aguh C, Kwatra SG. Racial and Gender Differences in the Presentation of Pruritus. *Medicines (Basel)*. 2019 Sep 27;6(4). pii: E98. doi: 10.3390/medicines6040098.

Bacon E. Racial/ethnic differences in treatment recommendations: lifestyle changes and medication prescriptions for high cholesterol. *Ethn Health*. 2017 Nov 2:1-16. doi: 10.1080/13557858.2017.1398315. [Epub ahead of print]

Rogers AT, Semenov YR, Kwatra SG, Okoye GA. Racial disparities in the management of acne: evidence from the National Ambulatory Medical Care Survey, 2005-2014. *J Dermatolog Treat*. 2017 Sep 11:1-3. doi: 10.1080/09546634.2017.1371836. [Epub ahead of print]

Charleston Iv L, Burke JF. Do racial/ethnic disparities exist in recommended migraine treatments in US ambulatory care? *Cephalalgia*. 2017 Jan 1:333102417716933. doi: 10.1177/0333102417716933. [Epub ahead of print]

Udechukwu NS, Fleischer AB Jr. Higher Risk of Care for Hidradenitis Suppurativa in African American and Non-Hispanic Patients in the United States. *J Natl Med Assoc*. 2017 Spring;109(1):44-48. doi: 10.1016/j.jnma.2016.09.002.

Manseau M, Case BG. Racial-Ethnic Disparities in Outpatient Mental Health Visits to U.S. Physicians, 1993-2008. *Psychiatr Serv*. 2013 Oct 15. doi: 10.1176/appi.ps.201200528. [Epub ahead of print]

Lin KK, Sewell JL. The Effects of Race and Socioeconomic Status on Immunomodulator and Anti-Tumor Necrosis Factor Use among Ambulatory Patients With Inflammatory Bowel Disease in the United States. *Am J Gastroenterol*. 2013 Dec;108(12):1824-30. doi: 10.1038/ajg.2013.192.

Ma J, Xiao L, Yank V. Variations between obese latinos and whites in weight-related counseling during preventive clinical visits in the United States. *Obesity (Silver Spring)*. 2013 Jan 2. doi: 10.1002/oby.20285. [Epub ahead of print]

Davis SA, Narahari S, Feldman SR, Huang W, Pichardo-Geisinger RO, McMichael AJ. Top dermatologic conditions in patients of color: an analysis of nationally representative data. *J Drugs Dermatol*. 2012 Apr 1;11(4):466-73.



- Soler ZM, Mace JC, Litvack JR, Smith TL. Chronic rhinosinusitis, race, and ethnicity. *Am J Rhinol Allergy*. 2012 Mar;26(2):110-6.
- Sciar DA, Robison LM, Schmidt JM, Bowen KA, Castillo LV, Oganov AM. Diagnosis of depression and use of antidepressant pharmacotherapy among adults in the United States: does a disparity persist by ethnicity/race? *Clin Drug Investig*. 2012 Feb 1;32(2):139-44. doi: 10.2165/11598950-000000000-00000.
- Lukachko A, Olfson M. Race and the clinical diagnosis of depression in new primary care patients. *Gen Hosp Psychiatry*. 34(1):98-100. Jan-Feb 2012. 2011 Oct 21. [Epub ahead of print]
- Hankerson SH, Fenton MC, Geier TJ, Keyes KM, Weissman MM, Hasin DS. Racial differences in symptoms, comorbidity, and treatment for major depressive disorder among black and white adults. *J Natl Med Assoc*. 2011 Jul;103(7):576-84.
- Lagomasino IT, Stockdale SE, Miranda J. Racial-ethnic composition of provider practices and disparities in treatment of depression and anxiety, 2003-2007. *Psychiatr Serv*. 2011 Sep;62(9):1019-25.
- Solomon DH, Ayanian JZ, Yelin E, Shaykevich T, Brookhart MA, Katz JN. Use of disease-modifying medications for rheumatoid arthritis by race and ethnicity in the National Ambulatory Medical Care Survey. *Arthritis Care Res (Hoboken)*. 2011 Oct 19. doi: 10.1002/acr.20674. [Epub ahead of print]
- Strumpf EC. Racial/Ethnic disparities in primary care: the role of physician-patient concordance. *Med Care*. 2011 May;49(5):496-503.
- Sonnenfeld N, Schappert SM, Lin SX. Racial and Ethnic Differences in Delivery of Tobacco-Cessation Services. *Am J Prev Med*. 2008 Oct 30. [Epub ahead of print]
- Sciar DA, Robison LM, Skaer TL. Ethnicity/race and the diagnosis of depression and use of antidepressants by adults in the United States. *Int Clin Psychopharmacol*. 2008 Mar;23(2):106-9.
- Branner CM, Koyama T, Jensen GL. Racial and ethnic differences in pediatric obesity-prevention counseling: national prevalence of clinician practices. *Obesity (Silver Spring)*. 2008 Mar;16(3):690-4. Epub 2008 Jan 17.
- Blanco C, Patel SR, Liu, L et al. National Trends in Ethnic Disparities in Mental Health Care. *Med Care* 2007;45: 1012-1019
- Fiscella K, Franks P. Does the content of primary care visits differ by the racial composition of physicians' practices? *Am J Med*. 2006 Apr;119(4):348-53.
- Ferris TG, Kuhlthau K, Ausiello J, Perrin J, Kahn R. Are minority children the last to benefit from a new technology? Technology diffusion and inhaled corticosteroids for asthma. *Med Care*. 2006 Jan;44(1):81-6.
- Ma J, Stafford RS. Quality of US outpatient care: temporal changes and racial/ethnic disparities. *Arch Intern Med*. 2005 Jun 27;165(12):1354-61.
- Dembe AE, Savageau JA, Amick BC 3rd, Banks SM. Racial and ethnic variations in office-based medical care for work-related injuries and illnesses. *J Natl Med Assoc*. 2005 Apr;97(4):498-507.
- Holmes JS, Arispe IE, Moy E. Heart disease and prevention: race and age differences in heart disease prevention, treatment, and mortality. *Med Care* 2005;43: I-33-I-41)
- Balkrishnan R, Feldman SR, McMichael AJ, DeHart KE, Cayce K, Fleischer AB Jr. Racial differences in the treatment of pigmentation disorders in outpatient settings: analysis of US national practice data. *J Dermatolog Treat*. 2004 Jul;15(4):227-30.

Lasser KE, Himmelstein DU, Woolhandler SJ, McCormick D, Bor DH. Do minorities in the United States receive fewer mental health services than whites? *Int J Health Serv* 2002;32(3):567-78

Janumpally SR, Feldman SR, Gupta AK, Fleischer AB Jr. In the United States, blacks and Asian/Pacific Islanders are more likely than whites to seek medical care for atopic dermatitis. *Arch Dermatol* 2002 May;138(5):634-7.

Franks P, Clancy CM. Referrals of adult patients from primary care: demographic disparities and their relationship to HMO insurance. *J Fam Pract* 1997 Jul;45(1):47-53.

Yu ES, Cypress BK. Visits to physicians by Asian/Pacific Americans. *Med Care* 20(8):809-20. Aug. 1982

## **Patients with Obesity**

Ciciurkaite G, Moloney ME, Brown RL. The Incomplete Medicalization of Obesity: Physician Office Visits, Diagnoses, and Treatments, 1996-2014. *Public Health Rep.* 2019 Mar/Apr;134(2):141-149. doi: 10.1177/0033354918813102. Epub 2019 Feb 22.

Fitzpatrick SL, Stevens VJ. Adult obesity management in primary care, 2008-2013. *Prev Med.* 2017 Feb 20. pii: S0091-7435(17)30074-9. doi: 10.1016/j.ypmed.2017.02.020. [Epub ahead of print]

Fitzpatrick SL, Stevens VJ. Adult obesity management in primary care, 2008-2013. *Prev Med.* 2017 Feb 20. pii: S0091-7435(17)30074-9. doi: 10.1016/j.ypmed.2017.02.020. [Epub ahead of print]

Fleischer AB Jr. Characterization of obesity rates for dermatologic ambulatory office visits to United States physicians. *J Dermatolog Treat.* 2016 May 31:1-5. [Epub ahead of print]

Tanda R, Salsberry P. The Impact of the 2007 Expert Committee Recommendations on Childhood Obesity Preventive Care in Primary Care Settings in the United States. *J Pediatr Health Care.* 2013 Jul 4. doi:pii: S0891-5245(13)00196-X. 10.1016/j.pedhc.2013.05.009. [Epub ahead of print]

Walsh CO, Milliren CE, Feldman HA, Taveras EM. Factors Affecting Subspecialty Referrals by Pediatric Primary Care Providers for Children With Obesity-Related Comorbidities. *Clin Pediatr (Phila).* 2013 May 13. [Epub ahead of print]

Kraschnewski JL, Sciamanna CN, Stuckey HL, Chuang CH, Lehman EB, Hwang KO, Sherwood LL, Nembhard HB. A Silent Response to the Obesity Epidemic: Decline in US Physician Weight Counseling. *Med Care.* 51(2):186-192. Feb 2013. 2012 Oct 7. [Epub ahead of print]

Ma J, Xiao L, Yank V. Variations between obese latinos and whites in weight-related counseling during preventive clinical visits in the United States. *Obesity (Silver Spring).* 2013 Jan 2. doi: 10.1002/oby.20285. [Epub ahead of print]

Leventer-Roberts M, Patel A, Trasande L. Is severity of obesity associated with diagnosis or health education practices? *Int J Obes (Lond).* 36(12):1571-1577. Dec 2012. 2012 Jan 24. doi: 10.1038/ijo.2012.1. [Epub ahead of print]

Mehta H, Patel J, Parikh R, Abughosh S. Differences in Obesity Management Among Physicians. *Popul Health Manag.* 15(5):287-292. Oct 2012. 2012 Jul 12. [Epub ahead of print]

Hernandez-Boussard T, Ahmed SM, Morton JM. Obesity Disparities in Preventive Care: Findings From the National Ambulatory Medical Care Survey, 2005-2007. *Obesity (Silver Spring).* 20(8):1639-1644. Aug 2012. 2011 Aug 4. doi: 10.1038/oby.2011.258. [Epub ahead of print]

Pearson WS, Bhat-Schelbert K, Ford ES, Mokdad AH. The impact of obesity on time spent with the provider and number of medications managed during office-based physician visits using a cross-sectional, national health survey. *BMC Public Health*. 2009 Nov 30;9(1):436. [Epub ahead of print]

Pearson WS. Ten-year comparison of estimates of overweight and obesity, diagnosed diabetes and use of office-based physician services for treatment of diabetes in the United States. *Prev Med*. 2007 Jul 24; [Epub ahead of print]

Stafford RS, Farhat JH, Misra B, Schoenfeld DA. National patterns of physician activities related to obesity management. *Arch Fam Med* 2000 Jul;9(7):631-8.

### **Patients with Mental Illness**

Taylor MT, Horton DB, Juliano T, Olfson M, Gerhard T. [Outpatient prescribing of opioids to adults diagnosed with mental disorders in the United States.](#) *Drug Alcohol Depend*. 2020 Nov 23;219:108414. doi: 10.1016/j.drugalcdep.2020.108414. Online ahead of print. *Drug Alcohol Depend*. 2020. PMID: 33307300

Early N, Fairman K, Ma J, Hong K. Changes in Psychotropic Prescribing for Patients With Dementia, 2014-2016: Potential implications for Pharmacists. *Sr Care Pharm*. 2020 May 1;35(5):207-219. doi: 10.4140/TCP.n.2020.207.

Rogers ES, Wysota CN. Tobacco Screening and Treatment of Patients With a Psychiatric Diagnosis, 2012-2015. *Am J Prev Med*. 2019 Nov;57(5):687-694. doi: 10.1016/j.amepre.2019.06.009. Epub 2019 Sep 27.

Keller AO, Ortiz A. Physical Activity Health Communication for Adults With Mood Disorders in the United States. *West J Nurs Res*. 2019 May 21:193945919848772. doi: 10.1177/0193945919848772. [Epub ahead of print]

Jolles MP, Haynes-Maslow L, Roberts MC, Dusetzina SB. Mental Health Service Use for Adult Patients With Co-occurring Depression and Physical Chronic Health Care Needs, 2007-2010. *Med Care*. 2015 Aug;53(8):708-712.

Rost K, Hsieh YP, Xu S, Menachemi N, Young AS. Potential disparities in the management of schizophrenia in the United States. *Psychiatr Serv*. 2011 Jun;62(6):613-8.

Daumit GL, Pratt LA, Crum RM, Powe NR, Ford DE. Characteristics of primary care visits for individuals with severe mental illness in a national sample. *Gen Hosp Psychiatry* 2002 Nov-Dec;24(6):391-5

### **Patients with Diabetes**

Skrepnek GH, Mills JL Sr, Lavery LA, Armstrong DG. Health Care Service and Outcomes Among an Estimated 6.7 Million Ambulatory Care Diabetic Foot Cases in the U.S. *Diabetes Care*. 2017 May 11. pii: dc162189. doi: 10.2337/dc16-2189. [Epub ahead of print]

Branoff JD, Jiroutek MR, Kelly CR, Huma S, Sutton BS. A Retrospective Cross-sectional Analysis of Health Education Disparities in Patients With Diabetes Using Data From the National Ambulatory Medical Care Survey. *Diabetes Educ*. 2017 Feb;43(1):125-134. doi: 10.1177/0145721716685408.

Ashman JJ, Talwalkar A, Taylor SA. Age Differences in Visits to Office-based Physicians by Patients With Diabetes: United States, 2010. *NCHS Data Brief*. 2014 Jul;(161):1-8.

Belue R, Oluwole AN, Degboe AN, Figaro MK. Hypertension control in ambulatory care patients with diabetes. *Am J Manag Care*. 2012 Jan;18(1):17-23.

Neumiller JJ, Sclar DA, Robison LM, Setter SM, Skaer TL. Rate of obesity in U.S. ambulatory patients with diabetes mellitus: A national assessment of office-based physician visits. *Prim Care Diabetes*. 2009 Jul 29. [Epub ahead of print]

Aparasu RR, Aparasu A. Hypertension management in outpatient visits by diabetic patients. *Res Social Adm Pharm*. 2008 Sep;4(3):284-91. Epub 2008 Aug 8.

Peek ME, Tang H, Alexander GC, Chin MH. National Prevalence of Lifestyle Counseling or Referral Among African-Americans and Whites with Diabetes. *J Gen Intern Med*. 2008 Aug 6. [Epub ahead of print]

### **Patients with Other Conditions**

Santo L, Schappert SM, Hootman JM, Helmick CG. Trends in office visits during which opioids were prescribed for adults with arthritis: United States, 2006-2015. *Arthritis Care Res (Hoboken)*. 2020 Sep 16. doi: 10.1002/acr.24447. Online ahead of print. PMID: 32937030

Gonzalez T, Fleischer AB Jr. Increased Biologic Utilization in Latino Patients with Psoriasis. *J Dermatolog Treat*. 2020 Jul 9:1-17. doi: 10.1080/09546634.2020.1793889. Online ahead of print. PMID: 32643972

Singh P, Silverberg JI. Screening for cardiovascular comorbidity in United States outpatients with psoriasis, hidradenitis, and atopic dermatitis. *Arch Dermatol Res*. 2020 May 11. doi: 10.1007/s00403-020-02087-w. [Epub ahead of print]

Vatcheva KP, Aparicio V, Araya A, Gonzalez E, Laing ST. Statin Prescription for Patients With Atherosclerotic Cardiovascular Disease from National Survey Data. *Am J Cardiol*. 2019 Apr 8. pii: S0002-9149(19)30414-X. doi: 10.1016/j.amjcard.2019.03.048. [Epub ahead of print]

Cenzer I, Nkansah-Mahaney N, Wehner M, Chren MM, Berger T, Covinsky K, Berger K, Abuabara K, Linos E. A Multi Year Cross Sectional Study of US National Prescribing Patterns of First Generation Sedating Antihistamines in Older Adults with Skin Disease. *Br J Dermatol*. 2019 Apr 25. doi: 10.1111/bjd.18042. [Epub ahead of print]

Vadiei N, Bhattacharjee S. Patterns and predictors of depression treatment among adults with chronic kidney disease and depression in ambulatory care settings in the United States. *Int Urol Nephrol*. 2018 Dec 4. doi: 10.1007/s11255-018-2034-3. [Epub ahead of print]

Robbins R, Seixas A, Jean-Louis G, Parthasarathy S, Rapoport DM, Ogedegbe G, Ladapo JA. National patterns of physician management of sleep apnea and treatment among patients with hypertension. *PLoS One*. 2018 May 23;13(5):e0196981. doi: 10.1371/journal.pone.0196981. eCollection 2018.

Ladapo JA, Richards AK, DeWitt CM, Harawa NT, Shoptaw S, Cunningham WE, Mafi JN. Disparities in the Quality of Cardiovascular Care Between HIV-Infected Versus HIV-Uninfected Adults in the United States: A Cross-Sectional Study. *J Am Heart Assoc*. 2017 Nov 14;6(11). pii: e007107. doi: 10.1161/JAHA.117.007107.

Bhattacharjee S, Axon DR, Goldstone L, Lee JK. Patterns and Predictors of Depression Treatment among Stroke Survivors with Depression in Ambulatory Settings in the United States. *J Stroke Cerebrovasc Dis*. 2017 Oct 30. pii: S1052-3057(17)30531-1. doi: 10.1016/j.jstrokecerebrovasdis.2017.09.047. [Epub ahead of print]

Tan EC, Bell JS, Lu CY, Toh S. National Trends in Outpatient Antihypertensive Prescribing in People with Dementia in the United States. *J Alzheimers Dis*. 2016 Oct 18;54(4):1425-1435.

Oramasionwu C, Cooper Bailey S, Johnson TL, Mao L. Engagement in Outpatient Care for Persons Living with HIV in the United States. *AIDS Res Hum Retroviruses*. 2014 Nov 11. [Epub ahead of print] (NHAMCS)

Ritsema TS, Bingenheimer JB, Scholting P, Cawley JF. Differences in the delivery of health education to patients with chronic disease by provider type, 2005-2009. *Prev Chronic Dis*. 2014 Mar 6;11:E33. doi: 10.5888/pcd11.130175.

Margaretten ME, Katz P, Schmajuk G, Yelin E. Missed Opportunities for Depression Screening in Patients with Arthritis in the United States. *J Gen Intern Med*. 2013 Jul 30. [Epub ahead of print]

Guy GP Jr, Richardson LC. Visit duration for outpatient physician office visits among patients with cancer. *J Oncol Pract*. 2012 May;8(3 Suppl):2s-8s.

Willson MN, Neumiller JJ, Sclar DA, Robison LM, Skaer TL. Ethnicity/Race, Use of Pharmacotherapy, Scope of Physician-Ordered Cholesterol Screening, and Provision of Diet/Nutrition or Exercise Counseling during US Office-Based Visits by Patients with Hyperlipidemia. *Am J Cardiovasc Drugs*. 2010;10(2):105-8. doi: 10.2165/11532820-000000000-00000.

Cheung R, Mannalithara A, Singh G. Utilization and Antiviral Therapy in Patients with Chronic Hepatitis C: Analysis of Ambulatory Care Visits in the US. *Dig Dis Sci*. 2010 Feb 26. [Epub ahead of print]

Huebschmann AD, Bublitz C, Anderson RJ. Are hypertensive elderly patients treated differently? *Clin Interv Aging*. 2006;1(3):289-94.

Lawhorne LW, Wright H, Cragen D. Characteristics of non-cobalamin deficient patients who receive regular cyanocobalamin injections. *Fam Med* 1991 Sept-Oct; 23(7): 506-9.

### **Smokers with Psychiatric Diagnoses**

Thorndike AN, Stafford RS, Rigotti NA. US physicians' treatment of smoking in outpatients with psychiatric diagnoses. *Nicotine Tob Res* 2001 Feb;3(1):85-91

Thorndike AN, Rigotti NA, Stafford RS, Singer DE. National patterns in the treatment of smokers by physicians. *JAMA* 1998; 279:604-608.

### **Other Patient Characteristics**

Minhas AMK, Ijaz SH. Disparities in Statin Use During Outpatient Visits of Adults (Age 18 to 64 Years) With Coronary Heart Disease in the Medicaid Population in the United States (from the National Ambulatory Medical Care Survey Database 2006 to 2015). *Am J Cardiol*. 2021 Dec 30;S0002-9149(21)01158-9. doi: 10.1016/j.amjcard.2021.11.033. Online ahead of print. PMID: 34974897

Li J, Chen A, Parks M, Ghosh A, Casalino LP. County-Level Unemployment Rates and Service Intensity in Primary Care Physician Offices for Medicare Patients. *Med Care Res Rev*. 2019 Aug 31;1077558719872864. doi: 10.1177/1077558719872864. [Epub ahead of print]

Nguyen OK, Makam AN, Halm EA. National Use of Safety-Net Clinics for Primary Care among Adults with Non-Medicaid Insurance in the United States. *PLoS One*. 2016 Mar 30;11(3):e0151610. doi: 10.1371/journal.pone.0151610. eCollection 2016.

Lacalle E, Schechter CB, McKee MD, Fletcher J. Using NAMCS to Characterize the Urban Health Care Safety Net. *J Health Care Poor Underserved*. 2007 Feb;18(1):152-60.

James AB, Hillyer CD, Shaz BH. Demographic differences in estimated blood donor eligibility prevalence in the United States. *Transfusion*. 2011 Nov 2. doi: 10.1111/j.1537-2995.2011.03416.x. [Epub ahead of print]

### **3c. PATIENT CHARACTERISTICS - OTHER PUBLICATIONS USING NAMCS DATA**

U.S. Congress, Office of Technology Assessment, Hip Fracture Outcomes in People Age 50 and Over - Background Paper, OTA-BP-H-120 (Washington, DC: U.S. Government Printing Office, July, 1994.

#### **4a. REASON FOR VISIT, DIAGNOSIS - NCHS REPORTS**

Ambulatory Care Visits for Asthma: United States, 1993-94 [ADR No. 277]  
Office Visits for Glaucoma: United States, 1991-92 [ADR No. 262]  
Office Visits for Otitis Media: United States, 1975-90 [ADR No. 214]  
Office Visits for Diabetes Mellitus: 1989 [ADR No. 211]  
Use of Health Services for Disorders of the Female Reproductive System: 1977-78 [Series 13, No. 63]  
Patient's Reasons for Visiting Physicians: 1977-78 [Series 13, No. 56]  
Headache as the Reason for Office Visits: 1977-78 [ADR No. 67]  
Cough as the Reason for Office Visits: 1977-78 [ADR No. 65]  
Office Visits for Male Genitourinary Conditions: 1977-78 [ADR No. 63]  
Office Visits for Diabetes Mellitus: 1977 [ADR No. 57]  
Office Visits for Diseases of the Respiratory System: 1975-76 [Series 13, No. 42]  
Office Visits for Family Planning: 1977 [ADR No. 49]  
Office Visits for Diseases of the Circulatory System: 1975-76 [Series 13, No. 40]  
Office Visits for Respiratory Conditions: 1975-76 [ADR No. 41]  
Office Visits for Hypertension: 1975-76 [ADR No. 28]

#### **4b. REASON FOR VISIT, DIAGNOSIS - JOURNAL ARTICLES USING NAMCS DATA**

Rayens E, Norris KA. Prevalence and Healthcare Burden of Fungal Infections in the United States, 2018. *Open Forum Infect Dis.* 2022 Jan 10;9(1):ofab593. doi: 10.1093/ofid/ofab593. eCollection 2022 Jan. PMID: 35036461  
Free PMC article. (NAMCS/NHAMCS)

Lee J, Chang CH, Yung R, Bynum JPW. Provider Specialty and the Use of Disease-Modifying Antirheumatic Drugs for Rheumatoid Arthritis Among Older Adults in the 2005-2016 National Ambulatory Medical Care Survey. *ACR Open Rheumatol.* 2022 Jan 17. doi: 10.1002/acr2.11406. Online ahead of print. PMID: 35040280 Free article.

Fuller DT, Kedar E, Lovelett CR, Mondal S, Sur S. Prevalence of Common Comorbidities in Rheumatoid Arthritis in Rural New York Compared With National Data. *Cureus.* 2021 Nov 10;13(11):e19432. doi: 10.7759/cureus.19432. eCollection 2021 Nov. PMID: 34909337

Unigwe I, Yang S, Song HJ, Lo-Ciganic WH, Hincapie-Castillo J, Cook RL, Park H. Trends in Sexually Transmitted Infections in United States Ambulatory Care Clinics from 2005-2016. *J Clin Med.* 2021 Dec 24;11(1):71. doi: 10.3390/jcm11010071. PMID: 35011812

Burch R, Rizzoli P, Loder E. [The prevalence and impact of migraine and severe headache in the United States: Updated age, sex, and socioeconomic-specific estimates from government health surveys.](#) *Headache.* 2020 Dec 21. doi: 10.1111/head.14024. Online ahead of print.

Matthews EB, Akincigil A. The impact of electronic health record functions on patterns of depression treatment in primary care. *Inform Health Soc Care.* 2021 Oct 21;1-10. doi: 10.1080/17538157.2021.1990933. Online ahead of print. PMID: 34672856

Peery AF, Crockett SD, Murphy CC, Jensen ET, Kim HP, Egberg MD, Lund JL, Moon AM, Pate V, Barnes EL, Schlusser CL, Baron TH, Shaheen NJ, Sandler RS. Burden and Cost of Gastrointestinal, Liver, and Pancreatic Diseases in the United States: Update 2021. *Gastroenterology*. 2021 Oct 19:S0016-5085(21)03655-6. doi: 10.1053/j.gastro.2021.10.017. Online ahead of print. PMID: 34678215

Kreisel KM, Llata E, Haderxhanaj L, Pearson WS, Tao G, Wiesenfeld HC, Torrone EA. The Burden of and Trends in Pelvic Inflammatory Disease in the United States, 2006-2016. *J Infect Dis*. 2021 Aug 16;224(Supplement\_2):S103-S112. doi: 10.1093/infdis/jiaa771. PMID: 34396411

Ugwu N, Cheraghlou S, Antaya RJ, Feng H, Cohen JM. Trends in office visits and treatment for urticaria in children in the United States, 1998-2016. *Pediatr Dermatol*. 2021 Aug 2. doi: 10.1111/pde.14726. Online ahead of print. PMID: 34339077

Young EH, Yap AG, Vargas MN, Strey KA, Hao A, Reveles KR. National Prevalence of Influenza Diagnoses and Vaccination Rates Among Patients Presenting to United States Physician Offices and Hospital Outpatient Departments, 2009 to 2016. *Open Forum Infect Dis*. 2021 Mar 26;8(7):ofab148. doi: 10.1093/ofid/ofab148. eCollection 2021 Jul. PMID: 34327250

Lin IC, Heck JE, Chen L, Feldman SR. Psoriasis Severity and Cardiometabolic Risk Factors in a Representative US National Study. *Am J Clin Dermatol*. 2021 Apr 28. doi: 10.1007/s40257-021-00600-z. Online ahead of print. PMID: 33913115

Fantus RJ, Alter K, Chang C, Ambulkar SS, Bennett NE, Helfand BT, Brannigan RE, Halpern JA. Characterizing the Epidemiology and Provider Landscape of Male Infertility Care in the United States. *Urology*. 2021 Apr 20:S0090-4295(21)00335-6. doi: 10.1016/j.urology.2021.04.008. Online ahead of print. PMID: 33891924

Low J, Kong A, Castro G, Rodriguez de la Vega P, Lozano J, Varella M. Association Between Diabetes Mellitus and Carpal Tunnel Syndrome: Results From the United States National Ambulatory Medical Care Survey. *Cureus*. 2021 Mar 12;13(3):e13844. doi: 10.7759/cureus.13844. PMID: 33859898

Bensken WP, Dong W, Gullett H, Etz RS, Stange KC. Changing Reasons for Visiting Primary Care Over a 35-Year Period. *J Am Board Fam Med*. 2021 Mar-Apr;34(2):442-448. doi: 10.3122/jabfm.2021.02.200145. PMID: 33833017 Free article.

Appukutty AJ, Skolarus LE, Springer MV, Meurer WJ, Burke JF. Increasing false positive diagnoses may lead to overestimation of stroke incidence, particularly in the young: a cross-sectional study. *BMC Neurol*. 2021 Apr 8;21(1):152. doi: 10.1186/s12883-021-02172-1. PMID: 33832441 Free PMC article.

Schneider BJ, Haring RS, Song A, Kim P, Ayers GD, Kennedy DJ, Jain NB. Characteristics of ambulatory spine care visits in the United States, 2009-2016. *J Back Musculoskelet Rehabil*. 2021 Mar 5. doi: 10.3233/BMR-200145. Online ahead of print. PMID: 33720875

Feldman DE, Nahin RL, Feldman DE, et al. [National Estimates of Chronic Musculoskeletal Pain and Its Treatment in Children, Adolescents and Young Adults in the United States: Data from the 2007-2015 NAMCS](#). *J Pediatr*. 2021 Jan 29:S0022-3476(21)00089-5. doi: 10.1016/j.jpeds.2021.01.055. Online ahead of print. *J Pediatr*. 2021. PMID: 33524388

Dugan K, Ablah E, Okut H, Srinivasan S, Salyers W Jr. [Guideline Adherence in Dyspepsia Investigation and Treatment](#). *Kans J Med*. 2020 Dec 11;13:306-310. doi: 10.17161/kjm.vol13.13838. eCollection 2020. *Kans J Med*. 2020. PMID: 33343824

Ma C, Congly SE, Novak KL, Belletrutti PJ, Raman M, Woo M, Andrews CN, Nasser Y. Epidemiologic Burden and Treatment of Chronic Symptomatic Functional Bowel Disorders in the United States: A Nationwide Analysis. *Gastroenterology*. 2020 Sep 30:S0016-5085(20)35224-0. doi: 10.1053/j.gastro.2020.09.041. Online ahead of print. PMID: 33010247

Muddasani S, Flood KS, Fleischer AB Jr. An assessment of current practices in hidradenitis suppurativa: the rise of biologic therapy. *J Dermatolog Treat*. 2020 Sep 23:1-4. doi: 10.1080/09546634.2020.1825613. Online ahead of print. PMID: 32940551

Song A, Kim P, Ayers GD, Jain N. Characteristics of non-spine musculoskeletal ambulatory care visits in the United States, 2009-2016. *PM R*. 2020 Sep 5. doi: 10.1002/pmrj.12484. Online ahead of print.

Bowers LC, Gribble PA, Hoch MC, Villasante Tezanos AG, Kosik KB. Physical therapy referral and medication for ankle sprain visits to physician offices: an analysis of the national ambulatory medical care survey. *Phys Sportsmed*. 2020 Aug 6:1-6. doi: 10.1080/00913847.2020.1800369. Online ahead of print.

Singh P, Silverberg NB, Silverberg JI. Outpatient healthcare utilization and prescribing patterns for herpes zoster in United States adults. *Arch Dermatol Res*. 2020 May 10. doi: 10.1007/s00403-020-02085-y. [Epub ahead of print]

Dunaway S, Fleischer AB Jr. Assessing adherence to evidence-based guidelines of care for acne vulgaris. *J Dermatolog Treat*. 2020 Mar 5:1-5. doi: 10.1080/09546634.2020.1729950. [Epub ahead of print]

Muddasani S, Fleischer AB Jr. United States systemic psoriasis treatments: increases in the use of biologic agents and plateau of methotrexate and oral small molecule inhibitors. *J Dermatolog Treat*. 2020 Feb 20:1-3. doi: 10.1080/09546634.2020.1729951. [Epub ahead of print]

Ma C, Smith M, Guizzetti L, Panaccione R, Kaplan GG, Novak KL, Lu C, Khanna R, Feagan BG, Singh S, Jairath V, Ananthakrishnan AN. Assessing National Trends and Disparities in Ambulatory, Emergency Department, and Inpatient Visits for Inflammatory Bowel Disease in the United States (2005-2016). *Clin Gastroenterol Hepatol*. 2020 Jan 24. pii: S1542-3565(20)30102-6. doi: 10.1016/j.cgh.2020.01.023. [Epub ahead of print]

Earla JR, Paranjpe R, Kachru N, Hutton GJ, Aparasu RR. Use of disease modifying agents in patients with multiple sclerosis: Analysis of ten years of national data. *Res Social Adm Pharm*. 2020 Mar 11. pii: S1551-7411(19)31090-3. doi: 10.1016/j.sapharm.2020.02.016. [Epub ahead of print]

Feldman DE, Carlesso LC, Nahin RL. Management of Patients with a Musculoskeletal Pain Condition that is Likely Chronic: Results from a National Cross Sectional Survey. *J Pain*. 2019 Dec 16. pii: S1526-5900(19)30876-4. doi: 10.1016/j.jpain.2019.11.014. [Epub ahead of print]

Akinbami LJ, Santo L, Williams S, Rechtsteiner EA, Strashny A. Characteristics of Asthma Visits to Physician Offices in the United States: 2012-2015 National Ambulatory Medical Care Survey. *Natl Health Stat Report*. 2019 Sep;(128):1-20.

Whang KA, Khanna R, Thomas J, Aguh C, Kwatra SG. Racial and Gender Differences in the Presentation of Pruritus. *Medicines (Basel)*. 2019 Sep 27;6(4). pii: E98. doi: 10.3390/medicines6040098.

Lipner SR, Hancock JE, Fleischer AB. The ambulatory care burden of nail conditions in the United States. *J Dermatolog Treat*. 2019 Oct 21:1-4. doi: 10.1080/09546634.2019.1679337. [Epub ahead of print]

Wu KK, Borba AJ, Deng PH, Armstrong AW. Association between atopic dermatitis and conjunctivitis in adults: a population-based study in the United States. *J Dermatolog Treat*. 2019 Sep 2:1-5. doi: 10.1080/09546634.2019.1659480. [Epub ahead of print]



- Dunlap PM, Khoja SS, Whitney SL, Freburger JK. Assessment of Health Care Utilization for Dizziness in Ambulatory Care Settings in the United States. *Otol Neurotol*. 2019 Oct;40(9):e918-e924. doi: 10.1097/MAO.0000000000002359.
- Moloney ME, Ciciurkaite G, Brown RL. The medicalization of sleeplessness: Results of U.S. office visit outcomes, 2008-2015. *SSM Popul Health*. 2019 May 12;8:100388. doi: 10.1016/j.ssmph.2019.100388. eCollection 2019 Aug.
- Bae J, Lin JS. Healthcare Utilization in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS): Analysis of US Ambulatory Healthcare Data, 2000-2009. *Front Pediatr*. 2019 May 14;7:185. doi: 10.3389/fped.2019.00185. eCollection 2019. (NAMCS/NHAMCS)
- Willey C, Kamat S, Stellhorn R, Blais J. Analysis of Nationwide Data to Determine the Incidence and Diagnosed Prevalence of Autosomal Dominant Polycystic Kidney Disease in the USA: 2013-2015. *Kidney Dis (Basel)*. 2019 Mar;5(2):107-117. doi: 10.1159/000494923. Epub 2019 Jan 9.
- Hilleary RS, Jabusch SM, Zheng B, Jiroutek MR, Carter CA. Gender disparities in patient education provided during patient visits with a diagnosis of coronary heart disease. *Womens Health (Lond)*. 2019 Jan-Dec;15:1745506519845591. doi: 10.1177/1745506519845591.
- Jo A, Larson S, Carek P, Peabody MR, Peterson LE, Mainous AG. Prevalence and practice for rare diseases in primary care: a national cross-sectional study in the USA. *BMJ Open*. 2019 Apr 1;9(4):e027248. doi: 10.1136/bmjopen-2018-027248.
- Ciciurkaite G, Moloney ME, Brown RL. The Incomplete Medicalization of Obesity: Physician Office Visits, Diagnoses, and Treatments, 1996-2014. *Public Health Rep*. 2019 Mar/Apr;134(2):141-149. doi: 10.1177/0033354918813102. Epub 2019 Feb 22.
- Castro KE, Corey KD, Raymond DL, Jiroutek MR, Holland MA. An evaluation of gout visits in the United States for the years 2007 to 2011. *BMC Rheumatol*. 2018 May 30;2:14. doi: 10.1186/s41927-018-0020-0. eCollection 2018.
- Singh P, Silverberg JI. Outpatient utilization patterns for atopic dermatitis in the United States. *J Am Acad Dermatol*. 2019 Mar 15. pii: S0190-9622(19)30435-9. doi: 10.1016/j.jaad.2019.03.021. [Epub ahead of print]
- Shealy KM, Wu J, Waites J, Taylor NA, Blair Sarbacker G. Patterns of Diabetes Screening and Prediabetes Treatment during Office Visits in the US. *J Am Board Fam Med*. 2019 Mar-Apr;32(2):209-217. doi: 10.3122/jabfm.2019.02.180259.
- Akinbami LJ, Salo PM, Cloutier MM, Wilkerson JC, Elward KS, Mazurek JM, Williams S, Zeldin DC. Primary care clinician adherence with asthma guidelines: the National Asthma Survey of Physicians. *J Asthma*. 2019 Mar 1:1-13. doi: 10.1080/02770903.2019.1579831. [Epub ahead of print]
- Pilla SJ, Segal JB, Alexander GC, Boyd CM, Maruthur NM. Differences in National Diabetes Treatment Patterns and Trends between Older and Younger Adults. *J Am Geriatr Soc*. 2019 Jan 31. doi: 10.1111/jgs.15790. [Epub ahead of print]
- Fleischer AB Jr. Atopic dermatitis: the relationship to temperature and seasonality in the United States. *Int J Dermatol*. 2018 Nov 11. doi: 10.1111/ijd.14289. [Epub ahead of print]
- Yang L, Hur K, Koempel J, Ference EH. Epistaxis health disparities in the United States pediatric population. *Int J Pediatr Otorhinolaryngol*. 2018 Nov;114:20-25. doi: 10.1016/j.ijporl.2018.08.025. Epub 2018 Aug 23.
- Chang JE, Shapiro NL, Bhattacharyya N. Do demographic disparities exist in the diagnosis and surgical management of otitis media? *Laryngoscope*. 2018 Sep 19. doi: 10.1002/lary.27396. [Epub ahead of print]

- Kawai K, Adil EA, Barrett D, Manganella J, Kenna MA. Ambulatory Visits for Otitis Media before and after the Introduction of Pneumococcal Conjugate Vaccination. *J Pediatr*. 2018 Jun 26. pii: S0022-3476(18)30760-1. doi: 10.1016/j.jpeds.2018.05.047. [Epub ahead of print]
- Robbins R, Seixas A, Jean-Louis G, Parthasarathy S, Rapoport DM, Ogedegbe G, Ladapo JA. National patterns of physician management of sleep apnea and treatment among patients with hypertension. *PLoS One*. 2018 May 23;13(5):e0196981. doi: 10.1371/journal.pone.0196981. eCollection 2018.
- Ly DP. Racial and Ethnic Disparities in the Evaluation and Management of Pain in the Outpatient Setting, 2006-2015. *Pain Med*. 2018 Apr 20. doi: 10.1093/pm/pny074. [Epub ahead of print]
- Burch R, Rizzoli P, Loder E. The Prevalence and Impact of Migraine and Severe Headache in the United States: Figures and Trends From Government Health Studies. *Headache*. 2018 Mar 12. doi: 10.1111/head.13281. [Epub ahead of print]
- He A, Feldman SR, Fleischer AB. Trends in Atopic Dermatitis Management: Comparison of 1990-1997 to 2003-2012. *J Drugs Dermatol*. 2018 Feb 1;17(2):135-140.
- Bhattacharjee S, Vadieli N, Goldstone L, Alrabiah Z, Sherman SJ. Patterns and Predictors of Depression Treatment among Older Adults with Parkinson's Disease and Depression in Ambulatory Care Settings in the United States. *Parkinsons Dis*. 2018 Mar 1;2018:3402983. doi: 10.1155/2018/3402983. eCollection 2018.
- Peabody MR, O'Neill TR, Stelter KL, Puffer JC. Frequency and Criticality of Diagnoses in Family Medicine Practices: From the National Ambulatory Medical Care Survey (NAMCS). *J Am Board Fam Med*. 2018 Jan-Feb;31(1):126-138. doi: 10.3122/jabfm.2018.01.170209.
- Blostein F, Levin-Sparenberg E, Wagner J, Foxman B. Recurrent vulvovaginal candidiasis. *Ann Epidemiol*. 2017 Aug 15. pii: S1047-2797(17)30268-5. doi: 10.1016/j.annepidem.2017.08.010. [Epub ahead of print] Review.
- De Lott LB, Kerber KA, Lee PP, Brown DL, Burke JF. Diplopia-Related Ambulatory and Emergency Department Visits in the United States, 2003-2012. *JAMA Ophthalmol*. 2017 Oct 26. doi: 10.1001/jamaophthalmol.2017.4508. [Epub ahead of print]
- Ladapo JA, Chokshi DA. Changes in cardiovascular care provision after the Affordable Care Act. *Am J Manag Care*. 2017 Nov 1;23(11):e366-e373.
- Sun GH, Cain-Nielsen A, Moloci NM. Who's Managing Otolaryngologic Conditions in the United States? *Otolaryngol Head Neck Surg*. 2017 Jun 1;194599817718814. doi: 10.1177/0194599817718814. [Epub ahead of print]
- Bhattacharjee S, Goldstone L, Ip Q, Warholak T. Depression Treatment among Adults with Multiple Sclerosis and Depression in Ambulatory Care Settings in the United States. *Mult Scler Int*. 2017;2017:3175358. doi: 10.1155/2017/3175358. Epub 2017 Apr 27.
- Goldberg DM, Lin HC. Effects of the mental health parity and addictions equality act on depression treatment choice in primary care facilities. *Int J Psychiatry Med*. 2017 Jan;52(1):34-47. doi: 10.1177/0091217417703289. Epub 2017 Apr 6.
- Ren J, Ni H, Kim M, Cooley KL, Valenzuela RM, Asche CV. Allergies, antibiotics use, and multiple sclerosis. *Curr Med Res Opin*. 2017 Apr 28:1-14. doi: 10.1080/03007995.2017.1325575. [Epub ahead of print]
- Tu JV, Maclagan LC, Ko DT, Atzema CL, Booth GL, Johnston S, Tu K, Lee DS, Bierman A, Hall R, Bhatia RS, Gershon AS, Tobe SW, Sanmartin C, Liu P, Chu A; CANHEART Primary Prevention Indicator Expert Panel..

The Cardiovascular Health in Ambulatory Care Research Team performance indicators for the primary prevention of cardiovascular disease: a modified Delphi panel study. *CMAJ Open*. 2017 Apr 25;5(2):E315-E321. doi: 10.9778/cmajo.20160139.

McGregor SP, Farhangian ME, Huang KE, Feldman SR. Treatment of Atopic Dermatitis in the United States: Analysis of Data from the National Ambulatory Medical Care Survey. *J Drugs Dermatol*. 2017 Mar 1;16(3):250-255.

Udechukwu NS, Fleischer AB Jr. Higher Risk of Care for Hidradenitis Suppurativa in African American and Non-Hispanic Patients in the United States. *J Natl Med Assoc*. 2017 Spring;109(1):44-48. doi: 10.1016/j.jnma.2016.09.002.

Akincigil A, Matthews EB. National Rates and Patterns of Depression Screening in Primary Care: Results From 2012 and 2013. *Psychiatr Serv*. 2017 Feb 15;appips201600096. doi: 10.1176/appi.ps.201600096. [Epub ahead of print]

Fairman KA, Peckham AM, Sclar DA. Diagnosis and Treatment of ADHD in the United States. *J Atten Disord*. 2017 Feb 1;1087054716688534. doi: 10.1177/1087054716688534. [Epub ahead of print]

Vila PM, Thomas T, Liu C, Poe D, Shin JJ. The Burden and Epidemiology of Eustachian Tube Dysfunction in Adults. *Otolaryngol Head Neck Surg*. 2017 Feb;156(2):278-284. doi: 10.1177/0194599816683342.

Akst LM, Haque OJ, Clarke JO, Hillel AT, Best SR, Altman KW. The Changing Impact of Gastroesophageal Reflux Disease in Clinical Practice. *Ann Otol Rhinol Laryngol*. 2017 Jan 1;3489416686586. doi: 10.1177/0003489416686586. [Epub ahead of print]

Sanchez N. Suitability of the National Health Care Surveys to Examine Behavioral Health Services Associated with Polycystic Ovary Syndrome. *J Behav Health Serv Res*. 2016 Dec 13. [Epub ahead of print]

Akkina SR, Novis SJ, Keshavarzi NR, Pynnonen MA. Academic institution pilot study shows far fewer diagnoses of sinusitis than reported nationally. *Laryngoscope Investig Otolaryngol*. 2016 Oct;1(5):124-129.

Hassid BG, Day LW, Awad MA, Sewell JL, Osterberg EC, Breyer BN. Using Search Engine Query Data to Explore the Epidemiology of Common Gastrointestinal Symptoms. *Dig Dis Sci*. 2016 Nov 23. [Epub ahead of print]

Kroenke K. Somatic symptoms deserve our attention. *Fam Syst Health*. 2016 Dec;34(4):330-333.

Mu L, Mukamal KJ. Treatment Intensification for Hypertension in US Ambulatory Medical Care. *J Am Heart Assoc*. 2016 Oct 22;5(10). pii: e004188.

Choi NG, DiNitto DM, Marti CN, Kunik ME. When depression is diagnosed, older adults are as likely as younger adults to be prescribed pharmacotherapy and psychotherapy. *Gen Hosp Psychiatry*. 2016 Nov - Dec;43:6-11. doi: 10.1016/j.genhosppsych.2016.08.002.

Wetzel ME, Fleischer AB Jr. Factors Affecting The Rise of Treatment of Resistant Bacteria in Skin and Soft Tissue Infections in the United States: 1993 to 2012. *J Dermatolog Treat*. 2016 Nov 4:1-17. [Epub ahead of print]

Namen AM, Chatterjee A, Huang KE, Feldman SR, Haponik EF. Recognition of Sleep Apnea Is Increasing: An Analysis of Trends in Two Large, Representative Databases of Outpatient Practice. *Ann Am Thorac Soc*. 2016 Sep 1. [Epub ahead of print]

Zhao Y, Shi Q, Wang Y, Fonseca V, Shi L. Economic burden of hypoglycemia: utilization of emergency department and outpatient services in the United States (2005-2009). *J Med Econ*. 2016 Apr 13:1-22. [Epub ahead of print]

Ware CE, Ajabnoor Y, Mullins PM, Mazer-Amirshahi M, Pines JM, May L. A retrospective cross-sectional study of patients treated in US EDs and ambulatory care clinics with sexually transmitted infections from 2001 to 2010. *Am J Emerg Med*. 2016 Jun 13. pii: S0735-6757(16)30254-6. doi: 10.1016/j.ajem.2016.06.039. [Epub ahead of print]

Harman JS, Mills J, Cook RL, Harle CA. Electronic Health Record Availability and Anxiety Treatment in Office-Based Practices. *Psychiatr Serv*. 2016 May 2;appips201500150. [Epub ahead of print]

Davis SA, Lin HC, Balkrishnan R, Feldman SR. Hidradenitis Suppurativa Management in the United States: An Analysis of the National Ambulatory Medical Care Survey and MarketScan Medicaid Databases. *Skin Appendage Disord*. 2015 Sep;1(2):65-73. doi: 10.1159/000431037. Epub 2015 Jun 20.

Oehrlein EM, Burcu M, Safer DJ, Zito JM. National Trends in ADHD Diagnosis and Treatment: Comparison of Youth and Adult Office-Based Visits. *Psychiatr Serv*. 2016 May 16;appips201500269. [Epub ahead of print]

Talwalkar A, McCarty F. Characteristics of Physician Office Visits for Obesity by Adults Aged 20 and Over: United States, 2012. *NCHS Data Brief*. 2016 Mar;(237):1-8.

Zhao Y, Shi Q, Wang Y, Fonseca V, Shi L. Economic burden of hypoglycemia: utilization of emergency department and outpatient services in the United States (2005-2009). *J Med Econ*. 2016 Apr 13:1-22. [Epub ahead of print]

Mainous AG 3rd, Tanner RJ, Baker R. Prediabetes Diagnosis and Treatment in Primary Care. *J Am Board Fam Med*. 2016 Mar-Apr;29(2):283-5. doi: 10.3122/jabfm.2016.02.150252.

Leo P, McCrean M. Epidemiology. In: Laskowitz D, Grant G, editors. *Translational Research in Traumatic Brain Injury*. Boca Raton (FL): CRC Press/Taylor and Francis Group; 2016. Chapter 1.

Gilani S, Quan SF, Pynnonen MA, Shin JJ. Obstructive Sleep Apnea and Gastroesophageal Reflux: A Multivariate Population-Level Analysis. *Otolaryngol Head Neck Surg*. 2015 Dec 8. pii: 0194599815621557. [Epub ahead of print]

Rajakannan T, Safer DJ, Burcu M, Zito JM. National Trends in Psychiatric Not Otherwise Specified (NOS) Diagnosis and Medication Use Among Adults in Outpatient Treatment. *Psychiatr Serv*. 2015 Nov 16;appips201500045. [Epub ahead of print]

Roditi RE, Veling M, Shin JJ. Age: An effect modifier of the association between allergic rhinitis and Otitis media with effusion. *Laryngoscope*. 2015 Sep 30. doi: 10.1002/lary.25682. [Epub ahead of print]

Farhangian ME, McMichael AJ, Huang KE, Feldman SR. [Treatment of Alopecia Areata in the United States: A Retrospective Cross-Sectional Study](#). *J Drugs Dermatol*. 2015 Sep 1;14(9):1012-4.

Gu A, Yue Y, Argulian E. Age Differences in Treatment and Control of Hypertension in US Physician Offices, 2003-2010. *Am J Med*. 2015 Aug 20. pii: S0002-9343(15)00767-6. doi: 10.1016/j.amjmed.2015.07.031. [Epub ahead of print]

Taheri A, Davis SA, Huang KE, Feldman SR. Onychomycosis treatment in the United States. *Cutis*. 2015 May;95(5):E15-21.

Pearson WS, Gift TL, Leichter JS, Jenkins WD. Differences in Treatment of Chlamydia trachomatis by Ambulatory Care Setting. *J Community Health*. 2015 May 5. [Epub ahead of print]

Rogers HW, Weinstock MA, Feldman SR, Coldiron BM. Incidence Estimate of Nonmelanoma Skin Cancer (Keratinocyte Carcinomas) in the US Population, 2012. *JAMA Dermatol*. 2015 Apr 30. doi: 10.1001/jamadermatol.2015.1187. [Epub ahead of print]

Asao K, McEwen LN, Lee JM, Herman WH. Ascertainment of outpatient visits by patients with diabetes: The National Ambulatory Medical Care Survey (NAMCS) and the National Hospital Ambulatory Medical Care Survey (NHAMCS). *J Diabetes Complications*. 2015 Apr 7. pii: S1056-8727(15)00115-4. doi: 10.1016/j.jdiacomp.2015.03.019. [Epub ahead of print]

Bergmark RW, Ishman SL, Scangas GA, Cunningham MJ, Sedaghat AR. Insurance Status and Quality of Outpatient Care for Uncomplicated Acute Rhinosinusitis. *JAMA Otolaryngol Head Neck Surg*. 2015 Apr 16. doi: 10.1001/jamaoto.2015.0530. [Epub ahead of print]

Bello JK, Rao G, Stulberg DB. Trends in contraceptive and preconception care in United States ambulatory practices. *Fam Med*. 2015 Apr;47(4):264-71.

Davis SA, Huang KE, Feldman SR, Fleischer AB Jr, Huang WW. Trends in Ambulatory Health Care Usage for Adult Acne. *J Cutan Med Surg*. 2015 Mar 3. pii: 1203475415573775. [Epub ahead of print]

Mafi JN, Edwards ST, Pedersen NP, Davis RB, McCarthy EP, Landon BE. Trends in the Ambulatory Management of Headache: Analysis of NAMCS and NHAMCS Data 1999-2010. *J Gen Intern Med*. 2015 Jan 8. [Epub ahead of print]

Wilmer EN, Gustafson CJ, Ahn CS, Davis SA, Feldman SR, Huang WW. Most common dermatologic conditions encountered by dermatologists and nondermatologists. *Cutis*. 2014 Dec;94(6):285-92.

Burch RC, Loder S, Loder E, Smitherman TA. The prevalence and burden of migraine and severe headache in the United States: updated statistics from government health surveillance studies. *Headache*. 2015 Jan;55(1):21-34. doi: 10.1111/head.12482.

Wittayanukorn S, Qian J, Westrick SC, Billor N, Johnson B, Hansen RA. Treatment patterns among breast cancer patients in the United States using two national surveys on visits to physicians' offices and hospital outpatient departments. *Res Social Adm Pharm*. 2014 Dec 18. pii: S1551-7411(14)00408-2. doi: 10.1016/j.sapharm.2014.12.002. [Epub ahead of print]

Safer DJ, Rajakannan T, Burcu M, Zito JM. Trends in Subthreshold Psychiatric Diagnoses for Youth in Community Treatment. *JAMA Psychiatry*. 2014 Nov 26. doi: 10.1001/jamapsychiatry.2014.1746. [Epub ahead of print]

Hennekens CH, Pfeffer MA, Newcomer JW, Jellinger PS, Garber A. Treatment of diabetes mellitus: the urgent need for multifactorial interventions. *Am J Manag Care*. 2014 May;20(5):357-9.

Ford ES, Wheaton AG, Cunningham TJ, Giles WH, Chapman DP, Croft JB. Trends in Outpatient Visits for Insomnia, Sleep Apnea, and Prescriptions for Sleep Medications among US Adults: Findings from the National Ambulatory Medical Care Survey 1999-2010. *Sleep*. 2014 Aug 1;37(8):1283-93. doi: 10.5665/sleep.3914.

Mosalpuria K, Agarwal SK, Yaemsiri S, Pierre-Louis B, Saba S, Alvarez R, Russell SD. Outpatient management of heart failure in the United States, 2006-2008. *Tex Heart Inst J*. 2014 Jun 1;41(3):253-61. doi: 10.14503/THIJ-12-2947. eCollection 2014 Jun.

Yu R. Commentary on "Surge in US Outpatient Vitamin D Deficiency Diagnoses: National Ambulatory Medical Care Survey Analysis". *South Med J*. 2014 Apr;107(4):218-9. doi: 10.1097/SMJ.0000000000000094. No abstract available.

Gupta MA, Knapp K. Cardiovascular and Psychiatric Morbidity in Obstructive Sleep Apnea (OSA) with Insomnia (Sleep Apnea Plus) versus Obstructive Sleep Apnea without Insomnia: A Case-Control Study from a Nationally Representative US Sample. *PLoS One*. 2014 Mar 5;9(3):e90021. doi: 10.1371/journal.pone.0090021. eCollection 2014.

- Patel SR, Humensky JL, Olfson M, Simpson HB, Myers R, Dixon LB. Treatment of Obsessive-Compulsive Disorder in a Nationwide Survey of Office-Based Physician Practice. *Psychiatr Serv*. 2014 Mar 3. doi: 10.1176/appi.ps.201300192. [Epub ahead of print]
- Desai AM, Cavanaugh TM, Desai VC, Heaton PC, Kelton CM. Trends in the outpatient treatment of atrial fibrillation in the USA from 2001 to 2010. *Pharmacoepidemiol Drug Saf*. 2014 Mar 12. doi: 10.1002/pds.3605. [Epub ahead of print]
- Mahboubi H, Verma SP. Swallowing Disorders in the Ambulatory Medical Setting. *Otolaryngol Head Neck Surg*. 2014 Jan 16. [Epub ahead of print]
- Roberts HW, Utuama OA, Klevens M, Teshale E, Hughes E, Jiles R. The Contribution of Viral Hepatitis to the Burden of Chronic Liver Disease in the United States. *Am J Gastroenterol*. 2014 Jan 21. doi: 10.1038/ajg.2013.477. [Epub ahead of print]
- Reeder VJ, Gustafson CJ, Davis SA, Fleischer AB, Huang WW. The treatment and demographics of warts: an analysis of national trends. *J Drugs Dermatol*. 2013 Dec 1;12(12):1411-5.
- Chakravarthy B, Toohey S, Rezaimehr Y, Anderson CL, Hoonpongsimanont W, Menchine M, Lotfipour S. National differences between ED and ambulatory visits for suicidal ideation and attempts and depression. *Am J Emerg Med*. 2013 Dec 26. pii: S0735-6757(13)00903-0. doi: 10.1016/j.ajem.2013.12.044. [Epub ahead of print]
- Daubresse M, Chang HY, Yu Y, Viswanathan S, Shah ND, Stafford RS, Kruszewski SP, Alexander GC. Ambulatory Diagnosis and Treatment of Nonmalignant Pain in the United States, 2000-2010. *Med Care*. 2013 Oct;51(10):870-878.
- Ewigman NL, Gyls JA, Harman JS. The diagnosis of anger as a presenting complaint in outpatient medical settings. *Psychiatr Serv*. 2013 Sep 1;64(9):921-4. doi: 10.1176/appi.ps.201200329.
- Tanda R, Salsberry P. The Impact of the 2007 Expert Committee Recommendations on Childhood Obesity Preventive Care in Primary Care Settings in the United States. *J Pediatr Health Care*. 2013 Jul 4. doi:pii: S0891-5245(13)00196-X. 10.1016/j.pedhc.2013.05.009. [Epub ahead of print]
- Al-Dabagh A, Davis SA, McMichael AJ, Feldman SR. Rosacea in skin of color: not a rare diagnosis. *Dermatol Online J*. 2014 Oct 15;20(10). pii: 13030/qt1mv9r0ss.
- Landis ET, Davis SA, Taheri A, Feldman SR. Top dermatologic diagnoses by age. *Dermatol Online J*. 2014 Apr 16;20(4):22368.
- Kang SJ, Davis SA, Feldman SR, McMichael AJ. Dyschromia in skin of color. *J Drugs Dermatol*. 2014 Apr 1;13(4):401-6.
- Ji AL, Baze MR, Davis SA, Feldman SR, Fleischer AB Jr. Ambulatory melanoma care patterns in the United States. *J Skin Cancer*. 2013;2013:689261. doi: 10.1155/2013/689261. Epub 2013 Aug 21.
- Koelblinger P, Dabade TS, Gustafson CJ, Davis SA, Yentzer BA, Kiracofe EA, Feldman SR. Skin manifestations of outpatient adverse drug events in the United States: a national analysis. *J Cutan Med Surg*. 2013 Jul-Aug;17(4):269-75.
- Mafi JN, McCarthy EP, Davis RB, Landon BE. Worsening Trends in the Management and Treatment of Back Pain. *JAMA Intern Med*. 2013 Jul 29. doi: 10.1001/jamainternmed.2013.8992. [Epub ahead of print]

Mannix R, O'Brien MJ, Meehan WP 3rd. The Epidemiology of Outpatient Visits for Minor Head Injury 2005-2009. *Neurosurgery*. 2013 May 14. [Epub ahead of print]

Davis SA, Feldman SR. Combination therapy for psoriasis in the United States. *J Drugs Dermatol*. 2013 May 1;12(5):546-50.

Richardson VN, Davis S, Gustafson C, West C, Feldman S. Patterns of Disease and Treatment of Cold Sores. *J Dermatolog Treat*. 2013 Mar 29. [Epub ahead of print]

Rasu RS, Sohraby R, Cunningham L, Knell ME. Assessing Chronic Pain Treatment Practices and Evaluating Adherence to Chronic Pain Clinical Guidelines in Outpatient Practices in the United States. *J Pain*. 2013 Apr 8. doi:pii: S1526-5900(13)00462-8. 10.1016/j.jpain.2013.01.425. [Epub ahead of print]

Davis SA, Feldman SR, McMichael AJ. Management of Keloids in the United States, 1990-2009: An Analysis of the National Ambulatory Medical Care Survey. *Dermatol Surg*. 2013 Mar 6. doi: 10.1111/dsu.12182. [Epub ahead of print]

Smitherman TA, Burch R, Sheikh H, Loder E. The prevalence, impact, and treatment of migraine and severe headaches in the United States: a review of statistics from national surveillance studies. *Headache*. 2013 Mar;53(3):427-36. doi: 10.1111/head.12074. Epub 2013 Mar 7.

Wysong A, Linos E, Hernandez-Boussard T, Arron ST, Gladstone H, Tang JY. Nonmelanoma Skin Cancer Visits and Procedure Patterns in a Nationally Representative Sample: National Ambulatory Medical Care Survey 1995-2007. *Dermatol Surg*. 2013 Jan 17. doi: 10.1111/dsu.12092. [Epub ahead of print]

Heart disease and stroke statistics--2013 update: a report from the American Heart Association. Go AS, Mozaffarian D, Roger VL, Benjamin EJ et al. *Circulation*. 2013 Jan 1;127(1):e6-e245. doi: 10.1161/CIR.0b013e31828124ad. Epub 2012 Dec 12. Review. No abstract available. Erratum in: *Circulation*. 2013 Jan 1;127(1):doi:10.1161/CIR.0b013e31828124ad.

Moorman JE, Akinbami LJ, Bailey CM, Zahran HS, King ME, Johnson CA, Liu X. National Surveillance of Asthma: United States, 2001-2010. *Vital Health Stat 3*. 2012 Nov;(35):1-67.

Bhattacharyya N, Kepnes LJ. Ambulatory Office Visits and Medical Comorbidities Associated with Obstructive Sleep Apnea. *Otolaryngol Head Neck Surg*. 2012 Sep 5. [Epub ahead of print]

Wong JW, Davis SA, Feldman SR, Koo JY. Trends in older adult psoriasis outpatient health care practices in the United States. *J Drugs Dermatol*. 2012 Aug;11(8):957-62.

Peery AF, Dellon ES, Lund J, Crockett SD et al. Burden of Gastrointestinal Disease in the United States: 2012 Update. *Gastroenterology*. 143(5):1179-1187. Nov 2012. 2012 Aug 8. [Epub ahead of print]

Heart disease and stroke statistics--2012 update: a report from the American Heart Association. Roger VL, Go AS, Lloyd-Jones DM, Benjamin EJ et al. *Circulation*. 2012 Jan 3;125(1):e2-e220. doi: 10.1161/CIR.0b013e31823ac046. Epub 2011 Dec 15. Erratum in: *Circulation*. 2012 Jun 5;125(22):e1002.

Srinivas SV, Deyo RA, Berger ZD. Application of "Less Is More" to Low Back Pain. *Arch Intern Med*. 172(13):1016-1020. Jul 2012. 2012 Jun 4:1-5. doi: 10.1001/archinternmed.2012.1838. [Epub ahead of print]

Mattos JL, Woodard CR, Payne SC. Trends in common rhinologic illnesses: Analysis of U.S. healthcare surveys 1995-2007. *Int Forum Allergy Rhinol*. 1(1):3-12. Jan-Feb 2011. 2011 Jan;1(1):3-12. doi: 10.1002/alr.20003. Epub 2010 Nov 18.

Payne TJ, Chen CI, Baker CL, Shah SN, Pashos CL, Boulanger L. National ambulatory medical care survey: Tobacco intervention practices in outpatient clinics. *Psychol Addict Behav.* 26(3):644-648. Sept 2012. 2012 Jan 30. [Epub ahead of print]

McDonald DD, Walsh S. Older adult osteoarthritis pain management: Results from the 2008 National Ambulatory Medical Care Survey. *J Am Acad Nurse Pract.* 2012 Feb;24(2):107-12. doi: 10.1111/j.1745-7599.2011.00676.x. Epub 2011 Dec 19.

Lee LN, Bhattacharyya N. Regional and specialty variations in the treatment of chronic rhinosinusitis. *Laryngoscope.* 2011 May;121(5):1092-7. doi: 10.1002/lary.21550.

Bhattacharyya N, Kepnes LJ. Initial Impact of the Acute Otitis Externa Clinical Practice Guideline on Clinical Care. *Otolaryngol Head Neck Surg.* 145(3):414-417. Sep 2011. 2011 Apr 29. [Epub ahead of print]

Heart disease and stroke statistics--2011 update: a report from the American Heart Association. Roger VL, Go AS, Lloyd-Jones DM, Adams RJ et al. *Circulation.* 2011 Feb 1;123(4):e18-e209. doi: 10.1161/CIR.0b013e3182009701. Epub 2010 Dec 15. No abstract available. Erratum in: *Circulation.* 2011 Oct 18;124(16):e426. *Circulation.* 2011 Feb 15;123(6):e240.

Shapiro DJ, Gonzales R, Cabana MD, Hersh AL. National trends in visit rates and antibiotic prescribing for children with acute sinusitis. *Pediatrics.* 2011 Jan;127(1):28-34. Epub 2010 Dec 27.

Akinbami LJ, Moorman JE, Liu X. Asthma prevalence, health care use, and mortality: United States, 2005-2009. *Natl Health Stat Report.* 2011 Jan 12;(32):1-14.

Yentzer BA, Fleischer AB Jr. Changes in rosacea comorbidities and treatment utilization over time. *J Drugs Dermatol.* 2010 Nov;9(11):1402-6.

He XZ. Diabetes preventive services and policy implications in the United States. *Diabetes Care.* 2010 Sep 15. [Epub ahead of print]

Best SR, Fakhry C. The prevalence, diagnosis, and management of voice disorders in a National Ambulatory Medical Care Survey (NAMCS) cohort. *Laryngoscope.* 121(1):150-157. Jan 2011. 2010 Sep 13. [Epub ahead of print]

Jameson JP, Blank MB. Diagnosis and treatment of depression and anxiety in rural and nonrural primary care: national survey results. *Psychiatr Serv.* 2010 Jun;61(6):624-7.

Kinney MA, Yentzer BA, Fleischer AB Jr, Feldman SR. Trends in the treatment of acne vulgaris: are measures being taken to avoid antimicrobial resistance? *J Drugs Dermatol.* 2010 May;9(5):519-24.

Trinkley KE, Porter K, Nahata MC. Prescribing Patterns for the Outpatient Treatment of Constipation in the United States. *Dig Dis Sci.* 2010 Apr 17. [Epub ahead of print]

Sacks JJ, Luo YH, Helmick CG. Prevalence of specific types of arthritis and other rheumatic conditions in the ambulatory health care system in the United States, 2001-2005. *Arthritis Care Res (Hoboken).* 2010 Apr;62(4):460-4.

Wilper A, Woolhandler S, Himmelstein D, Nardin R. Impact of insurance status on migraine care in the United States: a population-based study. *Neurology.* 2010 Apr 13;74(15):1178-83.

Barnes GD, Gafoor S, Wakefield T, Upchurch GR Jr, Henke P, Froehlich JB. National trends in venous disease. *J Vasc Surg.* 51(6):1467-1473. Jun 2010. 2010 Mar 19. [Epub ahead of print]



- Rogers HW, Weinstock MA, Harris AR, Hinckley MR, Feldman SR, Fleischer AB, Coldiron BM. Incidence estimate of nonmelanoma skin cancer in the United States, 2006. *Arch Dermatol*. 2010 Mar;146(3):283-7.
- Heart disease and stroke statistics--2010 update: a report from the American Heart Association. Lloyd-Jones D, Adams RJ, Brown TM, Carnethon M et al. *Circulation*. 2010 Feb 23;121(7):e46-e215. doi: 10.1161/CIRCULATIONAHA.109.192667. Epub 2009 Dec 17. No abstract available. Erratum in: *Circulation*. 2010 Mar 30;121(12):e260. Stafford, Randall [corrected to Roger, Véronique L]. *Circulation*. 2011 Oct 18;124(16):e425.
- Pearson WS, Bhat-Schelbert K, Ford ES, Mokdad AH. The impact of obesity on time spent with the provider and number of medications managed during office-based physician visits using a cross-sectional, national health survey. *BMC Public Health*. 2009 Nov 30;9(1):436. [Epub ahead of print]
- Smith AF, Waycaster C. Estimate of the direct and indirect annual cost of bacterial conjunctivitis in the United States. *BMC Ophthalmol*. 2009 Nov 25;9(1):13. [Epub ahead of print]
- Shah SS, Wood SM, Luan X, Ratner AJ. Decline in Varicella-Related Ambulatory Visits and Hospitalizations in the United States Since Routine Immunization Against Varicella. *Pediatr Infect Dis J*. 2009 Nov 25. [Epub ahead of print]
- Friedenberg FK, Hanlon A, Vanar V, Nehemia D, Mekapati J, Nelson DB, Richter JE. Trends in Gastroesophageal Reflux Disease as Measured by the National Ambulatory Medical Care Survey. *Dig Dis Sci*. 2009 Oct 15. [Epub ahead of print]
- Ananthakrishnan AN, McGinley EL, Saeian K, Binion DG. Trends in Ambulatory and Emergency Room Visits for Inflammatory Bowel Diseases in the United States: 1994-2005. *Am J Gastroenterol*. 2009 Oct 6. [Epub ahead of print]
- Smith WM, Davidson TM, Murphy C. Regional variations in chronic rhinosinusitis, 2003-2006. *Otolaryngol Head Neck Surg*. 2009 Sep;141(3):347-52.
- Sung VW, Raker CA, Myers DL, Clark MA. Ambulatory care related to female pelvic floor disorders in the United States, 1995-2006. *Am J Obstet Gynecol*. 2009 Aug 14. [Epub ahead of print]
- Pallin DJ, Espinola JA, Leung DY, Hooper DC, Camargo Jr CA. Epidemiology of Dermatitis and Skin Infections in United States Physicians' Offices, 1993-2005. *Clin Infect Dis*. 2009 Aug 10. [Epub ahead of print]
- Panackal AA, Halpern EF, Watson AJ. Cutaneous fungal infections in the United States: Analysis of the National Ambulatory Medical Care Survey (NAMCS) and National Hospital Ambulatory Medical Care Survey (NHAMCS), 1995-2004. *Int J Dermatol*. 2009 Jul;48(7):704-12.
- Decker SL, Schappert SM, Sisk JE. Use of Medical Care for Chronic Conditions. *Health Affairs*, 28, no. 1 (2009): 26-35 doi: 10.1377/hlthaff.28.1.26
- Heart disease and stroke statistics--2009 update: a report from the American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Lloyd-Jones D, Adams R, Carnethon M, De Simone G et al. *Circulation*. 2009 Jan 27;119(3):480-6. doi: 10.1161/CIRCULATIONAHA.108.191259. Erratum in: *Circulation*. 2009 Jan 27;119(3):e182.
- Tsui JI, Maselli J, Gonzales R. Sociodemographic Trends in National Ambulatory Care Visits for Hepatitis C Virus Infection. *Dig Dis Sci*. 2008 Dec 23. [Epub ahead of print]
- Licciardone JC. The epidemiology and medical management of low back pain during ambulatory medical care visits in the United States. *Osteopath Med Prim Care*. 2008 Nov 24;2(1):11. [Epub ahead of print]

Awadalla F, Rosenbaum DA, Camacho F, Fleischer AB Jr, Feldman SR. Dermatologic disease in family medicine. *Fam Med*. 2008 Jul-Aug;40(7):507-11.

Hersh AL, Chambers HF, Maselli JH, Gonzales R. National trends in ambulatory visits and antibiotic prescribing for skin and soft-tissue infections. *Arch Intern Med*. 2008 Jul 28;168(14):1585-91.

Shah ND, Chitkara DK, Locke GR, Meek PD, Talley NJ. Ambulatory Care for Constipation in the United States, 1993-2004. *Am J Gastroenterol*. 2008 Jun 12. [Epub ahead of print]

Ma J, Stafford RS. Screening, treatment, and control of hypertension in US private physician offices, 2003-2004. *Hypertension*. 2008 May;51(5):1275-81. Epub 2008 Mar 17.

Krishnan E, Lienesch D, Kwok CK. Gout in ambulatory care settings in the United States. *J Rheumatol*. 2008 Mar;35(3):498-501. Epub 2008 Feb 1.

Richardson LC, Tangka FK. Ambulatory care for cancer in the United States: results from two national surveys comparing visits to physicians' offices and hospital outpatient departments. *J Natl Med Assoc*. 2007 Dec;99(12):1350-8.

Fang J, Alderman MH, Keenan NL, Ayala C, Croft JB. Hypertension Control at Physicians' Offices in the United States. *Am J Hypertens*. 2008 Jan 10; [Epub ahead of print]

Moorman JE, Rudd RA, Johnson CA, King M, Minor P, Bailey C, Scalia MR, Akinbami LJ; Centers for Disease Control and Prevention (CDC). National surveillance for asthma--United States, 1980-2004. *MMWR Surveill Summ*. 2007 Oct 19;56(8):1-54.

Rasu RS, Manley HJ, Crawford T, Balkrishnan R. Undertreatment of anemia in patients with chronic kidney disease in the United States: analysis of national outpatient survey data. *Clin Ther*. 2007 Jul;29(7):1524-34.

Pearson WS. Ten-year comparison of estimates of overweight and obesity, diagnosed diabetes and use of office-based physician services for treatment of diabetes in the United States. *Prev Med*. 2007 Jul 24; [Epub ahead of print]

Banta JE, Montgomery S. Substance abuse and dependence treatment in outpatient physician offices, 1997-2004. *Am J Drug Alcohol Abuse*. 2007;33(4):583-93.

Mansbach JM, Pelletier AJ, Camargo CA Jr. US Outpatient Office Visits for Bronchiolitis, 1993-2004. *Ambul Pediatr*. 2007 Jul;7(4):304-307.

Avasarala J, Odonovan CA, Roach S, Camacho F, Feldman S. Analysis of NAMCS data for Multiple Sclerosis, 1998-2004. *BMC Med*. 2007 Apr 5;5(1):6 [Epub ahead of print]

Sharp HJ, Denman D, Puumala S, Leopold DA. Treatment of acute and chronic rhinosinusitis in the United States, 1999-2002. *Arch Otolaryngol Head Neck Surg*. 2007 Mar;133(3):260-5.

de Berker D, McGregor JM, Hughes BR; on behalf of the British Association of Dermatologists Therapy Guidelines and Audit Subcommittee. Guidelines for the management of actinic keratoses. *Br J Dermatol*. 2007 Feb;156(2):222-30.

Taur Y, Smith MA. Adherence to the Infectious Diseases Society of America guidelines in the treatment of uncomplicated urinary tract infection. *Clin Infect Dis*. 2007 Mar 15;44(6):769-74. Epub 2007 Feb 1.

Martin BC, Barghout V, Cerulli A. Direct medical costs of constipation in the United States. *Manag Care Interface*. 2006 Dec;19(12):43-9.

Riddle DL, Schappert SM. Volume and characteristics of inpatient and ambulatory medical care for neck pain in the United States: data from three national surveys. *Spine*. 2007 Jan 1;32(1):132-40; discussion 141.

Bivens MM, Bhosle M, Balkrishnan R, Camacho FT, Feldman SR, Fleischer AB Jr. Nonmelanoma skin cancer: is the incidence really increasing among patients younger than 40? A reexamination using 25 years of U.S. outpatient data. *Dermatol Surg*. 2006 Dec;32(12):1473-9.

Deyo RA, Mirza SK, Martin BI. Back pain prevalence and visit rates: estimates from U.S. national surveys, 2002. *Spine*. 2006 Nov 1;31(23):2724-7.

Fareed M, Suri K, Zhou J, et al. Circadian variation in sudden cardiac death: Data from the National Hospital Ambulatory Medical Care Survey. *CIRCULATION* 114 (18): 831-831 Suppl. S OCT 31 2006

McCaig LF, McDonald LC, Mandal S, Jernigan DB. *Staphylococcus aureus*-associated skin and soft tissue infections in ambulatory care. *Emerg Infect Dis*. 2006 Nov. <http://www.cdc.gov/ncidod/EID/vol12no11/06-0190.htm>

Morlock RJ, Tan M, Mitchell DY. Patient characteristics and patterns of drug use for sleep complaints in the United States: analysis of National Ambulatory Medical Survey data, 1997-2002. *Clin Ther*. 2006 Jul;28(7):1044-53.

Harman JS, Veazie PJ, Lyness JM. Primary care physician office visits for depression by older Americans. *J Gen Intern Med*. 2006 Sep;21(9):926-30.

Warino L, Tusa M, Camacho F, Teuschler H, Fleischer AB Jr, Feldman SR. Frequency and cost of actinic keratosis treatment. *Dermatol Surg*. 2006 Aug;32(8):1045-9.

Pearce DJ, Stealey KH, Balkrishnan R, et al. Psoriasis treatment in the United States at the end of the 20th century. *INT J DERMATOL* 45 (4): 370-374 Apr 2006.

Kim SH, Boye M, Bhattacharyya SK, Coyne K, Dhawan R. Medical visits among adults with symptoms commonly associated with an overactive bladder. *BJU Int*. 2006 Mar;97(3):551-4.

McGwin G Jr, Hall TA, Xie A, Owsley C. Trends in eye injury in the United States, 1992-2001. *Invest Ophthalmol Vis Sci*. 2006 Feb;47(2):521-7.

Gupta MA, Gupta AK, Chen SJ, Johnson AM. Comorbidity of rosacea and depression: an analysis of the National Ambulatory Medical Care Survey and National Hospital Ambulatory Care Survey--Outpatient Department data collected by the U.S. National Center for Health Statistics from 1995 to 2002. *Br J Dermatol*. 2005 Dec;153(6):1176-81.

Betz ME, Li G. Epidemiologic patterns of injuries treated in ambulatory care settings. *Ann Emerg Med*. 2005 Dec;46(6):544-51. Epub 2005 Sep 26.

Sutton MY, Sternberg M, Zaidi A, St Louis ME, Markowitz LE. Trends in pelvic inflammatory disease hospital discharges and ambulatory visits, United States, 1985-2001. *Sex Transm Dis*. 2005 Dec;32(12):778-84.

Coco A, Kleinhans E. Prevalence of primary HIV infection in symptomatic ambulatory patients. *Ann Fam Med*. 2005 Sep-Oct;3(5):400-4.

Niemcryk SJ, Joshua-Gotlib S, Levine DS. Outpatient Experience of Patients with GERD in the United States: Analysis of the 1998-2001 National Ambulatory Medical Care Survey. *Dig Dis Sci*. 2005 Oct;50(10):1904-8.

McGwin G Jr. Rate of eye injury in the United States. *Arch Ophthalmol*. 2005 Jul;123(7):970-6.

- Tan LSM, Morlock R. Sleep complaints and diagnoses in the National Ambulatory Medical Care Survey: 1997-2002. *Value Health* 8 (3): 324-324 May-Jun 2005
- Gupta A. Epidemiology of seborrheic dermatitis as observed from the National Ambulatory Medical Care Survey 1990-1999. *J Am Acad Dermatol* 52 (3): P103-P103 Suppl. S Mar 2005
- Gupta A. Epidemiology and treatment of onychomycosis based on the National Ambulatory Medical Care Survey, 1990-1999. *J Am Acad Dermatol* 52 (3): P125-P125 Suppl. S Mar 2005
- Gupta A. Epidemiology of dermatophytosis and pityriasis versicolor in the United States, on the National Ambulatory Medical Care Survey, 1990-1999. *J Am Acad Dermatol* 52 (3): P125-P125 Suppl. S Mar 2005
- Gupta A. Epidemiology of tinea capitis as observed from the National Ambulatory Medical Care Survey (NAMCS), 1990-1999. *J Am Acad Dermatol* 52 (3): P126-P126 Suppl. S Mar 2005
- Gupta A. Epidemiology of psoriasis as observed from the National Ambulatory Medical Care Survey, 1990-1999. *J Am Acad Dermatol* 52 (3): P184-P184 Suppl. S Mar 2005
- Wofford JL, Mansfield RJ, Watkins RS. Patient characteristics and clinical management of patients with shoulder pain in U.S. primary care settings: Secondary data analysis of the National Ambulatory Medical Care Survey. *BMC Musculoskelet Disord*. 2005 Feb 3;6(1):4 [Epub ahead of print]
- Stern RS. Utilization of hospital and outpatient care for adverse cutaneous reactions to medications. *Pharmacoepidemiol Drug Saf*. 2005 Jan 11; [Epub ahead of print]
- Runyan CW, Perkis D, Marshall SW, Johnson RM, Coyne-Beasley T, Waller AE, Black C, Baccaglini L. Unintentional injuries in the home in the United States Part II: Morbidity. *Am J Prev Med*. 2005 Jan;28(1):80-87.
- Molino AC, Fleischer AB Jr, Feldman SR. Patient demographics and utilization of health care services for molluscum contagiosum. *Pediatr Dermatol*. 2004 Nov-Dec;21(6):628-32.
- Mellen L, Vallee J, Feldman S, Fleischer A. Treatment of pityriasis versicolor in the United States. *J Dermatolog Treat*. 2004;15(3):189-192.
- Stevens J, Harman JS, Kelleher KJ. Ethnic and Regional Differences in Primary Care Visits for Attention-Deficit Hyperactivity Disorder. *J Dev Behav Pediatr*. 2004 Oct;25(5):318-325.
- Grant RW, Pirraglia PA, Meigs JB, Singer DE. Trends in complexity of diabetes care in the United States from 1991 to 2000. *Arch Intern Med*. 2004 May 24;164(10):1134-9.
- Riddle DL, Schappert SM. Volume of Ambulatory Care Visits and Patterns of Care for Patients Diagnosed With Plantar Fasciitis: A National Study of Medical Doctors. *Foot and Ankle Int'l* 2004;25(5):303-310.
- Niemcryk SJ, Joshua-Gotlib S, Levine D. The outpatient experience of GERD patients in US: An analysis of the 1998-2000 National Ambulatory Medical Care Survey. *Gastroenterology* 126 (4): A173-A173 Suppl. 2 Apr 2004.
- Feldman SR, Camacho F, Williford PM, Siegel DM, Balkrishnan R, Fleischer AB. Patients spend more time with the physician for excision of a malignant skin lesion than for excision of a benign skin lesion. *Dermatol Surg*. 2004 Mar;30(3):351-4.
- Robison LM, Sclar DA, Skaer TL, Galin RS. Treatment modalities among US children diagnosed with attention-deficit hyperactivity disorder: 1995-99. *Int Clin Psychopharmacol*. 2004 Jan;19(1):17-22.

- Hancox JG, Sheridan SC, Feldman SR, Fleischer AB. Seasonal variation of dermatologic disease in the USA: a study of office visits from 1990 to 1998. *Int J Dermatol*. 2004 Jan;43(1):6-11.
- Leader S, Kohlhase K. Recent trends in severe respiratory syncytial virus (RSV) among US infants, 1997 to 2000. *J Pediatr*. 2003 Nov;143(5 Suppl):S127-32.
- Housman TS, Williford PM, Feldman SR, Teuschler HV, Fleischer AB, Goldman ND, Balkrishnan R, Chen G. Nonmelanoma Skin Cancer: An Episode of Care Management Approach. *Dermatol Surg*. 2003 Jul;29(7):700-711
- Gibbs TS, Fleischer AB, Feldman SR, Sam MC, O'Donovan CA. Health care utilization in patients with migraine: demographics and patterns of care in the ambulatory setting. *Headache* 2003 Apr;43(4):330-5.
- Foxman B. Epidemiology of urinary tract infections: Incidence, morbidity, and economic costs. *Dis Mon* 2003 Feb;49(2):53-70.
- Dembe AE, Savageau JA, Amick BC 3rd, Banks SM. Office-based medical care for work-related conditions: findings from the National Ambulatory Medical Care Survey, 1997-1998. *J Occup Environ Med* 2002 Dec;44(12):1106-17
- Hootman JM, Helmick, CG. Schappert SM. Magnitude and characteristics of arthritis and other rheumatic conditions on ambulatory medical care visits, United States, 1997. *Arthritis Care and Research* 2002 Dec, 47(6): 571-581
- Lee E, Zuckerman IH, Weiss SR. Patterns of pharmacotherapy and counseling for osteoporosis management in visits to US ambulatory care physicians by women. *Arch Intern Med* 2002 Nov 11;162(20):2362-6
- Gupta AK, Cooper EA, Feldman SR, Fleischer AB Jr. A survey of office visits for actinic keratosis as reported by NAMCS, 1990-1999. National Ambulatory Medical Care Survey. *Cutis* 2002 Aug;70(2 Suppl):8-13
- Mannino DM, Homa DM, Akinbami LJ, Ford ES, Redd SC. Chronic obstructive pulmonary disease surveillance-United States, 1971-2000. *Respir Care* 2002 Oct;47(10):1184-99
- Kozma CM, Barghout V, Slaton T, Frech F, Reeder CE. A comparison of office-based physician visits for irritable bowel syndrome and for migraine and asthma. *Manag Care Interface* 2002 Sep;15(9):40-3, 49
- Mannino DM, Homa DM, Akinbami LJ, Ford ES, Redd SC. Chronic obstructive pulmonary disease surveillance-United States, 1971-2000. *MMWR Surveill Summ* 2002 Aug 2;51(6):1-16
- Shih YCT, Barghout VE, Sandler RS, Jhingran P, Sasane M, Cook S, Gibbons DC, Halpern M. Resource utilization associated with irritable bowel syndrome in the United States - 1987-1997. *Digestive Diseases and Sciences* 47 (8): 1705-1715 Aug 2002
- Akinbami LJ, Schoendorf KC. Trends in childhood asthma: prevalence, health care utilization, and mortality. *Pediatrics* 2002 Aug;110(2 Pt 1):315-22
- Namen AM, Dunagan DP, Fleischer A, Tillett J et al. Increased Physician-Reported Sleep Apnea\*: The National Ambulatory Medical Care Survey. *CHEST* June 2002;121(6):1741-1747. doi:10.1378/chest.121.6.1741
- Hollowell J, Lundgren A, Johansson S. Irritable bowel syndrome - Patterns of ambulatory health care and resource use in the United States, 1993-1997. *Digestive Diseases and Sciences* 47 (5): 1115-1121 May 2002

Namen AM, Dunagan DP, Fleischer A, Tillett J, Barnett M, McCall WV, Haponik EF. Increased physician-reported sleep apnea: The National Ambulatory Medical Care Survey. *Chest* 2002 Jun;121(6):1741-7

Hambidge SJ, Davidson AJ, Gonzales R, Steiner JF. Epidemiology of pediatric injury-related primary care office visits in the United States. *Pediatrics* 109 (4): 559-565 Apr 2002

Smith ES, Fleischer AB, Feldman SR, Williford PM. Characteristics of office-based physician visits for cutaneous fungal infections. an analysis of 1990 to 1994 National Ambulatory Medical Care Survey Data. *Cutis* 2002 Mar; 69(3):191-8, 201-2.

Harman JS, Rollman BL, Hanusa BH, Lenze EJ, Shear MK Physician office visits of adults for anxiety disorders in the United States, 1985-1998 *J General Internal Medicine* 17 (3): 165-172 Mar 2002.

Huang ES, Stafford RS. National patterns in the treatment of urinary tract infections in women by ambulatory care physicians. *Arch Intern Med* 2002 Jan 14;162(1):41-7

Harman JS, Schulberg HC, Mulsant BH, Reynolds CF 3rd. The effect of patient and visit characteristics on diagnosis of depression in primary care. *J Fam Pract* 2001 Dec;50(12):1068

Skaer TL, Sclar DA, Robison LM. Complaints of insomnia in the USA 1995-1998: prevalence, psychiatric comorbidity and pharmacologic treatment patterns. *Primary Care Psychiatry* 7:(4) 145-151 Dec 2001

Robison LM, Skaer TL, Sclar DA, Galin RS. Is attention deficit hyperactivity disorder increasing among girls in the US?: Trends in diagnosis and the prescribing of stimulants. *CNS Drugs* 2002;16(2):129-137

Chen JG, Fleischer AB, Smith ED, Kancler C, Goldman ND, Williford PM, Feldman SR. Cost of nonmelanoma skin cancer treatment in the United States. *Dermatologic Surgery* 27: (12) 1035-1038 Dec 2001

Fleischer AB Jr., Parrish CA, Glenn R, Feldman SR. Condylomata acuminata (genital warts): patient demographics and treating physicians. *Sex Transm Dis* 2001 Nov;28(11):643-647

Nicholson W, Ellison SA, Grason H, Powe NR. Patterns of ambulatory care use for gynecologic conditions: a national study. *Am J Obstet Gynecol* 2001; 184:523-30.

Skaer TL, Sclar DA, Robison LM, Galin RS. Trends in the rate of self-report and diagnosis of erectile dysfunction in the United States 1990-1998 - Was the introduction of sildenafil an influencing factor? *Disease Management & Health Outcomes*. 9:(1) 33-41 2001.

Hootman J, Helmick C, Schappert S. Characteristics of chronic arthritis and other rheumatic condition-related ambulatory care visits, United States, 1997. *Ann Epidemiol* 2000 Oct 1;10(7):454.

Ward DB, Fleischer AB Jr, Feldman SR, Krowchuk DP . Characterization of diaper dermatitis in the United States. *Arch Pediatr Adolesc Med* 2000 Sep;154(9):943-6

Stafford RS, Farhat JH, Misra B, Schoenfeld DA. National patterns of physician activities related to obesity management. *Arch Fam Med* 2000 Jul;9(7):631-8.

Hotard RS, Feldman SR, Fleischer AB Jr. Sex-specific differences in the treatment of severe psoriasis. *J Am Acad Dermatol* 2000 Apr;42(4):620-3

Nicholson W, Ellison SA. Patterns of ambulatory care use for gynecologic conditions in the United States. *Obstet Gynecol* 2000 Apr 1;95(4 Suppl 1):S27

- Hoagwood K, Kelleher KJ, Feil M, Comer DM. Treatment services for children with ADHD: A national perspective. *Journal of the American Academy of Child and Adolescent Psychiatry* 2000 Feb;39(2).
- Ramsey SD. Suboptimal medical therapy in COPD: Exploring the causes and consequences. *Chest* 2000 Feb;117(2).
- Niederman MS, McCombs JS, Unger AN, Kumar A, Popovian R. Treatment cost of acute exacerbations of chronic bronchitis. *Clin Ther* 1999 Mar;21(3):576-91.
- Robison LM, Sclar DA, Skaer TL, Galin RS. National trends in the prevalence of attention-deficit/hyperactivity disorder and the prescribing of methylphenidate among school-age children: 1990-1995. *Clin Pediatr* 1999 Apr;38(4):209-17.
- Fleischer AB Jr, Feldman SR, Bullard CN. Patients can accurately identify when they have a dermatologic condition. *J Am Acad Dermatol* 1999; 41: 784-6.
- Armstrong GL, Pinner RW. Outpatient visits for infectious diseases in the United States, 1980 through 1996. *Arch Intern Med.* 1999; 159:2531-2536.
- Mead PS et al. Food-related illness and death in the United States. *Emerging Infectious Diseases* September-October 1999 5(5):607-625.
- Rovi S, Johnson MS. Physician use of diagnostic codes for child and adult abuse. *Am Med Womens Assoc* 1999 Fall;54(4):211-4.
- Collins MM, Stafford RS, O'Leary MP, Barry MJ. Distinguishing chronic prostatitis and benign prostatic hyperplasia symptoms: results of a national survey of physician visits. *Urology* 1999 May;53(5):921-5.
- Halpern MT, Palmer CS, Seidlin M. Treatment patterns for otitis externa. *J Am Board Fam Pract* 1999 Jan-Feb;12(1):1-7
- Feldman SR, Fleischer AB Jr, Williford PM, Jorizzo JL. Destructive procedures are the standard of care for treatment of actinic keratoses. *J Am Acad Dermatol* 1999 Jan;40(1):43-7.
- Smith ES et al. Characteristics of office-based visits for skin cancer. Dermatologists have more experience than other physicians in managing malignant and premalignant skin conditions. *Dermatol Surg* 1998 Sep;24(9):1222-6.
- Stern RS. Managed care and the treatment of skin disease, 1995. Continued growth and emerging dominance. *Arch Dermatol* 1998 Sep; 134(9): 1089-91.
- Glied S. Too little time? The recognition and treatment of mental health problems in primary care. *Health Serv Res* 1998 Oct;33(4 Pt 1):891-910.
- Walsh JK, Engelhardt CL. The direct economic costs of insomnia in the United States, 1995. *Sleep.* April 1998, Vol 21, Supplement, Abstracts of Original Investigations, 371.K3, p. 127.
- Mannino DM, Homa DM, Pertowski CA et al. Surveillance for asthma - United States, 1960-1995. In: *CDC Surveillance Summaries*, April 24, 1998. *MMWR* 1998; 47 (No. SS-1):1-28.
- Stafford RS, Blumenthal D, Pasternak RC. Cholesterol management practices in the United States. *Cardiology Review.* March 1998;15(3):29-36.
- Zarin DA, Tanielian TL, Suarez AP, Marcus SC. Treatment of attention-deficit hyperactivity disorder by different physician specialties. *Psychiatr Serv* February 1998; 49(2):171.

Collins MM, Stafford RS, O'Leary MP, Barry M. How common is prostatitis? A national survey of physician visits. *J Urol* 1998; 159:1224-1228.

Fleischer AB Jr., Feldman ST, White RE, Leshin B, Byington R. Procedures for skin diseases performed by physicians in 1993 and 1994: analysis of data from the National Ambulatory Medical Care Survey. *J Am Acad Dermatol* 1997 Nov;37(5 Pt 1):719-724.

Collins MM, Stafford RS, O'Leary MP. How common is prostatitis? A national survey of physician visits. *J Urol* Vol. 157, no. 4 (supplement), April 14, 1997, p. 243.

Gillum RF, Wilson JB. The burden of stroke and its sequelae. *Dis Manage Health Outcomes* 1997 Feb;1 (2):84-94.  
Stafford RS, Blumenthal D, Pasternak, R. Variations in cholesterol management practices of U.S. physicians. *J Am Coll Cardio* 1997; 29: 139-146.

Zoler ML. Antibiotics often given for nonbacterial prostatitis. *Internal Medicine News* November 15, 1996: 47.  
Stern RS. Acne therapy: medication use and sources of care in office-based practice. *Arch Dermatol* 1996 July; 132(7): 776-780.

Hart LG, Deyo RA, Cherkin DC. Physician office visits for low back pain: frequency, clinical evaluation, and treatment patterns from a U.S. national survey. *Spine* 1995;20:11-19.

Hahn DL, Beasley JW. Diagnosed and possible undiagnosed asthma: a Wisconsin Research Network (WRn study). Wisconsin Research Network (WRn) Asthma Prevalence Study Group. *J Fam Pract* 1994 April; 38(4) 373-9.

McCaig LF, Graitcer PL. Epidemiology of injury-related visits to office-based physicians in the United States, 1991. *Journal of Safety Research* Vol. 25, No. 2., pp 77-81. 1994.

Cowie CC, Haris MI, Eberhardt MS. Frequency and determinants of screening for diabetes in the United States. *Diabetes Care* 17: 1158-63. 1994.

Kunin CM. Urinary tract infections in females. *Clin Infect Dis* 1994; 18:1-12.

Sonnenberg A, Everhart JE. Socioeconomic determinants of digestive disease. *Gastroenterol Int* 1993. 6:100-14.

Radecki SE, Brunton SA. Management of insomnia in office-based practice. National prevalence and therapeutic patterns. *Arch Fam Med* 1993 Nov; 2(11): 1129-34.

Jackson LA, Perkins BA, Wenger JD. Cat scratch disease in the United States: an analysis of three national databases. *Am J Public Health* 1993; 83: 1707-1711.

MMWR (Morbidity and Mortality Weekly Report). Asthma--United States, 1980-1990. 1992 Oct 2; 41(39): 733-5.  
Murata JE, Patrick-Mace J, Strehlow A, Shuler P. Disease patterns in homeless children: a comparison with national data. *J Pediatr Nurs* 1992 June, 7(3): 196-204.

Shields T, Sloane PD. A comparison of eye problems in primary care and ophthalmology practice. *Fam Med* 1991 Sep-Oct; 23(7): 544-6.

Adelman AM, Koch H. New visits for abdominal pain in the primary care setting. *Fam Med* 1991 Feb; 23(2): 122-6.

Everhart JE, Renault PI. Irritable bowel syndrome in office-based practice in the United States. *Gastroenterology* 100: 998-1005. 1991.

Sanders RS. Epidemiology of irritable bowel syndrome in the United States. *Gastroenterology* 99(2) 409-15. August 1990.



Persky V, Davis F, Barrett R, Ruby E, Sailer C, Levy P. Recent time trends in uterine cancer. *Am J Public Health* 1990 Aug; 80(8): 935-9.

Feinleib M et al. Trends in COPD morbidity and mortality in the United States. *American Review of Respiratory Diseases* 140(3 pt. 2) S9-18. September 1989.

Sloane PD. Dizziness in primary care: results from the National Ambulatory Medical Care Survey. *J Fam Pract* 29(1) 33-8. July 1989.

Sonnenberg A, Koch TR. Epidemiology of constipation in the United States. *Dis Colon Rectum* 32(1) 1-8. January 1989.

Baum HM. Transient ischemic attacks, Parkinson's disease and epilepsy: results from the 1980 National Ambulatory Medical Care Survey. *Public Health* 100(6):368-74, Nov. 1986.

Stern, RS, Gardocki GJ. Office-based care of dermatologic disease. *J Am Acad Dermatol* 14:286-293, 1986.

Jencks SF. Recognition of mental distress and diagnosis of mental disorder in primary care. *JAMA* 253(13):1903-7, April 5, 1985.

Schurman RA, Kramer PD, Mitchell JB. The hidden mental health network: treatment of mental illness by nonpsychiatrist physicians. *Arch Gen Psychiatry* 1985; 42:89-94.

Cypress, BK. Characteristics of physician visits for back symptoms: a national perspective. *Am J Public Health* 1983; 73:389-395.

Robertson DL. Symptoms encountered during a three-year family practice residency. *J Fam Pract* 13(2):239-44, Aug. 1981.

Cutler JA and Mendeloff AI. Upper gastrointestinal bleeding. Nature and magnitude of the problem in the U.S. *Digestive Diseases and Sciences* 26(7 Suppl):90S-96S, Jul. 1981.

Geyman JP, Gordon MJ. Orthopedic problems in family practice: incidence, distribution, and curricular implications. *J Fam Pract* 8(4):759-65, Apr. 1979.

Stern RS, Johnson ML, DeLozier J. Utilization of physician services for dermatologic complaints: The United States, 1974. *Arch Dermatol* 113(8):1062-6. Aug. 1977.

#### **4c. REASON FOR VISIT, DIAGNOSIS - OTHER PUBLICATIONS USING NAMCS DATA**

Harris MI, Cowie CC, Reiber G, Boyker E., Stern M., Bennett P., editors. *Diabetes in America*, 2nd edition. Washington, D.C.: U.S. Government Printing Office. 1995.

Everhard JE, editor. *Digestive diseases in the United States: epidemiology and impact*. US Department of Health and Human Services, Public Health Service, National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases. Washington, DC: US Government Printing Office, 1994; NIH publication no. 94-1447. See pp. ix-xii, 1-53, 55-82, 469-507, 647-690, 691-712, 713-752.

Sonneberg A, Everhart JE, Brown DM. The economic cost of constipation. In Kamm MA, Lennard-Jones JE, eds: *Constipation*. Petersfield, Hampshire, UK: Wrightson Biomedical Publishing; 1994. pp. 19-29.

Harris M. The public health impact of diabetes. In *Advances in Diabetes Epidemiology*, E. Eschwege, editor. Elsevier, New York, 1982.

Harris M, Hamman R. (editors). Diabetes in America. NIH Pub. No. 85-1468, Washington D.C.: U.S. Government Printing Office, 1985.

### **5a. DIAGNOSTIC, SCREENING, and PREVENTIVE SERVICES, NONMEDICATION THERAPY - NCHS REPORTS**

State Variation in Preventive Care Visits, by Patient Characteristics, 2012 [Data Brief, No. 234]  
Liquid-based cytology test use by office-based physicians: United States, 2006–2007 [NHRSR, No. 40]  
Physiotherapy Visits: 1980-81 [ADR No. 120]  
Office Visits Involving X-Rays: 1977 [ADR No. 53]

### **5b. DIAGNOSTIC, SCREENING, and PREVENTIVE SERVICES, NONMEDICATION THERAPY - JOURNAL ARTICLES USING NAMCS DATA**

Chatterton B, Agnoli A, Schwarz EB, Fenton JJ. Alcohol Screening During US Primary Care Visits, 2014-2016. *J Gen Intern Med.* 2022 Jan 19. doi: 10.1007/s11606-021-07369-1. Online ahead of print. PMID: 35048299

Talbot JA, Ziller EC, Milkowski CM. Use of electronic health records to manage tobacco screening and treatment in rural primary care. *J Rural Health.* 2021 Sep 1. doi: 10.1111/jrh.12613. Online ahead of print. PMID: 34468036

Gerend MA, Bradbury R, Harman JS, Rust G. Characteristics Associated with Low-Value Cancer Screening Among Office-Based Physician Visits by Older Adults in the USA. *J Gen Intern Med.* 2021 Aug 11. doi: 10.1007/s11606-021-07072-1. Online ahead of print. PMID: 34379279

Green PP, Cummings NA, Ward BW, McKnight-Eily LR. Alcohol Screening and Brief Intervention: Office-Based Primary Care Physicians, U.S., 2015-2016. *Am J Prev Med.* 2021 Nov 10:S0749-3797(21)00444-X. doi: 10.1016/j.amepre.2021.07.013. Online ahead of print.

Zeidan AR, Strey K, Vargas MN, Reveles KR. Sexually transmitted infection laboratory testing and education trends in US outpatient physician offices, 2009-2016. *Fam Med Community Health.* 2021 Jun;9(3):e000914. doi: 10.1136/fmch-2021-000914. PMID: 34144971

Vash-Margita A, Kobernik EK, Flagler E, Quint EH, Dalton VK. National Trends in Cervical Cancer Screening in Adolescents. *J Pediatr Adolesc Gynecol.* 2021 Feb 15:S1083-3188(21)00121-2. doi: 10.1016/j.jpag.2021.02.097. Online ahead of print. PMID: 33601068

Bernstein AP, Bjurlin MA, Sherman SE, Makarov DV, Rogers E, Matulewicz RS. Bernstein AP, et al. [Tobacco Screening and Treatment during Outpatient Urologic Office Visits in the United States.](#) *J Urol.* 2021 Feb 2;101097JU0000000000001572. doi: 10.1097/JU.0000000000001572. Online ahead of print. *J Urol.* 2021. PMID: 33525926

Dang R, Schroeder AR, Patel AI, Parsonnet J, Wang M. Dang R, et al. [Temperature Measurement at Well-Child Visits in the United States.](#) *J Pediatr.* 2021 Jan 25:S0022-3476(21)00079-2. doi: 10.1016/j.jpeds.2021.01.045. Online ahead of print. *J Pediatr.* 2021. PMID: 33508277

Gandrakota N, Patel VB, Moore M, Benameur K, Shah MK. Trends in Diet Counseling Among Stroke Versus Non-Stroke Patients: Evidence from the NAMCS, 2011-2016. *J Stroke Cerebrovasc Dis.* 2021 Nov 26;31(2):106223. doi: 10.1016/j.jstrokecerebrovasdis.2021.106223. Online ahead of print. PMID: 34844125

Brown TT, Ahn C, Huang H, Ibrahim Z. Reducing the prevalence of low-back pain by reducing the prevalence of psychological distress: Evidence from a natural experiment and implications for health care providers. *Health Serv Res.* 2020 Oct;55(5):631-641. doi: 10.1111/1475-6773.13557. PMID: 33185925

Bowers LC, Gribble PA, Hoch MC, Villasante Tezanos AG, Kosik KB. Physical therapy referral and medication for ankle sprain visits to physician offices: an analysis of the national ambulatory medical care survey. *Phys Sportsmed.* 2020 Aug 6:1-6. doi: 10.1080/00913847.2020.1800369. Online ahead of print.

Hoover KW, Huang YA, Tanner ML, Zhu W, Gathua NW, Pitasi MA, DiNenno EA, Nair S, Delaney KP. HIV Testing Trends at Visits to Physician Offices, Community Health Centers, and Emergency Departments - United States, 2009-2017. *MMWR Morb Mortal Wkly Rep.* 2020 Jun 26;69(25):776-780. doi: 10.15585/mmwr.mm6925a2. PMID: 32584800

Doolin J, Reese ZA, Mukamal KJ. National trends in the use of PSA, urinalysis, and digital rectal exam for evaluation of lower urinary tract symptoms in men. *World J Urol.* 2020 May 24. doi: 10.1007/s00345-020-03261-5. [Epub ahead of print]

Dunlap PM, Khoja SK, Whitney SL, Freburger JK. Predictors of Physical Therapy Referral among Persons with Peripheral Vestibular Disorders in the United States. *Arch Phys Med Rehabil.* 2020 May 20. pii: S0003-9993(20)30284-7. doi: 10.1016/j.apmr.2020.04.016. [Epub ahead of print]

Evoy KE, Leonard CE, Covvey JR, Ochs L, Peckham AM, Soprano S, Reveles KR. Receipt of Substance Use Counseling Among Ambulatory Patients Prescribed Opioids in the United States. *Subst Abuse.* 2020 May 22;14:1178221819894588. doi: 10.1177/1178221819894588. eCollection 2020.

Singh P, Silverberg JI. Screening for cardiovascular comorbidity in United States outpatients with psoriasis, hidradenitis, and atopic dermatitis. *Arch Dermatol Res.* 2020 May 11. doi: 10.1007/s00403-020-02087-w. [Epub ahead of print]

Olatosi B, Siddiqi KA, Conserve DF. Towards ending the human immunodeficiency virus epidemic in the US: State of human immunodeficiency virus screening during physician and emergency department visits, 2009 to 2014. *Medicine (Baltimore).* 2020 Jan;99(2):e18525. doi: 10.1097/MD.00000000000018525.

Stussman BJ, Nahin RR, Barnes PM, Ward BW. U.S. Physician Recommendations to Their Patients About the Use of Complementary Health Approaches. *J Altern Complement Med.* 2019 Nov 25. doi: 10.1089/acm.2019.0303. [Epub ahead of print]

Rogers ES, Wysota CN. Tobacco Screening and Treatment of Patients With a Psychiatric Diagnosis, 2012-2015. *Am J Prev Med.* 2019 Nov;57(5):687-694. doi: 10.1016/j.amepre.2019.06.009. Epub 2019 Sep 27.

Khoja SS, Almeida GJ, Freburger JK. Recommendation Rates for Physical Therapy, Lifestyle Counseling and Pain Medications for Managing Knee Osteoarthritis in Ambulatory Care Settings. Cross-sectional Analysis of the National Ambulatory Care Survey (2007-2015). *Arthritis Care Res (Hoboken).* 2019 Oct 8. doi: 10.1002/acr.24064. [Epub ahead of print]

Liao GJ, Hippe DS, Chen LE, Lee JM, Liao JM, Ramsey SD, Lee CI. Physician Ordering of Screening Ultrasound: National Rates and Association With State-Level Breast Density Reporting Laws. *J Am Coll Radiol.* 2019 Jul 18. pii: S1546-1440(19)30822-1. doi: 10.1016/j.jacr.2019.07.002. [Epub ahead of print]

Samples H, Stuart EA, Saloner B, Barry CL, Mojtabai R. The Role of Screening in Depression Diagnosis and Treatment in a Representative Sample of US Primary Care Visits. *J Gen Intern Med.* 2019 Aug 6. doi: 10.1007/s11606-019-05192-3. [Epub ahead of print]

- Keller AO, Ortiz A. Physical Activity Health Communication for Adults With Mood Disorders in the United States. *West J Nurs Res.* 2019 May 21;193945919848772. doi: 10.1177/0193945919848772. [Epub ahead of print]
- Hilleary RS, Jabusch SM, Zheng B, Jiroutek MR, Carter CA. Gender disparities in patient education provided during patient visits with a diagnosis of coronary heart disease. *Womens Health (Lond).* 2019 Jan-Dec;15:1745506519845591. doi: 10.1177/1745506519845591.
- Komaravolu SS, Kim JJ, Singh S, Merchant AM. Colonoscopy utilization in rural areas by general surgeons: An analysis of the National Ambulatory Medical Care Survey. *Am J Surg.* 2019 Feb 13. pii: S0002-9610(18)31080-8. doi: 10.1016/j.amjsurg.2019.02.009. [Epub ahead of print]
- Wu J, Ward E, Lu ZK. Addressing Lifestyle Management During Visits Involving Patients with Prediabetes: NAMCS 2013-2015. *J Gen Intern Med.* 2018 Nov 12. doi: 10.1007/s11606-018-4724-z. [Epub ahead of print]
- Rhee TG, Capistrant BD, Schommer JC, Hadsall RS, Uden DL. Effects of the 2009 USPSTF Depression Screening Recommendation on Diagnosing and Treating Mental Health Conditions in Older Adults: A Difference-in-Differences Analysis. *J Manag Care Spec Pharm.* 2018 Aug;24(8):769-776. doi: 10.18553/jmcp.2018.24.8.769.
- Bhattacharjee S, Goldstone L, Vadieli N, Lee JK, Burke WJ. Depression Screening Patterns, Predictors, and Trends Among Adults Without a Depression Diagnosis in Ambulatory Settings in the United States. *Psychiatr Serv.* 2018 Jul 9;appips201700439. doi: 10.1176/appi.ps.201700439. [Epub ahead of print]
- Patel CG, Trivedi S, Tao G. The proportion of young women tested for chlamydia who had urogenital symptoms in physician offices. *Sex Transm Dis.* 2018 Apr 17. doi: 10.1097/OLQ.0000000000000858. [Epub ahead of print]
- Callaghan DJ 3rd. Use of Google Trends to Examine Interest in Mohs Micrographic Surgery: 2004 to 2016. *Dermatol Surg.* 2017 Sep 19. doi: 10.1097/DSS.0000000000001270. [Epub ahead of print]
- Aubin F, Courtois J, Puzenat E, Nardin C, Castelain F, Pelletier F, Gastaldi-Ménager C; behalf of Société Française de Photodermatologie. Phototherapy in France: quantitative data (2007-2016) from the National Health Insurance register. *J Eur Acad Dermatol Venereol.* 2017 Dec 10. doi: 10.1111/jdv.14746. [Epub ahead of print]
- Ham DC, Lecher S, Gvetadze R, Huang YA, Peters P, Hoover KW. HIV Testing at Visits to Physicians' Offices in the U.S., 2009-2012. *Am J Prev Med.* 2017 Nov;53(5):634-645. doi: 10.1016/j.amepre.2017.08.006.
- Bae J, Ford EW, Kharrazi H, Huerta TR. Electronic medical record reminders and smoking cessation activities in primary care. *Addict Behav.* 2017 Oct 16;77:203-209. doi: 10.1016/j.addbeh.2017.10.009. [Epub ahead of print]
- Jackowski RM, Pogge EK, Early NK, Fairman KA, Sclar DA. Provision of Lifestyle Counseling and the Prescribing of Pharmacotherapy for Hyperlipidemia Among US Ambulatory Patients: A National Assessment of Office-Based Physician Visits. *Am J Cardiovasc Drugs.* 2017 Aug 28. doi: 10.1007/s40256-017-0247-y. [Epub ahead of print]
- Berger JS, Ladapo JA. Underuse of Prevention and Lifestyle Counseling in Patients With Peripheral Artery Disease. *J Am Coll Cardiol.* 2017 May 9;69(18):2293-2300. doi: 10.1016/j.jacc.2017.02.064.
- Rhee TG, Capistrant BD, Schommer JC, Hadsall RS, Uden DL. Effects of depression screening on diagnosing and treating mood disorders among older adults in office-based primary care outpatient settings: An instrumental variable analysis. *Prev Med.* 2017 Apr 14. pii: S0091-7435(17)30135-4. doi: 10.1016/j.ypmed.2017.04.015. [Epub ahead of print]
- Carter G, Owens C, Lin HC. HIV Screening and the Affordable Care Act. *Am J Mens Health.* 2017 Mar;11(2):233-239. doi: 10.1177/1557988316675251.

- Hakim I, Hathi S, Nair A, Narula T, Bhattacharya J. Electronic health records and the frequency of diagnostic test orders. *Am J Manag Care*. 2017 Jan 1;23(1):e16-e23.
- Li S, Dors A, Deyo D, Hughes DR. The Impact of State Tort Reforms on Imaging Utilization. *J Am Coll Radiol*. 2016 Dec 20. pii: S1546-1440(16)31031-6. doi: 10.1016/j.jacr.2016.10.002. [Epub ahead of print]
- Prasad SM, Alexander GC, Eggener SE. Prostate-specific antigen testing among primary care physicians and urologists: Patterns of care and impact of professional society guidelines. *J Clin Oncol*. 2012 Feb 10;30(5\_suppl):40.
- Scheel JR, Hippe DS, Chen LE, Lam DL, Lee JM, Elmore JG, Rahbar H, Partridge SC, Lee CI. Are Physicians Influenced by Their Own Specialty Society's Guidelines Regarding Mammography Screening? An Analysis of Nationally Representative Data. *AJR Am J Roentgenol*. 2016 Nov;207(5):959-964.
- Rajan SS, Suryavanshi MS, Karanth S, Lairson DR. The Immediate Impact of the 2009 USPSTF Screening Guideline Change on Physician Recommendation of a Screening Mammogram: Findings from a National Ambulatory and Medical Care Survey-Based Study. *Popul Health Manag*. 2016 Aug 26. [Epub ahead of print]
- Cawkwell PB, Lee L, Shearston J, Sherman SE, Weitzman M. The Difference a Decade Makes: Smoking Cessation Counseling and Screening at Pediatric Visits. *Nicotine Tob Res*. 2016 Jul 11. pii: ntw146. [Epub ahead of print]
- David SA, Patil D, Alemozaffar M, Issa MM, Master VA, Filson CP. Urologist Use of Cystoscopy for Patients Presenting With Hematuria in the United States. *Urology*. 2016 Sep 16. pii: S0090-4295(16)30624-0. doi: 10.1016/j.urology.2016.09.018. [Epub ahead of print]
- Ham DC, Huang YL, Gvetadze R, Peters PJ, Hoover KW. Health Care Use and HIV Testing of Males Aged 15-39 Years in Physicians' Offices - United States, 2009-2012. *MMWR Morb Mortal Wkly Rep*. 2016 Jun 24;65(24):619-22. doi: 10.15585/mmwr.mm6524a3.
- Shoag J, Halpern JA, Lee DJ, Mittal S, Ballman KV, Barbieri CE, Hu JC. Decline in prostate cancer screening by primary care physicians: an analysis of trends in the use of digital rectal examination and prostate specific antigen testing. *J Urol*. 2016 Apr 5. pii: S0022-5347(16)30126-4. doi: 10.1016/j.juro.2016.03.171. [Epub ahead of print]
- Venkataramani M, Cheng TL, Solomon BS, Pollack CE. How often are parents counseled about family planning during pediatric visits? Results of a nationally representative sample. *Acad Pediatr*. 2016 Mar 9. pii: S1876-2859(16)30043-2. doi: 10.1016/j.acap.2016.03.001. [Epub ahead of print]
- Hu ZI, Smith DM. Cancer Screening Rates in a Student-Run Free Clinic. *Ochsner J*. 2016 Spring;16(1):37-40.
- Berkowitz Z, Nair N, Saraiya M. Providers' practice, recommendations and beliefs about HPV vaccination and their adherence to guidelines about the use of HPV testing, 2007 to 2010. *Prev Med*. 2016 Feb 26;87:128-131. doi: 10.1016/j.ypmed.2016.02.030. [Epub ahead of print]
- Farhangian ME, Snyder A, Huang KE, Doerfler L, Huang WW, Feldman SR. Cutaneous cryosurgery in the United States. *J Dermatolog Treat*. 2015 Jul 24:1-4. [Epub ahead of print]
- Sigmund AE, Stevens ER, Blitz JD, Ladapo JA. Use of Preoperative Testing and Physicians' Response to Professional Society Guidance. *JAMA Intern Med*. 2015 Jun 8. doi: 10.1001/jamainternmed.2015.2081. [Epub ahead of print]
- Hammig B, Jozkowski K. Health Education Counseling During Pediatric Well-Child Visits in Physicians' Office Settings. *Clin Pediatr (Phila)*. 2015 Apr 29. pii: 0009922815584943. [Epub ahead of print]

Shi L, Lebrun-Harris LA, Chen LR, Parasuraman SR, Zhu J, Ngo-Metzger Q, Sripipatana A. Preventive Counseling Services during Primary Care Visits: A Comparison of Health Centers versus Other Physician Offices. *J Health Care Poor Underserved*. 2015;26(2):519-35. doi: 10.1353/hpu.2015.0028.

Reeder VJ, Gustafson CJ, Mireku K, Davis SA, Feldman SR, Pearce DJ. [Trends in Mohs Surgery From 1995 to 2010: An Analysis of Nationally Representative Data](#). *Dermatol Surg*. 2015 Mar;41(3):397-403. doi: 10.1097/DSS.0000000000000285.

Hammig B, Jozkowski K. Prevention counseling among pediatric patients presenting with unintentional injuries to physicians' offices' in the United States. *Prev Med*. 2015 Feb 7;74C:9-13. doi: 10.1016/j.ypmed.2015.02.001. [Epub ahead of print]

Reddy SM, Ramachandran A, Cabral H, Kazis L. Provision of family planning to women with cardiovascular risk factors. *J Am Board Fam Med*. 2015 Jan-Feb;28(1):105-14. doi: 10.3122/jabfm.2015.01.140016.

Ladapo JA, Blecker S, Douglas PS. Physician Decision Making and Trends in the Use of Cardiac Stress Testing in the United States: An Analysis of Repeated Cross-sectional Data. *Ann Intern Med*. 2014 Oct 7;161(7):482-90. doi: 10.7326/M14-0296.

Jamal A, Dube SR, Babb SD, Malarcher AM. Tobacco use screening and cessation assistance during physician office visits among persons aged 11--21 years --- national ambulatory medical care survey, United States, 2004--2010. *MMWR Surveill Summ*. 2014 Sep 12;63:71-9.

George MG, Tong X, Wigington C, Gillespie C, Hong Y. Hypertension screening in children and adolescents --- national ambulatory medical care survey, national hospital ambulatory medical care survey, and medical expenditure panel survey, United States, 2007--2010. *MMWR Surveill Summ*. 2014 Sep 12;63:47-53.

Vinci SR, Rifas-Shiman SL, Cheng JK, Mannix RC, Gillman MW, de Ferranti SD. Cholesterol testing among children and adolescents during health visits. *JAMA*. 2014 May 7;311(17):1804-7. doi: 10.1001/jama.2014.2410.

Federman DG; Kirsner RS; Concato J. Sunscreen Counseling by US Physicians. *JAMA*. 2014; 312(1):87-88. doi: 10.1001/jama.2014.4320.

Ritsema TS, Bingenheimer JB, Scholting P, Cawley JF. Differences in the delivery of health education to patients with chronic disease by provider type, 2005-2009. *Prev Chronic Dis*. 2014 Mar 6;11:E33. doi: 10.5888/pcd11.130175.

Cohen D, Coco A. Do physicians address other medical problems during preventive gynecologic visits? *J Am Board Fam Med*. 2014 Jan-Feb;27(1):13-8. doi: 10.3122/jabfm.2014.01.130045.

Tai M, Merchant RC. HIV testing in US emergency departments, outpatient ambulatory medical departments, and physician offices, 1992-2010. *AIDS Care*. 2014 Jan 2. [Epub ahead of print]

Rand CM, Blumkin A, Szilagyi PG. Electronic health record use and preventive counseling for US children and adolescents. *J Am Med Inform Assoc*. 2013 Sep 6. doi: 10.1136/amiajnl-2013-002260. [Epub ahead of print]

Hollingsworth JM, Sakshaug JW, Zhang Y, Hollenbeck BK. In-Office Imaging Capabilities Among Procedure-Based Specialty Practices. *Surg Innov*. 2013 Oct 16. [Epub ahead of print]

Rogers E, Sherman S. Tobacco Use Screening and Treatment by Outpatient Psychiatrists Before and After Release of the American Psychiatric Association Treatment Guidelines for Nicotine Dependence.

- Yamamoto A, McCormick MC, Burris HH. US Provider-Reported Diet and Physical Activity Counseling to Pregnant and Non-pregnant Women of Childbearing Age During Preventive Care Visits. *Matern Child Health J*. 2013 Dec 5. [Epub ahead of print]
- Pearson WS, King DE, Richards C. Capitated payments to primary care providers and the delivery of patient education. *J Am Board Fam Med*. 2013 Jul-Aug;26(4):350-5. doi: 10.3122/jabfm.2013.04.120301.
- Akamine KL, Gustafson CJ, Davis SA, Levender MM, Feldman SR. Trends in Sunscreen Recommendation Among US Physicians. *JAMA Dermatol*. 2013 Sep 4. doi: 10.1001/jamadermatol.2013.4741. [Epub ahead of print]
- Ahn CS, Davis SA, Dabade TS, Williford PM, Feldman SR. Cosmetic Procedures Performed in the United States: A 16-Year Analysis. *Dermatol Surg*. 2013 Jul 18. doi: 10.1111/dsu.12267. [Epub ahead of print]
- Bernstein SL, Yu S, Post LA, Dziura J, Rigotti NA. Undertreatment of Tobacco Use Relative to Other Chronic Conditions. *Am J Public Health*. 2013 Jun 13. [Epub ahead of print]
- Burke JF, Skolarus LE, Callaghan BC, Kerber KA. Choosing wisely: Highest-cost tests in outpatient neurology. *Ann Neurol*. 2013 Feb 11. doi: 10.1002/ana.23865. [Epub ahead of print]
- Berkowitz Z, Saraiya M, Sawaya GF. Cervical Cancer Screening Intervals, 2006 to 2009: Moving Beyond Annual Testing. *JAMA Intern Med*. Epub ahead of print: April 8, 2013. doi:10.1001/jamainternmed.2013.368
- Alamdari HS, Gustafson CJ, Davis SA, Huang W, Feldman SR. Psoriasis and cardiovascular screening rates in the United States. *J Drugs Dermatol*. 2013 Jan 1;12(1):e14-9. [NAMCS]
- Bhattacharyya N. Trends in Otolaryngologic Utilization of Computed Tomography for Sinonasal Disorders. *Laryngoscope*. 2013 Feb 16. doi: 10.1002/lary.24001. [Epub ahead of print]
- Tundia NL, Kelton CM, Cavanaugh TM, Guo JJ, Hanseman DJ, Heaton PC. The effect of electronic medical record system sophistication on preventive healthcare for women. *J Am Med Inform Assoc*. 2012 Oct 9. [Epub ahead of print]
- Shapiro DJ, Hersh AL, Cabana MD, Sutherland SM, Patel AI. Hypertension Screening During Ambulatory Pediatric Visits in the United States, 2000-2009. *Pediatrics*. 130(4):604-610. Oct 2012. 2012 Sep 17. [Epub ahead of print]
- Kraschnewski JL, Sciamanna CN, Stuckey HL, Chuang CH, Lehman EB, Hwang KO, Sherwood LL, Nembhard HB. A Silent Response to the Obesity Epidemic: Decline in US Physician Weight Counseling. *Med Care*. 51(2):186-192. Feb 2013. 2012 Oct 7. [Epub ahead of print]
- Jamal A, Dube SR, Malarcher AM, Shaw L, Engstrom MC; Office on Smoking and Health, National Center for Chronic Disease Prevention and Health Promotion. Tobacco use screening and counseling during physician office visits among adults - national ambulatory medical care survey and national health interview survey, United States, 2005-2009. *MMWR Surveill Summ*. 2012 Jun 15;61(2):38-45.
- Roland KB, Soman A, Benard VB, Saraiya M. Human papillomavirus and Papanicolaou tests screening interval recommendations in the United States. *Am J Obstet Gynecol*. 205(5):447.e1-8. Jun 2011. 2011 Jun 12. [Epub ahead of print]
- Lee JW, Berkowitz Z, Saraiya M. Low-risk human papillomavirus testing and other nonrecommended human papillomavirus testing practices among U.S. Health care providers. *Obstet Gynecol*. 2011 Jul;118(1):4-13.
- Cohen D, Coco A. Trends in the Provision of Preventive Women's Health Services by Family Physicians. *Fam Med*. 2011 Mar;43(3):166-71.

- Mojtabai R. Does Depression Screening Have an Effect on the Diagnosis and Treatment of Mood Disorders in General Medical Settings? An Instrumental Variable Analysis of the National Ambulatory Medical Care Survey. *Med Care Res Rev.* 2011 Mar 21. [Epub ahead of print]
- Harrison DL, Miller MJ, Schmitt MR, Touchet BK. Variations in the probability of depression screening at community-based physician practice visits. *Prim Care Companion J Clin Psychiatry.* 2010;12(5). pii: PCC.09m00911.
- Yoon PW, Tong X, Schmidt SM, Matson-Koffman D. Clinical preventive services for patients at risk for cardiovascular disease, national ambulatory medical care survey, 2005-2006. *Prev Chronic Dis.* 2011 Mar;8(2):A43. Epub 2011 Feb 15.
- Schmitt MR, Miller MJ, Harrison DL, Touchet BK. Relationship of depression screening and physician office visit duration in a national sample. *Psychiatr Serv.* 2010 Nov;61(11):1126-31.
- Siddique J, Lantos JD, Vanderweele TJ, Lauderdale DS. Screening Tests during Prenatal Care: Does Practice Follow the Evidence? *Matern Child Health J.* 16(1):51-59. Jan 2012. 2010 Nov 28. [Epub ahead of print]
- Kalsekar I, Record S, Nesnidal K, Hancock B. National estimates of enrollment in disease management programs in the United States: an analysis of the National Ambulatory Medical Care Survey data. *Popul Health Manag.* 2010 Aug;13(4):183-8.
- Saraiya M, McCaig LF, Ekwueme DU. Ambulatory care visits for Pap tests, abnormal Pap test results, and cervical cancer procedures in the United States. *Am J Manag Care.* 2010 Jun 1;16(6):e137-44.
- Hersh AL, Orrell-Valente JK, Maselli JH, Olson LM, Cabana MD. Decreasing frequency of asthma education in primary care. *J Asthma.* 2010 Feb;47(1):21-5.
- Siddique J, Lauderdale DS, Vanderweele TJ, Lantos JD. Trends in Prenatal Ultrasound Use in the United States: 1995 to 2006. *Med Care.* 2009 Sep 23. [Epub ahead of print]
- Pollak KI, Krause KM, Yarnall KS, Gradison M, Michener JL, Ostbye T. Estimated time spent on preventive services by primary care physicians. *BMC Health Serv Res.* 2008 Dec 1;8(1):245. [Epub ahead of print]
- Hoover K, Tao G. Missed opportunities for Chlamydia screening of young women in the United States. *Obstet Gynecol.* 2008 May;111(5):1097-102.
- Branner CM, Koyama T, Jensen GL. Racial and ethnic differences in pediatric obesity-prevention counseling: national prevalence of clinician practices. *Obesity (Silver Spring).* 2008 Mar;16(3):690-4. Epub 2008 Jan 17.
- Farwell WR, Linder JA, Jha AK. Trends in prostate-specific antigen testing from 1995 through 2004. *Arch Intern Med.* 2007;167(22):2497-2502
- Shah SS, Nawal Lutfiyya M, McCullough JE, Henley E, Zeitz HJ, Lipsky MS. Who is providing and who is getting asthma patient education: an analysis of 2001 National Ambulatory Medical Care Survey data. *Health Educ Res.* 2007 Nov 5; [Epub ahead of print]
- Mehrotra A, Zaslavsky AM, Ayanian JZ. Preventive health examinations and preventive gynecological examinations in the United States. *Arch Intern Med.* 2007 Sep 24;167(17):1876-83.
- Thorndike AN, Regan S, Rigotti NA. The Treatment of Smoking by US Physicians During Ambulatory Visits: 1994-2003. *Am J Public Health.* 2007; 97:1878-1883.



- McAlpine DD, Wilson AR. Trends in obesity-related counseling in primary care: 1995-2004. *Med Care*. 2007 Apr;45(4):322-9.
- Hambidge SJ, Emsermann CB, Federico S, Steiner JF. Disparities in pediatric preventive care in the United States, 1993-2002. *Arch Pediatr Adolesc Med*. 2007 Jan;161(1):30-6.
- Wallace AE, Sairafi NA, Weeks WB. Tobacco cessation counseling across the ages. *J Am Geriatr Soc*. 2006 Sep;54(9):1425-8.
- Bhosle M, Samuel S, Vosuri V, Paskett E, Balkrishnan R. Physician and patient characteristics associated with outpatient breast cancer screening recommendations in the United States: analysis of the National Ambulatory Medical Care Survey Data 1996-2004. *Breast Cancer Res Treat*. 2006 Sep 21; [Epub ahead of print]
- Ferketich AK, Khan Y, Wewers ME. Are physicians asking about tobacco use and assisting with cessation? Results from the 2001-2004 national ambulatory medical care survey (NAMCS). *Prev Med*. 2006 Aug 17; [Epub ahead of print]
- Scales CD Jr, Curtis LH, Norris RD, Schulman KA, Albala DM, Moul JW. Prostate specific antigen testing in men older than 75 years in the United States. *J Urol*. 2006 Aug;176(2):511-4.
- Heaton PC, Frede SM. Patients' need for more counseling on diet, exercise, and smoking cessation: results from the National Ambulatory Medical Care Survey. *J Am Pharm Assoc (Wash DC)*. 2006 May-Jun;46(3):364-9.
- Schwarz EB, Maselli J, Gonzales R. Contraceptive counseling of diabetic women of reproductive age. *Obstet Gynecol*. 2006 May;107(5):1070-4.
- Merenstein D, Daumit GL, Powe NR. Use and costs of nonrecommended tests during routine preventive health exams. *Am J Prev Med*. 2006 Jun;30(6):521-7.
- Steinberg MB, Akincigil A, Delnevo CD, Crystal S, Carson JL. Gender and age disparities for smoking-cessation treatment. *Am J Prev Med*. 2006 May;30(5):405-12. Epub 2006 Mar 23.
- Rao G. Pediatric obesity-related counseling in the outpatient setting. *Ambul Pediatr*. 2005 Nov-Dec;5(6):377-9.
- Gonzalez HM, West B, Underwood W 3rd. PSA testing in office-based clinics: are we testing as much as we think? *J Am Coll Surg*. 2005 Dec;201(6):906-12. Epub 2005 Oct 13.
- Lin SX, Larson E. Does provision of health counseling differ by patient race? *Fam Med*. 2005 Oct;37(9):650-4.
- Cook S, Weitzman M, Auinger P, Barlow SE. Screening and counseling associated with obesity diagnosis in a national survey of ambulatory pediatric visits. *Pediatrics*. 2005 Jul;116(1):112-6.
- Lin SX, Hyman D, Larson E. Provision of health counseling in office-based practices and hospital outpatient clinics. *Prev Med*. 2005 May;40(5):542-6.
- Ma J, Urizar GG Jr, Alehegn T, Stafford RS. Diet and physical activity counseling during ambulatory care visits in the United States. *Prev Med*. 2004 Oct;39(4):815-22.
- Mellen PB, Palla SL, Goff DC Jr, Bonds DE. Prevalence of nutrition and exercise counseling for patients with hypertension. *J Gen Intern Med*. 2004 Sep;19(9):917-24.
- Kast D, Prochazka A, Miyoshi TJ, et al. The annual physical examination: Estimates from the National Ambulatory Medical Care Survey. *J Gen Intern Med* 19: 214-214 Suppl. 1 Apr 2004

Underwood W III, West B, Gonzalez H. PSA Testing Utilization by Urologists and Primary Care Physicians: Data from the 2000 National Ambulatory Medical Care Survey. *Journal of Urology*. 171(4), Supplement, May 8 2004. (#130)

Freburger JK, Holmes GM, Carey TS. Physician referrals to physical therapy for the treatment of musculoskeletal conditions. *Arch Phys Med Rehabil*. 2003 Dec;84(12):1839-49.

Himelhoch S, Daumit G. To whom do psychiatrists offer smoking-cessation counseling? *Am J Psychiatry*. 2003 Dec;160(12):2228-30.

Moran CM, Panzarino VM, Darden PM, Reigart JR. Preventive services: blood pressure checks at well child visits. *Clin Pediatr (Phila)*. 2003 Sep;42(7):627-34.

Moran S, Thorndike AN, Armstrong K, Rigotti NA. Physicians' missed opportunities to address tobacco use during prenatal care. *Nicotine Tob Res*. 2003 Jun;5(3):363-8

Tanski SE, Klein JD, Winickoff JP, Auinger P, Weitzman M. Tobacco counseling at well-child and tobacco-influenced illness visits: opportunities for improvement. *Pediatrics* 2003 Feb;111(2):E162-7.

Daumit GL, Crum RM, Guallar E, Ford DE. Receipt of preventive medical services at psychiatric visits by patients with severe mental illness. *Psychiatr Serv* 2002 Jul;53(7):884-7.

Balkrishnan R, Hall MA, Mehrabi D, Chen GJ, Feldman SR, Fleischer AB Jr. Capitation payment, length of visit, and preventive services: evidence from a national sample of outpatient physicians. *Am J Manag Care* 2002 Apr;8(4):332-40

Housman TS, Rohrback JM, Fleischer AB, Feldman SR. Phototherapy utilization for psoriasis is declining in the United States. *J Am Acad Dermatol* 2002;46:557-9

Parnes B, Main DS, Holcomb S, Pace W. Tobacco cessation counseling among underserved patients: A report from CaReNet. *Journal of Family Practice* 51: (1) 65-69 Jan 2002

Tao G, Zhang P, Li Q. Services provided to nonpregnant women during general medical and gynecologic examinations in the United States. *Am J Prev Med* 2001 Nov;21(4):291-7.

Oliveria SA, Christos PJ, Marghoob AA, Halpern AC. Skin cancer screening and prevention in the primary care setting: National Ambulatory Medical Care Survey 1997. *J Gen Intern Med* 2001 May;16(5):297-301

Merenstein D, Green L, Fryer GE, et al. Shortchanging adolescents: room for improvement in preventive care by physicians. *Fam Med* 33: (2) 120-123 Feb 2001.

St John TM, Lipman HB, Krolak JM, Hearn TL. Improvement in physician's office laboratory practices. *Arch Pathol Lab Med* 2000 Jul;124(7):1066-73 1989-1994.

Feldman SR, Fleischer AB Jr. Skin examinations and skin cancer prevention counseling by US physicians: A long way to go. *J Am Acad Dermatol* 2000 Aug;43(2 Pt 1):234-7.

McNaughton Collins M, Stafford RS, Barry MJ. Age-specific patterns of prostate-specific antigen testing among primary care physician visits. *J Fam Pract* 2000 Feb;49(2):169-72

Meigs JB, Stafford RS. Cardiovascular disease prevention practices by U.S. physicians for patients with diabetes. *J Gen Intern Med* 2000 Apr;15(4):220-228 .

Cohen MC, Stafford RS, Misra B. Stress testing: national patterns and predictors of test ordering. *Am Heart J* 1999 Dec;138(6 Pt 1):1019-24

Thorndike AN, Ferris TG, Stafford RS, Rigotti NA. Rates of U.S. physicians counseling adolescents about smoking. *J Natl Cancer Inst* 1999 Nov 3;91(21):1857-1862.

Giles W. Missed opportunities in preventive counseling for cardiovascular disease: United States, 1995. *MMWR* February 13, 1998;47(5).

Jaen CR, Stange KC, Tumiel LM, Nutting P. Missed opportunities for prevention: smoking cessation counseling and the competing demands of practice. *J Fam Pract* 1997 Oct;45(4):348-354.

Salive ME, Guralnik JM, Brock D. Preventive services for breast and cervical cancer in U.S. office-based practices. *Prev Med* 1996. Sept-Oct; 25(5): 561-568.

Harris MI. Frequency of oral glucose tolerance testing in the U.S. *Diabetes Care* January 1995.

Harris MI, Modan M. Screening for NIDDM: why is there no national program? *Diabetes Care* 17:585-591, 1994.

Harris MI, Cowie CC, Eastman RC. Health insurance coverage for adults with diabetes in the U.S. population. *Diabetes Care* 17:585-91. 1994.

Harris MI, Eastman RC, Siebert C. The DCCT and medical care for diabetes in the U.S. *Diabetes Care* 17:761-64. 1994.

Harris MI, Cowie CC, Howie LJ. Self monitoring of blood glucose by adults with diabetes in the U.S. population. *Diabetes Care* 16:1116-23. 1993.

Harris MI. Testing for blood glucose by office-based physicians in the U.S. *Diabetes Care* Vol. 13, No. 4, April 1990.

Harris MI. Screening for undiagnosed diabetes in developed and developing nations. *Bulletin of the International Diabetes Federation* 1990.

Cypress, BK. The role of ambulatory medical care in hypertension screening. *Am J Public Health* 69:19-24, 1979.

## **6a. MEDICATION THERAPY - NCHS REPORTS**

Medication Therapy in Ambulatory Medical Care: National Ambulatory Medical Care Survey and National Hospital Ambulatory Medical Care Survey, 1992 [ADR No. 290]

Drug Utilization in Office Practice, 1990 [ADR No. 232]

Utilization of Controlled Drugs in Ambulatory Care, 1985 [ADR No. 177]

Highlights of Drug Utilization in Office Practice: 1985 [ADR No. 134]

The Management of Chronic Pain: 1980-81 [ADR No. 123]

Use of Antimicrobial Drugs in Office Practice: 1980-81 [Series 13, No. 85]

Use of Topical Antimicrobial Drugs: 1980-81 [ADR No. 106]

The Management of New Pain in Office-based Ambulatory Care: 1980-81 [ADR No. 97]

The Utilization of Analgesic Drugs in Office-based Practice: 1980-81 [ADR No. 96]

Utilization of Psychotropic Drugs in Office-based Care: 1980-81 [ADR No. 90]

Drugs Most Frequently Used in Office Practice: 1981 [ADR, No. 89]

Drug Utilization in General and Family Practice by Characteristics of Physicians and Office Visits: 1980 [ADR, No. 87]

Medication Therapy in Office Visits for Selected Diagnoses: 1980 [Series 13, No. 71]

Drug Utilization in Office Visits to Primary Care Physicians: 1980 [ADR No. 86]  
Drug Utilization in Office Practice by Age and Sex of the Patient: 1980 [ADR No. 81]  
Medication Therapy in Visits for Hypertension: 1980 [ADR No. 80]  
Drugs Most Frequently Used in Office-based Practice: 1980 [ADR No. 78]  
Drug Utilization in Office-based Practice, A Summary of Findings: 1980 [Series 13, No. 65]

## **6b. MEDICATION THERAPY – BOOKS USING NAMCS DRUG DATA**

Fleischer AB, Jr, Teuschler H, Chen GJ, Feldman SR: CRC Directory of Outpatient Prescribed Medications: Demographics Data Analysis 2003/2004. CRC Press-Parthenon Publishers, 2002.

## **6c. MEDICATION THERAPY - JOURNAL ARTICLES USING NAMCS DRUG DATA**

Lee J, Chang CH, Yung R, Bynum JPW. Provider Specialty and the Use of Disease-Modifying Antirheumatic Drugs for Rheumatoid Arthritis Among Older Adults in the 2005-2016 National Ambulatory Medical Care Survey. *ACR Open Rheumatol*. 2022 Jan 17. doi: 10.1002/acr2.11406. Online ahead of print. PMID: 35040280 Free article.

Vernacchio L, Herigon JC, Hatoun J, Patane LB, Correa ET. The Antibiotic Likelihood Index: A New Measure of Antimicrobial Stewardship for Pediatric Primary Care Based on Reason for Visit. *J Pediatric Infect Dis Soc*. 2021 Dec 18:piab110. doi: 10.1093/jpids/piab110. Online ahead of print. PMID: 34922373

Minhas AMK, Ijaz SH. Disparities in Statin Use During Outpatient Visits of Adults (Age 18 to 64 Years) With Coronary Heart Disease in the Medicaid Population in the United States (from the National Ambulatory Medical Care Survey Database 2006 to 2015). *Am J Cardiol*. 2021 Dec 30:S0002-9149(21)01158-9. doi: 10.1016/j.amjcard.2021.11.033. Online ahead of print. PMID: 34974897

Oueini R, Goodin AJ, Hincapie-Castillo JM, Vouri SM. Co-utilization of opioids and nonbenzodiazepine hypnotic drugs in U.S. ambulatory care visits, 2006-2016. *J Am Pharm Assoc (2003)*. 2021 Oct 22:S1544-3191(21)00438-6. doi: 10.1016/j.japh.2021.10.020. Online ahead of print. PMID: 34799261

Claridy MD, Czepiel KS, Bajaj SS, Stanford FC. Treatment of Obesity: Pharmacotherapy Trends of Office-Based Visits in the United States From 2011 to 2016. *Mayo Clin Proc*. 2021 Oct 30:S0025-6196(21)00623-6. doi: 10.1016/j.mayocp.2021.07.021. Online ahead of print. PMID: 34728060

Gwam CU, Emara AK, Chughtai N, Javed S, Luo TD, Wang KY, Chughtai M, O'Gara T, Plate JF. Trends and risk factors for opioid administration for non-emergent lower back pain. *World J Orthop*. 2021 Sep 18;12(9):700-709. doi: 10.5312/wjo.v12.i9.700. eCollection 2021 Sep 18. PMID: 34631453

Afarideh M, Rodriguez Baisi KE, Davis DMR, Hand JL, Tollefson MM. Trends in utilization of non-first-line topical acne medications among children, adolescents, and adults in the United States, 2012-2016. *Pediatr Dermatol*. 2021 Sep 30. doi: 10.1111/pde.14733. Online ahead of print. PMID: 34595751

Jones ME, Pourali SP, Kohn AH, Gutierrez Y, Rajkumar JR, Armstrong AW. Differences in acne therapy prescribing patterns between dermatologists and pediatricians: A population-based study. *Pediatr Dermatol*. 2021 Sep 13. doi: 10.1111/pde.14778. Online ahead of print. PMID: 34514637

Young EH, Pan S, Yap AG, Reveles KR, Bhakta K. Polypharmacy prevalence in older adults seen in United States physician offices from 2009 to 2016. *PLoS One*. 2021 Aug 3;16(8):e0255642. doi: 10.1371/journal.pone.0255642. eCollection 2021. PMID: 34343225

Pourali SP, Kohn AH, Gutierrez Y, Jones ME, Rajkumar JR, Kostandy G, Armstrong AW. Opiate use in dermatology: A population-based study using the National Ambulatory Medical Care Survey in the United States. *J Am Acad Dermatol*. 2021 Jul 16:S0190-9622(21)02108-3. doi: 10.1016/j.jaad.2021.07.014. Online ahead of print. PMID: 34274414 No abstract available.

Aparasu RR, Rege S. National surveys to evaluate prescribing practices: Methodological considerations. *Res Social Adm Pharm.* 2021 Jun 30:S1551-7411(21)00237-0. doi: 10.1016/j.sapharm.2021.06.020. Online ahead of print. PMID: 34253469

Vickers LE, Martinez AI, Wallem AM, Johnson C, Moga DC. Potentially Inappropriate Medication Use in Older Adults with Alzheimer's Disease and Related Dementias Living in the Community: A Cross-Sectional Analysis. *Drugs Real World Outcomes.* 2021 Jun 10. doi: 10.1007/s40801-021-00265-4. Online ahead of print. PMID: 34114133

Growdon ME, Gan S, Yaffe K, Steinman MA. Polypharmacy among older adults with dementia compared with those without dementia in the United States. *J Am Geriatr Soc.* 2021 Jun 8. doi: 10.1111/jgs.17291. Online ahead of print. PMID: 34101822

Patel K, Nole KB, Fleischer A Jr. Acne Vulgaris: The Majority of Patients Do Not Achieve Success According to FDA Guidance. *J Drugs Dermatol.* 2021 Jun 1;20(6):648-651. doi: 10.36849/JDD.2021.5727. PMID: 34076393

Costales B, Goodin AJ. Outpatient Off-Label Gabapentin Use for Psychiatric Indications Among U.S. Adults, 2011-2016. *Psychiatr Serv.* 2021 May 21:appips202000338. doi: 10.1176/appi.ps.202000338. Online ahead of print. PMID: 34015964

LeBrett WG, Chen FW, Yang L, Chang L. Increasing Rates of Opioid Prescriptions for Gastrointestinal Diseases in the United States. *Am J Gastroenterol.* 2021 Apr;116(4):796-807. doi: 10.14309/ajg.000000000001052. PMID: 33982950

Gwam CU, Emara AK, Ogbonnaya IA, Zuskov A, Luo TD, Plate JF, Gwam CU, et al. [Addressing National Opioid Prescribing Practices for Knee Osteoarthritis: An Analysis of an Estimated 41,389,332 Patients With Knee Arthritis.](#) *J Am Acad Orthop Surg.* 2021 Feb 15. doi: 10.5435/JAAOS-D-20-00924. Online ahead of print. *J Am Acad Orthop Surg.* 2021. PMID: 33591123.

Huang Y, Rege S, Chatterjee S, Aparasu RR, Huang Y, et al. [OPIOID PRESCRIBING AMONG OUTPATIENTS WITH RHEUMATOID ARTHRITIS.](#) *Pain Med.* 2021 Feb 10:pnab054. doi: 10.1093/pm/pnab054. Online ahead of print. *Pain Med.* 2021. PMID: 33565582

Sabety AH, Sherry TB, Maestas N, Sabety AH, et al. [Opioid use in older adults and Medicare Part D.](#) *Health Serv Res.* 2021 Jan 18. doi: 10.1111/1475-6773.13623. Online ahead of print. *Health Serv Res.* 2021. PMID: 33462819

Topper L, Rosas VM, Aarkoti M, Doucette J, Nabeel I. [The Prescription of Long-Acting Opioids for Working-Age Patients with Workers' Compensation or Chronic Illness Diagnoses in the US: from the National Ambulatory Medical Care Survey \(NAMCS\), 2010-2016.](#) *J Occup Environ Med.* 2020 Dec 23; Publish Ahead of Print. doi: 10.1097/JOM.0000000000002119. Online ahead of print. *J Occup Environ Med.* 2020. PMID: 33394875

Muddasani S, Heron CE, Fleischer AB Jr, Feldman SR. [Time Intervals Until the First Return Office Visit After New Medications.](#) *J Drugs Dermatol.* 2020 Dec 1;19(12):1226-1230. doi: 10.36849/JDD.2020.5542. *J Drugs Dermatol.* 2020. PMID: 33346517

Taylor MT, Horton DB, Juliano T, Olfson M, Gerhard T. [Outpatient prescribing of opioids to adults diagnosed with mental disorders in the United States.](#) *Drug Alcohol Depend.* 2020 Nov 23;219:108414. doi: 10.1016/j.drugalcdep.2020.108414. Online ahead of print. *Drug Alcohol Depend.* 2020. PMID: 33307300

Storandt MH, Walden CD, Sahnoun AE, Beal JR. Trends and Risk Factors in the Antibiotic Management of Skin and Soft Tissue Infections in the United States. *J Dermatolog Treat.* 2020 Dec 2:1-15. doi: 10.1080/09546634.2020.1859442. Online ahead of print. PMID: 33263454

Naberhaus T, Early NK, Fairman KA, Buckley K. Rates and Predictors of Physician-Recommended and Self-Reported Aspirin Use in 2015. *Sr Care Pharm.* 2020 Dec 1;35(12):556-565. doi: 10.4140/TCP.n.2020.556. PMID: 33258764

Freeze ME, Balogh EA, Cline A, Feldman SR, Fleischer AB Jr. Comparing prescribing patterns for topical corticosteroids based on their FDA indication by age. *Pediatr Dermatol.* 2020 Nov 10. doi: 10.1111/pde.14442. Online ahead of print. PMID: 33170543

Garg S, Zhao J, Tegtmeyer K, Shah P, Lio PA. US Prescription trends of antihistamines for atopic dermatitis, 2011-2016. *Pediatr Dermatol.* 2020 Nov 27. doi: 10.1111/pde.14445. Online ahead of print. PMID: 33247474

LeBrett WG, Chen FW, Yang L, Chang L. Increasing Rates of Opioid Prescriptions for Gastrointestinal Diseases in the United States. *Am J Gastroenterol.* 2020 Nov 23. doi: 10.14309/ajg.000000000001052. Online ahead of print. PMID: 33229978

Evoy KE, Roccograndi L, Le S, Leonard CE, Covvey JR, Ochs L, Peckham AM, Soprano SE, Reveles KR. National outpatient medication utilization for opioid and alcohol use disorders from 2014 to 2016. *J Subst Abuse Treat.* 2020 Dec;119:108141. doi: 10.1016/j.jsat.2020.108141. Epub 2020 Sep 22. PMID: 33138926

Schubert ML. Proton pump inhibitors: misconceptions and proper prescribing practice. *Curr Opin Gastroenterol.* 2020 Nov;36(6):493-500. doi: 10.1097/MOG.0000000000000676. PMID: 32868506

Moorman JM, Boyle J, Bruno L, Dugan S, Everly L, Gustafson K, Hartzler C, Homan N, Joshi D, King C, King K, King PK, Pesce A, Sadana P, Schneider H 3rd, Toth J, Unruh A, Walkerly A. Utilization of High-Intensity Statins in Patients at Risk for Cardiovascular Events: A National Cross-Sectional Study. *Am J Ther.* 2020 Oct 1. doi: 10.1097/MJT.0000000000001274. Online ahead of print. PMID: 33021546

Santo L, Schappert SM, Hootman JM, Helmick CG. Trends in office visits during which opioids were prescribed for adults with arthritis: United States, 2006-2015. *Arthritis Care Res (Hoboken).* 2020 Sep 16. doi: 10.1002/acr.24447. Online ahead of print. PMID: 32937030

Young EH, Panchal RM, Yap AG, Reveles KR. National Trends in Oral Antibiotic Prescribing in United States Physician Offices from 2009 to 2016. *Pharmacotherapy.* 2020 Aug 31. doi: 10.1002/phar.2456. Online ahead of print. PMID: 32867003

Schubert ML. Proton pump inhibitors: misconceptions and proper prescribing practice. *Curr Opin Gastroenterol.* 2020 Aug 29. doi: 10.1097/MOG.0000000000000676. Online ahead of print. PMID: 32868506

Lin Y, Mojtabai R, Goes FS, Zandi PP. Trends in prescriptions of lithium and other medications for patients with bipolar disorder in office-based practices in the United States: 1996-2015. *J Affect Disord.* 2020 Jul 21;276:883-889. doi: 10.1016/j.jad.2020.07.063. Online ahead of print.

Pilla SJ, Pitts SI, Maruthur NM. High Concurrent Use of Sulfonyleureas and Antimicrobials With Drug Interactions Causing Hypoglycemia. *J Patient Saf.* 2020 Jun 19. doi: 10.1097/PTS.0000000000000739. Online ahead of print. PMID: 32569099 (NAMCS, NHAMCS)

Soprano SE, Hennessy S, Bilker WB, Leonard CE. Assessment of Physician Prescribing of Muscle Relaxants in the United States, 2005-2016. *JAMA Netw Open.* 2020 Jun 1;3(6):e207664. doi: 10.1001/jamanetworkopen.2020.7664. PMID: 32579193

Payne JE, Ghamrawi RI, Lin JJ, Feldman SR. Utilization of an Online Cash-Pay Pharmacy for Topical 5-Fluorouracil Prescriptions in Older Patients. *J Drugs Dermatol.* 2020 May 1;19(5):539-542.

Feng Z, Williams D, Ladapo JA. Differences in Cardiovascular Care Between Adults With and Without Opioid Prescriptions in the United States. *J Am Heart Assoc.* 2020 Jun 2;9(11):e015961. doi: 10.1161/JAHA.120.015961. Epub 2020 May 27.

Marie Preciado S, Tomaszewski D, Cheetham TC, Gregorian T, Xavioer S, Fawaz S. National gender differences in the prescribing of opioid medications from 2006 to 2015. *J Opioid Manag.* 2020 May/Jun;16(3):197-208. doi: 10.5055/jom.2020.0568.

Early N, Fairman K, Ma J, Hong K. Changes in Psychotropic Prescribing for Patients With Dementia, 2014-2016: Potential implications for Pharmacists. *Sr Care Pharm.* 2020 May 1;35(5):207-219. doi: 10.4140/TCP.n.2020.207.

Rubino A, Sanon M, Ganz ML, Simpson A, Fenton MC, Verma S, Hartry A, Baker RA, Duffy RA, Gwin K, Fillit H. Association of the US Food and Drug Administration Antipsychotic Drug Boxed Warning With Medication Use and Health Outcomes in Elderly Patients With Dementia. *JAMA Netw Open.* 2020 Apr 1;3(4):e203630. doi: 10.1001/jamanetworkopen.2020.3630.

Kennedy A, Christie A, Malik RD, Zimmern PE. Contemporary use of prescription medications for neurogenic lower urinary tract dysfunction. *Low Urin Tract Symptoms.* 2020 Apr 24. doi: 10.1111/luts.12315. [Epub ahead of print]

Gruver BR, Jiroutek MR, Kelly KE. Naloxone coprescription in U.S. ambulatory care centers and emergency departments. *J Am Pharm Assoc (2003).* 2020 Apr 8. pii: S1544-3191(20)30123-0. doi: 10.1016/j.japh.2020.03.009. [Epub ahead of print]

Santo L, Ward BW, Rui P, Ashman JJ. Antineoplastic drugs prescription during visits by adult cancer patients with comorbidities: findings from the 2010-2016 National Ambulatory Medical Care Survey. *Cancer Causes Control.* 2020 Apr;31(4):353-363. doi: 10.1007/s10552-020-01281-5. Epub 2020 Feb 21.

Kissler SM, Klevens RM, Barnett ML, Grad YH. Distinguishing the roles of antibiotic stewardship and reductions in outpatient visits in generating a five-year decline in antibiotic prescribing. *Clin Infect Dis.* 2020 Mar 16. pii: ciaa269. doi: 10.1093/cid/ciaa269. [Epub ahead of print]

Ray MJ, Tallman GB, Bearden DT, Elman MR, McGregor JC. Antibiotic prescribing without documented indication in ambulatory care clinics: national cross sectional study. *BMJ.* 2019 Dec 11;367:l6461. doi: 10.1136/bmj.l6461.

Reserva J, Adams W, Perlman D, Vasicek B, Joyce C, Tung R, Swan J. Coprescription of Isotretinoin and Tetracyclines for Acne is Rare: An Analysis of the National Ambulatory Medical Care Survey. *J Clin Aesthet Dermatol.* 2019 Oct;12(10):45-48. Epub 2019 Oct 1.

St Clair CO, Golub NI, Ma Y, Song J, Winiacki SK, Menschik DL. Characteristics Associated With U.S. Outpatient Opioid Analgesic Prescribing and Gabapentinoid Co-Prescribing. *Am J Prev Med.* 2020 Jan;58(1):e11-e19. doi: 10.1016/j.amepre.2019.08.029.

Sohn M, Brinkman R, Wellman GS. Coprescription of opioid and naloxone in office-based practice and emergency department settings in the United States. *Public Health.* 2019 Dec 18;180:82-84. doi: 10.1016/j.puhe.2019.11.014. [Epub ahead of print]

Zhou L, Bhattacharjee S, Kwok CK, Tighe PJ, Malone DC, Slack M, Wilson DL, Brown JD, Lo-Ciganic WH. Trends, Patient and Prescriber Characteristics in Gabapentinoid Use in a Sample of United States Ambulatory Care Visits from 2003 to 2016. *J Clin Med.* 2019 Dec 29;9(1). pii: E83. doi: 10.3390/jcm9010083.

Poole NM, Shapiro DJ, Kronman MP, Hersh AL. Ambulatory Antibiotic Prescribing for Children with Pneumonia After Publication of National Guidelines: A Cross-Sectional Retrospective Study. *Infect Dis Ther*. 2019 Nov 27. doi: 10.1007/s40121-019-00276-3. [Epub ahead of print]

Pona A, Cline A, Kolli SS, Feldman SR, Fleischer AB Jr. Prescribing Patterns for Atopic Dermatitis in the United States. *J Drugs Dermatol*. 2019 Oct 1;18(10):987-990.

Lau DT. Is prescribing by PAs and NPs comparable to physician prescribing? *JAAPA*. 2019 Feb;32(2):52.

Khoja SS, Almeida GJ, Freburger JK. Recommendation Rates for Physical Therapy, Lifestyle Counseling and Pain Medications for Managing Knee Osteoarthritis in Ambulatory Care Settings. Cross-sectional Analysis of the National Ambulatory Care Survey (2007-2015). *Arthritis Care Res (Hoboken)*. 2019 Oct 8. doi: 10.1002/acr.24064. [Epub ahead of print]

Depew RE, Gonzales G. Differences in US antibiotic prescription use by facility and patient characteristics: evidence from the National Ambulatory Medical Care Survey. *Fam Pract*. 2019 Sep 19. pii: cmz049. doi: 10.1093/fampra/cmz049. [Epub ahead of print]

Singh P, Silverberg J. Real-World Outpatient Prescription Patterns for Atopic Dermatitis in the United States. *Dermatitis*. 2019 Sep/Oct;30(5):294-299. doi: 10.1097/DER.0000000000000520.

Ogungbe O, Akil L, Ahmad HA. Exploring Unconventional Risk-Factors for Cardiovascular Diseases: Has Opioid Therapy Been Overlooked? *Int J Environ Res Public Health*. 2019 Jul 18;16(14). pii: E2564. doi: 10.3390/ijerph16142564.

Kitten AK, Kamath M, Ryan L, Reveles KR. National ambulatory care non-insulin antidiabetic medication prescribing trends in the United States from 2009 to 2015. *PLoS One*. 2019 Aug 14;14(8):e0221174. doi: 10.1371/journal.pone.0221174. eCollection 2019.

Vasicek B, Adams W, Steadman L, Reserva J, Swan J. Coprescription of Isotretinoin and Systemic Corticosteroids for Acne: An Analysis of the National Ambulatory Medical Care Survey. *J Clin Aesthet Dermatol*. 2019 Jun;12(6):27-28. Epub 2019 Jun 1.

Snyder BM, Soric MM. National Trends in Statin Medication Prescribing in Patients With a History of Stroke or Transient Ischemic Attack. *J Pharm Pract*. 2019 Jul 21:897190019865147. doi: 10.1177/0897190019865147. [Epub ahead of print]

Lin SX, Patel K, Younge RG. Opioid Medications Prescribing and the Pain-Depression Dyad in Primary Care: Analysis of 2014-2015 National Ambulatory Medical Care Survey (NAMCS) Data. *J Am Board Fam Med*. 2019 Jul-Aug;32(4):614-618. doi: 10.3122/jabfm.2019.04.180311.

Wilson JH, Payne SC, Fermin CR, Churnin I, Qazi J, Mattos JL. Statin use protective for chronic rhinosinusitis in a nationally representative sample of the United States. *Laryngoscope*. 2019 May 31. doi: 10.1002/lary.28085. [Epub ahead of print]

Hudgins JD, Porter JJ, Monuteaux MC, Bourgeois FT. Trends in Opioid Prescribing for Adolescents and Young Adults in Ambulatory Care Settings. *Pediatrics*. 2019 Jun;143(6). pii: e20181578. doi: 10.1542/peds.2018-1578.

Soric MM, Paxos C, Dugan SE, Fosnight SM, Turosky JZ, Sadana P, Emshoff JB, Everly L, Snyder BM, Mistry BK, Bhat S, Unruh AE, Safi IM. Prevalence and Predictors of Benzodiazepine Monotherapy in Patients With Depression: A National Cross-Sectional Study. *J Clin Psychiatry*. 2019 May 21;80(4). pii: 18m12588. doi: 10.4088/JCP.18m12588.



- Sahakian Y, Bylykbashi B, Rahman A. Prescribing Patterns of Antihypertensive Medications in US Ambulatory Care Settings. *Pharmacy (Basel)*. 2019 Jun 14;7(2). pii: E64. doi: 10.3390/pharmacy7020064.
- Kianmehr H, Sabounchi NS, Sabounchi SS, Cosler LE. A system dynamics model of infection risk, expectations, and perceptions on antibiotic prescribing in the United States. *J Eval Clin Pract*. 2019 Jun 17. doi: 10.1111/jep.13203. [Epub ahead of print]
- Peckham AM, Fairman KA, Awanis G, Early NK. High-risk opioid prescribing trends in the outpatient setting prior to issuance of federal guidance. *Prev Med Rep*. 2019 May 17;15:100892. doi: 10.1016/j.pmedr.2019.100892. eCollection 2019 Sep.
- Vatcheva KP, Aparicio V, Araya A, Gonzalez E, Laing ST. Statin Prescription for Patients With Atherosclerotic Cardiovascular Disease from National Survey Data. *Am J Cardiol*. 2019 Apr 8. pii: S0002-9149(19)30414-X. doi: 10.1016/j.amjcard.2019.03.048. [Epub ahead of print]
- Cenzer I, Nkansah-Mahaney N, Wehner M, Chren MM, Berger T, Covinsky K, Berger K, Abuabara K, Linos E. A Multi Year Cross Sectional Study of US National Prescribing Patterns of First Generation Sedating Antihistamines in Older Adults with Skin Disease. *Br J Dermatol*. 2019 Apr 25. doi: 10.1111/bjd.18042. [Epub ahead of print]
- Rhee TG, Rosenheck RA. Psychotropic polypharmacy reconsidered: Between-class polypharmacy in the context of multimorbidity in the treatment of depressive disorders. *J Affect Disord*. 2019 Apr 8;252:450-457. doi: 10.1016/j.jad.2019.04.018. [Epub ahead of print]
- Ney JP, Weathers AL. Computerized prescriber order entry and opiate prescription in ambulatory care visits. *J Am Pharm Assoc (2003)*. 2019 Mar - Apr;59(2S):S52-S56. doi: 10.1016/j.japh.2019.01.010. Epub 2019 Feb 25.
- Zhou X, de Luise C, Gaffney M, Burt CW, Scott DA, Gatto N, Center KJ. National impact of 13-valent pneumococcal conjugate vaccine on ambulatory care visits for otitis media in children under 5 years in the United States. *Int J Pediatr Otorhinolaryngol*. 2019 Jan 19;119:96-102. doi: 10.1016/j.ijporl.2019.01.023. [Epub ahead of print] (NAMCS and NHAMCS)
- Kelly KE, Jiroutek MR, Lewis K, Zagar B. Assessing Changes in Statin Prescribing Patterns Surrounding the 2013 American College of Cardiology/American Heart Association Lipid Guidelines. *Clin Ther*. 2019 Jan 25. pii: S0149-2918(19)30004-9. doi: 10.1016/j.clinthera.2018.12.017. [Epub ahead of print]
- Agarwal SD, Landon BE. Patterns in Outpatient Benzodiazepine Prescribing in the United States. *JAMA Netw Open*. 2019 Jan 4;2(1):e187399. doi: 10.1001/jamanetworkopen.2018.7399.
- Kim J, Hartzema AG. Decline in dopamine agonists prescribing and characteristics of drugs prescribed during ambulatory office visits for restless legs syndrome: the National Ambulatory Medical Care Survey 2007-2015. *Sleep Med*. 2018 Nov 26;54:238-243. doi: 10.1016/j.sleep.2018.11.011. [Epub ahead of print]
- Tedijanto C, Olesen SW, Grad YH, Lipsitch M. Estimating the proportion of bystander selection for antibiotic resistance among potentially pathogenic bacterial flora. *Proc Natl Acad Sci U S A*. 2018 Dec 18;115(51):E11988-E11995. doi: 10.1073/pnas.1810840115.
- Rhee TG. Continuing versus New Antidepressant Use in Older Adults: US Prescribing Trends from 2006 to 2015. *Eur Geriatr Med*. 2018;9(4):551-555. doi: 10.1007/s41999-018-0075-x. Epub 2018 Jun 14.
- Rege S, Kavati A, Ortiz B, Mosnaim G, Cabana MD, Murphy K, Aparasu RR. Asthma Medication Prescribing Practices in Pediatric Office Visits. *Clin Pediatr (Phila)*. 2019 Jan 7;9922818822980. doi: 10.1177/0009922818822980. [Epub ahead of print]

- Bustillos H, Leer K, Kitten A, Reveles KR. A cross-sectional study of national outpatient gastric acid suppressant prescribing in the United States between 2009 and 2015. *PLoS One*. 2018 Nov 30;13(11):e0208461. doi: 10.1371/journal.pone.0208461. eCollection 2018.
- Rhee TG, Rosenheck RA. Initiation of new psychotropic prescriptions without a psychiatric diagnosis among US adults: Rates, correlates, and national trends from 2006 to 2015. *Health Serv Res*. 2018 Oct 17. doi: 10.1111/1475-6773.13072. [Epub ahead of print]
- Lin HC, Wang Z, Simoni-Wastila L, Boyd C, Buu A. Interstate data sharing of prescription drug monitoring programs and associated opioid prescriptions among patients with non-cancer chronic pain. *Prev Med*. 2018 Oct 11;118:59-65. doi: 10.1016/j.ypmed.2018.10.011. [Epub ahead of print]
- Fleischer AB Jr. Guideline-Based Medicine Grading based upon the Guidelines of Care for Ambulatory Atopic Dermatitis Treatment in the United States. *J Am Acad Dermatol*. 2018 Oct 1. pii: S0190-9622(18)32636-7. doi: 10.1016/j.jaad.2018.09.026. [Epub ahead of print]
- Kwak MJ, Kim J, Bhise V, Chung TH, Petitto GS. National Trends in Smoking Cessation Medication Prescriptions for Smokers With Chronic Obstructive Pulmonary Disease in the United States, 2007-2012. *J Prev Med Public Health*. 2018 Sep;51(5):257-262. doi: 10.3961/jpmph.18.119. Epub 2018 Aug 23.
- Joyner KR, Soric MM, Boyle JA, Moorman JM, Fredrickson ME, Turosky JZ, Kleven CL. Mineralocorticoid Receptor Antagonist Utilization in a Nationally Representative Heart Failure With Reduced Ejection Fraction Outpatient Population: A Cross-Sectional Study. *Am J Ther*. 2018 Jul 25. doi: 10.1097/MJT.0000000000000823. [Epub ahead of print]
- Alzahrani MS, Maneno MK, Daftary MN, Wingate L, Ettienne EB. Factors Associated with Prescribing Broad-Spectrum Antibiotics for Children with Upper Respiratory Tract Infections in Ambulatory Care Settings. *Clin Med Insights Pediatr*. 2018 Jul 2;12:1179556518784300. doi: 10.1177/1179556518784300. eCollection 2018. (NAMCS/NHAMCS)
- Vouri SM, van Tuyl JS, Olsen MA, Xian H, Schootman M. An evaluation of a potential calcium channel blocker-lower-extremity edema-loop diuretic prescribing cascade. *J Am Pharm Assoc (2003)*. 2018 Jul 20. pii: S1544-3191(18)30251-6. doi: 10.1016/j.japh.2018.06.014. [Epub ahead of print]
- Sherry TB, Sabety A, Maestas N. Documented Pain Diagnoses in Adults Prescribed Opioids: Results From the National Ambulatory Medical Care Survey, 2006-2015. *Ann Intern Med*. 2018 Sep 11. doi: 10.7326/M18-0644. [Epub ahead of print] No abstract available.
- Gaitonde S, Malik RD, Christie AL, Zimmern PE. Bethanechol: Is it still being prescribed for bladder dysfunction in women? *Int J Clin Pract*. 2018 Aug 15:e13248. doi: 10.1111/ijcp.13248. [Epub ahead of print]
- Eljaaly K, Alshehri S, Bhattacharjee S, Al-Tawfiq JA, Patanwala AE. Contraindicated drug-drug interactions associated with oral antimicrobial agents prescribed in the ambulatory care setting in the United States. *Clin Microbiol Infect*. 2018 Aug 11. pii: S1198-743X(18)30574-3. doi: 10.1016/j.cmi.2018.08.002. [Epub ahead of print]
- Kawai K, Adil EA, Barrett D, Manganella J, Kenna MA. Ambulatory Visits for Otitis Media before and after the Introduction of Pneumococcal Conjugate Vaccination. *J Pediatr*. 2018 Jun 26. pii: S0022-3476(18)30760-1. doi: 10.1016/j.jpeds.2018.05.047. [Epub ahead of print]
- Giarratano A, Green SE, Nicolau DP. Review of antimicrobial use and considerations in the elderly population. *Clin Interv Aging*. 2018 Apr 17;13:657-667. doi: 10.2147/CIA.S133640. eCollection 2018. Review.

- Ladapo JA, Laroche MR, Chen A, Villalon MM, Vassar S, Huang DYC, Mafi JN. Physician Prescribing of Opioids to Patients at Increased Risk of Overdose From Benzodiazepine Use in the United States. *JAMA Psychiatry*. 2018 Apr 12. doi: 10.1001/jamapsychiatry.2018.0544. [Epub ahead of print]
- Rhee TG, Choi YC, Ouellet GM, Ross JS. National Prescribing Trends for High-Risk Anticholinergic Medications in Older Adults. *J Am Geriatr Soc*. 2018 Mar 26. doi: 10.1111/jgs.15357. [Epub ahead of print]
- Mohan S, Bhattacharyya N. Opioids and the Otolaryngologist: An Ambulatory Assessment. *Otolaryngol Head Neck Surg*. 2018 Mar 1;194599818765125. doi: 10.1177/0194599818765125. [Epub ahead of print]
- Rhee TG, Mohamed S, Rosenheck RA. Antipsychotic Prescriptions Among Adults With Major Depressive Disorder in Office-Based Outpatient Settings: National Trends From 2006 to 2015. *J Clin Psychiatry*. 2018 Feb 13;79(2). pii: 17m11970. doi: 10.4088/JCP.17m11970. [Epub ahead of print]
- Jiao S, Murimi IB, Stafford RS, Mojtabai R, Alexander GC. Quality of prescribing by physicians, nurse practitioners, and physician assistants in the United States. *Pharmacotherapy*. 2018 Feb 19. doi: 10.1002/phar.2095. [Epub ahead of print]
- Petite S. Characterization of chronic obstructive pulmonary disease prescribing patterns in the United States. *Pulm Pharmacol Ther*. 2018 Feb 15. pii: S1094-5539(17)30275-4. doi: 10.1016/j.pupt.2018.02.003. [Epub ahead of print]
- Takaki H, Onozuka D, Hagihara A. Migraine-preventive prescription patterns by physician specialty in ambulatory care settings in the United States. *Prev Med Rep*. 2017 Dec 21;9:62-67. doi: 10.1016/j.pmedr.2017.12.009. eCollection 2018 Mar.
- Hirschtritt ME, Delucchi KL, Olsson M. Outpatient, combined use of opioid and benzodiazepine medications in the United States, 1993-2014. *Prev Med Rep*. 2017 Dec 21;9:49-54. doi: 10.1016/j.pmedr.2017.12.010. eCollection 2018 Mar.
- He A, Feldman SR, Fleischer AB Jr.. An assessment of the use of antihistamines in the management of atopic dermatitis. *J Am Acad Dermatol*. 2018 Jan 6. pii: S0190-9622(18)30020-3. doi: 10.1016/j.jaad.2017.12.077. [Epub ahead of print]
- Hersh AL, Shapiro DJ, Pavia AT, Fleming-Dutra KE, Hicks LA. Geographic Variability in Diagnosis and Antibiotic Prescribing for Acute Respiratory Tract Infections. *Infect Dis Ther*. 2017 Dec 22. doi: 10.1007/s40121-017-0181-y. [Epub ahead of print]
- Sanchez GV, Shapiro DJ, Hersh AL, Hicks LA, Fleming-Dutra KE. Outpatient Macrolide Antibiotic Prescribing in the United States, 2008-2011. *Open Forum Infect Dis*. 2017 Oct 8;4(4):ofx220. doi: 10.1093/ofid/ofx220. eCollection 2017 Fall.
- Molina KC, Fairman KA, Sclar DA. Concomitant use of opioid medications with triptans or serotonergic antidepressants in US office-based physician visits. *Drug Healthc Patient Saf*. 2018 May 3;10:37-43. doi: 10.2147/DHPS.S151073. eCollection 2018.
- Sanchez GV, Shapiro DJ, Hersh AL, Hicks LA, Fleming-Dutra KE. [Outpatient Macrolide Antibiotic Prescribing in the United States, 2008-2011](#). *Open Forum Infect Dis*. 2017 Oct 8;4(4):ofx220. doi: 10.1093/ofid/ofx220. eCollection 2017 Fall.
- Gaitonde P, Bozzi LM, Shaya FT. Factors associated with use of disease modifying agents for rheumatoid arthritis in the National Hospital and Ambulatory Medical Care Survey. *Semin Arthritis Rheum*. 2017 Oct 18. pii: S0049-0172(17)30463-8. doi: 10.1016/j.semarthrit.2017.10.011. [Epub ahead of print] [NAMCS data only – no hospital data in article – title is misleading]

- Bae J, Ford EW, Wu S, Huerta T. Electronic reminder's role in promoting human papillomavirus vaccine use. *Am J Manag Care*. 2017 Nov 1;23(11):e353-e359.
- Lin HC, Wang Z, Boyd C, Simoni-Wastila L, Buu A. Associations between statewide prescription drug monitoring program (PDMP) requirement and physician patterns of prescribing opioid analgesics for patients with non-cancer chronic pain. *Addict Behav*. 2017 Sep 5;76:348-354. doi: 10.1016/j.addbeh.2017.08.032. [Epub ahead of print]
- Swanoski MT, Little MM, St Hill CA, Ware KB, Chapman S, Lutfiyya MN. Potentially Inappropriate Medication Prescribing in U.S. Older Adults with Selected Chronic Conditions. *Consult Pharm*. 2017 Sep 1;32(9):525-534. doi: 10.4140/TCP.n.2017.525.
- Jackowski RM, Pogge EK, Early NK, Fairman KA, Sclar DA. Provision of Lifestyle Counseling and the Prescribing of Pharmacotherapy for Hyperlipidemia Among US Ambulatory Patients: A National Assessment of Office-Based Physician Visits. *Am J Cardiovasc Drugs*. 2017 Aug 28. doi: 10.1007/s40256-017-0247-y. [Epub ahead of print]
- Qureshi ZP, Haider MR, Rodriguez-Monguio R, Wooten NR, Nikitin RV, Ball S, Barth K, Elk R, Horner R, Bennett C. Opioid Prescription Drug Use and Expenditures in US Outpatient Physician Offices: Evidence from Two Nationally Representative Surveys. *Cancer Ther Oncol Int J*. 2017;3(3). pii: 555611. doi: 10.19080/CTOIJ.2017.03.555611. Epub 2017 Feb 22.
- Rege S, Sura S, Aparasu RR. Atypical Antipsychotic Prescribing in Elderly Patients with Depression. *Res Social Adm Pharm*. 2017 Aug 2. pii: S1551-7411(17)30235-8. doi: 10.1016/j.sapharm.2017.07.013. [Epub ahead of print]
- Rhee TG, Schommer JC, Capistrant BD, Hadsall RL, Uden DL. Potentially Inappropriate Antidepressant Prescriptions Among Older Adults in Office-Based Outpatient Settings: National Trends from 2002 to 2012. *Adm Policy Ment Health*. 2017 Jul 20. doi: 10.1007/s10488-017-0817-y. [Epub ahead of print]
- Adesanoye DT, Willey CJ. Does Cardiovascular Comorbidity Influence the Prescribing of Bronchodilators in Chronic Obstructive Pulmonary Disease? *Ann Pharmacother*. 2017 Jun 1:1060028017712531. doi: 10.1177/1060028017712531. [Epub ahead of print]
- Gerlach LB, Olfson M, Kales HC, Maust DT. Opioids and Other Central Nervous System-Active Polypharmacy in Older Adults in the United States. *J Am Geriatr Soc*. 2017 May 3. doi: 10.1111/jgs.14930. [Epub ahead of print]
- Ren J, Ni H, Kim M, Cooley KL, Valenzuela RM, Asche CV. Allergies, antibiotics use, and multiple sclerosis. *Curr Med Res Opin*. 2017 Apr 28:1-14. doi: 10.1080/03007995.2017.1325575. [Epub ahead of print]
- Maust DT, Blow FC, Wiechers IR, Kales HC, Marcus SC. National Trends in Antidepressant, Benzodiazepine, and Other Sedative-Hypnotic Treatment of Older Adults in Psychiatric and Primary Care. *J Clin Psychiatry*. 2017 Apr;78(4):e363-e371. doi: 10.4088/JCP.16m10713.
- Smith JL, McBride NM, Storch EA. Outpatient Treatment Patterns of Pediatric Obsessive-Compulsive Disorder. *J Child Adolesc Psychopharmacol*. 2017 Apr 4. doi: 10.1089/cap.2017.0011. [Epub ahead of print]
- Narula N, Borges L, Steinhart AH, Colombel JF. Trends in Narcotic and Corticosteroid Prescriptions in Patients with Inflammatory Bowel Disease in the United States Ambulatory Care Setting from 2003 to 2011. *Inflamm Bowel Dis*. 2017 Mar 31. doi: 10.1097/MIB.0000000000001084. [Epub ahead of print]
- Rasu RS, Knell ME. Determinants of Opioid Prescribing for Nonmalignant Chronic Pain in US Outpatient Settings. *Pain Med*. 2017 Mar 14. doi: 10.1093/pm/pnx025. [Epub ahead of print]
- Gupta AK, Carviel J, MacLeod MA, Shear N. Assessing finasteride-associated sexual dysfunction using the FAERS database. *J Eur Acad Dermatol Venereol*. 2017 Mar 16. doi: 10.1111/jdv.14223. [Epub ahead of print]

- Lai LL, Koh L, Ho JA, Ting A, Obi A. Off-Label Prescribing for Children with Migraines in U.S. Ambulatory Care Settings. *J Manag Care Spec Pharm.* 2017 Mar;23(3):382-387. doi: 10.18553/jmcp.2017.23.3.382.
- Chapman SA, St Hill CA, Little MM, Swanoski MT, Scheiner SR, Ware KB, Lutfiyya MN. Adherence to treatment guidelines: the association between stroke risk stratified comparing CHADS2 and CHA2DS2-VASc score levels and warfarin prescription for adult patients with atrial fibrillation. *BMC Health Serv Res.* 2017 Feb 11;17(1):127. doi: 10.1186/s12913-017-2025-6.
- Hu T, Decker SL, Chou SY. The impact of health insurance expansion on physician treatment choice: Medicare Part D and physician prescribing. *Int J Health Econ Manag.* 2017 Feb 6. doi: 10.1007/s10754-017-9211-2. [Epub ahead of print]
- Extavour RM, Perri M 3rd. Patient, Physician, and Health-System Factors Influencing the Quality of Antidepressant and Sedative Prescribing for Older, Community-Dwelling Adults. *Health Serv Res.* 2016 Dec 26. doi: 10.1111/1475-6773.12641. [Epub ahead of print]
- Rasu RS, Vossen RK, Knell M. Assessing Prescribing Trends of Adjuvant Medication Therapy in Outpatients with a Diagnosis of Non-malignant Chronic Pain. *Clin J Pain.* 2016 Dec 19. doi: 10.1097/AJP.0000000000000465. [Epub ahead of print]
- Maust DT, Kales HC, Wiechers IR, Blow FC, Olfson M. No End in Sight: Benzodiazepine Use in Older Adults in the United States. *J Am Geriatr Soc.* 2016 Nov 23. doi: 10.1111/jgs.14379. [Epub ahead of print]
- Tan EC, Bell JS, Lu CY, Toh S. National Trends in Outpatient Antihypertensive Prescribing in People with Dementia in the United States. *J Alzheimers Dis.* 2016 Oct 18;54(4):1425-1435.
- Ference EH, Min JY, Chandra RK, Schroeder JW, Ciolino JD, Yang A, Holl J, Shintani Smith S. Antibiotic Prescribing by Physicians Versus Nurse Practitioners for Pediatric Upper Respiratory Infections. *Ann Otol Rhinol Laryngol.* 2016 Oct 5. pii: 0003489416668193.
- Kachru N, Sura S, Chatterjee S, Aparasu RR. Antimuscarinic Medication Use in Elderly Patients with Overactive Bladder. *Drugs Aging.* 2016 Oct;33(10):755-763.
- Kobayashi M, Shapiro DJ, Hersh AL, Sanchez GV, Hicks LA. Outpatient Antibiotic Prescribing Practices for Uncomplicated Urinary Tract Infection in Women in the United States, 2002-2011. *Open Forum Infect Dis.* 2016 Aug 2;3(3):ofw159.
- Roditi RE, Ishman S, Lee S, Lin S, Shin JJ. Medications for Allergic Rhinitis: An Opportunity for Quality Improvement? *Otolaryngol Head Neck Surg.* 2016 Aug 30. pii: 0194599816666064. [Epub ahead of print]
- Derner MM, Linhart CA, Pederson LM, Saju SM, Heiden AM, Wohlford LA, Swanoski MT, Lutfiyya MN. Injuries in Adults 65 Years of Age and Older Prescribed Muscle Relaxants. *Consult Pharm.* 2016 Sep;31(9):511-7. doi: 10.4140/TCP.n.2016.511.
- Kaufmann CN, Spira AP, Depp CA, Mojtabei R. Continuing Versus New Prescriptions for Sedative-Hypnotic Medications: United States, 2005-2012. *Am J Public Health.* 2016 Sep 15:e1-e7. [Epub ahead of print]
- Kaufmann CN, Spira AP, Alexander GC, Rutkow L, Mojtabei R. Trends in prescribing of sedative-hypnotic medications in the USA: 1993-2010. *Pharmacoepidemiol Drug Saf.* 2015 Dec 29. doi: 10.1002/pds.3951. [Epub ahead of print]
- Steinberg MB, Akincigil A, Kim EJ, Shallis R, Delnevo CD. Tobacco Smoking as a Risk Factor for Increased Antibiotic Prescription. *Am J Prev Med.* 2015 Dec 15. pii: S0749-3797(15)00749-7. doi: 10.1016/j.amepre.2015.11.009. [Epub ahead of print]

Saluja S, Woolhandler S, Himmelstein DU, Bor D, McCormick D. Unsafe Drugs Were Prescribed More Than One Hundred Million Times in the United States Before Being Recalled. *Int J Health Serv.* 2016 Jun 14. pii: 0020731416654662. [Epub ahead of print]

Gilani S, Pynnonen MA, Shin JJ. National Practice Patterns of Antireflux Medication for Chronic Rhinosinusitis. *JAMA Otolaryngol Head Neck Surg.* 2016 Jun 9. doi: 10.1001/jamaoto.2016.0937. [Epub ahead of print]

Sohn M, Moga DC, Blumenschein K, Talbert J. National trends in off-label use of atypical antipsychotics in children and adolescents in the United States. *Medicine (Baltimore).* 2016 Jun;95(23):e3784. doi: 10.1097/MD.00000000000003784.

Bao Y, Pan Y, Taylor A, Radakrishnan S, Luo F, Pincus HA, Schackman BR. Prescription Drug Monitoring Programs Are Associated With Sustained Reductions In Opioid Prescribing By Physicians. *Health Aff (Millwood).* 2016 Jun 1;35(6):1045-51. doi: 10.1377/hlthaff.2015.1673.

Fleming-Dutra KE, Hersh AL, Shapiro DJ, Bartoces M, Enns EA, File TM Jr, Finkelstein JA, Gerber JS, Hyun DY, Linder JA, Lynfield R, Margolis DJ, May LS, Merenstein D, Metlay JP, Newland JG, Piccirillo JF, Roberts RM, Sanchez GV, Suda KJ, Thomas A, Woo TM, Zetts RM, Hicks LA. Prevalence of Inappropriate Antibiotic Prescriptions Among US Ambulatory Care Visits, 2010-2011. *JAMA.* 2016 May 3;315(17):1864-73. doi: 10.1001/jama.2016.4151.

Alghanem N, Abokwidir M, Fleischer AB Jr, Feldman SR, Alghanem W. Variation in cash price of the generic medications most prescribed by dermatologists in pharmacies across the United States. *J Dermatolog Treat.* 2016 May 31:1-10. [Epub ahead of print]

Soric MM, Moorman JM, Boyle JA, Dengler-Crish CM. Prevalence and predictors of metformin prescribing in adults with type 2 diabetes mellitus: a national cross sectional study. *Pharmacotherapy.* 2016 May 21. doi: 10.1002/phar.1772. [Epub ahead of print]

Barlam TF, Soria-Saucedo R, Cabral HJ, Kazis LE. Unnecessary Antibiotics for Acute Respiratory Tract Infections: Association With Care Setting and Patient Demographics. *Open Forum Infect Dis.* 2016 Feb 23;3(1):ofw045. doi: 10.1093/ofid/ofw045. eCollection 2016 Jan.

Bellmunt AM, Vila PM, Chen JX, Rosenfeld RM, Hackell JM, Shin JJ. Oral Steroid Usage for Otitis Media with Effusion, Eustachian Tube Dysfunction, and Tympanic Membrane Retraction. *Otolaryngol Head Neck Surg.* 2016 Mar 29. pii: 0194599816637845. [Epub ahead of print]

Mattson ME, Lynch S. Medication Prescribing and Behavioral Treatment for Substance Use Disorders In Physician Office Settings. *The CBHSQ Report. Rockville (MD): Substance Abuse and Mental Health Services Administration (US); 2013-2015 Nov 4.*

Kaufmann CN, Spira AP, Alexander GC, Rutkow L, Mojtabai R. Trends in prescribing of sedative-hypnotic medications in the USA: 1993-2010. *Pharmacoepidemiol Drug Saf.* 2015 Dec 29. doi: 10.1002/pds.3951. [Epub ahead of print]

Steinberg MB, Akincigil A, Kim EJ, Shallis R, Delnevo CD. Tobacco Smoking as a Risk Factor for Increased Antibiotic Prescription. *Am J Prev Med.* 2015 Dec 15. pii: S0749-3797(15)00749-7. doi: 10.1016/j.amepre.2015.11.009. [Epub ahead of print]

Trinkley KE, Sill BE, Porter K, Nahata MC. Prescribing Patterns for Outpatient Treatment of Constipation, Irritable Bowel Syndrome-Related Constipation, and Opioid-Induced Constipation: A Retrospective Cross-Sectional Study. *J Manag Care Spec Pharm.* 2015 Nov;21(11):1077-87.

- Burcu M, Safer DJ, Zito JM. Antipsychotic prescribing for behavioral disorders in US youth: physician specialty, insurance coverage, and complex regimens. *Pharmacoepidemiol Drug Saf.* 2015 Oct 28. doi: 10.1002/pds.3897. [Epub ahead of print]
- Marra EM, Mazer-Amirshahi M, Brooks G, van den Anker J, May L, Pines JM. Benzodiazepine Prescribing in Older Adults in U.S. Ambulatory Clinics and Emergency Departments (2001-10). *J Am Geriatr Soc.* 2015 Oct;63(10):2074-81. doi: 10.1111/jgs.13666. Epub 2015 Sep 29.
- Xia Y, Kelton CM, Guo JJ, Bian B, Heaton PC. Treatment of obesity: Pharmacotherapy trends in the United States from 1999 to 2010. *Obesity (Silver Spring).* 2015 Aug;23(8):1721-8. doi: 10.1002/oby.21136.
- Ford ES, Wheaton AG. Trends in Outpatient Visits with Benzodiazepines among US Adults With and Without Bronchitis or Chronic Obstructive Pulmonary Disease from 1999 to 2010. *COPD.* 2015 Aug 5. [Epub ahead of print]
- Cook TB, Reeves GM, Teufel J, Postolache TT. Persistence of racial disparities in prescription of first-generation antipsychotics in the USA. *Pharmacoepidemiol Drug Saf.* 2015 Jul 1. doi: 10.1002/pds.3819. [Epub ahead of print]
- Payk SL, Drew RH, Smith JD, Jiroutek MR, Holland MA. Sulfonylurea Prescribing Patterns After the Introduction of DPP-4 Inhibitors and GLP-1 Receptor Agonists. *Clin Ther.* 2015 May 26. pii: S0149-2918(15)00252-0. doi: 10.1016/j.clinthera.2015.04.011. [Epub ahead of print]
- Mehrotra A, Gidengil CA, Setodji CM, Burns RM, Linder JA. Antibiotic prescribing for respiratory infections at retail clinics, physician practices, and emergency departments. *Am J Manag Care.* 2015 Apr;21(4):294-302.
- Larochelle MR, Zhang F, Ross-Degnan D, Wharam JF. Trends in opioid prescribing and co-prescribing of sedative hypnotics for acute and chronic musculoskeletal pain: 2001-2010. *Pharmacoepidemiol Drug Saf.* 2015 Apr 22. doi: 10.1002/pds.3776. [Epub ahead of print]
- Pauff BR, Jiroutek MR, Holland MA, Sutton BS. Statin Prescribing Patterns: An Analysis of Data From Patients With Diabetes in the National Hospital Ambulatory Medical Care Survey Outpatient Department and National Ambulatory Medical Care Survey Databases, 2005-2010. *Clin Ther.* 2015 Apr 11. pii: S0149-2918(15)00162-9. doi: 10.1016/j.clinthera.2015.03.020. [Epub ahead of print]
- Gawron AJ, Feinglass J, Pandolfino JE, Tan BK, Bove MJ, Shintani-Smith S. Brand name and generic proton pump inhibitor prescriptions in the United States: insights from the national ambulatory medical care survey (2006-2010). *Gastroenterol Res Pract.* 2015;2015:689531. doi: 10.1155/2015/689531. Epub 2015 Feb 5.
- Khan AS, Chaudhry S, Qureshi AI. Antithrombotic Utilization Trends after Noncardioembolic Ischemic Stroke or TIA in the Setting of Large Antithrombotic Trials (2002-2009). *J Vasc Interv Neurol.* 2015 Feb;8(1):20-6.
- Rianon N, Knell ME, Agbor-Bawa W, Thelen J, Burkhardt C, Rasu RS. Persistent nonmalignant pain management using nonsteroidal anti-inflammatory drugs in older patients and use of inappropriate adjuvant medications. *Drug Healthc Patient Saf.* 2015 Jan 29;7:43-50. doi: 10.2147/DHPS.S67425. eCollection 2015.
- Sugai DY, Gustafson CJ, De Luca JF, Davis SA, Jorizzo JL, O'Rourke KS, Feldman SR. Trends in the outpatient medication management of lupus erythematosus in the United States. *J Drugs Dermatol.* 2014 May 1;13(5):545-52.
- Al-Dabagh A, Al-Dabagh R, Davis SA, Taheri A, Lin HC, Balkrishnan R, Feldman SR. Systemic corticosteroids are frequently prescribed for psoriasis. *J Cutan Med Surg.* 2014 May-Jun;18(3):195-9.
- Davis SA, Feldman SR, Taylor SL. Use of St. John's Wort in Potentially Dangerous Combinations. *J Altern Complement Med.* 2014 Jun 23. [Epub ahead of print]

- Davis SA, Krowchuk DP, Feldman SR. Prescriptions for a toxic combination: use of methotrexate plus trimethoprim-sulfamethoxazole in the United States. *South Med J*. 2014 May;107(5):292-3. doi: 10.1097/SMJ.0000000000000098.
- Huang KE, Milliron BJ, Davis SA, Feldman SR. Surge in US Outpatient Vitamin D Deficiency Diagnoses: National Ambulatory Medical Care Survey Analysis. *South Med J*. 2014 Apr;107(4):214-7. doi: 10.1097/SMJ.0000000000000085.
- Parikh SA, Davis SA, Krowchuk DP, Feldman SR. Common Use of Prescription Off-Label Acne Therapy in Children Younger Than 12 Years Old. *Pediatr Dermatol*. 2014 Jun 13. doi: 10.1111/pde.12379. [Epub ahead of print]
- Shaw MK, Davis SA, Feldman SR, Fleischer AB Jr. Trends in systemic psoriasis treatment therapies from 1993 through 2010. *J Drugs Dermatol*. 2014 Aug 1;13(8):917-20.
- Huang KE, Davis SA, Cantrell J, Feldman SR. Increasing use of non-traditional vehicles for psoriasis and other inflammatory skin conditions. *Dermatol Online J*. 2014 Sep 16;20(9). pii: <http://www.escholarship.org/uc/item/68c7h4cc> <http://www.escholarship.org/uc/item/58v1g0kq>.
- Sandoval LF, Huang KE, Davis SA, Feldman SR, Taylor SL. Trends in the Use of Neurotoxins and Dermal Fillers by US Physicians. *J Clin Aesthet Dermatol*. 2014 Sep;7(9):14-9.
- Steinman MA, Komaiko KD, Fung KZ, Ritchie CS. Use of Opioids and Other Analgesics by Older Adults in the United States, 1999-2010. *Pain Med*. 2014 Oct 28. doi: 10.1111/pme.12613. [Epub ahead of print]
- Prunuske JP, St Hill CA, Hager KD, Lemieux AM, Swanoski MT, Anderson GW, Lutfiyya M. Opioid prescribing patterns for non-malignant chronic pain for rural versus non-rural US adults: a population-based study using 2010 NAMCS data. *BMC Health Serv Res*. 2014 Nov 19;14(1):563. [Epub ahead of print]
- Fleming-Dutra KE, Shapiro DJ, Hicks LA, Gerber JS, Hersh AL. Race, Otitis Media, and Antibiotic Selection. *Pediatrics*. 2014 Nov 17. pii: peds.2014-1781. [Epub ahead of print]
- Yamamoto A, McCormick MC, Burris HH. Disparities in antidepressant use in pregnancy. *J Perinatol*. 2014 Nov 20. doi: 10.1038/jp.2014.197. [Epub ahead of print]
- Harle CA, Cook RL, Kinsell HS, Harman JS. Opioid prescribing by physicians with and without electronic health records. *J Med Syst*. 2014 Nov;38(11):138. doi: 10.1007/s10916-014-0138-6. Epub 2014 Oct 10.
- Rasu RS, Vouthy K, Crowl AN, Stegeman AE, Fikru B, Bawa WA, Knell ME. Cost of pain medication to treat adult patients with nonmalignant chronic pain in the United States. *J Manag Care Pharm*. 2014 Sep;20(9):921-8.
- Mazer-Amirshahi M, Rasooly I, Brooks G, Pines J, May L, van den Anker J. The Impact of Pediatric Labeling Changes on Prescribing Patterns of Cough and Cold Medications. *J Pediatr*. 2014 Sep 3. pii: S0022-3476(14)00695-7. doi: 10.1016/j.jpeds.2014.07.047. [Epub ahead of print]
- Kronman MP, Zhou C, Mangione-Smith R. Bacterial Prevalence and Antimicrobial Prescribing Trends for Acute Respiratory Tract Infections. *Pediatrics*. 2014 Sep 15. pii: peds.2014-0605. [Epub ahead of print]
- Barnett ML, Linder JA. Antibiotic Prescribing for Adults With Acute Bronchitis in the United States, 1996-2010. *JAMA*. 2014 May 21;311(19):2020-2. doi: 10.1001/jama.2013.286141.
- Yu Y, Rajan SS, Essien EJ, Yang M, Abughosh S. The Relationship between Obesity and Prescription of Smoking Cessation Medications. *Popul Health Manag*. 2014 May 1. [Epub ahead of print]



- Sun F, Stock EM, Copeland LA, Zeber JE, Ahmedani BK, Morissette SB. Polypharmacy with antipsychotic drugs in patients with schizophrenia: Trends in multiple health care systems. *Am J Health Syst Pharm*. 2014 May 1;71(9):728-38. doi: 10.2146/ajhp130471.
- Wang J, Surbhi S, Kuhle JW. Receipt of Angiotensin-Converting Enzyme Inhibitors or Angiotensin II Receptor Blockers among Medicare Beneficiaries with Diabetes and Hypertension. *J Pharm Health Serv Res*. 2014 Mar 1;5(1):67-74.
- Ford ES, Mannino DM, Giles WH, Wheaton AG, Liu Y, Croft JB. Prescription Practices for Chronic Obstructive Pulmonary Disease: Findings from the National Ambulatory Medical Care Survey 1999-2010.
- Gerhard T, Akincigil A, Correll CU, Foglio NJ, Crystal S, Olfson M. National trends in second-generation antipsychotic augmentation for nonpsychotic depression. *J Clin Psychiatry*. 2014 Jan 7. [Epub ahead of print]
- Maust DT, Oslin DW, Marcus SC. Effect of Age on the Profile of Psychotropic Users: Results from the 2010 National Ambulatory Medical Care Survey. *J Am Geriatr Soc*. 2014 Jan 13. doi: 10.1111/jgs.12640. [Epub ahead of print]
- Jeffrey Kao MC, Minh LC, Huang GY, Mitra R, Smuck M. Trends in Ambulatory Physician Opioid Prescription In The United States, 1997-2009. *PM R*. 2014 Jan 9. pii: S1934-1482(14)00012-4. doi: 10.1016/j.pmrj.2013.12.015. [Epub ahead of print]
- Filson CP, Wei JT, Hollingsworth JM. Trends in medical management of men with lower urinary tract symptoms suggestive of benign prostatic hyperplasia. *Urology*. 2013 Dec;82(6):1386-93. doi: 10.1016/j.urology.2013.07.062. Epub 2013 Oct 23
- Bhattacharyya N, Kepnes LJ. Medications prescribed at ambulatory visits for nasal polyposis. *Am J Rhinol Allergy*. 2013 Nov;27(6):479-81. doi: 10.2500/ajra.2013.27.3969.
- Meddles-Torres C, Hu S, Jurgens C. Changes in prescriptive practices in skin and soft tissue infections associated with the increased occurrence of community acquired methicillin resistant *Staphylococcus aureus*. *J Infect Public Health*. 2013 Jun 15. doi:pii: S1876-0341(13)00074-9. 10.1016/j.jiph.2013.04.010. [Epub ahead of print]
- Olfson M, Wang S, Iza M, Crystal S, Blanco C. National trends in the office-based prescription of schedule II opioids. *J Clin Psychiatry*. 2013 Sep;74(9):932-9. doi: 10.4088/JCP.13m08349.
- Fontil V, Pletcher MJ, Khanna R, Guzman D, Victor R, Bibbins-Domingo K. Physician Underutilization of Effective Medications for Resistant Hypertension at Office Visits in the United States: NAMCS 2006-2010. *J Gen Intern Med*. 2013 Nov 19. [Epub ahead of print]
- Meunier MR, Bennett IM, Coco AS. Use of antidepressant medication in the United States during pregnancy, 2002-2010. *Psychiatr Serv*. 2013 Nov 1;64(11):1157-60. doi: 10.1176/appi.ps.201200455.
- Ju R, Garrett J, Wu JM. Anticholinergic medication use for female overactive bladder in the ambulatory setting in the United States. *Int Urogynecol J*. 2013 Oct 25. [Epub ahead of print]
- Mittal M, Harrison DL, Miller MJ, Brahm NC. National antidepressant prescribing in children and adolescents with mental health disorders after an FDA boxed warning. *Res Social Adm Pharm*. 2013 Nov 20. pii: S1551-7411(13)00242-8. doi: 10.1016/j.sapharm.2013.11.001. [Epub ahead of print]
- Donnelly JP, Baddley JW, Wang HE. Antibiotic Utilization For Acute Respiratory Tract Infections In United States Emergency Departments. *Antimicrob Agents Chemother*. 2013 Dec 16. [Epub ahead of print]

Gupta MA, Gupta AK, Fink NH. Polypharmacy in dermatology: analysis of a nationally representative sample of 46,273 dermatology patient visits in the United States from 1995 to 2009. *Skinmed*. 2013 Sep-Oct;11(5):273-80.

Ahn CS, Davis SA, Dabade TS, Williford PM, Feldman SR. Noncosmetic Skin-Related Procedures Performed in the United States: An Analysis of National Ambulatory Medical Care Survey Data from 1995 to 2010. *Dermatol Surg*. 2013 Nov 14. doi: 10.1111/dsu.12364. [Epub ahead of print]

Hoover WD, Davis SA, Fleischer AB Jr, Feldman SR. Topical Antibiotic Monotherapy Prescribing Practices in Acne Vulgaris. *J Dermatolog Treat*. 2013 Oct 30. [Epub ahead of print]

Davis SA, Feldman SR. Patterns of Ambulatory Care Usage and Leading Treatments for Rosacea. *J Dermatolog Treat*. 2013 Oct 30. [Epub ahead of print]

Al-Dabagh A, Al-Dabagh R, Davis SA, Taheri A, Lin HC, Balkrishnan R, Feldman SR. Systemic corticosteroids are frequently prescribed for psoriasis. *J Cutan Med Surg*. 2014;18:1-5.

Ahn CS, Awadalla F, Huang KE, Yentzer B, Dabade TS, Feldman SR. Patterns of vitamin d analog use for the treatment of psoriasis. *J Drugs Dermatol*. 2013 Aug 1;12(8):906-10.

Mireku K, Huang KE, Narahari S, Davis SA, Feldman SR. Psoriasis Treatments by Payment Type in the US Outpatient Office Setting. *J Drugs Dermatol*. 2013 Oct 1;12(10):1095-7.

Ahn CS, Allen MM, Davis SA, Huang KE, Fleischer AB Jr, Feldman SR. The National Ambulatory Medical Care Survey: A resource for understanding the outpatient dermatology treatment. *J Dermatolog Treat*. 2013 Nov 21. [Epub ahead of print]

Tan X, Davis SA, Balkrishnan R, Krowchuk DP, Feldman S. Factors associated with topical retinoid prescriptions for acne. *J Dermatolog Treat*. 2013 Jun 27. [Epub ahead of print]

Davis SA, Yentzer BA, Feldman SR. Acitretin prescribing patterns in women of childbearing potential. *J Drugs Dermatol*. 2013 Jul 1;12(7):799-802.

Bradford WD, Lastrapes WD. A prescription for unemployment? Recessions and the demand for mental health drugs. *Health Econ*. 2013 Aug 19. doi: 10.1002/hec.2983. [Epub ahead of print]

Al-Dabagh A, Davis SA, Kinney MA, Huang K, Feldman SR. The Effect of Folate Supplementation on Methotrexate Efficacy and Toxicity in Psoriasis Patients and Folic Acid Use by Dermatologists in the USA. *Am J Clin Dermatol*. 2013 Apr 11. [Epub ahead of print]

Smith SS, Kern RC, Chandra RK, Tan BK, Evans CT. Variations in Antibiotic Prescribing of Acute Rhinosinusitis in United States Ambulatory Settings. *Otolaryngol Head Neck Surg*. 2013 Mar 5. [Epub ahead of print]

Chang J, Freed GL, Prosser LA, Patel I, Erickson SR, Bagozzi RP, Balkrishnan RP. Associations between physician financial incentives and the prescribing of anti-asthmatic medications in children in US outpatient settings. *J Child Health Care*. 2013 Feb 19. [Epub ahead of print]

Rotman SR, Bishop TF. Proton pump inhibitor use in the u.s. Ambulatory setting, 2002-2009. *PLoS One*. 2013;8(2):e56060. doi: 10.1371/journal.pone.0056060. Epub 2013 Feb 13.

Karve S, Levine D, Seiber E, Nahata M, Balkrishnan R. Trends in Ambulatory Prescribing of Antiplatelet Therapy among US Ischemic Stroke Patients: 2000-2007. *Adv Pharmacol Sci*. 2012;2012:846163. doi: 10.1155/2012/846163. Epub 2012 Dec 5.

Tran AR, Zito JM, Safer DJ, Hundley SD. National Trends in Pediatric Use of Anticonvulsants. *Psychiatr Serv*. 2012 Sep 15. doi: 10.1176/appi.ps.201100547. [Epub ahead of print]

Goldman JL, Jackson MA, Herigon JC, Hersh AL, Shapiro DJ, Leeder JS. Trends in Adverse Reactions to Trimethoprim-Sulfamethoxazole. *Pediatrics*. 131(1):e103-e108. Jan 2013. 2012 Dec 3. [Epub ahead of print]

Phan H, Porter K, Sill B, Nahata MC. Prescribing trends for the outpatient treatment of adolescents and young adults with type 2 diabetes mellitus. *J Manag Care Pharm*. 2012 Oct;18(8):607-14.

George MG, Tong X, Sonnenfeld N, Hong Y; Division for Heart Disease and Stroke Prevention, National Center for Chronic Disease Prevention and Health Promotion. Recommended use of aspirin and other antiplatelet medications among adults - national ambulatory medical care survey and national hospital ambulatory medical care survey, United States, 2005-2008. *MMWR Surveill Summ*. 2012 Jun 15;61(2):11-8.

Desai RJ, Agarwal SJ, Aparasu RR. Drug use trends for arthritis and other rheumatic conditions and effect of patient's age on treatment choice. *N C Med J*. 2011 Nov-Dec;72(6):432-8.

Bolaji RS, Dabade TS, Gustafson CJ, Davis SA, Krowchuk DP, Feldman SR. Treatment of impetigo: oral antibiotics most commonly prescribed. *J Drugs Dermatol*. 2012 Apr 1;11(4):489-94.

Landis ET, Levender MM, Davis SA, Feneran AN, Gerancher KR, Feldman SR. Isotretinoin and Oral Contraceptive Use in Female Acne Patients Varies by Physician Specialty: Analysis of Data from the National Ambulatory Medical Care Survey. *J Dermatolog Treat*. 23(4):272-277. Aug 2012. 2012 Mar 2. [Epub ahead of print]

Nolan BV, Levender MM, Davis SA, Feneran AN, Fleischer AB Jr, Feldman SR. Trends in the use of topical over the counter products in the management of dermatologic disease in the United States. *Dermatol Online J*. 2012 Feb 15;18(2):1.

Sclar DA, Robison LM, Castillo LV, Schmidt JM, Bowen KA, Oganov AM, Skaer TL, Kogut SJ. Concomitant Use of Triptan, and SSRI or SNRI After the US Food and Drug Administration Alert on Serotonin Syndrome. *Headache*. 2012 Feb;52(2):198-203. doi: 10.1111/j.1526-4610.2011.02067.x. Epub 2012 Jan 30.

Li C, Mittal D, Owen RR. Impact of patients' preexisting metabolic risk factors on the choice of antipsychotics by office-based physicians. *Psychiatr Serv*. 2011 Dec 1;62(12):1477-84.

Sidell D, Shapiro NL, Bhattacharyya N. Demographic Influences on Antibiotic Prescribing for Pediatric Acute Otitis Media. *Otolaryngol Head Neck Surg*. 2011 Dec 12. [Epub ahead of print]

Mojtabai R, Olfson M. Proportion Of Antidepressants Prescribed Without A Psychiatric Diagnosis Is Growing. *Health Affairs* August 2011, 30(8): 1434-1442. doi:10.1377/hlthaff.2010.1024

Hersh AL. Antibiotic Prescribing in Ambulatory Pediatrics in the United States. *Pediatrics*. 2011;doi:10.1542/peds.2011-1337.

Shapiro DJ, Gonzales R, Cabana MD, Hersh AL. National trends in visit rates and antibiotic prescribing for children with acute sinusitis. *Pediatrics*. 2011 Jan;127(1):28-34. Epub 2010 Dec 27.

Lai LL, Tan MH, Lai YC. Prevalence and factors associated with off-label antidepressant prescriptions for insomnia. *Drug Healthc Patient Saf*. 2011;3:27-36. Epub 2011 Jul 8.

Lapolla WJ, Levender MM, Davis SA, Yentzer BA, Williford PM, Feldman SR. Topical Antibiotic Trends from 1993 to 2007: Use of Topical Antibiotics for Non-Evidence-Based Indications. *Dermatol Surg*. 2011 Sep 2. doi: 10.1111/j.1524-4725.2011.02122.x. [Epub ahead of print]

MMWR Morb Mortal Wkly Rep. 2011 Sep 2;60:1153-6. Office-related antibiotic prescribing for persons aged ≤14 years --- United States, 1993--1994 to 2007--2008. Centers for Disease Control and Prevention (CDC).

Dorn SD, Meek PD, Shah ND. Increasing Frequency of Opioid Prescriptions for Chronic Abdominal Pain in U.S. Outpatient Clinics. *Clin Gastroenterol Hepatol*. 2011 Aug 17. [Epub ahead of print]

Levender MM, Davis SA, Kwatra SG, Williford PM, Feldman SR. Use of topical antibiotics as prophylaxis in clean dermatologic procedures. *J Am Acad Dermatol*. 66(3):445-451. Mar 2012. 2011 Aug 5. [Epub ahead of print]

Ghasri P, Yentzer BA, Dabade TS, Feldman SR. Acitretin for the treatment of psoriasis: an assessment of national trends. *J Drugs Dermatol*. 2011 Aug 1;10(8):873-7.

Comer JS, Mojtabai R, Olfson M. National Trends in the Antipsychotic Treatment of Psychiatric Outpatients With Anxiety Disorders. *Am J Psychiatry*. 2011 Jul 28. [Epub ahead of print]

Chen SY, Toh S. National trends in prescribing antidepressants before and after an FDA advisory on suicidality risk in youths. *Psychiatr Serv*. 2011 Jul;62(7):727-33.

Sarkar U, López A, Maselli JH, Gonzales R. Adverse Drug Events in U.S. Adult Ambulatory Medical Care. *Health Serv Res*. 2011 May 10. doi: 10.1111/j.1475-6773.2011.01269.x. [Epub ahead of print]

Paul IM, Maselli JH, Hersh AL, Boushey HA, Nielson DW, Cabana MD. Antibiotic Prescribing During Pediatric Ambulatory Care Visits for Asthma. *Pediatrics*. 127(6):1014-1021. Jun 2011. 2011 May 23. [Epub ahead of print]

Copp HL, Shapiro DJ, Hersh AL. National Ambulatory Antibiotic Prescribing Patterns for Pediatric Urinary Tract Infection, 1998-2007. *Pediatrics*. 2011 May 9. [Epub ahead of print]

Lee E, Teschemaker AR, Johann-Liang R, Bazemore G, Yoon M, Shim KS, Daniel M, Pittman J, Wutoh AK. Off-label prescribing patterns of antidepressants in children and adolescents. *Pharmacoepidemiol Drug Saf*. 2011 Apr 28. doi: 10.1002/pds.2145. [Epub ahead of print]

Fortuna RJ, Robbins BW, Caiola E, Joynt M, Halterman JS. Prescribing of controlled medications to adolescents and young adults in the United States. *Pediatrics*. 2010 Dec;126(6):1108-16. Epub 2010 Nov 29.

Hong SY, Taur Y, Jordan MR, Wanke C. Antimicrobial prescribing in the USA for adult acute pharyngitis in relation to treatment guidelines. *J Eval Clin Pract*. 2010 Jun 25. [Epub ahead of print]

Burris HH, Werler MM. U.S. Provider Reported Folic Acid or Multivitamin Ordering for Non-Pregnant Women of Childbearing Age: NAMCS and NHAMCS, 2005-2006. *Matern Child Health J*. 2010 Mar 5. [Epub ahead of print]

Cheung R, Mannalithara A, Singh G. Utilization and Antiviral Therapy in Patients with Chronic Hepatitis C: Analysis of Ambulatory Care Visits in the US. *Dig Dis Sci*. 2010 Feb 26. [Epub ahead of print]

Coco A, Vernacchio L, Horst M, Anderson A. Management of acute otitis media after publication of the 2004 AAP and AAFP clinical practice guideline. *Pediatrics*. 2010 Feb;125(2):214-20. Epub 2010 Jan 25.

Hsieh YH, Chen KF, Gaydos CA, Rothman RE, Kelen GD. Antiviral prescriptions to U.S. ambulatory care visits with a diagnosis of influenza before and after high level of adamantane resistance 2005-06 season. *PLoS One*. 2010 Jan 28;5(1):e8945.

Balkrishnan R, Bhosle MJ, Camacho F, Fleischer AB, Feldman SR. Prescribing patterns for topical retinoids: Analyses of 15 years of data from the National Ambulatory Medical Care Survey. *J Dermatolog Treat*. 2009 Nov 7. [Epub ahead of print]

- Bourgeois FT, Mandl KD, Valim C, Shannon MW. Pediatric adverse drug events in the outpatient setting: an 11-year national analysis. *Pediatrics*. 2009 Oct;124(4):e744-50. Epub 2009 Sep 28.
- Aparasu RR, Jano E, Bhatara V. Concomitant antipsychotic prescribing in US outpatient settings. *Res Social Adm Pharm*. 2009 Sep;5(3):234-41. Epub 2009 Jan 21.
- Skaer TL, Sclar DA, Robison LM. Trends in prescriptions for antidepressant pharmacotherapy among US children and adolescents diagnosed with depression, 1990 through 2001: an assessment of accordance with treatment recommendations from the American Academy of Child and Adolescent Psychiatry. *Clin Ther*. 2009 Jun;31(Pt 1):1478-87.
- Grijalva CG, Nuorti JP, Griffin MR. Antibiotic Prescription Rates for Acute Respiratory Tract Infections in US Ambulatory Settings. *JAMA*. 2009;302(7):758-766.
- Niska R, Han B. Statins for secondary cardiovascular disease prevention for older primary care patients. *J Natl Med Assoc*. 2009 Jul;101(7):705-10.
- Wilson RD. Analgesic prescribing for musculoskeletal complaints in the ambulatory care setting after the introduction and withdrawal of cyclooxygenase-2 inhibitors. *Arch Phys Med Rehabil*. 2009 Jul;90(7):1147-51.
- Coco AS, Horst MA, Gambler AS. Trends in broad-spectrum antibiotic prescribing for children with acute otitis media in the United States, 1998-2004. *BMC Pediatr*. 2009 Jun 24;9(1):41. [Epub ahead of print]
- Kwo EC, Kamat P, Steinman MA. Physician use of brand versus generic drug names in 1993-1994 and 2003-2004. *Ann Pharmacother*. 2009 Mar;43(3):459-68. Epub 2009 Mar 3.
- Rowan C, Brinker AD, Nourjah P, Chang J, Mosholder A, Barrett JS, Avigan M. Rhabdomyolysis reports show interaction between simvastatin and CYP3A4 inhibitors. *Pharmacoepidemiol Drug Saf*. 2009 Feb 10. [Epub ahead of print]
- Pawaskar MD, Joish VN, Camacho FT, Rasu RS, Balkrishnan R. The influence of co-morbidities on prescribing pharmacotherapy for insomnia: evidence from US national outpatient data 1995-2004. *J Med Econ*. 2008;11(1):41-56.
- Segars LW, Lea AR. Assessing prescriptions for statins in ambulatory diabetic patients in the United States: a national, cross-sectional study. *Clin Ther*. 2008 Nov;30(11):2159-66
- Yentzer BA, Irby CE, Fleischer AB Jr, Feldman SR. Differences in acne treatment prescribing patterns of pediatricians and dermatologists: an analysis of nationally representative data. *Pediatr Dermatol*. 2008 Nov-Dec;25(6):635-9.
- Strowd LC, Yentzer BA, Fleischer AB Jr, Feldman SR. Increasing use of more potent treatments for psoriasis. *J Am Acad Dermatol*. 2008 Dec 4. [Epub ahead of print]
- Guerrero-Preston R, Brandt-Rauf P. Pharmaceutical residues in the drinking water supply: modeling residue concentrations in surface waters of drugs prescribed in the United States. *P R Health Sci J*. 2008 Sep;27(3):236-40.
- Navaratnam P, Jayawant SS, Pedersen CA, Balkrishnan R. Asthma Pharmacotherapy Prescribing in the Ambulatory Population of the United States: Evidence of Nonadherence to National Guidelines and Implications for Elderly People. *J Am Geriatr Soc*. 2008 May 26. [Epub ahead of print]
- Navaratnam P, Jayawant SS, Pedersen CA, Balkrishnan R. Physician adherence to the national asthma prescribing guidelines: evidence from national outpatient survey data in the United States. *Ann Allergy Asthma Immunol*. 2008 Mar;100(3):216-21.

- Aparasu R, Baer R, Aparasu A. Clinically important potential drug-drug interactions in outpatient settings. *Res Social Adm Pharm.* 2007 Dec;3(4):426-37.
- Scelar DA, Robison LM, Skaer TL. Concomitant Triptan and SSRI or SNRI Use: A Risk for Serotonin Syndrome. *Headache.* 2007 Nov 13; [Epub ahead of print]
- Bhatara VS, Aparasu RR. Pharmacotherapy with Atomoxetine for US Children and Adolescents. *Ann Clin Psychiatry.* 2007 Jul-Sep;19(3):175-80.
- Stojanovski SD, Rasu RS, Balkrishnan R, Nahata MC. Trends in medication prescribing for pediatric sleep difficulties in US outpatient settings. *Sleep.* 2007 Aug 1;30(8):1013-7.
- Lamont EB, Dias LE, Lauderdale DS. NSAIDs and Colorectal Cancer Risk: Do Administrative Data Support a Chemopreventive Effect? *J Gen Intern Med.* 2007 Jun 19; [Epub ahead of print]
- Steinman MA, Chren M, Landefeld CS. What's in a Name? Use of Brand Name Versus Generic Drug Names in United States Outpatient Practice. *Journal of General Internal Medicine.* May 2007;22(5):645-648.
- Sankaranarayanan J, Puumula SE. Antipsychotic use at adult ambulatory care visits by patients with mental health disorders in the United States, 1996-2003: National estimates and associated factors. *Clin Ther.* 2007 Apr;29(4):723-41.
- Rowan SB, Bailey DN, Bublitz CE, Anderson RJ. Trends in anticoagulation for atrial fibrillation in the U.S.: an analysis of the national ambulatory medical care survey database. *J Am Coll Cardiol.* 2007 Apr 10;49(14):1561-5. Epub 2007 Mar 26.
- Aparasu RR, Bhatara V. Patterns and determinants of antipsychotic prescribing in children and adolescents, 2003-2004. *Curr Med Res Opin.* 2007 Jan;23(1):49-56.
- Federman AD, Litke A, Morrison RS. Association of age with analgesic use for back and joint disorders in outpatient settings. *Am J Geriatr Pharmacother.* 2006 Dec;4(4):306-15.
- Aparasu RR, Mort JR, Brandt H. Polypharmacy trends in office visits by the elderly in the United States, 1990 and 2000. *Res Social Adm Pharm.* 2005 Sep;1(3):446-59.
- Skaer TL, Scelar DA, Robison LM. Trends in the prescribing of oral agents for the management of type 2 diabetes mellitus in the United States, 1990-2001: does type of insurance influence access to innovation? *Diabetes Educ.* 2006 Nov-Dec;32(6):940-53.
- Pearce DJ, Camacho F, Balkrishnan R, Fleischer AB Jr, Feldman SR. Trends in on and off-label calcipotriene use. *J Dermatolog Treat.* 2006;17(5):308-13.
- Grijalva CG, Poehling KA, Nuorti JP, Zhu Y, Martin SW, Edwards KM, Griffin MR. National impact of universal childhood immunization with pneumococcal conjugate vaccine on outpatient medical care visits in the United States. *Pediatrics.* 2006 Sep;118(3):865-73.
- Lee E et al. National patterns of medication use during pregnancy. *Pharmacoepidemiology and Drug Safety,* 2006 August; 15, 537-545.
- Hing E, Brett KM. Changes in U.S. Prescribing Patterns of Menopausal Hormone Therapy, 2001–2003. *Obstetrics & Gynecology* 2006 Jul;108(1):33-40.

- Mainous AG 3rd, Saxena S, Hueston WJ, Everett CJ, Majeed A. Ambulatory antibiotic prescribing for acute bronchitis and cough and hospital admissions for respiratory infections: time trends analysis. *J R Soc Med.* 2006 Jul;99(7):358-62.
- Olfson M, Blanco C, Liu L, Moreno C, Laje G. National trends in the outpatient treatment of children and adolescents with antipsychotic drugs. *Arch Gen Psychiatry.* 2006 Jun;63(6):679-85.
- Cipher DJ, Hooker RS, Guerra P. Prescribing trends by nurse practitioners and physician assistants in the United States. *J Am Acad Nurse Pract.* 2006 Jun;18(6):291-6.
- Hare ME, Gaur AH, Somes GW, Arnold SR, Shorr RI. Does it really take longer not to prescribe antibiotics for viral respiratory tract infections in children? *Ambul Pediatr.* 2006 May-Jun;6(3):152-6.
- Olsen Y, Daumit GL, Ford DE. Opioid prescriptions by U.S. Primary care physicians from 1992 to 2001. *J Pain.* 2006 Apr;7(4):225-35.
- Kallen AJ, Welch HG, Sirovich BE. Current antibiotic therapy for isolated urinary tract infections in women. *Arch Intern Med.* 2006 Mar 27;166(6):635-9.
- Cooper WO, Arbogast PG, Ding H, Hickson GB, Fuchs DC, Ray WA. Trends in Prescribing of Antipsychotic Medications for US Children. *Ambul Pediatr.* 2006 Mar-Apr;6(2):79-83.
- Steinman MA, McQuaid KR, Covinsky KE. Age and rising rates of cyclooxygenase-2 inhibitor use. *J Gen Intern Med.* 21 (3): 245-250 Mar 2006.
- Young SE, Mainous AG 3rd, Diaz VA, Everett CJ. Practice patterns in sildenafil prescribing. *Fam Med.* 2006 Feb;38(2):110-5.
- Thomas CP, Conrad P, Casler R, Goodman E. Trends in the use of psychotropic medications among adolescents, 1994 to 2001. *Psychiatr Serv.* 2006 Jan;57(1):63-9.
- Rasu RS, Shenolikar RA, Nahata MC, Balkrishnan R. Physician and patient factors associated with the prescribing of medications for sleep difficulties that are associated with high abuse potential or are expensive: An analysis of data from the National Ambulatory Medical Care Survey for 1996-2001. *Clinical Therapeutics* 27 (12):1970-1979 Dec 2005.
- Balkrishnan R, Rasu RS, Rajagopalan R. Physician and patient determinants of pharmacologic treatment of sleep difficulties in outpatient settings in the United States. *Sleep.* 2005 Jun 1;28(6):715-9.
- Linder JA, Bates DW, Lee GM, Finkelstein JA. Antibiotic treatment of children with sore throat. *JAMA.* 2005 Nov 9;294(18):2315-22.
- Stafford RS, Monti V, Ma J. Underutilization of Aspirin Persists in US Ambulatory Care for the Secondary and Primary Prevention of Cardiovascular Disease. *PLoS Med.* 2005 Nov 15;2(12):e353 [Epub ahead of print]
- Schwarz EB, Maselli J, Norton M, Gonzales R. Prescription of teratogenic medications in United States ambulatory practices. *Am J Med.* 2005 Nov;118(11):1240-9.
- Thevarajah S, Balkrishnan R, Camacho FT, Feldman SR, Fleischer AB. Trends in prescription of acne medication in the US: Shift from antibiotic to non-antibiotic treatment. *J Dermatolog Treat.* 2005 Sep;16(4):224-8.

Hu J, Balkrishnan R, Camacho F, Lang W, Pearce DJ, Fleischer AB, Feldman SR. The frequent use of oral retinoids in combination with other treatments for psoriasis: A retrospective analysis. *Journal of Cutaneous Medicine and Surgery* 8 (6): 411-414 Dec 2004.

Hooker RS, Cipher DJ. Physician assistant and nurse practitioner prescribing: 1997-2002. *Journal of Rural Health* 21 (4): 355-360 FAL 2005

Ladd E. The use of antibiotics for viral upper respiratory tract infections: an analysis of nurse practitioner and physician prescribing practices in ambulatory care, 1997-2001. *J Am Acad Nurse Pract.* 2005 Oct;17(10):416-24.

Lin H, Phan K, Lin S. Trends in off-label beta-blocker use. *Journal of American Pharmacists Association.* March/April 2005.

Lin SJ, Lambert B, Tan H, Toh S. Frequency estimates from prescription drug datasets (revision of #04-11-066A). *Pharmacoepidemiol Drug Saf.* 2005 Sep 1; [Epub ahead of print]

Roumie CL, Halasa NB, Grijalva CG, Edwards KM, Zhu Y, Dittus RS, Griffin MR. Trends in antibiotic prescribing for adults in the United States--1995 to 2002. *J Gen Intern Med.* 2005 Aug;20(8):697-702.

Zhan C, Arispe I, Kelley E, Ding T, Burt CW, Shinogle J, Stryer D. Ambulatory Care Visits for Treating Adverse Drug Effects in the US, 1995-2001. *Joint Commission Journal on Quality and Patient Safety.* Vol 31, No. 7, July 2005

Roumie CL, Halasa NB, Edwards KM, Zhu Y, Dittus RS, Griffin MR. Differences in antibiotic prescribing among physicians, residents, and nonphysician clinicians. *Am J Med.* 2005 Jun;118(6):641-8.

Huang BJ, Martin SJ, Bachmann KA, et al. A nationwide survey of physician office visits found that inappropriate antibiotic prescriptions were issued for bacterial respiratory tract infections in ambulatory patients. *J Clin Epidemiol* 58 (4): 414-420 Apr 2005

Tan LSM, Morlock R. Sedative hypnotics employed to treat patients with and without insomnia complaints in the National Ambulatory Medical Care Survey: 1997-2002. *Value Health* 8 (3): 324-324 May-Jun 2005

Gupta AK, Bluhm R, Barlow JO, Fleischer AB Jr, Feldman SR. Prescribing practices for seborrheic dermatitis vary with the physician's specialty: implications for clinical practice. *J Dermatolog Treat.* 2004 Jul;15(4):208-13.

Viswanathan H, Bharmal M, Thomas J 3rd. Prevalence and correlates of potentially inappropriate prescribing among ambulatory older patients in the year 2001: comparison of three explicit criteria. *Clin Ther.* 2005 Jan;27(1):88-99.

Linder JA, Huang ES, Steinman MA, Gonzales R, Stafford RS. Fluoroquinolone prescribing in the United States: 1995 to 2002. *Am J Med.* 2005 Mar;118(3):259-68.

Balkrishnan R, Sansbury JC, Shenolikar RA, Fleischer AB Jr, Feldman SR. Prescribing patterns for topical retinoids within NAMCS data. *J Drugs Dermatol.* 2005 Mar-Apr;4(2):172-9.

Nguyen KX, Marinac JS, Sun C. Aspirin for primary prevention in patients with diabetes mellitus. *Fam Med.* 2005 Feb;37(2):112-7.

Dai C, Stafford RS, Alexander GC. National trends in cyclooxygenase-2 inhibitor use since market release: nonselective diffusion of a selectively cost-effective innovation. *Arch Intern Med.* 2005 Jan 24;165(2):171-7.



Zhan C, Correa-de-Araujo R, Bierman AS, Sangl J, Miller MR, Wickizer SW, Stryer D. Suboptimal prescribing in elderly outpatients: potentially harmful drug-drug and drug-disease combinations. *J Am Geriatr Soc*. 2005 Feb;53(2):262-7.

Linder JA, Bates DW, Platt R. Antivirals and antibiotics for influenza in the United States, 1995-2002. *Pharmacoepidemiol Drug Saf*. 2005 Jan 14; [Epub ahead of print]

Shih YC, Sleath BL. Health care provider knowledge of drug formulary status in ambulatory care settings. *Am J Health Syst Pharm*. 2004 Dec 15;61(24):2657-63.

Ciesla G, Leader S, Stoddard J. Antibiotic prescribing rates in the US ambulatory care setting for patients diagnosed with influenza, 1997-2001. *Respiratory Medicine* (2004) 98, 1093-1101.

Blanco C, Goodwin RD, Liebowitz MR, Schmidt AB, Lewis-Fernandez R, Olfson M. Use of Psychotropic Medications for Patients With Office Visits Who Receive a Diagnosis of Panic Disorder. *Med Care*. 2004 Dec;42(12):1242-1246.

Vogel CA, Balkrishnan R, Fleischer AB, Cayce KA, Feldman SR. Over-the-counter topical skin products--a common component of skin disease management. *Cutis*. 2004 Jul;74(1):55-67.

Rutschmann OT, Domino ME. Antibiotics for upper respiratory tract infections in ambulatory practice in the United States, 1997-1999: does physician specialty matter? *J Am Board Fam Pract*. 2004 May-Jun;17(3):196-200.

Pirraglia PA, Stafford RS, Singer DE. Trends in Prescribing of Selective Serotonin Reuptake Inhibitors and Other Newer Antidepressant Agents in Adult Primary Care. *Prim Care Companion J Clin Psychiatry*. 2003 Aug;5(4):153-157

Duque M, Vogel C, Fleischer A, Yosipovitch G. Over-the-counter topical antipruritic agents are commonly recommended by office-based physicians: an analysis of US practice patterns. *J Dermatolog Treat*. 2004;15(3):185-188.

Caudill-Slosberg MA, Schwartz LM, Woloshin S. Office visits and analgesic prescriptions for musculoskeletal pain in US: 1980 vs. 2000. *Pain*. 2004 Jun;109(3):514-9.

Leader S, Ciesla G. Antibiotic prescribing during RSV-associated ambulatory care visits by children age <5 years, US, 1995-2001. *Pediatric Research*. April 2004. (# 1355)

McCaig LF, McNeil MM. Trends in prescribing for vulvovaginal candidiasis in the United States. *Pharmacoepidemiol Drug Saf*. 2004 Mar 19 [Epub ahead of print]

McCoy S, Zell E, Besser R. Antimicrobial prescribing for otitis externa in children. *Pediatric Infectious Disease Journal*. 23(2), February 2004, 181-183.

Halasa NB, Griffin MR, Zhu Y, Edwards KM. Differences in antibiotic prescribing patterns for children younger than five years in the three major outpatient settings. *J Pediatr* 2004: 144:200-5.

Goulding MR. Inappropriate medication prescribing for elderly ambulatory care patients. *Arch Intern Med*. 2004; 164:305-312.

Balkrishnan R. et al. Analysis of factors associated with prescription of a potentially inappropriate combination dermatological medication among US outpatient physicians. *Pharmacoepidemiology and Drug Safety*. Volume 13, Issue 3: 133-138, March 2004, published online 26 Mar 2003.

Fang MC, Stafford RS, Ruskin JN, Singer DE. National trends in antiarrhythmic and antithrombotic medication use in atrial fibrillation. *Arch Intern Med.* 2004 Jan 12; 164(1): 55-60.

Mainous AG 3rd, Hueston WJ, Davis MP, Pearson WS. Trends in antimicrobial prescribing for bronchitis and upper respiratory infections among adults and children. *Am J Public Health.* 2003 Nov;93(11):1910-4.

Fleischer AB Jr, Simpson JK, McMichael A, Feldman SR. Are there racial and sex differences in the use of oral isotretinoin for acne management in the United States? *J Am Acad Dermatol.* 2003 Oct;49(4):662-6.

Linder JA, Singer DE, Stafford RS. Association between antibiotic prescribing and visit duration in adults with upper respiratory tract infections. *Clin Ther.* 2003 Sep;25(9):2419-30.

Balkrishnan R, Fleischer AB Jr, Paruthi S, Feldman SR. Physicians underutilize topical retinoids in the management of acne vulgaris: analysis of U.S. National Practice Data. *J Dermatolog Treat.* 2003 Sep;14(3):172-6.

Gupta AK, Cooper EA, Feldman SR, Fleischer AB Jr, Balkrishnan R. Analysis of factors associated with increased prescription illegibility: results from the National Ambulatory Medical Care Survey, 1990-1998. *Am J Manag Care.* 2003 Aug;9(8):548-52

Van Brunt DL, Gibson PJ, Ramsey JL, Obenchain R. Outpatient use of major antipsychotic drugs in ambulatory care settings in the United States, 1997-2000. *MedGenMed.* 2003 Aug 4;5(3):16.

Burt CW, Bernstein AB. Trends in use of medications associated with women's ambulatory care visits. *Journal of Women's Health,* 12 (3), 2003.

Steinman MA, Gonzales R, Linder JA, Landefeld CS. Changing use of antibiotics in community-based outpatient practice, 1991-1999. *Ann Intern Med* 2003 Apr 1;138(7):525-33 See also Comment on 605-6.

McCaig LF, Besser RE, Hughes JM. Antimicrobial drug prescription in ambulatory care settings, United States, 1992-2000. *Emerg Infect Dis* 2003 Apr;9(4):432-7

Sleath B, Tina Shih YC. Sociological influences on antidepressant prescribing. *Soc Sci Med* 2003 Mar;56(6):1335-44.

Daumit GL, Crum RM, Guallar E, Powe NR, Primm AB, Steinwachs DM, Ford DE. Outpatient prescriptions for atypical antipsychotics for African-Americans, hispanics, and whites in the United States. *Arch Gen Psychiatry* 2003 Feb;60(2):121-8

Steinman MA, Landefeld CS, Gonzales R. Predictors of broad-spectrum antibiotic prescribing for acute respiratory tract infections in adult primary care. *JAMA* 2003 Feb 12;289(6):719-25

Stafford, RS, Radley DC. The underutilization of cardiac medications of proven benefit, 1990 to 2002. *J Am Coll Cardiol* 2003;41:56-61

Luo RD, Belletti DA, Tran D, Arcona S, Salen PN. National prescribing patterns in the management of extrapyramidal symptoms among patients with schizophrenia. *Int J Psychiatry Med* 2002;32(3):261-9

Halasa NB, Griffin MR, Zhu Y, Edwards KM. Decreased number of antibiotic prescriptions in office-based settings from 1993 to 1999 in children less than five years of age. *Pediatr Infect Dis J* 2002 Nov;21(11):1023-1028

Nash DR, Harman J, Wald ER, Kelleher KJ. Antibiotic prescribing by primary care physicians for children with upper respiratory tract infections. *Arch Pediatr Adolesc Med* 2002 Nov;156(11):1114-9

Sugarman JH, Fleischer AB Jr, Feldman SR. Off-label prescribing in the treatment of dermatologic disease. *J Am Acad Dermatol* 2002 Aug;47(2):217-23

Burt CW. National trends in use of medications in office-based practice, 1985-1999. *Health Aff (Millwood)* 2002 Jul-Aug;21(4):206-14

Blanco C, Laje G, Olfson M, Marcus SC, Pincus HA. Trends in the treatment of bipolar disorder by outpatient psychiatrists. *Am J Psychiatry* 2002 Jun;159(6):1005-10

McCaig LF, Besser RE, Hughes JM. Trends in antimicrobial prescribing rates for children and adolescents. *JAMA* 2002 Jun 19;287(23):3096-102

Hermann RC, Yang D, Ettner SL, Marcus SC, Yoon C, Abraham M. Prescription of antipsychotic drugs by office-based physicians in the United States, 1989-1997. *Psychiatr Serv* 2002 Apr;53(4):425-30

Huang B, Bachmann KA, He X, Chen R, McAllister JS, Wang T. Inappropriate prescriptions for the aging population of the United States: an analysis of the National Ambulatory Medical Care Survey, 1997. *Pharmacoepidemiol Drug Saf* 2002 Mar;11(2):127-34

Zachry WM 3rd, Shepherd MD, Hinich MJ, Wilson JP, Brown CM, Lawson KA. Relationship between direct-to-consumer advertising and physician diagnosing and prescribing. *Am J Health Syst Pharm* 2002 Jan 1;59(1):42-9

Ausiello JC, Stafford RS. Trends in medication use for osteoarthritis treatment. *J Rheumatol* 2002 May;29(5):999-1005

McCall WV, Fleischer AB, Feldman SR. Diagnostic codes associated with hypnotic medications during outpatient physician-patient encounters in the United States from 1990-1998. *Sleep* 25 (2): 221-223 MAR 15 2002

McCall W, Fleischer AB, Feldman SR. Insomnia diagnoses and hypnotic usage in the National Ambulatory Medical Care Survey from 1990-1998. *Sleep* 25: 324 Suppl. S APR 15 2002

Cantrell R, Young AF, Martin BC. Antibiotic prescribing in ambulatory care settings for adults with colds, upper respiratory tract infections, and bronchitis. *Clin Ther* 2002 Jan;24(1):170-82

Jensen PS, Bhatara VS, Vitiello B, Hoagwood K, Feil M, Burke LB. Psychoactive medication prescribing practices for U.S. children: gaps between research and clinical practice. *J Am Acad Child Adolesc Psychiatry* 1999 May;38(5):557-65.

Linder JA, Stafford RS. Antibiotic treatment of adults with sore throat by community primary care physicians: a national survey, 1989-1999. *JAMA* 2001 Sep 12;286(10):1181-1186

Gonzales R, Malone DC, Maselli JH, Sande MA. Excessive antibiotic use for acute respiratory infections in the United States. *Clin Infect Dis* 2001 Sep 15;33(6):757-762

Goodwin R, Gould MS, Blanco C, Olfson M. Prescription of psychotropic medications to youths in office-based practice. *Psychiatric Services* 52: (8) 1081-1087 Aug 2001.

Wang TJ, Stafford RS, Ausiello JC, Chaisson CE. Randomized clinical trials and recent patterns in the use of statins. *Am Heart J* 2001 Jun;141(6):957-63

Gonzales R, Maselli J. Trends in antimicrobial treatment of acute respiratory tract infections by primary care physicians, 1994-1998. *Journal of General Internal Medicine* 2001 April;16:196

Stern RS. Medication and medical service utilization for acne 1995-1998. *Journal of American Academy of Dermatology* December 2000: 1042-1048.

Hoagwood K, Jensen PS, Feil M, Vitiello B, Bhatara VS. Medication management of stimulants in pediatric practice settings: a national perspective. *J Dev Behav Pediatr* 2000 Oct;21(5):322-31

Nelson CR, Knapp DA. Trends in antihypertensive drug therapy of ambulatory patients by US office-based physicians. *Hypertension*. 2000;36:600-603

Mort JR, Aparasu RR. Prescribing potentially inappropriate psychotropic medications to the ambulatory elderly. *Arch Intern Med*. 2000;160:2825-2831.

Shaffer MP, Feldman SR, Fleischer AB Jr. Use of clotrimazole/betamethasone dipropionate by family physicians. *Fam Med* 2000 Sep;32(8):561-5.

Lipsky MS, Waters T, Sharp LK. Impact of vaginal antifungal products on utilization of health care services: evidence from physician visits. *J Am Board Fam Pract* 2000 May-Jun;13(3):178-82.

Aparasu RR, Helgeland DL. Utilization of ambulatory care services caused by adverse effects of medications in the United States. *Managed Care Interface* April 2000, 70-74.

Stafford RS. Aspirin use is low among United States outpatients with coronary artery disease. *Circulation* 2000 Mar 14;101(10):1097-101.

Feldman SR, Fleischer AB, Cooper JZ. New topical treatments change the pattern of treatment of psoriasis: dermatologists remain the primary providers of this care. *Int J Dermatol* 2000 Jan;39(1):41-4.

Fleischer AB Jr, Feldman SR. Prescription of high-potency corticosteroid agents and clotrimazole-betamethasone dipropionate by pediatricians. *Clin Ther* 1999 Oct;21(10):1725-31

Copeland C. Prescription drug utilization and physician visits. Employee Benefit Research Institute. EBRI Notes. Vol. 20, No. 9. October 1999.

Feldman SR, Fleischer AB Jr, Chen GJ. Is prior authorization of topical tretinoin for acne cost effective? *Am J Manag Care* 1999 Apr;5(4):457-63.

Sclar DA, Robison LM, Skaer TL, Galin RS. Ethnicity and the prescribing of antidepressant pharmacotherapy: 1992-1995. *Harv Rev Psychiatry* 1999 May-Jun;7(1):29-36.

Pradel FG, Hartzema AG, Mutran EJ, Hanson-Divers C. Physician over-the-counter drug prescribing patterns: an analysis of the national ambulatory medical care survey. *Ann Pharmacother* 1999 Apr;33(4):400-5.

Aparasu RR. Visits to office-based physicians in the United States for medication-related morbidity. *J Am Pharm Assoc* 1999 May-Jun;39(3):332-7.

Ward MM. Trends in the use of disease modifying antirheumatic medications in rheumatoid arthritis, 1980-1995: results from the National Ambulatory Medical Care Surveys. *J Rheumatol* 1999 Mar; 26(3): 546-550.

Stafford RS, Robson DC, Misra B, Ruskin J, Singer DE. Rate control and sinus rhythm maintenance in atrial fibrillation: national trends in medication use, 1980-1996. *Arch Intern Med* 1998 Oct 26; 158(19):2144-8.

- Wang TJ, Stafford RS. National patterns and predictors of beta-blocker use in patients with coronary artery disease. *Arch Intern Med* 1998 Sep 28; 158(17):1901-6.
- Stafford RS, Saglam D, Causino N, Blumenthal D. The declining impact of race and insurance status on hormone replacement therapy. *Menopause* Vol. 5, No. 3, pp. 140-144.
- Rathore SS, Mehta SS, Boyko WL Jr, Schulman KA. Prescription medication use in older Americans: a national report card on prescribing. *Fam Med* 1998 Nov-Dec;30(10):733-9.
- Metlay JP, Stafford RD, Singer DE. National trends in the use of antibiotics by primary care physicians for adults patients with cough. *Arch Intern Med*. 1998;158:1813-1818.
- Sclar DA, Robison LM, Skaer TL, Galin RS. What factors influence the prescribing of antidepressant pharmacotherapy? An assessment of national office-based encounters. *Int J Psychiatry Med* 1998;28(4):407-19.
- Sclar DA et al. Trends in the prescribing of antidepressant pharmacotherapy:office-based visits. 1990-1995. *Clin Ther* 1998 Jul-Aug;20(4):871-84;870.
- Zito JM, Safer DJ, Riddle MA, Johnson RE, Speedie SM, Fox M. Prevalence variations in psychotropic treatment of children. *J Child Adolesc Psychopharmacol* 1998;8(2):99-105.
- Aparasu RR, Mort JR, Sitzman S. Psychotropic prescribing for the elderly in office-based practice. *Clin Ther* 1998 May-Jun;20(3):603-16.
- Olfson M, Marcus SC, Pincus HA, Zito JM, Thompson JW, Zarin DA. Antidepressant prescribing practices of outpatient psychiatrists. *Arch Gen Psychiatry* 1998 Apr;55(4):310-316.
- Stafford RS, Singer DE. Recent national patterns of warfarin use in atrial fibrillation. *Circulation*. 1998;97:1231-1233.
- McConnell RC, Fleischer AB, Williford PM, Feldman SR. Most topical tretinoin treatment is for acne vulgaris through age 44 years: An analysis of the National Ambulatory Medical Care Survey, 1990-1994. *J Am Acad Dermatol* 1998;38:221-6.
- Nyquist A-C, Gonzales R, Steiner JF, Sande MA. Antibiotic prescribing for children with colds, upper respiratory tract infections, and bronchitis. *JAMA* 1998;279:875-877.
- Schwartz BS, Mainous AG, Marcy AM. Why do physicians prescribe antibiotics for children with upper respiratory tract infections? *JAMA* 1998; 279:881-882. [editorial accompanying Nyquist et al. and containing substantial references to NAMCS data.]
- Pincus H et al. Prescribing trends in psychotropic medications. *JAMA* 1998. 279(7):526-531.
- Simoni-Wastila L. Gender and psychotropic drug use. *Med Care* 1998; 36:88-94.
- Stafford RS, Saglam Demet, Causino N, Blumenthal D. Low rates of hormone replacement in visits to United States primary care physicians. *Am J Obstet Gynecol* 1997; 177:381-7.
- Gonzales R, Steiner JF, Sande MA. Antibiotic prescribing for adults with colds, upper respiratory tract infections, and bronchitis by ambulatory care physicians. *JAMA* 1997; 278:901-904.
- Aparasu RR, Fliginger SE. Inappropriate medication prescribing for the elderly by office-based physicians. *Ann Pharmacother* 1997 Jul;31(7-8):823-829.

Nichol MB, Margolies JE, Gill MA. Factors associated with antihypertensive prescribing. *Ann Pharmacother* 1997; Feb; 31(2):154-9.

Stafford RS, Singer DE. National patterns of warfarin use in atrial fibrillation. *Arch Intern Med* 1996;156:2537-2541.

Stern RS. The pattern of topical corticosteroid prescribing in the United States, 1989-1991. *J Am Acad Dermatol* 1996 Aug; 35(2 Pt 1): 183-6.

Nichol MB, Stimmel GL, Lange SC. Factors predicting the use of multiple psychotropic medications. *J Clin Psychiatry* 1995 Feb; 56(2): 60-6.

McCaig LF, Hughes JM. Trends in antimicrobial drug prescribing among office-based physicians in the United States. *JAMA* 1995;273:214-219.

Stern, RS. Drug promotion for an unlabeled indication - the case of topical tretinoin. *N Engl J Med* Nov. 17, 1994: 1348-1349.

Carlsen MA. Prescription drug benefits: Rx for cost management. *Benefits Quarterly Third Quarter, 1993.* 81-84.

Olfson M, Klerman GL. Trends in the prescription of psychotropic medications: the role of physician specialty. *Med Care* 31(6): 559-564, June 1993.

Olfson M, Klerman, GL. Trends in the prescription of antidepressants by office-based psychiatrists. *Am J Psychiatry* 150(94): 571-7. April 1993.

DK Wysowski, DL Kennedy, C Nelson, TP Gross. Drugs in patients 65 years and older in the United States, 1978-1990. *Cardiovascular Risk Factors* 1992, Vol. 2. pp. 202-207

Olfson M, Klerman GL. The treatment of depression: prescribing practices of primary care physicians and psychiatrists. *J Fam Pract* 35(6): 627-35, December 1992.

Broadhead WE et al. Tricyclic antidepressant prescribing for nonpsychiatric disorders. *J Fam Pract* 33(1) 24-32, July 1991.

Lawhorne LW. Lincomycin injection for upper respiratory tract infection: a compilation of findings in a rural clinic with analysis of a national data base. *Fam Med* 23(2): 112-6. February 1991.

Hohmann AA et al. Psychotropic medication prescription in U.S. ambulatory care. *DICP Ann Pharmacother* 1991;25;85-89.

Larson DB, Lyons JS, Hohmann AA, et al. Psychotropics prescribed to the US elderly in the early and mid 1980s: prescribing patterns of primary care practitioners, psychiatrists, and other physicians. *Int J Geriatr Psychiatry* 1991; 6(2):63-70.

Hohmann AA. Gender bias in psychotropic drug prescribing in primary care. *Med Care* 1989; 27;478-490.

Kelleher KJ, Hohmann AA, Larson DB. Prescription of psychotropics to children in office-based practice. *Am J Dis Child* 143(7) 855-9. July 1989.

Beardsley RS et al. Prescribing of psychotropic medication by primary care physicians and psychiatrists. *Arch Gen Psychiatry* 1988;45:1117-1119.

Verbrugge LM, Steiner RP. Prescribing drugs to men and women. *Health Psychology* 4(1):79-98, 1985.

Knapp DA et al. Drug prescribing for ambulatory patients 85 years of age and older. *J Am Geriatr Soc* 32(2):138-43, 1984.

#### **7a. OTHER CHARACTERISTICS OF OFFICE VISITS - NCHS REPORTS**

Nurse Practitioners, Certified Nurse Midwives, and Physician Assistants in Physician Offices (Data from the 2009 NAMCS) [Data Brief No. 69]

Characteristics of prepaid plan visits to office-based physicians: 1991 [ADR No. 269]

#### **7b. OTHER CHARACTERISTICS OF OFFICE VISITS - JOURNAL ARTICLES USING NAMCS DATA**

Oronce CIA, Fendrick AM, Ladapo JA, Sarkisian C, Mafi JN. The Utilization and Costs of Grade D USPSTF Services in Medicare, 2007-2016. *J Gen Intern Med.* 2021 Apr 14;1-8. doi: 10.1007/s11606-021-06784-8. Online ahead of print. PMID: 33852141 Free PMC article.

Kurtzman ET, Barnow BS. [Do Teams Improve the Quality of Ambulatory Care?](#) *J Ambul Care Manage.* 2020 Dec 29; Publish Ahead of Print. doi: 10.1097/JAC.0000000000000372. Online ahead of print. *J Ambul Care Manage.* 2020. PMID: 33394817

Geissler KH, Pearlman J, Attanasio LB. Physician Referrals During Prenatal Care. *Matern Child Health J.* 2021 Oct 7. doi: 10.1007/s10995-021-03236-x. Online ahead of print. PMID: 34618308

Jabbarpour Y, Jetty A, Westfall M, Westfall J. Not Telehealth: Which Primary Care Visits Need In-Person Care? *J Am Board Fam Med.* 2021 Feb;34(Suppl):S162-S169. doi: 10.3122/jabfm.2021.S1.200247. PMID: 33622832

Jetty A, Jabbarpour Y, Westfall M, Kamerow DB, Petterson S, Westfall JM. Capacity of Primary Care to Deliver Telehealth in the United States. *J Am Board Fam Med.* 2021 Feb;34(Suppl):S48-S54. doi: 10.3122/jabfm.2021.S1.200202. PMID: 33622818

Alammari D, Banta JE, Shah H, Reibling E, Ramadan M. Meaningful Use of Electronic Health Records and Ambulatory Healthcare Quality Measures. *Cureus.* 2021 Jan 31;13(1):e13036. doi: 10.7759/cureus.13036. PMID: 33665057

Geissler K, Ranchoff BL, Cooper MI, Attanasio LB. Association of Insurance Status With Provision of Recommended Services During Comprehensive Postpartum Visits. *JAMA Netw Open.* 2020 Nov 2;3(11):e2025095. doi: 10.1001/jamanetworkopen.2020.25095. PMID: 33170263 Free PMC article.

Montvida O, Dibato JE, Paul S. Evaluating the Representativeness of US Centricity Electronic Medical Records With Reports From the Centers for Disease Control and Prevention: Comparative Study on Office Visits and Cardiometabolic Conditions. *JMIR Med Inform.* 2020 Jun 3;8(6):e17174. doi: 10.2196/17174.

Heisey-Grove DM, Carretta HJ. Disparities in Secure Messaging Uptake Between Patients and Physicians: Longitudinal Analysis of Two National Cross-Sectional Surveys. *J Med Internet Res.* 2020 May 1;22(5):e12611. doi: 10.2196/12611.

Pearson WS, Spicknall IH, Cramer R, Jenkins WD. Medicaid Coverage of Sexually Transmitted Disease Service Visits. *Am J Prev Med.* 2019 Jul;57(1):51-56. doi: 10.1016/j.amepre.2019.02.019. Epub 2019 May 22.

Baker NA, Feller H, Freburger J. Does insurance coverage affect use of tests and treatments for working age individuals with carpal tunnel syndrome in the United States? Analysis of the National Ambulatory Medical Care Survey (2005-2014). *Arch Phys Med Rehabil.* 2019 Apr 16. pii: S0003-9993(19)30244-8. doi: 10.1016/j.apmr.2019.03.014. [Epub ahead of print]

Benedict K, Jackson BR, Chiller T, Beer KD. Estimation of direct healthcare costs of fungal diseases in the United States. *Clin Infect Dis*. 2018 Sep 10. doi: 10.1093/cid/ciy776. [Epub ahead of print]

Bachhuber MA, Saloner B, LaRochelle M, Merlin JS, Maughan BC, Polsky D, Shaparin N, Murphy SM. Physician Time Burden Associated with Querying Prescription Drug Monitoring Programs. *Pain Med*. 2018 Mar 30. doi: 10.1093/pm/pny053. [Epub ahead of print]

Yang BK, Trinkoff AM, Zito JM, Burcu M, Safer DJ, Storr CL, Johantgen ME, Idzik S. Nurse Practitioner Independent Practice Authority and Mental Health Service Delivery in U.S. Community Health Centers. *Psychiatr Serv*. 2017 Jun 15:appips201600495. doi: 10.1176/appi.ps.201600495. [Epub ahead of print]

Barnett ML, Linder JA, Clark CR, Sommers BD. Low-Value Medical Services in the Safety-Net Population. *JAMA Intern Med*. 2017 Apr 10. doi: 10.1001/jamainternmed.2017.0401. [Epub ahead of print]

Mafi JN, Wee CC, Davis RB, Landon BE. Association of Primary Care Practice Location and Ownership With the Provision of Low-Value Care in the United States. *JAMA Intern Med*. 2017 Apr 10. doi: 10.1001/jamainternmed.2017.0410. [Epub ahead of print]

Kurtzman ET, Barnow BS, Johnson JE, Simmens SJ, Infeld DL, Mullan F. Does the Regulatory Environment Affect Nurse Practitioners' Patterns of Practice or Quality of Care in Health Centers? *Health Serv Res*. 2017 Feb;52 Suppl 1:437-458. doi: 10.1111/1475-6773.12643.

Kurtzman ET, Barnow BS. A Comparison of Nurse Practitioners, Physician Assistants, and Primary Care Physicians' Patterns of Practice and Quality of Care in Health Centers. *Med Care*. 2017 Feb 23. doi: 10.1097/MLR.0000000000000689. [Epub ahead of print]

Katerndahl D, Wood R, Jaen CR. Measuring interdependence in ambulatory care. *J Eval Clin Pract*. 2015 Dec 11. doi: 10.1111/jep.12491. [Epub ahead of print]

Basu S, Phillips RS, Bitton A, Song Z, Landon BE. Medicare Chronic Care Management Payments and Financial Returns to Primary Care Practices: A Modeling Study. *Ann Intern Med*. 2015 Sep 22. doi: 10.7326/M14-2677. [Epub ahead of print]

Morgan P, Everett CM, Hing E. Time spent with patients by physicians, nurse practitioners, and physician assistants in community health centers, 2006-2010. *Healthc (Amst)*. 2014 Dec;2(4):232-7. doi: 10.1016/j.hjdsi.2014.09.009. Epub 2014 Oct 31.

Morgan P, Everett C, Hing E. Nurse practitioners, physician assistants, and physicians in community health centers, 2006-2010. *Healthc (Amst)*. 2015 Jun;3(2):102-7. doi: 10.1016/j.hjdsi.2014.06.002. Epub 2014 Aug 14.

Stockmann C, Hersh AL, Sherwin CM, Spigarelli MG. Alignment of United States funding for cardiovascular disease research with deaths, years of life lost, and hospitalizations. *Int J Cardiol*. 2014 Jan 5. pii: S0167-5273(13)02307-3. doi: 10.1016/j.ijcard.2013.12.095. [Epub ahead of print] No abstract available.

Haggins A, Patrick S, Demonner S, Davis MM. When Coverage Expands: Children's Health Insurance Program as a Natural Experiment in Use of Health Care Services. *Acad Emerg Med*. 2013 Oct;20(10):1026-32. doi: 10.1111/acem.12236.

Aliu O, Sun G, Burke J, Chung KC, Davis MM. Specialist participation in healthcare delivery transformation: influence of patient self-referral. *Am J Manag Care*. 2014 Jan;20(1):e22-6.



- Johnson NB, Hayes LD, Brown K, Hoo EC, Ethier KA. CDC National Health Report: Leading Causes of Morbidity and Mortality and Associated Behavioral Risk and Protective Factors-United States, 2005-2013. *MMWR Surveill Summ.* 2014 Oct 31;63:3-27.
- Shaw MK, Davis SA, Fleischer AB, Feldman SR. The duration of office visits in the United States, 1993 to 2010. *Am J Manag Care.* 2014 Oct;20(10):820-6.
- Mahboubi H, Salibian AA, Wu EC, Patel MS, Armstrong WB. The role and utilization of electronic medical records in ambulatory otolaryngology. *Laryngoscope.* 2013 Apr 25. doi: 10.1002/lary.24104. [Epub ahead of print]
- Winchester BR, Watkins SC, Brahm NC, Harrison DL, Miller MJ. Mental Health Treatment Associated with Community-Based Depression Screening: Considerations for Planning Multidisciplinary Collaborative Care. *Ann Pharmacother.* 2013 Jun;47(6):797-804. Epub 2013 May 14.
- Kulchaitanaroaj P, Brooks JM, Ardery G, Newman D, Carter BL. Incremental costs associated with physician and pharmacist collaboration to improve blood pressure control. *Pharmacotherapy.* 2012 Aug;32(8):772-80. doi: 10.1002/j.1875-9114.2012.01103.x.
- Guy GP Jr, Richardson LC. Visit duration for outpatient physician office visits among patients with cancer. *Am J Manag Care.* 2012 May;18(2 Spec No.):SP49-56.
- Barnett ML, Song Z, Landon BE. Trends in physician referrals in the United States, 1999-2009. *Arch Intern Med.* 2012 Jan 23;172(2):163-70.
- Samal L, Linder JA, Lipsitz SR, Hicks LS. Electronic health records, clinical decision support, and blood pressure control. *Am J Manag Care.* 2011 Sep;17(9):626-32.
- Tsai AG, Abbo ED, Ogden LG. The Time Burden of Overweight and Obesity in Primary Care. *BMC Health Serv Res.* 2011 Aug 17;11(1):191. [Epub ahead of print]
- Migongo AW, Charnigo R, Love MM, Kryscio R, Fleming ST, Pearce KA. Factors Relating to Patient Visit Time With a Physician. *Med Decis Making.* 2011 Mar 10. [Epub ahead of print]
- Abbo ED, Zhang Q, Zelder M, Huang ES. The Increasing Number of Clinical Items Addressed During the Time of Adult Primary Care Visits. *J Gen Intern Med.* 2008 Oct 2. [Epub ahead of print]
- Gao X, Outley J, Botteman M, Spalding J, Simon JA, Pashos CL. Economic burden of endometriosis. *Fertil Steril.* Dec;86(6):1561-72. Epub 2006 Oct 23.
- Coyne KS, Paramore C, Grandy S, Mercader M, Reynolds M, Zimetbaum P. Assessing the direct costs of treating nonvalvular atrial fibrillation in the United States. *Value Health.* 2006 Sep-Oct;9(5):348-56.
- Gottschalk A, Flocke SA. Time spent in face-to-face patient care and work outside the examination room. *Ann Fam Med.* 2005 Nov-Dec;3(6):488-93.
- Coco A, Mainous AG. Relation of time spent in an encounter with the use of antibiotics in pediatric office visits for viral respiratory infections. *Arch Pediatr Adolesc Med.* 2005 Dec;159(12):1145-9.
- Burt CW, Sisk JE. Which physicians and practices are using electronic medical records? *Health Aff (Millwood).* 2005 Sep-Oct;24(5):1334-43.
- Venkat AP, Coldiron B, Balkrishnan R, Camacho F, Hancox JG, Fleischer AB Jr, Feldman SR. Lower adverse event and mortality rates in physician offices compared with ambulatory surgery centers: a reappraisal of Florida adverse event data. *Dermatol Surg.* 2004 Dec;30(12 Pt 1):1444-53.

Feldman SR, Fleischer AB, Shaffer CL, Kiang SH, Williford PM, Lupton FA, Chen G. Coding Multiple Diagnoses for Patient Visits at Which Procedures Were Performed: No Evidence for Abuse by Physicians. *Dermatol Surg* 2003 Feb;29(2):150-154

Hu P, Rueben DB. Effects of managed care on the length of time that elderly patients spend with physicians during ambulatory visits. *Medical Care* 2002 40(7):606-13

Javitz HS, Ward MM, Farber E, Nail L, Vallow SG. The direct cost of care for psoriasis and psoriatic arthritis in the United States. *J Am Acad Dermatol* 2002 Jun;46(6):850-60

Bernstein AB, Hing E, Burt CW, Hall MJ. Trend data on medical encounters: tracking a moving target. *Health Aff (Millwood)*. 2001 Mar-Apr;20(2):58-72.

Mechanic D, McAlpine DD, Rosenthal M. Are patients' office visits with physicians getting shorter? *N Engl J Med* 344(3) January 18, 2001: 198-204.

Blumenthal D, Causino N, Chang YC, Culpepper L, Marder W, Saglam D, Stafford R, Starfield B. The duration of ambulatory visits to physicians. *J Fam Pract* 1999 Apr;48(4):264-71.

Hodgson TA, Cohen AJ. Medical care expenditures for selected circulatory diseases: opportunities for reducing national health expenditures. *Med Care* 1999; 37:994-1012.

Forrest CB, Reid RJ. Passing the baton: HMOs' influence on referrals to specialty care. *Health Affairs* 1997; 16:157-162.

#### **8a. METHODOLOGY - NCHS REPORTS**

Halley MC, Rendle KA, Gugerty B, Lau DT, Luft HS, Gillespie KA. Collecting Practice-level Data in a Changing Physician Office-based Ambulatory Care Environment: A Pilot Study Examining the Physician induction interview Component of the National Ambulatory Medical Care Survey. *Vital Health Stat 2*. 2017 Nov;(176):1-18.

Hing E, Shimizu IM, Talwalkar A. Nonresponse bias in estimates from the 2012 National Ambulatory Medical Care Survey. National Center for Health Statistics. *Vital Health Stat 2*(171). 2016.

Office-based medical practices: methods and estimates from the National Ambulatory Medical Care Survey. *Adv Data*. 2007 Mar 12;(383):1-15.

Effects of Form Length and Item Format on Response Patterns and Estimates of Physician Office and Hospital Outpatient Department Visits--National Ambulatory Medical Care Survey and National Hospital Ambulatory Medical Care Survey, 2001. [Series 2, No. 139]

Sample Design, Sampling Variance, and Estimation Procedures [Series 2, No. 108]

The Collection and Processing of Drug Information: 1980 [Series 2, No. 90]

A Reason for Visit Classification for Ambulatory Care, 1977 [Series 2, No. 78]

Symptom Classification [Series 2, No. 63]

Background and Methodology [Series 2, No. 61]

#### **8b. METHODOLOGY - JOURNAL ARTICLES USING NAMCS DATA**

Vernacchio L, Herigon JC, Hatoun J, Patane LB, Correa ET. The Antibiotic Likelihood Index: A New Measure of Antimicrobial Stewardship for Pediatric Primary Care Based on Reason for Visit. *J Pediatric Infect Dis Soc*. 2021 Dec 18;piab110. doi: 10.1093/jpids/piab110. Online ahead of print. PMID: 34922373

Weissman AS, Ranpariya V, Fleischer AB Jr, Feldman SR. How the National Ambulatory Medical Care Survey has been used to identify health disparities in the care of patients in the United States. *J Natl Med Assoc.* 2021 Apr 17;S0027-9684(21)00054-7. doi: 10.1016/j.jnma.2021.03.007. Online ahead of print. PMID: 33879357 Review.

Ward BW. `kg_nchs`: A command for Korn-Graubard confidence intervals and National Center for Health Statistics' Data Presentation Standards for Proportions. *Stata J.* 2019 Sep;19(3):510-522. doi: 10.1177/1536867X19874221. Epub 2019 Sep 20.

Baker AJ, Raymond MR, Haist SA, Boulet JR. Using National Health Care Databases and Problem-Based Practice Analysis to Inform Integrated Curriculum Development. *Acad Med.* 2017 Apr;92(4):448-454. doi: 10.1097/ACM.0000000000001456.

Bellmunt AM, Roberts R, Lee WT, Schulz K, Pynnonen MA, Crowson MG, Witsell D, Parham K, Langman A, Vambutas A, Ryan SE, Shin JJ. Does an Otolaryngology-Specific Database Have Added Value? A Comparative Feasibility Analysis. *Otolaryngol Head Neck Surg.* 2016 Jul;155(1):56-64. doi: 10.1177/0194599816651036.

Pan Q, Wei R. Fraction of Missing Information ( $\gamma$ ) at Different Missing Data Fractions in the 2012 NAMCS Physician Workflow Mail Survey. *Appl Math (Irvine).* 2016 Jun;7(10):1057-1067. Epub 2016 Jun 15.

Lewis T, Goldberg E, Schenker N, Beresovsky V, Schappert S, Decker S, Sonnenfeld N, Shimizu I. The Relative Impacts of Design Effects and Multiple Imputation on Variance Estimates: A Case Study with the 2008 National Ambulatory Medical Care Survey. *Journal of Official Statistics.* Volume 30, No. 1, pp. 147–161. Epub Feb 2014. <http://www.degruyter.com/view/j/jos.2014.30.issue-1/issue-files/jos.2014.30.issue-1.xml>

Sakshaug JW, West BT. Important Considerations When Analyzing Health Survey Data Collected Using a Complex Sample Design. *Am J Public Health.* 2013 Nov 14. [Epub ahead of print]

Diaz R, Behr JG, Tulpule M. A System Dynamics Model for Simulating Ambulatory Health Care Demands. *Simul Healthc.* 2012 Jun 20. [Epub ahead of print]

Crawford AG, Cote C, Couto J, Daskiran M, Gunnarsson C, Haas K, Haas S, Nigam SC, Schuette R, Yaskin J. Comparison of GE Centricity electronic medical record database and national ambulatory medical care survey findings on the prevalence of major conditions in the United States. *Popul Health Manag.* 2010 Jun;13(3):139-50

Burt CW, Hing E. Making patient-level estimates from medical encounter records using a multiplicity estimator. *Stat Med.* 2007 Jan 15; [Epub ahead of print]

Ashish K. Jha, Timothy G. Ferris, Karen Donelan, Catherine DesRoches, Alexandra Shields, Sara Rosenbaum, and David Blumenthal. "How Common Are Electronic Health Records In The United States? A Summary Of The Evidence" *Health Affairs* 25 (2006): w496–w507.

Pearce KA, Love MM, Barron MA, Matheny SC, Mahfoud Z. How and why to study the practice content of a practice-based research network. *Ann Fam Med.* 2004 Sep-Oct;2(5):425-8.

Pace WD, Dickinson LM, Staton EW. Seasonal variation in diagnoses and visits to family physicians. *Ann Fam Med.* 2004 Sep-Oct;2(5):411-7.

Gilchrist VJ, Stange KC, Flocke SA, McCord G, Bourguet CC. A Comparison of the National Ambulatory Medical Care Survey (NAMCS) Measurement Approach With Direct Observation of Outpatient Visits. *Medical Care* 42(3), March 2004, 276-280.

Hing E, Gousen S, Shimizu I, Burt C. Guide to Using Masked Design Variables to Estimate Standard Errors in Public Use Files of the National Ambulatory Medical Care Survey and the National Hospital Ambulatory Medical Care Survey. *Inquiry*. 40(4):401-415. Winter 2003/2004.

Jenkins ML. Toward national comparable nurse practitioner data: proposed data elements, rationale, and methods. *J Biomed Inform*. 2003 Oct;36(4-5):342-50.

Machlin SR, Valluzzi JL, Chevarley M, et al. Measuring ambulatory health care use in the United States: A comparison of 1996 estimates across four Federal surveys. *Journal of Economic and Social Measurement*. 2001, 27, 57-69.

Baker DW, Shapiro MF, Schur CL, Freeman H. A revised measure of symptom-specific health care use. *Soc Sci Med* 1998 Nov; 47(10):1601-9. [Uses the NAMCS Reason for Visit Classification system]

Greenhouse DL, Probst JC. After-hours telephone calls in a family practice residency: volume, seriousness, and patient satisfaction. *Fam Med* 1995; 27:525-30. [Uses the NAMCS Reason for Visit Classification system.]

Ferguson JA, Corey PM. Adjusting for clustering in survey research. *DICP* 24(3) 310-3. March 1990.

Schneeweiss R et al. Diagnosis clusters. A new tool for analyzing the content of ambulatory medical care. *Med Care* 21(1): 105-22. Jan. 1983.

Lion J, Altman S. Case-mix differences between hospital outpatient departments and private practice. *Health Care Financing Review* Volume 4, Number 1, September 1982.

Verbrugge LM. NCHS data and studies of differential morbidity and mortality. *Res Aging* 1981 Dec;3(4):429-58

DeLozier JE. The design and methods of the National Ambulatory Medical Care Survey. *Medical Group Management* January/February 1974. Vol 12. No. 2: 5-7.

### **8c. METHODOLOGY - OTHER PUBLICATIONS USING NAMCS DATA**

Health Information Technology in the United States: The Information Base for Progress." Robert Wood Johnson Foundation. Annual report. 2006. [http://www.hitadoption.org/downloads/annual\\_report\\_2006.pdf](http://www.hitadoption.org/downloads/annual_report_2006.pdf)

Jenkins ML, White T, Lin S, Choi J, Du E. Piloting Web-based NAMCS Data Collection for Nurse-managed Centers. *Proc AMIA Symp*. 2003; 880.

Burt, CW. Use of geographic contextual variables in examining survey item validity. *Proceedings from the Seventh Conference on Health Survey Research Methods*. Marcie L. Cynamon and Richard A Kulka, eds. (Hyattsville: NCHS 2000) DHHS Publication No. PHS 01-1013, pp 205-210.

Fetter, RB. *Ambulatory Patient Related Groups*. New Haven: Yale University, 1980.

## 9a. PROVIDER CHARACTERISTICS – NCHS REPORTS

(NOTE: This topic differs from “Section 2, Physician Specialty, Practice Characteristics” in that it focuses on data at the provider level rather than the visit level.)

Yang NS, Ward BW, Cummings NA. Patient health information shared electronically by office-based physicians: United States, 2015. National Health Statistics Reports; no 115. Hyattsville, MD: National Center for Health Statistics. 2018.

Halley MC, Rendle KA, Gillespie KA, et al. Collecting practice-level data in a changing physician office-based ambulatory care environment: A pilot study examining the physician induction interview component of the National Ambulatory Medical Care Survey. National Center for Health Statistics. Vital Health Stat 2(176). 2017.

Hing E, Kurtzman E, Lau DT, Taplin C, Bindman AB. Characteristics of Primary Care Physicians in Patient-centered Medical Home Practices: United States, 2013. Natl Health Stat Report. 2017 Feb;(101):1-9.

State Variation in Electronic Sharing of Information in Physician Offices: United States, 2015 [Data Brief No. 261]

[State Variability in Supply of Office-based Primary Care Providers: United States, 2012](#) [Data Brief No. 151]

[Trends in Electronic Health Record System Use Among Office-based Physicians: United States, 2007–](#)

[2012](#)  [PDF - 350 KB] [NHSR No. 75]

[Use and Characteristics of Electronic Health Record Systems Among Office-based Physician Practices: United States, 2001–2013](#) [Data Brief No. 143]

[Physician Experience With Electronic Health Record Systems That Meet Meaningful Use Criteria: NAMCS Physician Workflow Survey, 2011](#) [Data Brief No. 129]

[Use and Characteristics of Electronic Health Record Systems Among Office-based Physician Practices: United States, 2001-2012](#) [Data Brief No. 111 ]

Physician Experience With Electronic Health Record Systems That Meet Meaningful Use Criteria: NAMCS Generalist and Specialty Physicians: Supply and Access, 2009–2010 [Data Brief No. 105]

[Physician Adoption of Electronic Health Record Systems: United States, 2011](#) [Data Brief No. 98]

[Electronic Health Record Systems and Intent to Apply for Meaningful Use Incentives Among Office-based Physician Practices: United States, 2001–2011](#) [Data Brief No. 79]

[Community Health Centers: Providers, Patients, and Content of Care](#) [Data Brief No. 65]

Electronic medical record use by office-based physicians and their practices: United States, 2007. [NHSR No. 23]

Use of Electronic Medical Records by Ambulatory Care Providers: United States, 2006 [NHSR No. 22]

Role of International Medical Graduates Providing Office-based Medical Care: United States, 2005-2006 [Data Brief No. 13]

Characteristics of office-based physicians and their practices: United States, 2005-06. [Series 13 No. 166]

Electronic Medical Record Use by Office-Based Physicians and Their Practices: United States, 2006 [ADR No. 393]

National Ambulatory Medical Care Survey: Terrorism Preparedness Among Office-Based Physicians, United States 2003-2004 [ADR No. 390]

Characteristics of office-based physicians and their practices: United States, 2003-04. [Series 13 No. 164]

Use of computerized clinical support systems in medical settings: United States, 2001-03 [ADR No. 353]

## 9b. PROVIDER CHARACTERISTICS – JOURNAL ARTICLES USING NAMCS DATA

Patel E, Kandrack R. Differences in the number of services provided by nurse practitioners and physicians during primary care visits. Nurs Outlook. 2021 Jun 4:S0029-6554(21)00101-9. doi: 10.1016/j.outlook.2021.04.003. Online ahead of print. PMID: 34092371

- Adigun AC, Qu H, Austin S. [Is type of practice setting associated with physician's cultural competency training? Analysis from the National Ambulatory Medical Care Survey.](#) Health Educ Res. 2020 Dec 12;cyaa048. doi: 10.1093/her/cyaa048. Online ahead of print. Health Educ Res. 2020. PMID: 33313769
- Mainous AG 3rd, Xie Z, Yadav S, Williams M, Blue AV, Hong YR. Physician Cultural Competency Training and Impact on Behavior: Evidence From the 2016 National Ambulatory Medical Care Survey. Fam Med. 2020 Sep;52(8):562-569. doi: 10.22454/FamMed.2020.163135. PMID: 32931004
- Lau DT. Is prescribing by PAs and NPs comparable to physician prescribing? JAAPA. 2019 Feb;32(2):52.
- Hong YR, Turner K, Yadav S, Huo J, Mainous AG 3rd. Trends in e-visit adoption among U.S. office-based physicians: Evidence from the 2011-2015 NAMCS. Int J Med Inform. 2019 Sep;129:260-266. doi: 10.1016/j.ijmedinf.2019.06.025. Epub 2019 Jun 25.
- Wu SS, Chan KS, Bae J, Ford EW. Electronic clinical reminder and quality of primary diabetes care. Prim Care Diabetes. 2018 Sep 12. pii: S1751-9918(18)30297-3. doi: 10.1016/j.pcd.2018.08.007. [Epub ahead of print]
- Du JY, Rascoe AS, Marcus RE. The Growing Executive-Physician Wage Gap in Major US Nonprofit Hospitals and Burden of Nonclinical Workers on the US Healthcare System. Clin Orthop Relat Res. 2018 Aug 10. doi: 10.1097/CORR.000000000000394. [Epub ahead of print]
- King J, Patel V, Jamoom E, DesRoches C. The role of health IT and delivery system reform in facilitating advanced care delivery. Am J Manag Care. 2016 Apr;22(4):258-65.
- Bae J, Encinosa WE. National estimates of the impact of electronic health records on the workload of primary care physicians. BMC Health Serv Res. 2016 May 10;16(1):172. doi: 10.1186/s12913-016-1422-6.
- Bae J, Huerta TR, Ford EW. Cardiovascular disease documentation and counseling in electronic medical records. Prev Med. 2016 Mar 23;88:27-32. doi: 10.1016/j.ypmed.2016.03.017. [Epub ahead of print]
- Bae J, Hockenberry JM, Rask KJ, Becker ER. Evidence that electronic health records can promote physician counseling for healthy behaviors. Health Care Manage Rev. 2016 Apr 5. [Epub ahead of print]
- Hsiao C-J, King J, Hing E, Simon AE. The Role of Health Information Technology in Care Coordination in the United States. Medical Care. 2015 Feb; 53(2): 184-190.
- Decker SL. Acceptance of New Medicaid Patients by Primary Care Physicians and Experiences with Physician Availability among Children on Medicaid or the Children's Health Insurance Program. Health Serv Res. 2015 Feb 13. doi: 10.1111/1475-6773.12288. [Epub ahead of print]
- Jamoom E, Patel V, King J, Furukawa MF. Physician Experience With Electronic Health Record Systems That Meet Meaningful Use Criteria: NAMCS Physician Workflow Survey, 2011. NCHS Data Brief. 2013 Sep;(129):1-8.
- Patel V, Swain MJ, King J, Furukawa MF. Physician capability to electronically exchange clinical information, 2011. Am J Manag Care. 2013 Oct;19(10):835-43.
- Simon AE, Marsteller JA, Lin SX. Physician-patient race concordance from the physician perspective. J Natl Med Assoc. 2013 Summer;105(2):150-6.
- Patel V, Swain M, King J, Furukawa M. Physician Capability to Electronically Exchange Clinical Information, 2011. Am J Manag Care. 2013;19(10):835-843.

- Zwaanswijk M, Ploem MC, Wiesman FJ, Verheij RA, Friele RD, Gevers JK. Understanding health care providers' reluctance to adopt a national electronic patient record: an empirical and legal analysis. *Med Law*. 2013 Mar;32(1):13-31.
- Hsiao CJ, Jha AK, King J, Patel V, Furukawa MF, Mostashari F. Office-based physicians are responding to incentives and assistance by adopting and using electronic health records. *Health Aff (Millwood)*. 2013 Aug;32(8):1470-7. doi: 10.1377/hlthaff.2013.0323. Epub 2013 Jul 9.
- Decker SL. Two-thirds of primary care physicians accepted new medicaid patients in 2011-12: a baseline to measure future acceptance rates. *Health Aff (Millwood)*. 2013 Jul;32(7):1183-7. doi: 10.1377/hlthaff.2013.0361.
- Grinspan ZM, Banerjee S, Kaushal R, Kern LM. Physician specialty and variations in adoption of electronic health records. *Appl Clin Inform*. 2013 May 22;4(2):225-40. doi: 10.4338/ACI-2013-02-RA-0015. Print 2013.
- Hsiao CJ, Marsteller JA, Simon AE. Electronic Medical Record Features and Seven Quality of Care Measures in Physician Offices. *Am J Med Qual*. 2013 Apr 22. [Epub ahead of print]
- Mahboubi H, Salibian AA, Wu EC, Patel MS, Armstrong WB. Contributing factors to adoption of electronic medical records in otolaryngology offices. *Laryngoscope*. 2013 May 27. doi: 10.1002/lary.24205. [Epub ahead of print]
- Kokkonen EW, Davis SA, Lin HC, Dabade TS, Feldman SR, Fleischer AB Jr. Use of electronic medical records differs by specialty and office settings. *J Am Med Inform Assoc*. 2013 Mar 28. [Epub ahead of print]
- Patel V, Jamoom E, Hsiao CJ, Furukawa MF, Buntin M. Variation in Electronic Health Record Adoption and Readiness for Meaningful Use: 2008-2011. *J Gen Intern Med*. 2013 Feb 1. [Epub ahead of print]
- Xierali IM, Hsiao CJ, Puffer JC, Green LA, Rinaldo JC, Bazemore AW, Burke MT, Phillips RL Jr. The rise of electronic health record adoption among family physicians. *Ann Fam Med*. 2013 Jan;11(1):14-9. doi: 10.1370/afm.1461.
- Decker SL. In 2011 Nearly One-Third Of Physicians Said They Would Not Accept New Medicaid Patients, But Rising Fees May Help. *Health Aff August 2012 vol. 31 no. 8 1673-1679*. doi: 10.1377/hlthaff.2012.0294
- Li C. Use of Health Information Technology by Office-based Physicians: Comparison of Two Contemporaneous Public-Use Physician Surveys. *Perspect Health Inf Manag*. 2011;8:1f. Epub 2011 Oct 1.
- Furukawa MF. Electronic medical records and efficiency and productivity during office visits. *Am J Manag Care*. 2011 Apr;17(4):296-303.
- Romano MJ, Stafford RS. Electronic Health Records and Clinical Decision Support Systems: Impact on National Ambulatory Care Quality. *Arch Intern Med*. 2011 Jan 24. [Epub ahead of print]
- Maxson ER, Buntin MJ, Mostashari F. Using electronic prescribing transaction data to estimate electronic health record adoption. *Am J Manag Care*. 2010 Dec;16(12 Suppl HIT):e320-6.
- Li C, West-Strum D. Patient Panel of Underserved Populations and Adoption of Electronic Medical Record Systems by Office-Based Physicians. *Health Serv Res*. 45(4):963-984. Aug 2010.
- Keyhani S, Hebert PL, Ross JS, Federman A, Zhu CW, Siu AL. Electronic health record components and the quality of care. *Med Care*. 2008 Dec;46(12):1267-72.
- Linder JA, Ma J, Bates DW, Middleton B, Stafford RS. Electronic health record use and the quality of ambulatory care in the United States. *Arch Intern Med*. 2007 Jul 9;167(13):1400-5.

DesRoches CM et al. Electronic Health Records in Ambulatory Care — A National Survey of Physicians. *NEJM*. 2008 Jun 18. [Epub ahead of print]

Sciamanna CN, Rogers ML, Shenassa ED, Houston TK. Patient Access to U.S. Physicians Who Conduct Internet or E-mail Consults. *J Gen Intern Med*. 2007 Mar;22(3):378-81.



## NATIONAL HOSPITAL AMBULATORY MEDICAL CARE SURVEY

### 1a. NCHS SUMMARY REPORTS and DATA BRIEFS

NOTE: Beginning with 2008 NHAMCS data, the traditional summary reports are no longer available. Instead, short reports featuring new data focused on a particular topic are being published in the NCHS *Data Brief* series. Also available at the NAMCS/NHAMCS [website](#) are [web tables](#), starting with 2008 data, which include many of the tables previously published in the annual summary reports. The NCHS summary reports and data briefs cited below can be found [here](#).

#### Data Briefs

Cairns C, Ashman JJ, Kang K. [Emergency department visit rates by selected characteristics: United States, 2019](#). NCHS Data Brief, no 434. Hyattsville, MD: National Center for Health Statistics. 2022.

Davis D, Cairns C. [Emergency department visit rates for motor vehicle crashes by selected characteristics: United States, 2017–2018](#). NCHS Data Brief, no 410. Hyattsville, MD: National Center for Health Statistics. 2021.

Cairns C, Ashman JJ, Kang K. [Emergency Department Visit Rates by Selected Characteristics: United States, 2018](#). NCHS Data Brief. 2021 Mar;(401):1-8. PMID: 33814037

Rui P, Schappert SM. [Opioids prescribed at discharge or given during emergency department visits among adults in the United States, 2016](#). NCHS Data Brief, no 338. Hyattsville, MD: National Center for Health Statistics. 2019.

Hall MJ, Rui P, Schwartzman A. [Emergency department visits by patients aged 45 and over with diabetes: United States, 2015](#). NCHS Data Brief, no 301. Hyattsville, MD: National Center for Health Statistics. 2018.

Albert M, Rui P, McCaig LF. [Emergency department visits for injury and illness among adults aged 65 and over: United States, 2012–2013](#). NCHS data brief, no 272. Hyattsville, MD: National Center for Health Statistics. 2017.

[Expected Source of Payment at Emergency Department Visits for Adults Aged 18-64 for the United States and in the Five Most Populous States, 2012](#) [Data Brief No. 253]

[Emergency Department Use in the Country's Five Most Populous States and the Total United States, 2012](#). [Data Brief No. 252]

[Emergency Department Visits Related to Schizophrenia Among Adults Aged 18-64: United States, 2009-2011](#). [Data Brief No. 215]

[Emergency Department Visits for Drug Poisoning: United States, 2008–2011](#) [Data Brief No. 196]

[Trends in Emergency Department Visits for Ischemic Stroke and Transient Ischemic Attack: United States, 2001–2011](#) [Data Brief No. 194]

[Emergency Department Visits and Proximity to Patients' Residences, 2009–2010](#) [Data Brief No. 192]

[Progress with Electronic Health Record Adoption Among Emergency and Outpatient Departments: United States, 2006-2011](#) [Data Brief No. 187]

[Emergency department visits for motor vehicle traffic injuries: United States, 2010-2011](#). [Data Brief No. 185]

[Injury-related Emergency Department Visits by Children and Adolescents: United States, 2009–2010](#) [Data Brief No. 150]

[Emergency Department Visits by Persons Aged 65 and Over: United States, 2009–2010](#) [Data Brief No. 130]

[Wait Time for Treatment in Hospital Emergency Departments: 2009](#) [Data Brief No. 102]

[Blood Pressure Measurements at Emergency Department Visits by Adults: United States, 2007–2008](#) [Data Brief No. 72]

[Physician Assistant and Advance Practice Nurse Care in Hospital Outpatient Departments: United States, 2008–2009.](#) [Data Brief No. 77]

[Visits to Primary Care Delivery Sites: United States, 2008](#) [Data Brief No. 47]

[Emergency Department Visits for Chest Pain and Abdominal Pain: United States, 1999–2008](#) [Data Brief No. 43]

[Emergency Department Visitors and Visits: Who Used the Emergency Room in 2007?](#) [Data Brief, No. 38]  
[Health Care Utilization Among Adults Aged 55–64 Years: How Has It Changed Over the Past 10 Years?](#) [Data Brief No. 32]

## Summary Reports

Ashman JJ, Cairns C, DeFrances CJ, Schwartzman A. Ashman JJ, et al. [Respiratory Illness Emergency Department Visits in the National Hospital Care Survey and the National Hospital Ambulatory Medical Care Survey.](#) Natl Health Stat Report. 2021 Jan;(151):1–18. Natl Health Stat Report. 2021. PMID: 33541514

Jackson G, Brown AM, DeFrances C. [Opioid-involved Emergency Department Visits in the National Hospital Care Survey and the National Hospital Ambulatory Medical Care Survey.](#) Natl Health Stat Report. 2020 Dec;(149):1–15. Natl Health Stat Report. 2020. PMID: 33395383

Rui P, Ashman JJ, Akinseye A. Emergency department visits for injuries sustained during sports and recreational activities by patients aged 5–24 years, 2010–2016. National Health Statistics Reports; no 133. Hyattsville, MD: National Center for Health Statistics. 2019.

Characteristics of inpatient and emergency department encounters among patients with any listed diagnosis of Alzheimer disease. National Health Statistics Reports; no 121. Hyattsville, MD: National Center for Health Statistics. 2018.

Hall MJ, Schwartzman A, Zhang J, Liu X. Ambulatory Surgery Data From Hospitals and Ambulatory Surgery Centers: United States, 2010. Natl Health Stat Report. 2017 Feb;(102):1–15.

Akinbami LJ, Moorman JE, Liu X. Asthma prevalence, health care use, and mortality: United States, 2005–2009. Natl Health Stat Report. 2011 Jan 12;(32):1–14.

Ambulatory Medical Care Utilization Estimates for 2007 [Series 13 No. 169]

National Hospital Ambulatory Medical Care Survey: 2007 emergency department summary [NHSR No. 26]

National Hospital Ambulatory Medical Care Survey: 2006 Outpatient Department Summary [NHSR No. 4]

National Hospital Ambulatory Medical Care Survey: 2006 Emergency Department Summary [NHSR No. 7]

Ambulatory Medical Care Utilization Estimates for 2006 [NHSR No. 8]

National Hospital Ambulatory Medical Care Survey: 2005 Outpatient Department Summary [ADR No. 389]

Ambulatory Medical Care Utilization Estimates for 2005 [ADR. No. 388]

National Hospital Ambulatory Medical Care Survey: 2005 Emergency Department Summary [ADR No. 386]

Medication Therapy in Ambulatory Medical Care: United States, 2003–04 [Series 13, No. 163]

National Hospital Ambulatory Medical Care Survey: 2004 Emergency Department Summary [ADR No. 372]  
 National Hospital Ambulatory Medical Care Survey: 2004 Outpatient Department Summary [ADR No. 373]  
 Ambulatory Care Visits to Physician Offices, Hospital Outpatient Departments, and Emergency Departments: United States, 2001-2002 [Series 13, No. 159]  
 National Hospital Ambulatory Medical Care Survey: 2003 Outpatient Department Summary [ADR No. 366]  
 National Hospital Ambulatory Medical Care Survey: 2003 Emergency Department Summary [ADR No. 358]  
 Ambulatory Care Visits to Physician Offices, Hospital Outpatient Departments, and Emergency Departments: United States, 1999-2000 [Series 13, No. 157]  
 National Hospital Ambulatory Medical Care Survey: 2002 Outpatient Department Summary [ADR No. 345]  
 Characteristics of Emergency Departments Serving High Volumes of Safety-Net Patients: United States, 2000 [Series 13, No. 155]  
 National Hospital Ambulatory Medical Care Survey: 2002 Emergency Department Summary [ADR No. 340]  
 National Hospital Ambulatory Medical Care Survey: 2001 Outpatient Department Summary [ADR No. 338]  
 National Hospital Ambulatory Medical Care Survey: 2001 Emergency Department Summary [ADR No. 335]  
 National Hospital Ambulatory Medical Care Survey: 2000 Outpatient Department Summary [ADR No. 327]  
 National Hospital Ambulatory Medical Care Survey: 2000 Emergency Department Summary [ADR No. 326]  
 Trends in Hospital Emergency Department Utilization: United States, 1992-99 [Series 13, No. 150]  
 National Hospital Ambulatory Medical Care Survey: 1999 Outpatient Department Summary [ADR No. 321]  
 National Hospital Ambulatory Medical Care Survey: 1999 Emergency Department Summary [ADR No. 320]  
 National Hospital Ambulatory Medical Care Survey: 1998 Outpatient Department Summary [ADR No. 317]  
 National Hospital Ambulatory Medical Care Survey: 1998 Emergency Department Summary [ADR No. 313]  
 Ambulatory Care Visits to Physician Offices, Hospital Outpatient Departments, and Emergency Departments: United States, 1997 [Series 13, No. 143]  
 National Hospital Ambulatory Medical Care Survey: 1997 Outpatient Department Summary [ADR No. 307]  
 National Hospital Ambulatory Medical Care Survey: 1997 Emergency Department Summary [ADR No. 304]  
 Ambulatory Care Visits to Physician Offices, Hospital Outpatient Departments, and Emergency Departments: United States, 1996 [Series 13, No. 134]  
 National Hospital Ambulatory Medical Care Survey: 1996 Outpatient Department Summary [ADR No. 294]  
 National Hospital Ambulatory Medical Care Survey: 1996 Emergency Department Summary [ADR No. 293]  
 Ambulatory Care Visits to Physician Offices, Hospital Outpatient Departments, and Emergency Departments: United States, 1995 [Series 13, No. 129]  
 National Hospital Ambulatory Medical Care Survey: 1995 Outpatient Department Summary. [ADR No. 284]  
 National Hospital Ambulatory Medical Care Survey: 1995 Emergency Department Summary [ADR No. 285]  
 National Hospital Ambulatory Medical Care Survey, 1992 Emergency Department Summary [Series 13, No. 125]  
 National Hospital Ambulatory Medical Care Survey: 1994 Outpatient Department Summary. [ADR No. 276]  
 National Hospital Ambulatory Medical Care Survey: 1994 Emergency Department Summary [ADR No. 275]  
 National Hospital Ambulatory Medical Care Survey: 1993 Emergency Department Summary [ADR No. 271]  
 National Hospital Ambulatory Medical Care Survey: 1993 Outpatient Department Summary. [ADR No. 268]  
 National Hospital Ambulatory Medical Care Survey: 1992 Outpatient Department Summary. [ADR No. 248]  
 National Hospital Ambulatory Medical Care Survey: 1992 Emergency Department Summary. [ADR No. 245]

#### **1b. SUMMARY REPORTS – JOURNAL ARTICLES USING NHAMCS DATA**

Kody S, Cline A, Pereira FA. Dermatological trends in emergency medicine. *J Dermatolog Treat.* 2020 Dec 2:1-3. doi: 10.1080/09546634.2020.1853025. Online ahead of print. PMID: 33267625

Pomerantz A, Burke R, Friedman A, Burke L, Wolfe R, Smulowitz P. The Influence of Medicare for All on Reimbursement for Emergency Care Treat-and-Release Visits. *Ann Emerg Med.* 2020 May 24. pii: S0196-0644(20)30174-8. doi: 10.1016/j.annemergmed.2020.03.003. [Epub ahead of print]

Chou SC, Baker O, Schuur JD. Changes in Emergency Department Care Intensity from 2007-16: Analysis of the National Hospital Ambulatory Medical Care Survey. *West J Emerg Med.* 2020 Feb 21;21(2):209-216. doi: 10.5811/westjem.2019.10.43497.

- Chou S-H, Venkatesh AK, Trueger NS, Pitts SR. Primary Care Office Visits For Acute Care Dropped Sharply In 2002–15, While ED Visits Increased Modestly, *Health Affairs* 38, No. 2 (2019): 268–275. doi: 10.1377/hlthaff.2018.05184
- Hsia RY, Niedzwiecki M. Avoidable emergency department visits: a starting point. *Int J Qual Health Care*. 2017 Oct 1;29(5):642-645. doi: 10.1093/intqhc/mzx081.
- Marcozzi D, Carr B, Liferidge A, Baehr N, Browne B. Trends in the Contribution of Emergency Departments to the Provision of Health Care in the USA. *Int J Health Serv*. 2017 Jan 1:20731417734498. doi: 10.1177/0020731417734498. [Epub ahead of print]
- Seth Trueger N, Chua KP, Hussain A, Liferidge AT, Pitts SR, Pines JM. Incorporating Alternative Care Site Characteristics into Estimates of Substitutable ED Visits. *Med Care*. 2017 May 11. doi: 10.1097/MLR.0000000000000733. [Epub ahead of print]
- Barnett ML, Linder JA, Clark CR, Sommers BD. Low-Value Medical Services in the Safety-Net Population. *JAMA Intern Med*. 2017 Apr 10. doi: 10.1001/jamainternmed.2017.0401. [Epub ahead of print]
- Mafi JN, Wee CC, Davis RB, Landon BE. Association of Primary Care Practice Location and Ownership With the Provision of Low-Value Care in the United States. *JAMA Intern Med*. 2017 Apr 10. doi: 10.1001/jamainternmed.2017.0410. [Epub ahead of print]
- Pemberton MR, Bose J, Kilmer G, Kroutil LA, Forman-Hoffman VL, Gfroerer JC. Comparison of NSDUH Health and Health Care Utilization Estimates to Other National Data Sources. *CBHSQ Data Review*. Rockville (MD): Substance Abuse and Mental Health Services Administration (US); 2012-.
- Mohareb AM, Dugas AF, Hsieh YH. Changing epidemiology and management of infectious diseases in US EDs. *Am J Emerg Med*. 2016 Mar 11. pii: S0735-6757(16)00206-0. doi: 10.1016/j.ajem.2016.03.024. [Epub ahead of print]
- Dieleman JL, Baral R, Birger M, Bui A. et al. US Spending on Personal Health Care and Public Health, 1996-2013. December 27, 2016. *JAMA*. 2016;316(24):2627-2646. doi:10.1001/jama.2016.16885
- Kale MS, Bishop TF, Federman AD, Keyhani S. Trends in the Overuse of Ambulatory Health Care Services in the United States. *Arch Intern Med*. 2012 Dec 24;172(24):1811-1817. doi: 10.1001/2013.jamainternmed.1022. [Epub ahead of print]
- Owens PL, Barrett ML, Gibson TB, Andrews RM, Weinick RM, Mutter RL. Emergency Department Care in the United States: A Profile of National Data Sources. *Ann Emerg Med*. 2010 Jan 12. [Epub ahead of print]
- Pitts SR, Carrier ER, Rich EC, Kellerman AL. Where Americans Get Acute Care: Increasingly, It's Not At Their Doctor's Office. *Health Affairs*, 29, no. 9 (2010): 1620-1629. doi: 10.1377/hlthaff.2009.1026
- Tang N, Stein J, Hsia RY, Maselli JH, Gonzales R. Trends and characteristics of US emergency department visits, 1997-2007. *JAMA*. 2010 Aug 11;304(6):664-70.
- Wendel TD. Urgency, demographics, payer, and location in the emergency department: The National Hospital Ambulatory Medical Care Survey, 1994 (NHAMCS '94) *Annals of Emergency Medicine*, Volume 34, Issue 4, Part 2, October 1999, Page S20. Available online 7 June 2006. doi:10.1016/S0196-0644(99)80157-7
- Wendel TD. Validity of urgency of the emergency department visit in the National Hospital Ambulatory Medical Care Survey, 1994 (NHAMCS '94). *Annals of Emergency Medicine*, Volume 34, Issue 4, Part 2, October 1999, Page S19. Available online 7 June 2006. doi:10.1016/S0196-0644(99)80154-1

## 2a. PATIENT CHARACTERISTICS - NCHS REPORTS

[Injury-related Emergency Department Visits by Children and Adolescents: United States, 2009–2010](#)

[Data Brief No. 150]

Albert M, McCaig L, Ashman J. Emergency Department Visits by Persons Aged 65 and Over: United States, 2009–2010. [Data Brief, No. 130]

[Blood Pressure Measurements at Emergency Department Visits by Adults: United States, 2007–2008](#) [Data Brief No. 72]

[Emergency Department Visitors and Visits: Who Used the Emergency Room in 2007?](#) [Data Brief, No. 38]

[Health Care Utilization Among Adults Aged 55–64 Years: How Has It Changed Over the Past 10 Years?](#)

[Data Brief No. 32]

Burt CB, McCaig LF, Simon AE. Emergency department visits by persons recently discharged from U.S. hospitals. [NHSR No. 6]

Brett KM, Burt CW. Utilization of ambulatory medical care by women: United States, 1997–98. Vital Health Stat 13(149). 2001.

Freid VM, Makuc DM, Rooks RN. Ambulatory health care visits by children: principal diagnosis and place of visit. Vital Health Stat 13(137). 1998.

Wagner DK, Walstedt J, Jenkins L, Burnett C et al. Women: Work and Health. Vital Health Stat 3(31). 1997.

## 2b. PATIENT CHARACTERISTICS - JOURNAL ARTICLES USING NHAMCS DATA

### Pediatric Patients

Ramgopal S, Varma S, Janofsky S, Martin-Gill C, Marin JR. Pediatric Patients Brought by Emergency Medical Services to the Emergency Department: An Analysis From the National Hospital Ambulatory Medical Care Survey. *Pediatr Emerg Care*. 2022 Feb 1;38(2):e791-e798. doi: 10.1097/PEC.0000000000002355. PMID: 35100778

Phan MT, Tomaszewski DM, Arbuckle C, Yang S, Jenkins B, Fortier MA, Heyming T, Linstead E, Donaldson C, Kain Z. Evaluating the 0-10 Point Pain Scale on Adolescent Opioid Use in US Emergency Departments. *J Clin Med*. 2021 Dec 22;11(1):38. doi: 10.3390/jcm11010038. PMID: 35011778

Ramgopal S, Adler MD, Horvat CM. Application of the Improving Pediatric Sepsis Outcomes Definition for Pediatric Sepsis to Nationally Representative Emergency Department Data. *Pediatr Qual Saf*. 2021 Sep 24;6(5):e468. doi: 10.1097/pq9.0000000000000468. eCollection 2021 Sep-Oct. PMID: 35018312

Anderson JL, Oliveira J E Silva L, Funni SA, Bellolio F, Jeffery MM. Epidemiology of paediatric pain-related visits to emergency departments in the USA: a cross-sectional study. *BMJ Open*. 2021 Aug 16;11(8):e046497. doi: 10.1136/bmjopen-2020-046497.

Nash KA, Zima BT, Rothenberg C, Hoffmann J, Moreno C, Rosenthal MS, Venkatesh A. Prolonged Emergency Department Length of Stay for US Pediatric Mental Health Visits (2005-2015). *Pediatrics*. 2021 Apr 5:e2020030692. doi: 10.1542/peds.2020-030692. Online ahead of print. PMID: 33820850

Cavallaro SC, Monuteaux MC, Chaudhari PP, Michelson KA. [Use of Neuroimaging for Children With Seizure in General and Pediatric Emergency Departments](#). *J Emerg Med*. 2021 Jan 5:S0736-4679(20)31153-7. doi: 10.1016/j.jemermed.2020.10.044. Online ahead of print. *J Emerg Med*. 2021. PMID: 33419652

Collier EK, Yang JJ, Sangar S, Chen ST, Huang JT, Bach DQ. [Evaluation of emergency department utilization for dermatologic conditions in the pediatric population within the United States from 2009-2015](#). *Pediatr Dermatol*. 2020 Dec 18. doi: 10.1111/pde.14476. Online ahead of print. *Pediatr Dermatol*. 2020. PMID: 33336810

Ramgopal S, Aronson PL, Marin JR. United States' Emergency Department Visits for Fever by Young Children 2007-2017. *West J Emerg Med.* 2020 Oct 27;21(6):146-151. doi: 10.5811/westjem.2020.8.47455. PMID: 33207160  
Free PMC article.

Morrow A, Dongarwar D, Salihu HM. Health Disparities and Constipation Management among Pediatric Patients in the Emergency Department. *J Natl Med Assoc.* 2020 Jul 2:S0027-9684(20)30109-7. doi: 10.1016/j.jnma.2020.05.011. Online ahead of print.

Dayal P, Ruttan TK, Kisse J, Sigal IS, Marcin JP. Association of Insurance With Use of Emergency Medical Services Among Children. *Pediatr Emerg Care.* 2020 Sep;36(9):e500-e507. doi: 10.1097/PEC.0000000000001352. PMID: 29189593

Shapiro DJ, Fine AM. Patient Ethnicity and Pediatric Visits to the Emergency Department for Fever. *Pediatr Emerg Care.* 2019 Nov 8. doi: 10.1097/PEC.0000000000001945. [Epub ahead of print]

Hanna J, Brauer PR, Morse E, Berson E, Mehra S. Epidemiological analysis of croup in the emergency department using two national datasets. *Int J Pediatr Otorhinolaryngol.* 2019 Aug 13;126:109641. doi: 10.1016/j.ijporl.2019.109641. [Epub ahead of print]

Kirschen GW, Singer DD, Thode HC Jr, Singer AJ. Relationship between body temperature and heart rate in adults and children: A local and national study. *Am J Emerg Med.* 2019 Jul 18:158355. doi: 10.1016/j.ajem.2019.158355. [Epub ahead of print]

Hudgins JD, Porter JJ, Monuteaux MC, Bourgeois FT. Trends in Opioid Prescribing for Adolescents and Young Adults in Ambulatory Care Settings. *Pediatrics.* 2019 Jun;143(6). pii: e20181578. doi: 10.1542/peds.2018-1578.

Kline JN, Badolato GM, Goyal MK. Trends in Pediatric Poisoning-Related Emergency Department Visits: 2001-2011. *Pediatr Emerg Care.* 2019 Apr 9. doi: 10.1097/PEC.0000000000001817. [Epub ahead of print]

Lambrinakos-Raymond K, Ali S, Dubrovsky AS, Burstein B. Low Usage of Analgesics for Pediatric Concussion-Related Pain in US Emergency Departments Between 2007 and 2015. *J Pediatr.* 2019 Apr 4. pii: S0022-3476(19)30267-7. doi: 10.1016/j.jpeds.2019.02.035. [Epub ahead of print]

Kalb LG, Stapp EK, Ballard ED, Holiugue C, Keefer A, Riley A. Trends in Psychiatric Emergency Department Visits Among Youth and Young Adults in the US. *Pediatrics.* 2019 Mar 18. pii: e20182192. doi: 10.1542/peds.2018-2192. [Epub ahead of print]

Goto T, Camargo CA Jr, Faridi MK, Freishtat RJ, Hasegawa K. Machine Learning-Based Prediction of Clinical Outcomes for Children During Emergency Department Triage. *JAMA Netw Open.* 2019 Jan 4;2(1):e186937. doi: 10.1001/jamanetworkopen.2018.6937.

Hudgins JD, Neuman MI, Monuteaux MC, Porter J, Nelson KA. Provision of Guideline-Based Pediatric Asthma Care in US Emergency Departments. *Pediatr Emerg Care.* 2019 Jan 7. doi: 10.1097/PEC.0000000000001706. [Epub ahead of print]

Yang L, Hur K, Koempel J, Ference EH. Epistaxis health disparities in the United States pediatric population. *Int J Pediatr Otorhinolaryngol.* 2018 Nov;114:20-25. doi: 10.1016/j.ijporl.2018.08.025. Epub 2018 Aug 23.

Michelson KA, Lyons TW, Hudgins JD, Levy JA, Monuteaux MC, Finkelstein JA, Bachur RG. Use of a National Database to Assess Pediatric Emergency Care Across U.S. Emergency Departments. *Acad Emerg Med.* 2018 Jun 2. doi: 10.1111/acem.13489. [Epub ahead of print]

Niles LM, Goyal MK, Badolato GM, Chamberlain JM, Cohen JS. US Emergency Department Trends in Imaging for Pediatric Nontraumatic Abdominal Pain. *Pediatrics*. 2017 Sep 15. pii: e20170615. doi: 10.1542/peds.2017-0615. [Epub ahead of print]

Dayal P, Ruttan TK, Kisse J, Sigal IS, Marcin JP. Association of Insurance With Use of Emergency Medical Services Among Children. *Pediatr Emerg Care*. 2017 Nov 20. doi: 10.1097/PEC.0000000000001352. [Epub ahead of print]

Fahimi J, Kornblith AE, Kanzaria H, Herring A, Wang RC. Computed Tomography Use Plateaus Among Children With Emergency Visits for Abdominal Pain. *Pediatr Emerg Care*. 2017 Aug 14. doi: 10.1097/PEC.0000000000001261. [Epub ahead of print]

Caperell K, Rominger A. Monthly variation in pediatric visits for headache to US emergency departments. *J Investig Med*. 2017 Apr 28. pii: jim-2016-000387. doi: 10.1136/jim-2016-000387. [Epub ahead of print]

Owusu-Ansah S, Badaki-Makun O, Ngo TL. Mistaken Identity: Asthma and Croup in a Previously Healthy 9-Year-Old Male. *Pediatr Emerg Care*. 2017 Aug;33(8):573-575. doi: 10.1097/PEC.0000000000001217.

Chamberlain JM, Teach SJ, Hayes KL, Badolato G, Goyal MK. Practice Pattern Variation in the Care of Children With Acute Asthma. *Acad Emerg Med*. 2016 Jan 14. doi: 10.1111/acem.12857. [Epub ahead of print]

Pruitt Z, Pruitt RC. Children Covered by Medicaid/State Children's Health Insurance Program More Likely to Use Emergency Departments for Food Allergies. *Pediatr Emerg Care*. 2016 Jul 12. [Epub ahead of print]

Yackey KJ, Rominger AH. Are We Adequately Treating Pain in Children Who Present to US Emergency Departments?: Factors That Contribute to Pain Treatment in Pediatric Patients. *Pediatr Emerg Care*. 2016 Jun 1. [Epub ahead of print]

Shah S, Bourgeois F, Mannix R, Nelson K, Bachur R, Neuman MI. Emergency Department Management of Febrile Respiratory Illness in Children. *Pediatr Emerg Care*. 2016 Apr 26. [Epub ahead of print]

Chamberlain JM, Teach SJ, Hayes KL, Badolato G, Goyal MK. Practice Pattern Variation in the Care of Children With Acute Asthma. *Acad Emerg Med*. 2016 Jan 14. doi: 10.1111/acem.12857. [Epub ahead of print]

Fahimi J, Aurrecoechea A, Anderson E, Herring A, Alter H. Substance Abuse and Mental Health Visits Among Adolescents Presenting to US Emergency Departments. *Pediatr Emerg Care*. 2015 Apr 14. [Epub ahead of print]

Rasooly IR, Mullins PM, Alpern ER, Pines JM. US Emergency Department Use by Children, 2001-2010. *Pediatr Emerg Care*. 2014 Sep;30(9):602-7. doi: 10.1097/PEC.0000000000000204.

Lee HC, Bardach NS, Maselli JH, Gonzales R. Emergency department visits in the neonatal period in the United States. *Pediatr Emerg Care*. 2014 May;30(5):315-8. doi: 10.1097/PEC.0000000000000120.

Pittsenbarger ZE, Mannix R. Trends in pediatric visits to the emergency department for psychiatric illnesses. *Acad Emerg Med*. 2014 Jan;21(1):25-30. doi: 10.1111/acem.12282. Epub 2013 Dec 6.

Horeczko T, Green JP. Emergency department presentation of the pediatric systemic inflammatory response syndrome. *Pediatr Emerg Care*. 2013 Nov;29(11):1153-8. doi: 10.1097/PEC.0b013e3182a9e629.

Srinivasan S, Mannix R, Lee LK. Epidemiology of paediatric firearm injuries in the USA, 2001-2010. *Arch Dis Child*. 2013 Dec 13. doi: 10.1136/archdischild-2013-304642. [Epub ahead of print]

Kedia S, Ginde AA, Grubenhoff JA, Kempe A, Hershey AD, Powers SW. Monthly variation of United States pediatric headache emergency department visits. *Cephalalgia*. 2013 Dec 11. [Epub ahead of print]

- Sheridan DC, Meckler GD, Spiro DM, Koch TK, Hansen ML. Diagnostic Testing and Treatment of Pediatric Headache in the Emergency Department. *J Pediatr*. 2013 Aug 20. doi:pii: S0022-3476(13)00860-3. 10.1016/j.jpeds.2013.07.006. [Epub ahead of print]
- Goyal M, Hersh A, Luan X, Localio R, Trent M, Zaoutis T. National Trends in Pelvic Inflammatory Disease Among Adolescents in the Emergency Department. *J Adolesc Health*. 2013 May 19. doi:pii: S1054-139X(13)00191-2. 10.1016/j.jadohealth.2013.03.016. [Epub ahead of print]
- Simon AE, Lukacs SL, Mendola P. National Trends in Emergency Department Use of Urinalysis, Complete Blood Count, and Blood Culture for Fever Without a Source Among Children Aged 2 to 24 Months in the Pneumococcal Conjugate Vaccine 7 Era. *Pediatr Emerg Care*. 2013 Apr 18. [Epub ahead of print]
- Neuman MI, Shah SS, Shapiro DJ, Hersh AL. Emergency department management of childhood pneumonia in the United States prior to publication of national guidelines. *Acad Emerg Med*. 2013 Mar;20(3):240-6. doi: 10.1111/acem.12088.
- Cho CS, Shapiro DJ, Cabana MD, Maselli JH, Hersh AL. A National Depiction of Children With Return Visits to the Emergency Department Within 72 Hours, 2001-2007. *Pediatr Emerg Care*. 2012 Jun 28. [Epub ahead of print]
- Fortuna RJ, Halterman JS, Pulcino T, Robbins BW. Delayed Transition of Care: A National Study of Visits to Pediatricians by Young Adults. *Acad Pediatr*. 12(5):405-411. Sep-Oct 2012. 2012 Jun 17. [Epub ahead of print]
- Monuteaux MC, Lee L, Fleegler E. Children injured by violence in the United States: emergency department utilization, 2000-2008. *Acad Emerg Med*. 2012 May;19(5):535-40. doi: 10.1111/j.1553-2712.2012.01341.x.
- Case SD, Case BG, Olfson M, Linakis JG, Laska EM. Length of stay of pediatric mental health emergency department visits in the United States. *J Am Acad Child Adolesc Psychiatry*. 2011 Nov;50(11):1110-9. Epub 2011
- Richards ME, Hubble MW, Zwehl-Burke S. "Inappropriate" pediatric emergency medical services utilization redefined. *Pediatr Emerg Care*. 2011 Jun;27(6):514-8.
- Paul IM, Maselli JH, Hersh AL, Boushey HA, Nielson DW, Cabana MD. Antibiotic Prescribing During Pediatric Ambulatory Care Visits for Asthma. *Pediatrics*. 127(6):1014-1021. Jun 2011. 2011 May 23. [Epub ahead of print]
- Bekmezian A, Chung PJ, Cabana MD, Maselli JH, Hilton JF, Hersh AL. Factors Associated With Prolonged Emergency Department Length of Stay for Admitted Children. *Pediatr Emerg Care*. 2011 Jan 18. [Epub ahead of print]
- Shapiro DJ, Gonzales R, Cabana MD, Hersh AL. National trends in visit rates and antibiotic prescribing for children with acute sinusitis. *Pediatrics*. 2011 Jan;127(1):28-34. Epub 2010 Dec 27.
- Patel AI, Madsen KA, Maselli JH, Cabana MD, Stafford RS, Hersh AL. Underdiagnosis of Pediatric Obesity during Outpatient Preventive Care Visits. *Acad Pediatr*. 2010 November - December;10(6):405-409.
- Hambrook JT, Kimball TR, Khoury P, Cnota J. Disparities exist in the emergency department evaluation of pediatric chest pain. *Congenit Heart Dis*. 2010 May-Jun;5(3):285-91.
- Fortuna RJ, Robbins BW, Mani N, Halterman JS. Dependence on Emergency Care among Young Adults in the United States. *J Gen Intern Med*. 25(7):663-669. Jul 2010. 2010 Mar 20. [Epub ahead of print]
- Branum AM, Lukacs SL. Food Allergy Among Children in the United States. *Pediatrics*. 124(6):1549-1555. Nov 2009. 2009 Nov 16. [Epub ahead of print]



- Stevens J, Harman J, Pakalnis A, Lo W, Prescod J. Sociodemographic Differences in Diagnosis and Treatment of Pediatric Headache. *J Child Neurol*. 2009 Oct 6. [Epub ahead of print]
- Linakis JG, Chun TH, Mello MJ, Baird J. Alcohol-related visits to the emergency department by injured adolescents: a national perspective. *J Adolesc Health*. 2009 Jul;45(1):84-90. Epub 2009 Feb 28.
- Pont SJ, Grijalva CG, Griffin MR, Scott TA, Cooper WO. National Rates of Diarrhea-Associated Ambulatory Visits in Children. *J Pediatr*. 2009 Apr 23. [Epub ahead of print]
- Shah MN, Cushman JT, Davis CO, Bazarian JJ, Auinger P, Friedman B. The epidemiology of emergency medical services use by children: an analysis of the national hospital ambulatory medical care survey. *Prehosp Emerg Care*. 2008 Jul-Sep;12(3):269-76.
- Bourgeois FT, Shannon MW, Stack AM. "Left Without Being Seen": A National Profile of Children Who Leave the Emergency Department Before Evaluation. *Ann Emerg Med*. 2008 Apr 30. [Epub ahead of print]
- Bourgeois FT, Shannon MW. Emergency care for children in pediatric and general emergency departments. *Pediatr Emerg Care*. 2007 Feb;23(2):94-102.
- Rand CM, Shone LP, Albertin C, Auinger P, Klein JD, Szilagyi PG. National health care visit patterns of adolescents: implications for delivery of new adolescent vaccines. *Arch Pediatr Adolesc Med*. 2007 Mar;161(3):252-9.
- Grupp-Phelan J, Harman JS, Kelleher KJ. Trends in mental health and chronic condition visits by children presenting for care at U.S. emergency departments. *Public Health Rep*. 2007 Jan-Feb;122(1):55-61.
- Alpern ER, Stanley RM, Gorelick MH, Donaldson A, Knight S, Teach SJ, Singh T, Mahajan P, Goepf JG, Kuppermann N, Dean JM, Chamberlain JM; Pediatric Emergency Care Applied Research Network. Epidemiology of a pediatric emergency medicine research network: the PECARN Core Data Project. *Pediatr Emerg Care*. 2006 Oct;22(10):689-99.
- Simon TD, Bublitz Emsermann C, Dickinson LM, Hambidge SJ. Lower rates of emergency department injury visits among Latino children in the USA: no association with health insurance. *Inj Prev*. 2006 Aug;12(4):248-52.
- Drendel AL, Brousseau DC, Gorelick MH. Pain assessment for pediatric patients in the emergency department. *Pediatrics*. 2006 May;117(5):1511-8.
- Kimia A, Brownstein JS, Olson KL, Zak V, Bourgeois FT, Mandl KD. Lumbar Puncture Ordering and Results in the Pediatric Population: A Promising Data Source for Surveillance Systems. *Acad Emerg Med*. 2006 May 11; [Epub ahead of print]
- Goldstein AB, Horwitz SM. Child and Adolescent Psychiatric Emergencies in Nonsuicide-specific Samples: The State of the Research Literature. *Pediatr Emerg Care*. 2006 May;22(5):379-384.
- Simon TD, Bublitz C, Hambidge SJ. Emergency Department Visits Among Pediatric Patients for Sports-related Injury: Basic Epidemiology and Impact of Race/Ethnicity and Insurance Status. *Pediatr Emerg Care*. 2006 May;22(5):309-315.
- Miller MR, Gergen P, Honour M, Zhan C. Burden of Illness for Children and Where We Stand in Measuring the Quality of This Health Care. *Ambul Pediatr*. 2005 September-October;5(5):268-278.
- Ma J, Wang Y, Stafford RS. U.S. adolescents receive suboptimal preventive counseling during ambulatory care. *J Adolesc Health*. 2005 May;36(5):441.

Sills MR, Bland SD. Summary Statistics for Pediatric Psychiatric Visits to US Emergency Departments, 1993-1999. *Pediatrics* 2002 Oct;110(4):E40-0

Powell EC, Tanz RR. Adjusting our view of injury risk: the burden of nonfatal injuries in infancy. *Pediatrics* 2002 Oct;110(4):792-6.

Marcell AV, Klein JD, Fischer I, Allan MJ, Kokotailo PK. Male adolescent use of health care services: Where are the boys? *Journal of Adolescent Health* 30: (1) 35-43 JAN 2002

Ziv A, Boulet JR, Slap GB. Emergency department utilization by adolescents in the United States. *Pediatrics* 1998 Jun;101(6):987-994

### **Adult Patients**

Tsoulis MW, Navetta-Modrov B, Thode HC Jr, Singer AJ. Concurrent asthma and chronic obstructive pulmonary disease in adult ED patients: A national perspective. *Am J Emerg Med.* 2021 Jun 15;49:216-225. doi: 10.1016/j.ajem.2021.05.081. Online ahead of print. PMID: 34144264

Kirschen GW, Singer DD, Thode HC Jr, Singer AJ. Relationship between body temperature and heart rate in adults and children: A local and national study. *Am J Emerg Med.* 2019 Jul 18:158355. doi: 10.1016/j.ajem.2019.158355. [Epub ahead of print]

Schrager J, Patzer R, Kim J, Pitts S, Chokshi F, Phillips J, Zhang X. Racial and Ethnic Differences in Diagnostic Imaging Utilization During Adult Emergency Department Visits in the United States, 2005 to 2014. *J Am Coll Radiol.* 2019 Mar 29. pii: S1546-1440(19)30305-9. doi: 10.1016/j.jacr.2019.03.002. [Epub ahead of print]

Kalb LG, Stapp EK, Ballard ED, Hologue C, Keefer A, Riley A. Trends in Psychiatric Emergency Department Visits Among Youth and Young Adults in the US. *Pediatrics.* 2019 Mar 18. pii: e20182192. doi: 10.1542/peds.2018-2192. [Epub ahead of print]

Bush H, Gerber LH, Stepanova M, Escheik C, Younossi ZM. Impact of healthcare reform on the payer mix among young adult emergency department utilizers across the United States (2005-2015). *Medicine (Baltimore).* 2018 Dec;97(49):e13556. doi: 10.1097/MD.00000000000013556.

Capp R, West DR, Doran K, Sauaia A, Wiler J, Coolman T, Ginde AA. Characteristics of Medicaid-Covered Emergency Department Visits Made by Nonelderly Adults: A National Study. *J Emerg Med.* 2015 Oct 5. pii: S0736-4679(15)00818-5. doi: 10.1016/j.jemermed.2015.07.043. [Epub ahead of print]

Bhattacharyya N, Kepnes LJ. Patterns of Care Before and After the Adult Sinusitis Clinical Practice Guideline. *Laryngoscope.* 2013 Feb 16. doi: 10.1002/lary.23980. [Epub ahead of print]

Reeves WC, Strine TW, Pratt LA, Thompson W, Ahluwalia I, Dhingra SS, McKnight-Eily LR, Harrison L, D'Angelo DV, Williams L, Morrow B, Gould D, Safran MA; Public Health Surveillance Program Office. Mental illness surveillance among adults in the United States. *MMWR Surveill Summ.* 2011 Sep 2;60 Suppl 3:1-32.

Hampton H. Experts Predict Visits by Baby Boomers Will Soon Strain Emergency Departments. *JAMA.* 2008;299(22):2613-2614 (doi:10.1001/jama.299.22.2613)

## Elderly Patients

Rubino A, Sanon M, Ganz ML, Simpson A, Fenton MC, Verma S, Hartry A, Baker RA, Duffy RA, Gwin K, Fillit H. Association of the US Food and Drug Administration Antipsychotic Drug Boxed Warning With Medication Use and Health Outcomes in Elderly Patients With Dementia. *JAMA Netw Open*. 2020 Apr 1;3(4):e203630. doi: 10.1001/jamanetworkopen.2020.3630.

Southerland LT, Hunold KM, Carpenter CR, Caterino JM, Mion LC. A National Dataset Analysis of older adults in emergency department observation units. *Am J Emerg Med*. 2018 Dec 13. pii: S0735-6757(18)30971-9. doi: 10.1016/j.ajem.2018.12.009. [Epub ahead of print]

Shankar KN, Liu SW, Ganz DA. Trends and Characteristics of Emergency Department Visits for Fall-Related Injuries in Older Adults, 2003-2010. *West J Emerg Med*. 2017 Aug;18(5):785-793. doi: 10.5811/westjem.2017.5.33615. Epub 2017 Jul 14.

Namen AM, Forest DJ, Huang KE, Feldman SR, Hazzard WR, Peters SP, Haponik EF. Physicians Report Sleep Apnea Infrequently in Older and Older Vulnerable Adults. *J Am Geriatr Soc*. 2017 May 4. doi: 10.1111/jgs.14929. [Epub ahead of print]

Evans CS, Hunold KM, Rosen T, Platts-Mills TF. Diagnosis of Elder Abuse in U.S. Emergency Departments. *J Am Geriatr Soc*. 2016 Oct 18. doi: 10.1111/jgs.14480.

Albrecht JS, Hirshon JM, McCunn M, Bechtold KT, Rao V, Simoni-Wastila L, Smith GS. Increased Rates of Mild Traumatic Brain Injury Among Older Adults in US Emergency Departments, 2009-2010. *J Head Trauma Rehabil*. 2015 Oct 16. [Epub ahead of print]

Marra EM, Mazer-Amirshahi M, Brooks G, van den Anker J, May L, Pines JM. Benzodiazepine Prescribing in Older Adults in U.S. Ambulatory Clinics and Emergency Departments (2001-10). *J Am Geriatr Soc*. 2015 Oct;63(10):2074-81. doi: 10.1111/jgs.13666. Epub 2015 Sep 29.

Hsiao CJ, Hing E. Emergency department visits and resulting hospitalizations by elderly nursing home residents, 2001-2008. *Res Aging*. 2014 Mar;36(2):207-27. doi: 10.1177/0164027512473488. Epub 2013 Jan 23.

Vogel JA, Ginde AA, Lowenstein SR, Betz ME. Emergency department visits by older adults for motor vehicle collisions. *West J Emerg Med*. 2013 Nov;14(6):576-81. doi: 10.5811/westjem.2013.2.12230.

Hsiao CJ, Hing E. Emergency department visits and resulting hospitalizations by elderly nursing home residents, 2001-2008. *Research on Aging*. 35(1) 2013. Published online 23 Jan 2013. DOI: 10.1177/0164027512473488. <http://roa.sagepub.com/content/early/2013/01/22/0164027512473488>

Pines JM, Mullins PM, Cooper JK, Feng LB, Roth KE. National trends in emergency department use, care patterns, and quality of care of older adults in the United States. *J Am Geriatr Soc*. 2013 Jan;61(1):12-7. doi: 10.1111/jgs.12072.

Platts-Mills TF, Hunold KM, Esserman DA, Sloane PD, McLean SA. Motor Vehicle Collision-related Emergency Department Visits by Older Adults in the United States. *Acad Emerg Med*. 2012 Jun 22. doi: 10.1111/j.1553-2712.2012.01383.x. [Epub ahead of print]

Platts-Mills TF, Esserman DA, Brown DL, Bortsov AV, Sloane PD, McLean SA. Older US Emergency Department Patients Are Less Likely to Receive Pain Medication Than Younger Patients: Results From a National Survey. *Ann Emerg Med*. 2011 Oct 25. [Epub ahead of print]

Bhattacharya R, Chatterjee S, Carnahan RM, Aparasu RR. Prevalence and Predictors of Anticholinergic Agents in Elderly Outpatients with Dementia. *Am J Geriatr Pharmacother*. 9(6):434-441. Dec 2011. 2011 Oct 25. [Epub ahead of print]

William J. Meurer, Tommy A. Potti, Kevin A. Kerber, Comilla Sasson, Michelle L. Macy, Brady T. West, Eve D. Losman. Potentially Inappropriate Medication Utilization in the Emergency Department Visits by Older Adults: Analysis From a Nationally Representative Sample (p 231-237) Published Online: Mar 1 2010 11:59AM

Roberts DC, McKay MP, Shaffer A. Increasing Rates of Emergency Department Visits for Elderly Patients in the United States, 1993 to 2003. *Ann Emerg Med*. 2008;51:769-774.

Shah MN, Bazarian JJ, Lerner EB, Fairbanks RJ, Barker WH, Auinger P, Friedman B. The Epidemiology of Emergency Medical Services Use by Older Adults: An Analysis of the National Hospital Ambulatory Medical Care Survey. *Acad Emerg Med* 2007 May;14(5): 441-447.

Wofford JL, et al. Emergency department utilization by the elderly: an analysis of the National Hospital Ambulatory Medical Care Survey. *Acad Emerg Med* 1996. July; 3(7): 694-9.

### **Gender**

Wilson TT, Chou SC, Becker S, Schuur JD, Beaudoin F. Evaluation of sex disparities in opioid use among ED patients with sickle cell disease, 2006-2015. *Am J Emerg Med*. 2021 Sep 21;50:597-601. doi: 10.1016/j.ajem.2021.09.023. Online ahead of print. PMID: 34592567.

Lopez R, Snair M, Arrigain S, Schold JD, Hustey F, Walker LE, Phelan MP. Sex-based differences in timely emergency department evaluations for patients with drug poisoning. *Public Health*. 2021 Sep 21;199:57-64. doi: 10.1016/j.puhe.2021.08.011. Online ahead of print. PMID: 34560476

Whang KA, Khanna R, Thomas J, Aguh C, Kwatra SG. Racial and Gender Differences in the Presentation of Pruritus. *Medicines (Basel)*. 2019 Sep 27;6(4). pii: E98. doi: 10.3390/medicines6040098.

Rost K, Hsieh YP, Xu S, Harman J. Gender Differences in Hospitalization After Emergency Room Visits for Depressive Symptoms. *J Womens Health (Larchmt)*. 2011 Mar 21. [Epub ahead of print]

Burris HH, Werler MM. U.S. Provider Reported Folic Acid or Multivitamin Ordering for Non-Pregnant Women of Childbearing Age: NAMCS and NHAMCS, 2005-2006. *Matern Child Health J*. 2010 Mar 5. [Epub ahead of print]

Suh DC, Lau H, Pokras SM, Choi IS, Valiyeva E. Sex differences in ambulatory visits for chronic obstructive pulmonary disease, based on the national ambulatory medical care survey and the national hospital ambulatory medical care survey from 1995 to 2004. *Respir Care*. 2008 Nov;53(11):1461-9.

Keyhani S, Scobie JV, Hebert PL, McLaughlin MA. Gender disparities in blood pressure control and cardiovascular care in a national sample of ambulatory care visits. *Hypertension*. 2008 Apr;51(4):1149-55. Epub 2008 Feb 7

Arnold AL, Milner KA, Vaccarino V. Sex and race differences in electrocardiogram use (The National Hospital Ambulatory Medical Care Survey). *American Journal of Cardiology*, 88: (9) 1037 Nov 1 2001.

### **Race/Ethnicity**

Khatri UG, Delgado MK, South E, Friedman A. Racial Disparities in the Management of Emergency Department Patients Presenting with Psychiatric Disorders. *Ann Epidemiol*. 2022 Feb 25:S1047-2797(22)00016-3. doi: 10.1016/j.annepidem.2022.02.003. Online ahead of print. PMID: 35227925

- Ribas Roca J, Everett T, Dongarwar D, Salihu HM. Racial-Ethnic Disparities in Benzodiazepine Prescriptions for Anxiety in US Emergency Departments. *J Racial Ethn Health Disparities*. 2022 Jan 6. doi: 10.1007/s40615-021-01224-z. Online ahead of print. PMID: 34993917
- Abdulai AB, Mukhtar F, Ehrlich M. Decreased Racial and Ethnic Disparities in Emergency Department Wait Time in the United States. *Med Care*. 2021 Nov 4. doi: 10.1097/MLR.0000000000001657. Online ahead of print. PMID: 34739416
- Al-Dulaimi R, Duong PA, Chan BY, Fuller MJ, Ross AB, Dunn DP. Revisiting racial disparities in ED CT utilization during the Affordable Care Act era: 2009-2018 data from the NHAMCS. *Emerg Radiol*. 2021 Oct 28. doi: 10.1007/s10140-021-01991-6. Online ahead of print. PMID: 34713355
- Phan MT, Tomaszewski DM, Arbuckle C, Yang S, Donaldson C, Fortier M, Jenkins B, Linstead E, Kain Z. Racial and ethnic disparities in opioid use for adolescents at US emergency departments. *BMC Pediatr*. 2021 May 31;21(1):252. doi: 10.1186/s12887-021-02715-y. PMID: 34059005 Free PMC article.
- Lu FQ, Hanchate AD, Paasche-Orlow MK. Racial/ethnic disparities in emergency department wait times in the United States, 2013-2017. *Am J Emerg Med*. 2021 Mar 26;47:138-144. doi: 10.1016/j.ajem.2021.03.051. Online ahead of print. PMID: 33812329
- Wallace JS, Mannix RC. Wallace JS, et al. [Racial Disparities in Diagnosis of Concussion and Minor Head Trauma and Mechanism of Injury in Pediatric Patients Visiting the Emergency Department](#). *J Pediatr*. 2021 Jan 29:S0022-3476(21)00091-3. doi: 10.1016/j.jpeds.2021.01.057. Online ahead of print. *J Pediatr*. 2021. PMID: 33524386
- Young T. Race and Insurance Impact on Hospital Admission From the Emergency Department for Patients Diagnosed With Heart Failure. *J Nurs Adm*. 2020 Dec;50(12):642-648. doi: 10.1097/NNA.0000000000000952. PMID: 33186003
- Zhang X, Carabello M, Hill T, Bell SA, Stephenson R, Mahajan P. Trends of Racial/Ethnic Differences in Emergency Department Care Outcomes Among Adults in the United States From 2005 to 2016. *Front Med (Lausanne)*. 2020 Jun 25;7:300. doi: 10.3389/fmed.2020.00300. eCollection 2020. PMID: 32671081
- Dennis JA. Racial/Ethnic Disparities in Triage Scores Among Pediatric Emergency Department Fever Patients. *Pediatr Emerg Care*. 2020 Mar 2. doi: 10.1097/PEC.0000000000002072. [Epub ahead of print]
- Udoetuk S, Dongarwar D, Salihu HM. Racial and Gender Disparities in Diagnosis of Malingering in Clinical Settings. *J Racial Ethn Health Disparities*. 2020 Mar 9. doi: 10.1007/s40615-020-00734-6. [Epub ahead of print]
- Zhang X, Carabello M, Hill T, He K, Friese CR, Mahajan P. Racial and Ethnic Disparities in Emergency Department Care and Health Outcomes Among Children in the United States. *Front Pediatr*. 2019 Dec 19;7:525. doi: 10.3389/fped.2019.00525. eCollection 2019.
- Shapiro DJ, Fine AM. Patient Ethnicity and Pediatric Visits to the Emergency Department for Fever. *Pediatr Emerg Care*. 2019 Nov 8. doi: 10.1097/PEC.0000000000001945. [Epub ahead of print]
- Whang KA, Khanna R, Thomas J, Aguh C, Kwatra SG. Racial and Gender Differences in the Presentation of Pruritus. *Medicines (Basel)*. 2019 Sep 27;6(4). pii: E98. doi: 10.3390/medicines6040098.
- Schrager J, Patzer R, Kim J, Pitts S, Chokshi F, Phillips J, Zhang X. Racial and Ethnic Differences in Diagnostic Imaging Utilization During Adult Emergency Department Visits in the United States, 2005 to 2014. *J Am Coll Radiol*. 2019 Mar 29. pii: S1546-1440(19)30305-9. doi: 10.1016/j.jacr.2019.03.002. [Epub ahead of print]

- Lo AX, Donnelly JP, Durant RW, Collins SP, Levitan EB, Storrow AB, Bittner V. A National Study of U.S. Emergency Departments: Racial Disparities in Hospitalizations for Heart Failure. *Am J Prev Med.* 2018 Nov;55(5S1):S31-S39. doi: 10.1016/j.amepre.2018.05.020.
- Bacon E. Racial/ethnic differences in treatment recommendations: lifestyle changes and medication prescriptions for high cholesterol. *Ethn Health.* 2017 Nov 2:1-16. doi: 10.1080/13557858.2017.1398315. [Epub ahead of print]
- Lee HH, Lewis CW, McKinney CM. Disparities in Emergency Department Pain Treatment for Toothache. *JDR Clin Trans Res.* 2016 Oct;1(3):226-233. doi: 10.1177/2380084416655745. Epub 2016 Jun 27.
- Qiao WP, Powell ES, Witte MP, Zelder MR. Relationship between racial disparities in ED wait times and illness severity. *Am J Emerg Med.* 2015 Sep 7. pii: S0735-6757(15)00744-5. doi: 10.1016/j.ajem.2015.08.052. [Epub ahead of print]
- Goyal MK, Kuppermann N, Cleary SD, Teach SJ, Chamberlain JM. [Racial Disparities in Pain Management of Children With Appendicitis in Emergency Departments.](#) *JAMA Pediatr.* 2015 Sep 14. doi: 10.1001/jamapediatrics.2015.1915. [Epub ahead of print]
- Abokwidir M, Davis SA, Fleischer AB, Pichardo-Geisinger RO. Use of the Emergency Department for Dermatologic Care in the United States by Ethnic Group. *J Dermatolog Treat.* 2014 Nov 26:1-14. [Epub ahead of print]
- Johnson TJ, Weaver MD, Borrero S, Davis EM, Myaskovsky L, Zuckerbraun NS, Kraemer KL. Association of race and ethnicity with management of abdominal pain in the emergency department. *Pediatrics.* 2013 Oct;132(4):e851-8. doi: 10.1542/peds.2012-3127. Epub 2013 Sep 23.
- Okunseri C, Okunseri E, Chilimaza CA, Harunani S, Xiang Q, Szabo A. Racial and ethnic variations in waiting times for emergency department visits related to nontraumatic dental conditions in the United States. *J Am Dent Assoc.* 2013 Jul;144(7):828-36.
- Haywood C Jr, Tanabe P, Naik R, Beach MC, Lanzkron S. The impact of race and disease on sickle cell patient wait times in the emergency department. *Am J Emerg Med.* 2013 Feb 1. doi:pii: S0735-6757(12)00568-2. 10.1016/j.ajem.2012.11.005. [Epub ahead of print]
- Johnson PJ, Ghildayal N, Ward AC, Westgard BC, Boland LL, Hokanson JS. Disparities in Potentially Avoidable Emergency Department (ED) Care: ED Visits for Ambulatory Care Sensitive Conditions. *Med Care.* 2012 Sep 29. [Epub ahead of print]
- Soler ZM, Mace JC, Litvack JR, Smith TL. Chronic rhinosinusitis, race, and ethnicity. *Am J Rhinol Allergy.* 2012 Mar;26(2):110-6.
- Sonnenfeld N, Pitts SR, Schappert SM, Decker SL. Emergency Department Volume and Racial and Ethnic Differences in Waiting Times in the United States. *Med Care.* 2012 Jan 19. [Epub ahead of print]
- Johnston V, Bao Y. Race/Ethnicity-Related and Payer-Related Disparities in the Timeliness of Emergency Care in U.S. Emergency Departments. *Journal of Health Care for the Poor and Underserved* 22 (2011): 606–620.
- Karve SJ, Balkrishnan R, Mohammad YM, Levine DA. Racial/Ethnic Disparities in Emergency Department Waiting Time for Stroke Patients in the United States. *J Stroke Cerebrovasc Dis.* 2010 Jun 8. [Epub ahead of print]
- Pines JM, Russell Localio A, Hollander JE. Racial Disparities in Emergency Department Length of Stay for Admitted Patients in the United States. *Acad Emerg Med.* 2009 Feb 24. [Epub ahead of print]

- Shafi S, Gentilello LM. Ethnic disparities in initial management of trauma patients in a nationwide sample of emergency department visits. *Arch Surg*. 2008 Nov;143(11):1057-61.
- Sonnenfeld N, Schappert SM, Lin SX. Racial and Ethnic Differences in Delivery of Tobacco-Cessation Services. *Am J Prev Med*. 2008 Oct 30. [Epub ahead of print]
- Ginde AA, Espinola JA, Camargo CA Jr. Improved overall trends but persistent racial disparities in emergency department visits for acute asthma, 1993-2005. *J Allergy Clin Immunol*. 2008 Jun 4. [Epub ahead of print]
- Fiscella K, Franks P. Does the content of primary care visits differ by the racial composition of physicians' practices? *Am J Med*. 2006 Apr;119(4):348-53.
- Ma J, Stafford RS. Quality of US outpatient care: temporal changes and racial/ethnic disparities. *Arch Intern Med*. 2005 Jun 27;165(12):1354-61.
- Holmes JS, Arispe IE, Moy E. Heart disease and prevention: race and age differences in heart disease prevention, treatment, and mortality. *Med Care* 2005;43: I-33-I-41)
- James CA, Bourgeois FT, Shannon MW. Association of race/ethnicity with emergency department wait times. *Pediatrics*. 2005 Mar;115(3):e310-5.
- Richardson J, Anderson T, Flaherty J, Bell C. The quality of mental health care for African Americans. *Cult Med Psychiatry*. 2003 Dec; 27(4): 487-98.
- Tamayo-Sarver JH, Hinze SW, Cydulka RK, Baker DW. Racial and ethnic disparities in emergency department analgesic prescription. *Am J Public Health*. 2003 Dec; 93(12): 2067-73.
- Bazarian JJ, Pope C, McClung J, Cheng YT, Flesher W. Ethnic and racial disparities in emergency department care for mild traumatic brain injury. *Acad Emerg Med*. 2003 Nov;10(11):1209-17.
- Yen K, Kim M, Stremski ES, Gorelick MH. Effect of ethnicity and race on the use of pain medications in children with long bone fractures in the emergency department. *Ann Emerg Med*. 2003 Jul;42(1):41-7.
- Marsh JV, Brett KM, Miller LC. Racial differences in hormone replacement therapy prescriptions. *Obstet Gynecol*. 1999 Jun; 93(6): 999-1003.
- Schappert SM. Race differences in the utilization of hospital emergency departments: Data from the National Hospital Ambulatory Medical Care Survey (NHAMCS), 1992. *Statistical Bulletin Vol. 76, No. 3, Jul-Sep 1995, pp. 2-11.*

### **Homeless Patients**

- Ahmed H, Dennis JA. Assessment and Diagnosis of Mental Illness in EDs Among Individuals Without a Home: Findings from the National Hospital Ambulatory Care Survey. *West J Emerg Med*. 2021 Nov 5;22(6):1276-1282. doi: 10.5811/westjem.2021.7.51882. PMID: 34787551 Free PMC article.
- Ayala A, Tegtmeyer K, Atassi G, Powell E, Ayala A, et al. [The Effect of Homelessness on Patient Wait Times in the Emergency Department](#). *J Emerg Med*. 2021 Feb 9:S0736-4679(20)31422-0. doi: 10.1016/j.jemermed.2020.12.031. Online ahead of print. *J Emerg Med*. 2021. PMID: 33579657

Nam E, Palmer AN, Patel M. Nam E, et al. [Characteristics of Emergency Department Visits by Homeless Young Adults in the U.S.](#) *J Adolesc Health*. 2021 Jan 19;S1054-139X(20)30693-5. doi: 10.1016/j.jadohealth.2020.11.024. Online ahead of print. *J Adolesc Health*. 2021. PMID: 33483236

Lombardi K, Pines JM, Mazer-Amirshahi M, Pourmand A. Findings of a national dataset analysis on the visits of homeless patients to US emergency departments during 2005-2015. *Public Health*. 2019 Oct 20;178:82-89. doi: 10.1016/j.puhe.2019.09.003. [Epub ahead of print]

Tadros A, Layman SM, Brewer MP, Davis SM. A 5-year comparison of ED visits by homeless and nonhomeless patients. *Am J Emerg Med*. 2016 Jan 11. pii: S0735-6757(16)00022-X. doi: 10.1016/j.ajem.2016.01.012. [Epub ahead of print]

Hammig B, Jozkowski K, Jones C. Injury-related Visits and Comorbid Conditions Among Homeless Persons Presenting to Emergency Departments. *Acad Emerg Med*. 2014 Apr;21(4):449-455. doi: 10.1111/acem.12343.

Brown RT, Steinman MA. Characteristics of Emergency Department Visits by Older Versus Younger Homeless Adults in the United States. *Am J Public Health*. 2013 Apr 18. [Epub ahead of print]

Ku BS, Scott KC, Kertesz SG, Pitts SR. Factors associated with use of urban emergency departments by the U.S. homeless population. *Public Health Rep*. 2010 May-Jun;125(3):398-405.

Oates G, Tadros A, Davis SM. A comparison of National Emergency Department use by homeless versus non-homeless people in the United States. *J Health Care Poor Underserved*. 2009 Aug;20(3):840-5.

### **Patients with Diabetes**

Hall MJ, Rui P, Schwartzman A. Emergency department visits by patients aged 45 and over with diabetes: United States, 2015. NCHS Data Brief, no 301. Hyattsville, MD: National Center for Health Statistics. 2017.

Peek ME, Tang H, Alexander GC, Chin MH. National Prevalence of Lifestyle Counseling or Referral Among African-Americans and Whites with Diabetes. *J Gen Intern Med*. 2008 Aug 6. [Epub ahead of print]

Aparasu RR, Aparasu A. Hypertension management in outpatient visits by diabetic patients. *Res Social Adm Pharm*. 2008 Sep;4(3):284-91. Epub 2008 Aug 8.

### **Patients with Other Conditions**

Siddiqi KA, Liu Y, Ding DD, Olatosi BA. Estimating resource utilization for emergency department visits by patients' HIV seropositivity in the United States, 2009 to 2018. *Am J Emerg Med*. 2021 Dec 18;53:73-79. doi: 10.1016/j.ajem.2021.12.025. Online ahead of print. PMID: 34995859

Kimmel SD, Anderson ES, Larochelle MR. HIV testing among people with and without substance use disorder in emergency departments: A nationwide cohort study. *Am J Emerg Med*. 2021 May 10;48:269-272. doi: 10.1016/j.ajem.2021.05.019. Online ahead of print. PMID: 34015610

Nash KA, Zima BT, Rothenberg C, Hoffmann J, Moreno C, Rosenthal MS, Venkatesh A. Prolonged Emergency Department Length of Stay for US Pediatric Mental Health Visits (2005-2015). *Pediatrics*. 2021 Apr 5:e2020030692. doi: 10.1542/peds.2020-030692. Online ahead of print. PMID: 33820850

Wang N, Pei J, Fan H, Ali Y, Prushinskaya A, Zhao J, Zhang X. Emergency department use by patients with end-stage renal disease in the United States. *BMC Emerg Med*. 2021 Mar 2;21(1):25. doi: 10.1186/s12873-021-00420-8. PMID: 33653282



- Nam E, Lee E, Kim H. 10-Year Trends of Emergency Department Visits, Wait Time, and Length of Stay among Adults with Mental Health and Substance use Disorders in the United States. *Psychiatr Q*. 2021 Feb 19. doi: 10.1007/s1126-021-09894-y. Online ahead of print. PMID: 33608848
- Young T. Race and Insurance Impact on Hospital Admission From the Emergency Department for Patients Diagnosed With Heart Failure. *J Nurs Adm*. 2020 Dec;50(12):642-648. doi: 10.1097/NNA.0000000000000952. PMID: 33186003
- Hill T, Jiang Y, Friese CR, Darbes LA, Blazes CK, Zhang X. Analysis of emergency department visits for all reasons by adults with depression in the United States. *BMC Emerg Med*. 2020 Jun 22;20(1):51. doi: 10.1186/s12873-020-00347-6. PMID: 32571223 Free PMC article.
- Downey VA, Hong A, Herrera K. Changes in Proportions of Emergency Department Patients with Mental Illness Noted in the National Hospital Ambulatory Medical Care Survey, 2012-2015. *South Med J*. 2020 Feb;113(2):51-54. doi: 10.14423/SMJ.0000000000001064.
- Rogers ES, Wysota CN. Tobacco Screening and Treatment of Patients With a Psychiatric Diagnosis, 2012-2015. *Am J Prev Med*. 2019 Nov;57(5):687-694. doi: 10.1016/j.amepre.2019.06.009. Epub 2019 Sep 27.
- Robbins R, Seixas A, Jean-Louis G, Parthasarathy S, Rapoport DM, Ogedegbe G, Ladapo JA. National patterns of physician management of sleep apnea and treatment among patients with hypertension. *PLoS One*. 2018 May 23;13(5):e0196981. doi: 10.1371/journal.pone.0196981. eCollection 2018.
- Hsu J, Donnelly JP, Moore JX, Meneses K, Williams G, Wang HE. National characteristics of Emergency Department visits by patients with cancer in the United States. *Am J Emerg Med*. 2018 Mar 13. pii: S0735-6757(18)30215-8. doi: 10.1016/j.ajem.2018.03.025. [Epub ahead of print]
- Ladapo JA, Richards AK, DeWitt CM, Harawa NT, Shoptaw S, Cunningham WE, Mafi JN. Disparities in the Quality of Cardiovascular Care Between HIV-Infected Versus HIV-Uninfected Adults in the United States: A Cross-Sectional Study. *J Am Heart Assoc*. 2017 Nov 14;6(11). pii: e007107. doi: 10.1161/JAHA.117.007107.
- Opoku ST, Apenteng BA, Akowuah EA, Bhuyan S. Disparities in Emergency Department Wait Time Among Patients with Mental Health and Substance-Related Disorders. *J Behav Health Serv Res*. 2017 Aug 16. doi: 10.1007/s11414-017-9565-8. [Epub ahead of print]
- Singer AJ, Thode HC Jr, Peacock WF 4th. Admission rates for emergency department patients with venous thromboembolism and estimation of the proportion of low risk pulmonary embolism patients: a US perspective. *Clin Exp Emerg Med*. 2016 Sep 30;3(3):126-131.
- Tan EC, Bell JS, Lu CY, Toh S. National Trends in Outpatient Antihypertensive Prescribing in People with Dementia in the United States. *J Alzheimers Dis*. 2016 Sep 2. [Epub ahead of print]
- Bergamo C, Juarez-Colunga E, Capp R. Association of mental health disorders and Medicaid with ED admissions for ambulatory care-sensitive condition conditions. *Am J Emerg Med*. 2016 Jan 21. pii: S0735-6757(16)00033-4. doi: 10.1016/j.ajem.2016.01.023. [Epub ahead of print]
- Moore HN, Mao L, Oramasionwu CU. Factors associated with polypharmacy and the prescription of multiple medications among persons living with HIV (PLWH) compared to non-PLWH. *AIDS Care*. 2015 Nov 26:1-6. [Epub ahead of print] (NHAMCS)
- Ho CK, Maselli JH, Terrault NA, Gonzales R. [High Rate of Hospital Admissions Among Patients with Cirrhosis Seeking Care in US Emergency Departments](#). *Dig Dis Sci*. 2015 Feb 28. [Epub ahead of print]

Galbraith JW, Donnelly JP, Franco R, Overton T, Rodgers JB, Wang HE. National Estimates of Healthcare Utilization by Individuals with Hepatitis C Virus Infection in the United States. *Clin Infect Dis*. 2014 Jun 9. pii: ciu427. [Epub ahead of print]

Singer AJ, Skopicki H, Thode HC Jr, Peacock WF. Hemodynamic profiles of ED patients with acute decompensated heart failure and their association with treatment. *Am J Emerg Med*. 2013 Dec 7. pii: S0735-6757(13)00841-3. doi: 10.1016/j.ajem.2013.12.005. [Epub ahead of print]

Johnson TL, Toliver JC, Mao L, Oramasionwu CU. Differences in outpatient care and treatment utilization for patients with HIV/HCV coinfection, HIV, and HCV mono-infection, a cross-sectional study. *BMC Infect Dis*. 2014 Apr 23;14:217. doi: 10.1186/1471-2334-14-217.

Mohareb A, Rothman R, Hsieh YH. Emergency department (ED) utilization by HIV-infected ED patients in the United States in 2009 and 2010 - a national estimation. *HIV Med*. 2013 Jun 17. doi: 10.1111/hiv.12052. [Epub ahead of print]

Shih TY, Chen KF, Rothman R, Hsieh YH. US national estimation of emergency department utilization by patients given 'HIV/AIDS-related illness' as their primary diagnosis. *HIV Med*. 2010 Nov 8. doi: 10.1111/j.1468-1293.2010.00888.x. [Epub ahead of print]

Cheung R, Mannalithara A, Singh G. Utilization and Antiviral Therapy in Patients with Chronic Hepatitis C: Analysis of Ambulatory Care Visits in the US. *Dig Dis Sci*. 2010 Feb 26. [Epub ahead of print]

Salen PN, Arcona S., Luo RD, Belletti D, Tran D. How Do Prescription Patterns of Psychopharmacological Therapy for Schizophrenic Patients in the Emergency Department Affect Health Care Utilization? *Acad. Emerg. Med*. 2002 9: 391

## **Patient Insurance**

Young T. Race and Insurance Impact on Hospital Admission From the Emergency Department for Patients Diagnosed With Heart Failure. *J Nurs Adm*. 2020 Dec;50(12):642-648. doi: 10.1097/NNA.0000000000000952. PMID: 33186003

Dayal P, Ruttan TK, Kissee JL, Sigal IS, Marcin JP. Association of Insurance With Use of Emergency Medical Services Among Children. *Pediatr Emerg Care*. 2020 Sep;36(9):e500-e507. doi: 10.1097/PEC.0000000000001352. PMID: 29189593

Bush H, Gerber LH, Stepanova M, Escheik C, Younossi ZM. Impact of healthcare reform on the payer mix among young adult emergency department utilizers across the United States (2005-2015). *Medicine (Baltimore)*. 2018 Dec;97(49):e13556. doi: 10.1097/MD.00000000000013556.

Orgel GS, Weston RA, Ziebell C, Brown LH. Emergency department patient payer status after implementation of the Affordable Care Act: A nationwide analysis using NHAMCS data. *Am J Emerg Med*. 2018 Dec 18. pii: S0735-6757(18)30992-6. doi: 10.1016/j.ajem.2018.12.031. [Epub ahead of print]

Dayal P, Ruttan TK, Kissee JL, Sigal IS, Marcin JP. Association of Insurance With Use of Emergency Medical Services Among Children. *Pediatr Emerg Care*. 2017 Nov 20. doi: 10.1097/PEC.0000000000001352. [Epub ahead of print]

Bergamo C, Juarez-Colunga E, Capp R. Association of mental health disorders and Medicaid with ED admissions for ambulatory care-sensitive condition conditions. *Am J Emerg Med*. 2016 Jan 21. pii: S0735-6757(16)00033-4. doi: 10.1016/j.ajem.2016.01.023. [Epub ahead of print]

Capp R, West DR, Doran K, Sauaia A, Wiler J, Coolman T, Ginde AA. Characteristics of Medicaid-Covered Emergency Department Visits Made by Nonelderly Adults: A National Study. *J Emerg Med.* 2015 Oct 5. pii: S0736-4679(15)00818-5. doi: 10.1016/j.jemermed.2015.07.043. [Epub ahead of print]

Carlson JN, Menegazzi JJ, Callaway CW. Magnitude of national ED visits and resource utilization by the uninsured. *Am J Emerg Med.* 2013 Jan 30. doi:pii: S0735-6757(13)00007-7. 10.1016/j.ajem.2013.01.001. [Epub ahead of print]

Mannix R, Stack AM, Chiang V. Insurance Status and the Care of Adult Patients 19 to 64 Years of Age Visiting the Emergency Department. *Acad Emerg Med.* 2012 Jun 22. doi: 10.1111/j.1553-2712.2012.01394.x. [Epub ahead of print]

Mannix R, Chiang V, Stack AM. Insurance Status and the Care of Children in the Emergency Department. *J Pediatr.* 2012 May 11. [Epub ahead of print]

Moser JW, Applegate KE. Imaging and insurance: do the uninsured get less imaging in emergency departments? *J Am Coll Radiol.* 2012 Jan;9(1):50-7.

Adekoya N. Reasons for visits to emergency departments for Medicaid and State Children's Health Insurance Program patients: United States, 2004. *N C Med J.* 2010 Mar-Apr;71(2):123-30.

Newton MF et al. Uninsured Adults Presenting to US Emergency Departments: Assumptions vs Data. *JAMA.* 2008;300(16):1914-1924.

Adekoya N. Medicaid/State Children's Health Insurance Program Patients and Infectious Diseases Treated in Emergency Departments: U.S., 2003. 122(4): July/August 2007. 513-520.

### **Other Patient Characteristics**

Greenwood-Ericksen MB, Kocher K. Trends in Emergency Department Use by Rural and Urban Populations in the United States. *JAMA Netw Open.* 2019 Apr 5;2(4):e191919. doi: 10.1001/jamanetworkopen.2019.1919.

Bhattacharjee S, Axon DR, Goldstone L, Lee JK. Patterns and Predictors of Depression Treatment among Stroke Survivors with Depression in Ambulatory Settings in the United States. *J Stroke Cerebrovasc Dis.* 2017 Oct 30. pii: S1052-3057(17)30531-1. doi: 10.1016/j.jstrokecerebrovasdis.2017.09.047. [Epub ahead of print]

Moe J, Belsky JB. Comparing patients who leave the ED prematurely, before vs after medical evaluation: a National Hospital Ambulatory Medical Care Survey analysis. *Am J Emerg Med.* 2016 Jan 26. pii: S0735-6757(16)00025-5. doi: 10.1016/j.ajem.2016.01.015. [Epub ahead of print]

Burke RE, Rooks SP, Levy C, Schwartz R, Ginde AA. [Identifying Potentially Preventable Emergency Department Visits by Nursing Home Residents in the United States.](#) *J Am Med Dir Assoc.* 2015 Feb 18. pii: S1525-8610(15)00077-8. doi: 10.1016/j.jamda.2015.01.076. [Epub ahead of print]

O'Keefe T, Rhee P, Shafi S, Friese RS, Gentilello LM. Alcohol use increases diagnostic testing, procedures, charges, and the risk of hospital admission: a population-based study of injured patients in the emergency department. *Am J Surg.* 2013 Apr 2. pii: S0002-9610(13)00136-0. doi: 10.1016/j.amjsurg.2012.08.014. [Epub ahead of print]

Primack BA, Roberts T, Fine MJ, Dillman Carpentier FR, Rice KR, Barnato AE. ER vs. ED: A Comparison of Televised and Real-life Emergency Medicine. *J Emerg Med.* 2012 Jul 4. [Epub ahead of print]

Caterino JM, Ting SA, Sisbarro SG, Espinola JA, Camargo CA Jr. Age, Nursing Home Residence, and Presentation of Urinary Tract Infection in U.S. Emergency Departments, 2001-2008. *Acad Emerg Med.* 2012 Oct;19(10):1173-1180. doi: 10.1111/j.1553-2712.2012.01452.x.

Wang HE, Shah MN, Allman RM, Kilgore M. Emergency department visits by nursing home residents in the United States. *J Am Geriatr Soc.* 2011 Oct;59(10):1864-72. doi: 10.1111/j.1532-5415.2011.03587.x. Epub 2011 Oct 12.

White D, Kaplan L, Eddy L. Characteristics of patients who return to the emergency department within 72 hours in one community hospital. *Adv Emerg Nurs J.* 2011 Oct;33(4):344-53.

Squire BT, Tamayo A, Tamayo-Sarver JH. At-Risk Populations and the Critically Ill Rely Disproportionately on Ambulance Transport to Emergency Departments. *Ann Emerg Med.* 2010 Jun 14. [Epub ahead of print]

## **2c. PATIENT CHARACTERISTICS - OTHER PUBLICATIONS USING NHAMCS DATA**

Weiss, HB, Mathers LJ, Furjuoh SN, Kinnane JM. *Child and Adolescent Emergency Department Visit Databook.* Pittsburgh, Pennsylvania: Center for Violence and Injury Control, Allegheny University of the Health Sciences. 1997.

## **3a. REASON FOR VISIT, DIAGNOSIS - NCHS REPORTS**

Emergency Department Visits Related to Schizophrenia Among Adults Aged 18–64: United States, 2009–2011 [Data Brief No. 215]

Emergency Department Visits for Drug Poisoning: United States, 2008–2011 [Data Brief No. 196]

Emergency Department Visits for Chest Pain and Abdominal Pain: United States, 1999-2008 [Data Brief No. 43]

Injury Visits to Hospital Emergency Departments: United States, 1992-1995 [Series 13, No. 131]

Injury-related Visits to Hospital Emergency Departments: United States, 1992 [ADR No. 261]

Drug- and Alcohol-Related Visits to Hospital Emergency Departments, 1992 [ADR No. 251]

## **3b. REASON FOR VISIT, DIAGNOSIS - JOURNAL ARTICLES USING NHAMCS DATA**

Yang S, Orlova Y, Lipe A, Boren M, Hincapie-Castillo JM, Park H, Chang CY, Wilson DL, Adkins L, Lo-Ciganic WH. Trends in the Management of Headache Disorders in US Emergency Departments: Analysis of 2007-2018 National Hospital Ambulatory Medical Care Survey Data. *J Clin Med.* 2022 Mar 3;11(5):1401. doi: 10.3390/jcm11051401. PMID: 35268492

Kim S, Wang PR, Lopez R, Valentim C, Muste J, Russell M, Singh RP, Phelan MP. Characterization of ophthalmic presentations to emergency departments in the United States: 2010-2018. *Am J Emerg Med.* 2022 Feb 22;54:279-286. doi: 10.1016/j.ajem.2022.02.024. Online ahead of print. PMID: 35227958

Ramgopal S, Horvat CM, Adler MD. Varying Estimates of Sepsis among Adults Presenting to US Emergency Departments: Estimates from a National Dataset from 2002-2018. *J Intensive Care Med.* 2022 Feb 28;8850666221080060. doi: 10.1177/08850666221080060. Online ahead of print. PMID: 35225727

Suen LW, Davy-Mendez T, LeSaint KT, Riley ED, Coffin PO. Emergency department visits and trends related to cocaine, psychostimulants, and opioids in the United States, 2008-2018. *BMC Emerg Med.* 2022 Feb 4;22(1):19. doi: 10.1186/s12873-022-00573-0. PMID: 35120449 Free PMC article.

Zhou AZ, Lorenz D, Simon NJ, Florin TA. Emergency department diagnosis and management of constipation in the United States, 2006-2017. *Am J Emerg Med.* 2022 Feb 3;54:91-96. doi: 10.1016/j.ajem.2022.01.065. Online ahead of print. PMID: 35151017

Zhang X, Qiu P, Prushinskaya A, Jiang Y, Fan H, Yang S. Characteristics of emergency department admissions with congestive heart failure in the United States: a Nationwide cross-sectional study. *BMC Emerg Med.* 2022 Jan 28;22(1):16. doi: 10.1186/s12873-021-00564-7. PMID: 35090395 Free PMC article.

Zhu D, Macdonald EJ, Lesko RP, Watts KL. National trends and prescription patterns in opiate analgesia for urolithiasis presenting to Emergency Departments: Analysis of the National Hospital Ambulatory Medical Care Survey, 2006-2018. *Urology.* 2021 Dec 27:S0090-4295(21)01173-0. doi: 10.1016/j.urology.2021.09.047. Online ahead of print. PMID: 34968567

Ramgopal S, Adler MD, Horvat CM. Application of the Improving Pediatric Sepsis Outcomes Definition for Pediatric Sepsis to Nationally Representative Emergency Department Data. *Pediatr Qual Saf.* 2021 Sep 24;6(5):e468. doi: 10.1097/pq9.0000000000000468. eCollection 2021 Sep-Oct. PMID: 35018312

Ramgopal S, Adler MD, Horvat CM. Application of the Improving Pediatric Sepsis Outcomes Definition for Pediatric Sepsis to Nationally Representative Emergency Department Data. *Pediatr Qual Saf.* 2021 Sep 24;6(5):e468. doi: 10.1097/pq9.0000000000000468. eCollection 2021 Sep-Oct. PMID: 35018312

Benson LS, Magnusson SL, Gray KE, Quinley K, Kessler L, Callegari LS. Early pregnancy loss in the emergency department, 2006-2016. *J Am Coll Emerg Physicians Open.* 2021 Nov 5;2(6):e12549. doi: 10.1002/emp2.12549. eCollection 2021 Dec. PMID: 34766105 Free PMC article.

Peery AF, Crockett SD, Murphy CC, Jensen ET, Kim HP, Egberg MD, Lund JL, Moon AM, Pate V, Barnes EL, Schlusser CL, Baron TH, Shaheen NJ, Sandler RS. Burden and Cost of Gastrointestinal, Liver, and Pancreatic Diseases in the United States: Update 2021. *Gastroenterology.* 2021 Oct 19:S0016-5085(21)03655-6. doi: 10.1053/j.gastro.2021.10.017. Online ahead of print. PMID: 34678215  
Friedman AB, Chen AT, Wu R, Coe NB, Halpern SD, Hwang U, Kelz RR, Cappola AR. Evaluation and disposition of older adults presenting to the emergency department with abdominal pain. *J Am Geriatr Soc.* 2021 Oct 10. doi: 10.1111/jgs.17503. Online ahead of print. PMID: 34628638

Wilson TT, Chou SC, Becker S, Schuur JD, Beaudoin F. Evaluation of sex disparities in opioid use among ED patients with sickle cell disease, 2006-2015. *Am J Emerg Med.* 2021 Sep 21;50:597-601. doi: 10.1016/j.ajem.2021.09.023. Online ahead of print. PMID: 34592567.

Suen LW, Makam AN, Snyder HR, Repplinger D, Kushel MB, Martin M, Nguyen OK. National Prevalence of Alcohol and Other Substance Use Disorders Among Emergency Department Visits and Hospitalizations: NHAMCS 2014-2018. *J Gen Intern Med.* 2021 Sep 13:1-9. doi: 10.1007/s11606-021-07069-w. Online ahead of print. PMID: 34518978

Anderson JL, Oliveira J E Silva L, Funni SA, Bellolio F, Jeffery MM. Epidemiology of paediatric pain-related visits to emergency departments in the USA: a cross-sectional study. *BMJ Open.* 2021 Aug 16;11(8):e046497. doi: 10.1136/bmjopen-2020-046497.

Fritz M, Muddasani S, Fleischer AB. Treatment of nail diseases in the emergency department. *J Dermatolog Treat.* 2021 Aug 1:1-4. doi: 10.1080/09546634.2021.1959503. Online ahead of print. PMID: 34289796

Tsoulis MW, Navetta-Modrov B, Thode HC Jr, Singer AJ. Concurrent asthma and chronic obstructive pulmonary disease in adult ED patients: A national perspective. *Am J Emerg Med.* 2021 Jun 15;49:216-225. doi: 10.1016/j.ajem.2021.05.081. Online ahead of print. PMID: 34144264

Ramgopal S, Macy ML. US estimates for dog bite injuries presenting to emergency departments. *Public Health.* 2021 Jun 9;196:1-3. doi: 10.1016/j.puhe.2021.04.028. Online ahead of print. PMID: 34118765

Clark C, Ledrick D, Moore A. Facial Burns. 2021 Mar 17. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2021 Jan-. PMID: 32644716 Free Books & Documents. Review.

Young EH, Yap AG, Vargas MN, Strey KA, Hao A, Reveles KR. National Prevalence of Influenza Diagnoses and Vaccination Rates Among Patients Presenting to United States Physician Offices and Hospital Outpatient Departments, 2009 to 2016. *Open Forum Infect Dis*. 2021 Mar 26;8(7):ofab148. doi: 10.1093/ofid/ofab148. eCollection 2021 Jul. PMID: 34327250

Lombardi K, Ong J, Kane E, Aljohani B, Frasure SE, Almulhim K, Pourmand A. Resource utilisation among patients with syncope presenting to the emergency department. *Int J Clin Pract*. 2021 Feb 22:e14106. doi: 10.1111/ijcp.14106. Online ahead of print. PMID: 33617687

Hunold KM, Caterino JM, Bischof JJ. Diagnostic Uncertainty in Dyspneic Patients with Cancer in the Emergency Department. *West J Emerg Med*. 2021 Jan 29;22(2):170-176. doi: 10.5811/westjem.2020.10.48091. PMID: 33856297

Wallace JS, Mannix RC, Wallace JS, et al. [Racial Disparities in Diagnosis of Concussion and Minor Head Trauma and Mechanism of Injury in Pediatric Patients Visiting the Emergency Department](#). *J Pediatr*. 2021 Jan 29:S0022-3476(21)00091-3. doi: 10.1016/j.jpeds.2021.01.057. Online ahead of print. *J Pediatr*. 2021. PMID: 33524386

Xu KT, Morris JE, Piel C. The Utility of Pain Scale to Assess Verifiable vs Non-Verifiable Pain in United States Emergency Departments. *West J Emerg Med*. 2021 Jan 29;22(2):156-162. doi: 10.5811/westjem.2020.11.49030. PMID: 33856295

Wang PR, Lopez R, Seballos SS, Campbell MJ, Udeh BL, Phelan MP. [Management of migraine in the emergency department: Findings from the 2010-2017 National Hospital Ambulatory Medical Care Surveys](#). *Am J Emerg Med*. 2020 Dec 29;41:40-45. doi: 10.1016/j.ajem.2020.12.056. Online ahead of print. *Am J Emerg Med*. 2020. PMID: 33385884

Burch R, Rizzoli P, Loder E. [The prevalence and impact of migraine and severe headache in the United States: Updated age, sex, and socioeconomic-specific estimates from government health surveys](#). *Headache*. 2020 Dec 21. doi: 10.1111/head.14024. Online ahead of print.

Mullins PM, Merriman JG, Jaffe TA, Mazer-Amirshahi M, Weiner SG. [Trends in the Evaluation and Management of Back Pain in Emergency Departments, United States, 2007-2016](#). *Pain Med*. 2020 Dec 18:pnaa385. doi: 10.1093/pm/pnaa385. Online ahead of print. *Pain Med*. 2020. PMID: 33338224

Collier EK, Yang JJ, Sangar S, Chen ST, Huang JT, Bach DQ. [Evaluation of emergency department utilization for dermatologic conditions in the pediatric population within the United States from 2009-2015](#). *Pediatr Dermatol*. 2020 Dec 18. doi: 10.1111/pde.14476. Online ahead of print. *Pediatr Dermatol*. 2020. PMID: 33336810

Pendyal A, Rothenberg C, Scofi JE, Krumholz HM, Safdar B, Dreyer RP, Venkatesh AK. National Trends in Emergency Department Care Processes for Acute Myocardial Infarction in the United States, 2005 to 2015. *J Am Heart Assoc*. 2020 Oct 13:e017208. doi: 10.1161/JAHA.120.017208. Online ahead of print. PMID: 33047624

Theriault KM, Rosenheck RA, Rhee TG. Increasing Emergency Department Visits for Mental Health Conditions in the United States. *J Clin Psychiatry*. 2020 Jul 28;81(5):20m13241. doi: 10.4088/JCP.20m13241.

Chhibba T, Guizzetti L, Seow CH, Lu C, Novak KL, Ananthkrishnan AN, Bernstein CN, Kaplan GG, Panaccione R, Ma C. Frequency of Opioid Prescription at Emergency Department Discharge in Patients with Inflammatory Bowel Disease: A Nationwide Analysis. *Clin Gastroenterol Hepatol*. 2020 Jul 16:S1542-3565(20)30982-4. doi: 10.1016/j.cgh.2020.07.020. Online ahead of print.

- Carrillo-Martin I, Gonzalez-Estrada A, Funni SA, Jeffery MM, Inselman JW, Campbell RL. Increasing Allergy-related Emergency Department Visits in the United States, 2007-2015. *J Allergy Clin Immunol Pract*. 2020 Jun 15:S2213-2198(20)30597-3. doi: 10.1016/j.jaip.2020.05.056. Online ahead of print. PMID: 32553832
- Flood SM, Desai NM, Leonard JE, Mistry RD. Emergency Department Prescribing Patterns for Pharyngitis in Children. *Clin Pediatr (Phila)*. 2020 Jun 5:9922820927042. doi: 10.1177/0009922820927042. [Epub ahead of print]
- Mullins PM, Levy PD, Mazer-Amirshahi M, Pines JM. National trends in U.S. emergency department visits for chief complaint of hypertension (2006-15). *Am J Emerg Med*. 2019 Nov 15. pii: S0735-6757(19)30658-8. doi: 10.1016/j.ajem.2019.10.004. [Epub ahead of print]
- Santillanes G, Axeen S, Lam CN, Menchine M. National trends in mental health-related emergency department visits by children and adults, 2009-2015. *Am J Emerg Med*. 2019 Dec 20. pii: S0735-6757(19)30842-3. doi: 10.1016/j.ajem.2019.12.035. [Epub ahead of print]
- Qin X, Zahran HS, Malilay J. Asthma-related emergency department (ED) visits and post-ED visit hospital and critical care admissions, National Hospital Ambulatory Medical Care Survey, 2010-2015. *J Asthma*. 2020 Jan 10:1-15. doi: 10.1080/02770903.2020.1713149. [Epub ahead of print]
- Zafar S, Sebestyen K, Qureshi Z, Schein O, Johnson P, Srikumaran D, Woreta FA. National trends in imaging rates for eye-related emergency department visits in the United States. *Am J Ophthalmol*. 2019 Nov 12. pii: S0002-9394(19)30544-6. doi: 10.1016/j.ajo.2019.11.007. [Epub ahead of print]
- Whang KA, Khanna R, Thomas J, Aguh C, Kwatra SG. Racial and Gender Differences in the Presentation of Pruritus. *Medicines (Basel)*. 2019 Sep 27;6(4). pii: E98. doi: 10.3390/medicines6040098.
- Hanna J, Brauer PR, Morse E, Berson E, Mehra S. Epidemiological analysis of croup in the emergency department using two national datasets. *Int J Pediatr Otorhinolaryngol*. 2019 Aug 13;126:109641. doi: 10.1016/j.ijporl.2019.109641. [Epub ahead of print]
- White JL, Hollander JE, Pines JM, Mullins PM, Chang AM. Electrocardiogram and cardiac testing among patients in the emergency department with seizure versus syncope. *Clin Exp Emerg Med*. 2019 Jun;6(2):106-112. doi: 10.15441/ceem.18.003. Epub 2019 Jun 28.
- Salzman M, Jones CW, Rafeq R, Gaughan J, Haroz R. Epidemiology of opioid-related visits to US Emergency Departments, 1999-2013: A retrospective study from the NHAMCS (National Hospital Ambulatory Medical Care Survey). *Am J Emerg Med*. 2019 Mar 31. pii: S0735-6757(19)30218-9. doi: 10.1016/j.ajem.2019.03.052. [Epub ahead of print]
- Tichter AM, Ostrovskiy G. Emergency department antibiotic use for exacerbations of COPD. *Open Access Emerg Med*. 2018 Dec 5;10:193-200. doi: 10.2147/OAEM.S178134. eCollection 2018.
- Goldberg EM, Marks SJ, Merchant RC. National trends in the emergency department management of adult patients with elevated blood pressure from 2005 to 2015. *J Am Soc Hypertens*. 2018 Oct 14. pii: S1933-1711(18)30285-7. doi: 10.1016/j.jash.2018.09.010. [Epub ahead of print]
- Kaufmann M, Nelson DR, Kaushik P, Mann NC, Mitchell BD. Hypoglycemia Emergencies: Factors Associated with Prehospital Care, Transportation Status, Emergency Department Disposition, and Cost. *Prehosp Emerg Care*. 2018 Sep 27:1-32. doi: 10.1080/10903127.2018.1528322. [Epub ahead of print]
- Yang L, Hur K, Koempel J, Ference EH. Epistaxis health disparities in the United States pediatric population. *Int J Pediatr Otorhinolaryngol*. 2018 Nov;114:20-25. doi: 10.1016/j.ijporl.2018.08.025. Epub 2018 Aug 23.

- Chang JE, Shapiro NL, Bhattacharyya N. Do demographic disparities exist in the diagnosis and surgical management of otitis media? *Laryngoscope*. 2018 Sep 19. doi: 10.1002/lary.27396. [Epub ahead of print]
- Shenkin JD, Warren J, Spanbauer C, Okunseri E, Szabo A, Okunseri C. Hospital emergency department visits by ambulance for nontraumatic tooth pain in the USA. *Clin Cosmet Investig Dent*. 2018 Jul 25;10:159-163. doi: 10.2147/CCIDE.S170123. eCollection 2018.
- Kawai K, Adil EA, Barrett D, Manganella J, Kenna MA. Ambulatory Visits for Otitis Media before and after the Introduction of Pneumococcal Conjugate Vaccination. *J Pediatr*. 2018 Jun 26. pii: S0022-3476(18)30760-1. doi: 10.1016/j.jpeds.2018.05.047. [Epub ahead of print] (NAMCS and NHAMCS)
- Robbins R, Seixas A, Jean-Louis G, Parthasarathy S, Rapoport DM, Ogedegbe G, Ladapo JA. National patterns of physician management of sleep apnea and treatment among patients with hypertension. *PLoS One*. 2018 May 23;13(5):e0196981. doi: 10.1371/journal.pone.0196981. eCollection 2018.
- Hale ZE, Singhal A, Hsia RY. Causes of shortness of breath in the acute patient: A national study. *Acad Emerg Med*. 2018 May 8. doi: 10.1111/acem.13448. [Epub ahead of print]
- Bhattacharjee S, Vadieli N, Goldstone L, Alrabiah Z, Sherman SJ. Patterns and Predictors of Depression Treatment among Older Adults with Parkinson's Disease and Depression in Ambulatory Care Settings in the United States. *Parkinsons Dis*. 2018 Mar 1;2018:3402983. doi: 10.1155/2018/3402983. eCollection 2018.
- Yang Z, Yang R, Kwak MJ, Qdaisat A, Lin J, Begley CE, Reyes-Gibby CC, Yeung SJ. Oncologic emergencies in a cancer center emergency department and in general emergency departments countywide and nationwide. *PLoS One*. 2018 Feb 20;13(2):e0191658. doi: 10.1371/journal.pone.0191658. eCollection 2018.
- Dark T, Rust G, Flynn HA, Kinsell H, Harman JS. Sociodemographic Influences of Emergency Department Care for Anxiety Disorders. *J Behav Health Serv Res*. 2018 Feb 28. doi: 10.1007/s11414-018-9598-7. [Epub ahead of print]
- QuickStats: Percentage of All Emergency Department (ED) Visits Made by Patients with Asthma, by Sex and Age Group - National Hospital Ambulatory Medical Care Survey, United States 2014-2015. *MMWR Morb Mortal Wkly Rep*. 2018 Feb 9;67(5):167. doi: 10.15585/mmwr.mm6705a5.
- Monuteaux MC, Fleegler EW, Lee LK. A cross-sectional study of emergency care utilization and associated costs of violent-related (assault) injuries in the United States. *J Trauma Acute Care Surg*. 2017 Nov;83(5S Suppl 2):S240-S245. doi: 10.1097/TA.0000000000001525.
- De Lott LB, Kerber KA, Lee PP, Brown DL, Burke JF. Diplopia-Related Ambulatory and Emergency Department Visits in the United States, 2003-2012. *JAMA Ophthalmol*. 2017 Oct 26. doi: 10.1001/jamaophthalmol.2017.4508. [Epub ahead of print]
- Ladapo JA, Chokshi DA. Changes in cardiovascular care provision after the Affordable Care Act. *Am J Manag Care*. 2017 Nov 1;23(11):e366-e373.
- Wang HE, Jones AR, Donnelly JP. Revised National Estimates of Emergency Department Visits for Sepsis in the United States. *Crit Care Med*. 2017 Sep;45(9):1443-1449. doi: 10.1097/CCM.0000000000002538.
- Jeanmonod R, Dulebohn SC. Cervical Spine Injury, Geriatric. *StatPearls* [Internet]. Treasure Island (FL): StatPearls Publishing; 2017 Jun-2017 Dec 4.
- Gong C, Byczkowski T, McAnaney C, Goyal MK, Florin TA. Emergency Department Management of Bronchiolitis in the United States. *Pediatr Emerg Care*. 2017 Apr 24. doi: 10.1097/PEC.0000000000001145. [Epub ahead of print]



- Monuteaux MC, Fleegler EW, Lee LK. A cross-sectional study of emergency care utilization and associated costs of violent-related (assault) injuries in the United States. *J Trauma Acute Care Surg.* 2017 Apr 18. doi: 10.1097/TA.0000000000001525. [Epub ahead of print]
- Vila PM, Thomas T, Liu C, Poe D, Shin JJ. The Burden and Epidemiology of Eustachian Tube Dysfunction in Adults. *Otolaryngol Head Neck Surg.* 2017 Feb;156(2):278-284. doi: 10.1177/0194599816683342.
- Jones CW, Gaughan JP, McLean SA. Epidemiology of intravenous fluid use for headache treatment: Findings from the National Hospital Ambulatory Medical Care Survey. *Am J Emerg Med.* 2017 Jan 15. pii: S0735-6757(17)30030-X. doi: 10.1016/j.ajem.2017.01.030. [Epub ahead of print]
- Viano DC, Parenteau CS, Xu L, Faul M. Head Injuries (TBI) to Adults and Children in Motor-Vehicle Crashes. *Traffic Inj Prev.* 2017 Jan 23:0. doi: 10.1080/15389588.2017.1285023. [Epub ahead of print] (NHAMCS)
- Mullins PM, Mazer-Amirshahi M, Pines JM. Alcohol-Related Visits to US Emergency Departments, 2001-2011. *Alcohol.* 2017 Jan;52(1):119-125. doi: 10.1093/alcalc/agw074.
- Smith A, Ray M, Jain N, Zhang H, Sebelik M. The burden of angioedema on United States emergency departments: 2006-2010. *Laryngoscope.* 2016 Nov 15. doi: 10.1002/lary.26336. [Epub ahead of print]
- Ayangbayi T, Okunade A, Karakus M, Nianogo T. Characteristics of Hospital Emergency Room Visits for Mental and Substance Use Disorders. *Psychiatr Serv.* 2016 Dec 15:appips201600125. [Epub ahead of print]
- Mu L, Mukamal KJ. Treatment Intensification for Hypertension in US Ambulatory Medical Care. *J Am Heart Assoc.* 2016 Oct 22;5(10). pii: e004188.
- Korley FK, Kelen GD, Jones CM, Diaz-Arrastia R. Emergency Department Evaluation of Traumatic Brain Injury in the United States, 2009-2010. *J Head Trauma Rehabil.* 2016 Nov/Dec;31(6):379-387.
- Dark T, Flynn HA, Rust G, Kinsell H, Harman JS. Epidemiology of Emergency Department Visits for Anxiety in the United States: 2009-2011. *Psychiatr Serv.* 2016 Oct 17:appips201600148.
- Namen AM, Chatterjee A, Huang KE, Feldman SR, Haponik EF. Recognition of Sleep Apnea Is Increasing: An Analysis of Trends in Two Large, Representative Databases of Outpatient Practice. *Ann Am Thorac Soc.* 2016 Sep 1. [Epub ahead of print]
- Ware CE, Ajabnoor Y, Mullins PM, Mazer-Amirshahi M, Pines JM, May L. A retrospective cross-sectional study of patients treated in US EDs and ambulatory care clinics with sexually transmitted infections from 2001 to 2010. *Am J Emerg Med.* 2016 Jun 13. pii: S0735-6757(16)30254-6. doi: 10.1016/j.ajem.2016.06.039. [Epub ahead of print]
- Mazer-Amirshahi M, Sun C, Mullins P, Perrone J, Nelson L, Pines JM. Trends in Emergency Department Resource Utilization for Poisoning-Related Visits, 2003-2011. *J Med Toxicol.* 2016 Jun 24. [Epub ahead of print]
- Zhao Y, Shi Q, Wang Y, Fonseca V, Shi L. Economic burden of hypoglycemia: utilization of emergency department and outpatient services in the United States (2005-2009). *J Med Econ.* 2016 Apr 13:1-22. [Epub ahead of print]
- Tenan MS. Quantifying Emergency Department Visits From Sport and Recreation: Focus on the Lower Extremity and Knee, 1997-2009. *J Athl Train.* 2016 Apr 13. [Epub ahead of print]
- Gilani S, Quan SF, Pynnonen MA, Shin JJ. Obstructive Sleep Apnea and Gastroesophageal Reflux: A Multivariate Population-Level Analysis. *Otolaryngol Head Neck Surg.* 2015 Dec 8. pii: 0194599815621557. [Epub ahead of print]

Roditi RE, Veling M, Shin JJ. Age: An effect modifier of the association between allergic rhinitis and Otitis media with effusion. *Laryngoscope*. 2015 Sep 30. doi: 10.1002/lary.25682. [Epub ahead of print]

Scales CD Jr, Bergman J, Carter S, Jack G, Saigal CS, Litwin MS; NIDDK Urologic Diseases in America Project. Quality of Acute Care for Patients with Urinary Stones in the United States. *Urology*. 2015 Aug 31. pii: S0090-4295(15)00806-7. doi: 10.1016/j.urology.2015.07.040. [Epub ahead of print]

Korley FK, Kelen GD, Jones CM, Diaz-Arrastia R. [Emergency Department Evaluation of Traumatic Brain Injury in the United States, 2009-2010](#). *J Head Trauma Rehabil*. 2015 Sep 10. [Epub ahead of print]

Farhangian ME, McMichael AJ, Huang KE, Feldman SR. [Treatment of Alopecia Areata in the United States: A Retrospective Cross-Sectional Study](#). *J Drugs Dermatol*. 2015 Sep 1;14(9):1012-4.

Bergmark RW, Ishman SL, Scangas GA, Cunningham MJ, Sedaghat AR. Socioeconomic determinants of overnight and weekend emergency department use for acute rhinosinusitis. *Laryngoscope*. 2015 May 27. doi: 10.1002/lary.25390. [Epub ahead of print]

Taylor CA, Greenspan AI, Xu L, Kresnow MJ. Comparability of national estimates for traumatic brain injury-related medical encounters. *J Head Trauma Rehabil*. 2015 May-Jun;30(3):150-9. doi: 10.1097/HTR.000000000000105.

Probst MA, Kanzaria HK, Gbedemah M, Richardson LD, Sun BC. National trends in resource utilization associated with ED visits for syncope. *Am J Emerg Med*. 2015 Apr 24. pii: S0735-6757(15)00297-1. doi: 10.1016/j.ajem.2015.04.030. [Epub ahead of print]

Pearson WS, Gift TL, Leichter JS, Jenkins WD. Differences in Treatment of Chlamydia trachomatis by Ambulatory Care Setting. *J Community Health*. 2015 May 5. [Epub ahead of print]

Lewis CW, McKinney CM, Lee HH, Melbye ML, Rue TC. Visits to US emergency departments by 20- to 29-year-olds with toothache during 2001-2010. *J Am Dent Assoc*. 2015 May;146(5):295-302.e2. doi: 10.1016/j.adaj.2015.01.013.

Asao K, McEwen LN, Lee JM, Herman WH. Ascertainment of outpatient visits by patients with diabetes: The National Ambulatory Medical Care Survey (NAMCS) and the National Hospital Ambulatory Medical Care Survey (NHAMCS). *J Diabetes Complications*. 2015 Apr 7. pii: S1056-8727(15)00115-4. doi: 10.1016/j.jdiacomp.2015.03.019. [Epub ahead of print]

Schissler AJ, Rozenshtein A, Schluger NW, Einstein AJ. National trends in emergency room diagnosis of pulmonary embolism, 2001-2010: a cross-sectional study. *Respir Res*. 2015 Mar 24;16(1):44. doi: 10.1186/s12931-015-0203-9.

Prusakowski MK, Kuehl DR. [Trends in emergency department management of skin abscesses](#). *Am J Infect Control*. 2015 Feb 25. pii: S0196-6553(15)00030-9. doi: 10.1016/j.ajic.2015.01.012. [Epub ahead of print]

Wen LS, Espinola JA, Mosowsky JM, Camargo CA Jr. Do emergency department patients receive a pathological diagnosis? A nationally-representative sample. *West J Emerg Med*. 2015 Jan;16(1):50-4. doi: 10.5811/westjem.2014.12.23474. Epub 2015 Jan 7.

Mafi JN, Edwards ST, Pedersen NP, Davis RB, McCarthy EP, Landon BE. Trends in the Ambulatory Management of Headache: Analysis of NAMCS and NHAMCS Data 1999-2010. *J Gen Intern Med*. 2015 Jan 8. [Epub ahead of print]

- Nath JB, Hsia RY. Children's Emergency Department Use for Asthma, 2001-2010. *Acad Pediatr*. 2015 Jan 14. pii: S1876-2859(14)00393-3. doi: 10.1016/j.acap.2014.10.011. [Epub ahead of print]
- Safer DJ, Rajakannan T, Burcu M, Zito JM. Trends in Subthreshold Psychiatric Diagnoses for Youth in Community Treatment. *JAMA Psychiatry*. 2014 Nov 26. doi: 10.1001/jamapsychiatry.2014.1746. [Epub ahead of print]
- Blecker S, Ladapo JA, Doran KM, Goldfeld KS, Katz S. Emergency department visits for heart failure and subsequent hospitalization or observation unit admission. *Am Heart J*. 2014 Dec;168(6):901-908.e1. doi: 10.1016/j.ahj.2014.08.002. Epub 2014 Aug 8.
- Wittayanukorn S, Qian J, Westrick SC, Billor N, Johnson B, Hansen RA. Treatment patterns among breast cancer patients in the United States using two national surveys on visits to physicians' offices and hospital outpatient departments. *Res Social Adm Pharm*. 2014 Dec 18. pii: S1551-7411(14)00408-2. doi: 10.1016/j.sapharm.2014.12.002. [Epub ahead of print]
- Tataris K, Kivlehan S, Govindarajan P. National trends in the utilization of emergency medical services for acute myocardial infarction and stroke. *West J Emerg Med*. 2014 Nov;15(7):744-8. doi: 10.5811/westjem.2014.9.22851. Epub 2014 Oct 28.
- Mistry RD, Shapiro DJ, Goyal MK, Zaoutis TE, Gerber JS, Liu C, Hersh AL. Clinical management of skin and soft tissue infections in the u.s. Emergency departments. *West J Emerg Med*. 2014 Jul;15(4):491-8. doi: 10.5811/westjem.2014.4.20583.
- Hampton LM, Daubresse M, Chang HY, Alexander GC, Budnitz DS. Emergency Department Visits by Adults for Psychiatric Medication Adverse Events. *JAMA Psychiatry*. 2014 Jul 9. doi: 10.1001/jamapsychiatry.2014.436. [Epub ahead of print]
- Simon AE, Schoendorf KC. Emergency Department Visits for Mental Health Conditions Among US Children, 2001-2011. *Clin Pediatr (Phila)*. 2014 Jul 7. pii: 0009922814541806. [Epub ahead of print]
- Gandhi SO, Grant LP, Sabik LM. Trends in Nonemergent Use of Emergency Departments by Health Insurance Status. *Med Care Res Rev*. 2014 Jul 7. pii: 1077558714541481. [Epub ahead of print]
- Hasegawa K, Espinola JA, Brown DF, Camargo CA Jr. Trends in U.S. Emergency Department Visits for Opioid Overdose, 1993-2010. *Pain Med*. 2014 Aug 19. doi: 10.1111/pme.12461. [Epub ahead of print]
- Gandhi SO, Sabik L. Emergency department visit classification using the NYU algorithm. *Am J Manag Care*. 2014 Apr;20(4):315-20.
- Probst MA, Mower WR, Kanzaria HK, Hoffman JR, Buch EF, Sun BC. Analysis of Emergency Department Visits for Palpitations (from the National Hospital Ambulatory Medical Care Survey). *Am J Cardiol*. 2014 Mar 1. pii: S0002-9149(14)00712-7. doi: 10.1016/j.amjcard.2014.02.020. [Epub ahead of print]
- Chang HY, Daubresse M, Kruszewski SP, Alexander GC. Prevalence and treatment of pain in EDs in the United States, 2000 to 2010. *Am J Emerg Med*. 2014 Jan 21. pii: S0735-6757(14)00021-7. doi: 10.1016/j.ajem.2014.01.015. [Epub ahead of print]
- Chakravarthy B, Toohey S, Rezaimehr Y, Anderson CL, Hoonpongsimanont W, Menchine M, Lotfipour S. National differences between ED and ambulatory visits for suicidal ideation and attempts and depression. *Am J Emerg Med*. 2013 Dec 26. pii: S0735-6757(13)00903-0. doi: 10.1016/j.ajem.2013.12.044. [Epub ahead of print]
- Knapp JF, Simon SD, Sharma V. Does Active Dissemination of Evidence Result in Faster Knowledge Transfer Than Passive Diffusion?: An Analysis of Trends of the Management of Pediatric Asthma and Croup in US Emergency Departments From 1995 to 2009. *Pediatr Emerg Care*. 2014 Apr 1. [Epub ahead of print]

Asao K, Kaminski J, McEwen LN, Wu X, Lee JM, Herman WH. Assessing the burden of diabetes mellitus in emergency departments in the United States: The National Hospital Ambulatory Medical Care Survey (NHAMCS). *J Diabetes Complications*. 2014 Feb 15. pii: S1056-8727(14)00047-6. doi: 10.1016/j.jdiacomp.2014.02.005. [Epub ahead of print]

Chakravarthy B, Hoonpongsimanont W, Anderson CL, Habicht M, Bruckner T, Lotfipour S. Depression, suicidal ideation, and suicidal attempt presenting to the emergency department: differences between these cohorts. *West J Emerg Med*. 2014 Mar;15(2):211-6. doi: 10.5811/westjem.2013.11.13172.

Friedman BW, Mistry B, West JR, Wollowitz A. The association between headache and elevated blood pressure among patients presenting to an ED. *Am J Emerg Med*. 2014 May 20. pii: S0735-6757(14)00336-2. doi: 10.1016/j.ajem.2014.05.017. [Epub ahead of print]

Friedman BW, West J, Vinson DR, Minen MT, Restivo A, Gallagher EJ. Current management of migraine in US emergency departments: An analysis of the National Hospital Ambulatory Medical Care Survey. *Cephalalgia*. 2014 Jun 19. pii: 0333102414539055. [Epub ahead of print]

Horeczko T, Green JP, Panacek EA. Epidemiology of the Systemic Inflammatory Response Syndrome (SIRS) in the Emergency Department. *West J Emerg Med*. 2014 May;15(3):329-36. doi: 10.5811/westjem.2013.9.18064. Epub 2014 Feb 19.

Heaton PC, Tundia NL, Luder HR. U.S. emergency departments visits resulting from poor medication adherence: 2005-07. *J Am Pharm Assoc (2003)*. 2013 Sep 1;53(5):513-9. doi: 10.1331/JAPhA.2013.12213.

Okunseri C, Okunseri E, Fischer MC, Sadeghi SN, Xiang Q, Szabo A. Nontraumatic dental condition-related visits to emergency departments on weekdays, weekends and night hours: findings from the National Hospital Ambulatory Medical Care survey. *Clin Cosmet Investig Dent*. 2013 Sep 2;5:69-76. doi: 10.2147/CCIDE.S49191.

Saber Tehrani AS, Coughlan D, Hsieh YH, Mantokoudis G, Korley FK, Kerber KA, Frick KD, Newman-Toker DE. Rising annual costs of dizziness presentations to u.s. Emergency departments. *Acad Emerg Med*. 2013 Jul;20(7):689-96. doi: 10.1111/acem.12168.

Koelblinger P, Dabade TS, Gustafson CJ, Davis SA, Yentzer BA, Kiracofe EA, Feldman SR. Skin manifestations of outpatient adverse drug events in the United States: a national analysis. *J Cutan Med Surg*. 2013 Jul-Aug;17(4):269-75.

Will JC, Valderrama AL, Yoon PW. Preventable hospitalizations and emergency department visits for angina, United States, 1995-2010. *Prev Chronic Dis*. 2013 Jul 25;10:E126. doi: 10.5888/pcd10.120322. (NHAMCS)

Singhal S, Allen MW, McAnnally JR, Smith KS, Donnelly JP, Wang HE. National estimates of emergency department visits for pediatric severe sepsis in the United States. *PeerJ*. 2013 May 21;1:e79. doi: 10.7717/peerj.79. Print 2013.

Meehan WP 3rd, Mannix R. A Substantial Proportion of Life-Threatening Injuries Are Sport-Related. *Pediatr Emerg Care*. 2013 Apr 18. [Epub ahead of print]

Smitherman TA, Burch R, Sheikh H, Loder E. The prevalence, impact, and treatment of migraine and severe headaches in the United States: a review of statistics from national surveillance studies. *Headache*. 2013 Mar;53(3):427-36. doi: 10.1111/head.12074. Epub 2013 Mar 7.

Raven MC, Lowe RA, Maselli J, Hsia RY. Comparison of presenting complaint vs discharge diagnosis for identifying "nonemergency" emergency department visits. *JAMA*. 2013 Mar 20;309(11):1145-53. doi: 10.1001/jama.2013.1948.

- Kelly M, Donnelly JP, McAnnally JR, Wang HE. National estimates of emergency department visits for angioedema and allergic reactions in the United States. *Allergy Asthma Proc.* 2013 Mar;34(2):150-4. doi: 10.2500/aap.2013.34.3640.
- Johnson LW, Robles J, Hudgins A, Osburn S, Martin D, Thompson A. Management of bronchiolitis in the emergency department: impact of evidence-based guidelines? *Pediatrics.* 2013 Mar;131 Suppl 1:S103-9. doi: 10.1542/peds.2012-1427m.
- Horeczko T, Wintemute GJ. Asthma Vital Signs at Triage: Home or Admission (ASTHmA). *Pediatr Emerg Care.* 2013 Jan 29. [Epub ahead of print]
- Fwu CW, Eggers PW, Kimmel PL, Kusek JW, Kirkali Z. Emergency department visits, use of imaging, and drugs for urolithiasis have increased in the United States. *Kidney Int.* 2013 Jan 2. doi: 10.1038/ki.2012.419. [Epub ahead of print]
- Heart disease and stroke statistics--2013 update: a report from the American Heart Association. Go AS, Mozaffarian D, Roger VL, Benjamin EJ et al. *Circulation.* 2013 Jan 1;127(1):e6-e245. doi: 10.1161/CIR.0b013e31828124ad. Epub 2012 Dec 12. Review. No abstract available. Erratum in: *Circulation.* 2013 Jan 1;127(1):doi:10.1161/CIR.0b013e31828124ad.
- Kamel H, Fahimi J, Govindarajan P, Navi BB. Nationwide Patterns of Hospitalization after Transient Ischemic Attack. *J Stroke Cerebrovasc Dis.* 2012 Nov 10. doi:pii: S1052-3057(12)00330-8. 10.1016/j.jstrokecerebrovasdis.2012.09.016. [Epub ahead of print]
- Lee HH, Lewis CW, Saltzman B, Starks H. Visiting the Emergency Department for Dental Problems: Trends in Utilization, 2001 to 2008. *Am J Public Health.* 2012 Sep 20. [Epub ahead of print]
- Hyams ES, Matlaga BR, Korley FK. Practice patterns in the emergency care of kidney stone patients: an analysis of the National Hospital Ambulatory Medical Care Survey (NHAMCS). *Can J Urol.* 2012 Aug;19(4):6351-9.
- Takhar SS, Ting SA, Camargo CA Jr, Pallin DJ. U.S. Emergency department visits for meningitis, 1993-2008. *Acad Emerg Med.* 2012 Jun;19(6):632-9. doi: 10.1111/j.1553-2712.2012.01377.x.
- Ting SA, Sullivan AF, Boudreaux ED, Miller I, Camargo CA Jr. Trends in US emergency department visits for attempted suicide and self-inflicted injury, 1993-2008. *Gen Hosp Psychiatry.* 2012 May 2. [Epub ahead of print]
- Wall T. Recent trends in dental emergency department visits in the United States - 1997/1998 to 2007/2008. *J Public Health Dent.* 2012 Apr 27. doi: 10.1111/j.1752-7325.2012.00339.x. [Epub ahead of print]
- Govindarajan P, Gonzales R, Maselli JH, Claiborne Johnston S, Fahimi J, Poisson S, Stein JC. Regional Differences in Emergency Medical Services Use for Patients with Acute Stroke (Findings from the National Hospital Ambulatory Medical Care Survey Emergency Department Data File). *J Stroke Cerebrovasc Dis.* 2012 Mar 30. [Epub ahead of print]
- Anderson JB, Czosek RJ, Cnota J, Meganathan K, Knilans TK, Heaton PC. Pediatric Syncope: National Hospital Ambulatory Medical Care Survey Results. *J Emerg Med.* 2012 Mar 8. [Epub ahead of print]
- Heart disease and stroke statistics--2012 update: a report from the American Heart Association. Roger VL, Go AS, Lloyd-Jones DM, Benjamin EJ et al. *Circulation.* 2012 Jan 3;125(1):e2-e220. doi: 10.1161/CIR.0b013e31823ac046. Epub 2011 Dec 15. Erratum in: *Circulation.* 2012 Jun 5;125(22):e1002.
- Li C, Martin BC. Trends in emergency department visits attributable to acetaminophen overdoses in the United States: 1993-2007. *Pharmacoepidemiol Drug Saf.* 2011 Aug;20(8):810-8. doi: 10.1002/pds.2103. Epub 2011 Jan 18.

Mattos JL, Woodard CR, Payne SC. Trends in common rhinologic illnesses: Analysis of U.S. healthcare surveys 1995-2007. *Int Forum Allergy Rhinol*. 2011 Jan;1(1):3-12. doi: 10.1002/alr.20003. Epub 2010 Nov 18.

Valderrama AL, Fang J, Merritt RK, Hong Y. Cardiac arrest patients in the emergency department-National Hospital Ambulatory Medical Care Survey, 2001-2007. *Resuscitation*. 2011 Jun 12. [Epub ahead of print]

Yadav K, Cowan E, Wall S, Gennis P. Orbital fracture clinical decision rule development: burden of disease and use of a mandatory electronic survey instrument. *Acad Emerg Med*. 2011 Mar;18(3):313-6. doi: 10.1111/j.1553-2712.2011.01017.x. Epub 2011 Feb 25.

Menchine MD, Wiechmann W, Peters AL, Arora S. Trends in diabetes-related visits to US EDs from 1997 to 2007. *Am J Emerg Med*. 2011 May 11. [Epub ahead of print]

Bhattacharyya N, Kepnes LJ. Initial Impact of the Acute Otitis Externa Clinical Practice Guideline on Clinical Care. *Otolaryngol Head Neck Surg*. 145(3):414-417. Sep 2011. 2011 Apr 29. [Epub ahead of print]

Huang SS, Johnson KM, Ray GT, Wroe P, Lieu TA, Moore MR, Zell ER, Linder JA, Grijalva CG, Metlay JP, Finkelstein JA. Healthcare utilization and cost of pneumococcal disease in the United States. *Vaccine*. 2011 Mar 10. [Epub ahead of print]

Shih TY, Gaydos CA, Rothman RE, Hsieh YH. Poor Provider Adherence to the Centers for Disease Control and Prevention Treatment Guidelines in US Emergency Department Visits With a Diagnosis of Pelvic Inflammatory Disease. *Sex Transm Dis*. 2011 Feb 10. [Epub ahead of print]

Heart disease and stroke statistics--2011 update: a report from the American Heart Association. Roger VL, Go AS, Lloyd-Jones DM, Adams RJ et al. *Circulation*. 2011 Feb 1;123(4):e18-e209. doi: 10.1161/CIR.0b013e3182009701. Epub 2010 Dec 15. No abstract available. Erratum in: *Circulation*. 2011 Oct 18;124(16):e426. *Circulation*. 2011 Feb 15;123(6):e240.

Akinbami LJ, Moorman JE, Liu X. Asthma prevalence, health care use, and mortality: United States, 2005-2009. *Natl Health Stat Report*. 2011 Jan 12;(32):1-14.

Friedman BW, Chilstrom M, Bijur PE, Gallagher EJ. Diagnostic testing and treatment of low back pain in United States emergency departments: a national perspective. *Spine (Phila Pa 1976)*. 2010 Nov 15;35(24):E1406-11.

Shehab N, Sperling LS, Kegler SR, Budnitz DS. National estimates of emergency department visits for hemorrhage-related adverse events from clopidogrel plus aspirin and from warfarin. *Arch Intern Med*. 2010 Nov 22;170(21):1926-33.

Bekmezian A, Hersh AL, Maselli JH, Cabana MD. Pediatric Emergency Departments are More Likely Than General Emergency Departments to Treat Asthma Exacerbation With Systemic Corticosteroids. *J Asthma*. 2010 Nov 30. [Epub ahead of print]

Weinick RM, Burns RM, Mehrotra A. Many Emergency Department Visits Could Be Managed At Urgent Care Centers And Retail Clinics. *Health Affairs*, 29, no. 9 (2010): 1630-1636 doi: 10.1377/hlthaff.2009.0748

Meehan WP 3rd, Mannix R. Pediatric Concussions in United States Emergency Departments in the Years 2002 to 2006. *J Pediatr*. 2010 Aug 12. [Epub ahead of print]

Rudders SA, Espinola JA, Camargo CA Jr. North-south differences in US emergency department visits for acute allergic reactions. *Ann Allergy Asthma Immunol*. 2010 May;104(5):413-6.

- Yusuf HR, Atrash HK, Grosse SD, Parker CS, Grant AM. Emergency department visits made by patients with sickle cell disease: a descriptive study, 1999-2007. *Am J Prev Med.* 2010 Apr;38(4 Suppl):S536-41.
- Sacks JJ, Luo YH, Helmick CG. Prevalence of specific types of arthritis and other rheumatic conditions in the ambulatory health care system in the United States, 2001-2005. *Arthritis Care Res (Hoboken).* 2010 Apr;62(4):460-4.
- Wilper A, Woolhandler S, Himmelstein D, Nardin R. Impact of insurance status on migraine care in the United States: a population-based study. *Neurology.* 2010 Apr 13;74(15):1178-83.
- Barnes GD, Gafoor S, Wakefield T, Upchurch GR Jr, Henke P, Froehlich JB. National trends in venous disease. *J Vasc Surg.* 51(6):1467-1473. Jun 2010. 2010 Mar 19. [Epub ahead of print]
- Heart disease and stroke statistics--2010 update: a report from the American Heart Association. Lloyd-Jones D, Adams RJ, Brown TM, Carnethon M et al. *Circulation.* 2010 Feb 23;121(7):e46-e215. doi: 10.1161/CIRCULATIONAHA.109.192667. Epub 2009 Dec 17. No abstract available. Erratum in: *Circulation.* 2010 Mar 30;121(12):e260. Stafford, Randall [corrected to Roger, Véronique L]. *Circulation.* 2011 Oct 18;124(16):e425.
- Flores AR, Szilagyi PG, Auinger P, Fisher SG. Estimated burden of rotavirus-associated diarrhea in ambulatory settings in the United States. *Pediatrics.* 2010 Feb;125(2):e191-8. Epub 2010 Jan 25.
- Shah SS, Wood SM, Luan X, Ratner AJ. Decline in Varicella-Related Ambulatory Visits and Hospitalizations in the United States Since Routine Immunization Against Varicella. *Pediatr Infect Dis J.* 2009 Nov 25. [Epub ahead of print]
- Sung VW, Raker CA, Myers DL, Clark MA. Ambulatory care related to female pelvic floor disorders in the United States, 1995-2006. *Am J Obstet Gynecol.* 2009 Aug 14. [Epub ahead of print]
- Smith WM, Davidson TM, Murphy C. Regional variations in chronic rhinosinusitis, 2003-2006. *Otolaryngol Head Neck Surg.* 2009 Sep;141(3):347-52.
- Ananthakrishnan AN, McGinley EL, Saeian K, Binion DG. Trends in Ambulatory and Emergency Room Visits for Inflammatory Bowel Diseases in the United States: 1994-2005. *Am J Gastroenterol.* 2009 Oct 6. [Epub ahead of print]
- Newman-Toker DE, Camargo CA Jr, Hsieh YH, Pelletier AJ, Edlow JA. Disconnect between charted vestibular diagnoses and emergency department management decisions: a cross-sectional analysis from a nationally representative sample. *Acad Emerg Med.* 2009 Oct;16(10):970-7.
- Panackal AA, Halpern EF, Watson AJ. Cutaneous fungal infections in the United States: Analysis of the National Ambulatory Medical Care Survey (NAMCS) and National Hospital Ambulatory Medical Care Survey (NHAMCS), 1995-2004. *Int J Dermatol.* 2009 Jul;48(7):704-12.
- Btoush R, Campbell JC, Gebbie KM. Care provided in visits coded for intimate partner violence in a national survey of emergency departments. *Womens Health Issues.* 2009 Jul-Aug;19(4):253-62.
- Pines JM. Trends in the rates of radiography use and important diagnoses in emergency department patients with abdominal pain. *Med Care.* 2009 Jul;47(7):782-6.
- Taira BR, Singer AJ, Thode HC Jr, Lee CC. National epidemiology of cutaneous abscesses: 1996 to 2005. *Am J Emerg Med.* 2009 Mar;27(3):289-92.
- Pandya A, Larkin GL, Randles R, Beutrais AL, Smith RP. Epidemiological trends in psychosis-related Emergency Department visits in the United States, 1992-2001. *Schizophr Res.* 2009 Mar 19. [Epub ahead of print]

Decker SL, Schappert SM, Sisk JE. Use Of Medical Care For Chronic Conditions. *Health Affairs*, 28, no. 1 (2009): 26-35 doi: 10.1377/hlthaff.28.1.26

Heart disease and stroke statistics--2009 update: a report from the American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Lloyd-Jones D, Adams R, Carnethon M, De Simone G et al. *Circulation*. 2009 Jan 27;119(3):480-6. doi: 10.1161/CIRCULATIONAHA.108.191259. Erratum in: *Circulation*. 2009 Jan 27;119(3):e182.

Knapp JF, Simon SD, Sharma V. Quality of care for common pediatric respiratory illnesses in United States emergency departments: analysis of 2005 National Hospital Ambulatory Medical Care Survey Data. *Pediatrics*. 2008 Dec;122(6):1165-70.

Schuur JD, Justice A. Measuring Quality of Care in Syncope: Case Definition Affects Reported Electrocardiogram Use but Does Not Bias Reporting. *Acad Emerg Med*. 2008 Dec 6. [Epub ahead of print]

Btoush R, Campbell JC, Gebbie KM. Visits coded as intimate partner violence in emergency departments: characteristics of the individuals and the system as reported in a national survey of emergency departments. *J Emerg Nurs*. 2008 Oct;34(5):419-27. Epub 2008

Tsai CL, Sobrino JA, Camargo Jr CA. National Study of Emergency Department Visits for Acute Exacerbation of Chronic Obstructive Pulmonary Disease, 1993-2005. *Acad Emerg Med*. 2008 Oct 25. [Epub ahead of print]

Taira BR, Singer AJ, Thode HC Jr, Lee C. Burns in the emergency department: A national perspective. *J Emerg Med*. 2008 Aug 30. [Epub ahead of print]

Hersh AL, Chambers HF, Maselli JH, Gonzales R. National trends in ambulatory visits and antibiotic prescribing for skin and soft-tissue infections. *Arch Intern Med*. 2008 Jul 28;168(14):1585-91.

Kerber KA et al. Dizziness Presentations in U.S. Emergency Departments, 1995-2004. *Academic Emergency Medicine*. 15(8): 744-750. Published Online: 14 Jul 2008.

Larkin GL, Smith RP, Beautrais AL. Trends in US emergency department visits for suicide attempts, 1992-2001. *Crisis*. 2008;29(2):73-80.

Pallin DJ, Goldstein JN, Moussally JS, Pelletier AJ, Green AR, Camargo CA Jr. Seizure visits in US emergency departments: epidemiology and potential disparities in care. *Int J Emerg Med*. 2008 Jun;1(2):97-105. Epub 2008 Jun 5.

Pallin DJ, Egan DJ, Pelletier AJ, Espinola JA, Hooper DC, Camargo CA Jr. Increased US emergency department visits for skin and soft tissue infections, and changes in antibiotic choices, during the emergence of community-associated methicillin-resistant *Staphylococcus aureus*. *Ann Emerg Med*. 2008 Mar;51(3):291-8. Epub 2008 Jan 28. Comment in: *Ann Emerg Med*. 2008 Mar;51(3):299-302.

Shah ND, Chitkara DK, Locke GR, Meek PD, Talley NJ. Ambulatory Care for Constipation in the United States, 1993-2004. *Am J Gastroenterol*. 2008 Jun 12. [Epub ahead of print]

Larkin GL, Southwick SM. Trends in U.S. emergency department visits for anxiety-related mental health conditions, 1992-2001. Smith RP, *J Clin Psychiatry*. 2008 Feb;69(2):286-94.

Eneli IU, Keast DR, Rappley MD, Camargo CA Jr. Adequacy of two ambulatory care surveillance systems for tracking childhood obesity practice patterns. *Public Health*. 2008 Feb 28 [Epub ahead of print]



- Krishnan E, Lienesch D, Kwok CK. Gout in ambulatory care settings in the United States. *J Rheumatol*. 2008 Mar;35(3):498-501. Epub 2008 Feb 1.
- Richardson LC, Tangka FK. Ambulatory care for cancer in the United States: results from two national surveys comparing visits to physicians' offices and hospital outpatient departments. *J Natl Med Assoc*. 2007 Dec;99(12):1350-8.
- Sacks JJ, Helmick CG, Luo YH, Ilowite NT, Bowyer S. Prevalence of and annual ambulatory health care visits for pediatric arthritis and other rheumatologic conditions in the United States in 2001-2004. *Arthritis Rheum*. 2007 Nov 29;57(8):1439-1445 [Epub ahead of print]
- Ginde AA, Espinola JA, Camargo CA Jr. Trends and Disparities in U.S. Emergency Department Visits for Hypoglycemia, 1993-2005. *Diabetes Care*. 2007 Nov 19; [Epub ahead of print]
- Moorman JE, Rudd RA, Johnson CA, King M, Minor P, Bailey C, Scalia MR, Akinbami LJ; Centers for Disease Control and Prevention (CDC). National surveillance for asthma--United States, 1980-2004. *MMWR Surveill Summ*. 2007 Oct 19;56(8):1-54.
- Pham JC, Kelen GD, Pronovost PJ. National Study on the Quality of Emergency Department Care in the Treatment of Acute Myocardial Infarction and Pneumonia. *Acad Emerg Med* 2007; 14:856-863.
- Horii KA, Simon SD, Liu DY, Sharma V. Atopic dermatitis in children in the United States, 1997-2004: visit trends, patient and provider characteristics, and prescribing patterns. *Pediatrics*. 2007 Sep;120(3):e527-34.
- Fagenholz PJ, Sheridan RL, Harris NS, Pelletier AJ, Camargo CA Jr. National Study of Emergency Department Visits for Burn Injuries, 1993 to 2004. *J Burn Care Res*. 2007 Jul 27; [Epub ahead of print]
- Straight JD, Heaton PC. Emergency department care for victims of sexual offense. *Am J Health Syst Pharm*. 2007 Sep 1;64(17):1845-50.
- Sankaranarayanan J, Puumala SE. Epidemiology and characteristics of emergency departments visits by US adults with psychiatric disorder and antipsychotic mention from 2000 to 2004. *Curr Med Res Opin*. 2007 Jun;23(6):1375-85.
- Wang HE, Shapiro NI, Angus DC, Yealy DM. National estimates of severe sepsis in United States emergency departments. *Crit Care Med*. 2007 Jun 19; [Epub ahead of print]
- Gaeta TJ, Clark S, Pelletier AJ, Camargo CA. National study of US emergency department visits for acute allergic reactions, 1993 to 2004. *Ann Allergy Asthma Immunol*. 2007 Apr;98(4):360-5.
- Murman DH, McDonald AJ, Pelletier AJ, Camargo CA Jr. U.S. Emergency Department Visits for Supraventricular Tachycardia, 1993-2003. *Acad Emerg Med*. 2007 Apr 20; [Epub ahead of print]
- Li G, Lau JT, McCarthy ML, Schull MJ, Vermeulen M, Kelen GD. Emergency Department Utilization in the United States and Ontario, Canada. *Acad Emerg Med*. 2007 14(6): 582-584.
- McDonald AJ, Pelletier AJ, Ellinor PT, Camargo Jr CA. Increasing US Emergency Department Visit Rates and Subsequent Hospital Admissions for Atrial Fibrillation from 1993 to 2004. *Ann Emerg Med*. 2007 Apr 26; [Epub ahead of print]
- Sharp HJ, Denman D, Puumala S, Leopold DA. Treatment of acute and chronic rhinosinusitis in the United States, 1999-2002. *Arch Otolaryngol Head Neck Surg*. 2007 Mar;133(3):260-5.

- Pezzin LE, Keyl PM, Green GB. Disparities in the emergency department evaluation of chest pain patients. *Acad Emerg Med.* 2007 Feb;14(2):149-56.
- Taur Y, Smith MA. Adherence to the Infectious Diseases Society of America guidelines in the treatment of uncomplicated urinary tract infection. *Clin Infect Dis.* 2007 Mar 15;44(6):769-74. Epub 2007 Feb 1.
- Fagenholz PJ, Fernandez-Del Castillo C, Harris NS, Pelletier AJ, Camargo CA Jr. National study of United States emergency department visits for acute pancreatitis, 1993-2003. *BMC Emerg Med.* 2007 Jan 22;7(1):1 [Epub ahead of print]
- Riddle DL, Schappert SM. Volume and characteristics of inpatient and ambulatory medical care for neck pain in the United States: data from three national surveys. *Spine.* 2007 Jan 1;32(1):132-40; discussion 141.
- McKenzie MS, McFarland BH. Trends in antidepressant overdoses. *Pharmacoepidemiol Drug Saf.* 2007 Jan 3; [Epub ahead of print]
- Qureshi AI, Ezzeddine MA, Nasar A, Suri MF, Kirmani JF, Hussein HM, Divani AA, Reddi AS. Prevalence of elevated blood pressure in 563704 adult patients with stroke presenting to the ED in the United States. *Am J Emerg Med.* 2007 Jan;25(1):32-8.
- Martin BC, Barghout V, Cerulli A. Direct medical costs of constipation in the United States. *Manag Care Interface.* 2006 Dec;19(12):43-9.
- McCaig LF, McDonald LC, Mandal S, Jernigan DB. *Staphylococcus aureus*-associated skin and soft tissue infections in ambulatory care. *Emerg Infect Dis.* 2006 Nov. <http://www.cdc.gov/ncidod/EID/vol12no11/06-0190.htm>
- McGwin G Jr, Hall TA, Xie A, Owsley C. Trends in eye injury in the United States, 1992-2001. *Invest Ophthalmol Vis Sci.* 2006 Feb;47(2):521-7.
- Gao X, Outley J, Botteman M, Spalding J, Simon JA, Pashos CL. Economic burden of endometriosis. *Fertil Steril.* Dec;86(6):1561-72. Epub 2006 Oct 23.
- Strehlow MC, Emond SD, Shapiro NI, Pelletier AJ, Camargo CA Jr. National study of emergency department visits for sepsis, 1992 to 2001. *Ann Emerg Med.* 2006 Sep;48(3):326-31, 331.e1-3. Epub 2006 Jun 22.
- Sankaranarayanan J, Puumala SE, Kratochvil CJ. Diagnosis and treatment of adult attention-deficit/hyperactivity disorder at US ambulatory care visits from 1996 to 2003. *Curr Med Res Opin.* 2006 Aug;22(8):1475-91.
- Liptak GS, Stuart T, Auinger P. Health Care Utilization and Expenditures for Children with Autism: Data from U.S. National Samples. *J Autism Dev Disord.* 2006 Jul 20; [Epub ahead of print]
- Shaheen NJ, Hansen RA, Morgan DR, Gangarosa LM, Ringel Y, Thiny MT, Russo MW, Sandler RS. The Burden of Gastrointestinal and Liver Diseases, 2006. *Am J Gastroenterol.* 2006 Jul 18; [Epub ahead of print]
- Claassen CA, Trivedi MH, Shimizu IM, Stewart S, Larkin GL, Litovitz T. "Epidemiology of Nonfatal Deliberate Self-Harm in the United States as Described in Three Medical Databases." *Suicide and Life-Threatening Behavior* 36(2) April 2006.
- Goldstein JN, Camargo CA Jr, Pelletier AJ, Edlow JA. Headache in United States Emergency Departments: demographics, work-up and frequency of pathological diagnoses. *Cephalalgia.* 2006 Jun;26(6):684-690.
- Edlow JA, Kim S, Pelletier AJ, Camargo CA Jr. National Study on Emergency Department Visits for Transient Ischemic Attack, 1992-2001. *Acad Emerg Med.* 2006 Apr 11; [Epub ahead of print]

- Kunen S, Prejean C, Gladney B, Harper D, Mandry CV. Disposition of emergency department patients with psychiatric comorbidity: results from the 2004 National Hospital Ambulatory Medical Care Survey. *Emerg Med J*. 2006 Apr;23(4):274-5.
- Brown J. Diagnostic and Treatment Patterns for Renal Colic in US Emergency Departments. *Int Urol Nephrol*. 2006;38(1):87-92.
- Singer AJ, Thode HC Jr, Hollander JE. National trends in ED lacerations between 1992 and 2002. *Am J Emerg Med*. 2006 Mar;24(2):183-8.
- Kim SH, Boye M, Bhattacharyya SK, Coyne K, Dhawan R. Medical visits among adults with symptoms commonly associated with an overactive bladder. *BJU Int*. 2006 Mar;97(3):551-4.
- McGwin G Jr, Hall TA, Xie A, Owsley C. Trends in eye injury in the United States, 1992-2001. *Invest Ophthalmol Vis Sci*. 2006 Feb;47(2):521-7.
- Hugli O, Braun JE, Kim S, Pelletier AJ, Camargo CA Jr. United States emergency department visits for acute decompensated heart failure, 1992 to 2001. *Am J Cardiol*. 2005 Dec 1;96(11):1537-42. Epub 2005 Oct 19.
- Betz ME, Li G. Epidemiologic patterns of injuries treated in ambulatory care settings. *Ann Emerg Med*. 2005 Dec;46(6):544-51. Epub 2005 Sep 26.
- Gupta MA, Gupta AK, Chen SJ, Johnson AM. Comorbidity of rosacea and depression: an analysis of the National Ambulatory Medical Care Survey and National Hospital Ambulatory Care Survey--Outpatient Department data collected by the U.S. National Center for Health Statistics from 1995 to 2002. *Br J Dermatol*. 2005 Dec;153(6):1176-81.
- Grant WC, Jhaveri RR, McHutchison JG, Schulman KA, Kauf TL. Trends in health care resource use for hepatitis C virus infection in the United States. *Hepatology*. 2005 Dec;42(6):1406-13.
- Sutton MY, Sternberg M, Zaidi A, St Louis ME, Markowitz LE. Trends in pelvic inflammatory disease hospital discharges and ambulatory visits, United States, 1985-2001. *Sex Transm Dis*. 2005 Dec;32(12):778-84.
- Pallin DJ, Chng Y-M, McKay MP, Edmond JA, Pelletier AJ, Camargo CA. Epidemiology of Epistaxis in US Emergency Departments, 1992-2001. *Ann Emerg Med*. 2005;46:77-81.
- Coco A, Kleinhans E. Prevalence of primary HIV infection in symptomatic ambulatory patients. *Ann Fam Med*. 2005 Sep-Oct;3(5):400-4.
- Olfson M, Gameroff MJ, Marcus SC, Greenberg T, Shaffer D. Emergency treatment of young people following deliberate self-harm. *Arch Gen Psychiatry*. 2005 Oct;62(10):1122-8.
- Doshi A, Boudreaux ED, Wang N, Pelletier AJ, Camargo CA Jr. National Study of US Emergency Department Visits for Attempted Suicide and Self-Inflicted Injury, 1997-2001. *Ann Emerg Med*. 2005 Oct;46(4):369-375.
- Adekoya N. Infectious diseases treated in emergency departments: United States, 2001. *J Health Care Poor Underserved*. 2005 Aug;16(3):487-96.
- McGwin G Jr. Rate of eye injury in the United States. *Arch Ophthalmol*. 2005 Jul;123(7):970-6.
- Cook S, Weitzman M, Auinger P, Barlow SE. Screening and counseling associated with obesity diagnosis in a national survey of ambulatory pediatric visits. *Pediatrics*. 2005 Jul;116(1):112-6.

Larkin GL, Claassen CA, Emond JA, Pelletier AJ, Camargo CA. Trends in U.S. emergency department visits for mental health conditions, 1992 to 2001. *Psychiatr Serv.* 2005 Jun;56(6):671-7.

Mansbach JM, Emond JA, Camargo CA Jr. Bronchiolitis in US emergency departments 1992 to 2000: epidemiology and practice variation. *Pediatr Emerg Care.* 2005 Apr;21(4):242-7.

Diggs BS, Lenfesty B, Arthur M, Hedges JR, Newgard CD, Mullins RJ. The incidence and burden of ladder, structure, and scaffolding falls. *Acad Emerg Med.* 2005 Mar;12(3):267-70.

Bazarian JJ, McClung J, Shah MN, Cheng YT, Flesher W, Kraus J. Mild traumatic brain injury in the United States, 1998--2000. *Brain Inj* 2005 Feb;19(2):85-91.

Stern RS. Utilization of hospital and outpatient care for adverse cutaneous reactions to medications. *Pharmacoepidemiol Drug Saf.* 2005 Jan 11; [Epub ahead of print]

Runyan CW, Perkis D, Marshall SW, Johnson RM, Coyne-Beasley T, Waller AE, Black C, Baccaglini L. Unintentional injuries in the home in the United States Part II: Morbidity. *Am J Prev Med.* 2005 Jan;28(1):80-87.

Pletcher MJ, Maselli J, Gonzales R. Uncomplicated alcohol intoxication in the emergency department: an analysis of the National Hospital Ambulatory Medical Care Survey. *Am J Med.* 2004 Dec 1;117(11):863-7.

Gerson LW, Emond JA, Camargo CA Jr. US emergency department visits for hip fracture, 1992-2000. *Eur J Emerg Med.* 2004 Dec;11(6):323-8.

Chng Y, Edmond JA, McKay MP, Pelletier AJ. Epidemiology of Epistaxis in US Emergency Department Patients, 1992-2001. *Annals of Emergency Medicine*, October 2004, 44:4. S105.

Coon TP, Patel MM, Pitts ST, Miller M. Epidemiology of Heart Failure in the Emergency Department. *Annals of Emergency Medicine*, October 2004, 44:4. S4.

Coon TP, Patel MM. Syncope in Patients Older than 65: Do They All Require Admission? *Annals of Emergency Medicine*, October 2004, 44:4. S5.

Salen PN, Reed J, Schultz J. Pharyngitis treatment by emergency physicians from 1995 to 2001: Do our antibiotic choices conform to national guidelines? *Annals of Emergency Medicine*, October 2004, 44:4. S13.

Stevens J, Harman JS, Kelleher KJ. Ethnic and Regional Differences in Primary Care Visits for Attention-Deficit Hyperactivity Disorder. *J Dev Behav Pediatr.* 2004 Oct;25(5):318-325.

Simon TD, Bublitz C, Hambidge SJ. External causes of pediatric injury-related emergency department visits in the United States. *Acad Emerg Med.* 2004 Oct;11(10):1042-8.

Sun BC, Emond JA, Camargo CA Jr. Characteristics and admission patterns of patients presenting with syncope to U.S. emergency departments, 1992-2000. *Acad Emerg Med.* 2004 Oct;11(10):1029-34.

Larkin GL, Claassen CA, Emond JA, Camargo CA Jr. Trends in US emergency department visits for mental health, 1992-2001. *Acad Emerg Med.* 11(5), May 2004:486.

Bazarin J, Garcia M. All-terrain vehicle-related traumatic brain injuries in the US. *Acad Emerg Med.* 11(5), May 2004:514.

Riddle DL, Schappert SM. Volume of Ambulatory Care Visits and Patterns of Care for Patients Diagnosed With Plantar Fasciitis: A National Study of Medical Doctors. *Foot and Ankle Int'l* 2004;25(5):303-310.

- McDonald AJ 3rd, Wang N, Camargo CA Jr. US emergency department visits for alcohol-related diseases and injuries between 1992 and 2000. *Arch Intern Med.* 2004 Mar 8;164(5):531-7.
- Beckmann KR, Melzer-Lange MD, Gorelick MH. Emergency department management of sexually transmitted infections in US adolescents: Results from the National Hospital Ambulatory Medical Care Survey. *Ann Emerg Med.* 2004 Mar;43(3):333-8.
- Isaacs DM, Marinac J, Sun C. Radiograph use in low back pain: a United States Emergency Department database analysis. *J Emerg Med.* 2004 Jan;26(1):37-45.
- Lewis C, Lynch H, Johnston B. Dental complaints in emergency departments: a national perspective. *Ann Emerg Med.* 2003 Jul;42(1):93-9.
- Barbosa J, Pitts S, Bowron J. Geriatric Falls in the ED: A 7-year Longitudinal Analysis of the National Hospital Ambulatory Medical Care Survey. *Acad Emerg Med* 2002. 9: 385-a
- Edlow JA, Kim S, Emond JA, Camargo CA Jr. US Emergency Department Visits for Transient Ischemic Attack, 1992-2000. *Acad Emerg Med* 2003 May;10(5):432
- Wright DW, Pitts SR, Ratcliff JJ, Patel MM. Perception of Stroke Acuity in US Emergency Departments. *Acad Emerg Med* 2003 May;10(5):492
- LaValley JM, Crandall CS, Braude D. Nausea and Vomiting Management in US Emergency Departments. *Acad Emerg Med* 2003 May;10(5):461
- Foxman B. Epidemiology of urinary tract infections: Incidence, morbidity, and economic costs. *Dis Mon* 2003 Feb;49(2):53-70.
- Oster, A, Bindman AB. Emergency department visits for ambulatory sensitive conditions: Insights into preventable hospitalizations. *Med Care* 2003; 41:198-207. (Also see commentary by Kellerman AL, Haley L, Jr. Hospital emergency departments: where the doctor is always "in". *Med Care* 2003; 41:195-197.)
- Mannino DM, Homa DM, Akinbami LJ, Ford ES, Redd SC. Chronic obstructive pulmonary disease surveillance-United States, 1971-2000. *Respir Care* 2002 Oct;47(10):1184-99
- Hollowell J, Lundgren A, Johansson S. Irritable bowel syndrome - Patterns of ambulatory health care and resource use in the United States, 1993-1997. *Digestive Diseases and Sciences* 47 (5): 1115-1121 MAY 2002
- Amey AL, Bishai D. Measuring the quality of medical care for women who experience sexual assault with data from the National Hospital Ambulatory Medical Care Survey. *Annals of Emergency Medicine.* June 2002;30(6):653-655
- Gaeta T, Roberts J, Kliot B, Camargo CA, Jr. ED Management of Isolated Long Bone Fractures between 1992 and 1999: National Trends in ED Use of Analgesics. *Acad. Emerg. Med.* 2002 9: 419
- Vinson DR. Treatment patterns of isolated benign headache in US emergency departments. *Annals of Emergency Medicine* 39 (3): 215-222 Mar 2002
- Chung KC, Spilson SV. The frequency and epidemiology of hand and forearm fractures in the United States. *J Hand Surg [Am]* 2001 Sep;26(5):908-15.

- Bull MJ, et al. Falls from heights: Windows, roofs, and balconies. *Pediatrics* 2001 May;107(5).
- Phelan KJ, Khoury J, Kalkwarf HJ, Lanphear BP. Trends and patterns of playground injuries in United States children and adolescents. *Ambulatory Pediatrics* 1;(4):227-233 Jul-Aug 2001.
- Gaeta T, Woods T. Practice Variation in the Management of Acute Allergic Reactions in the Emergency Department: A Review of the NHAMC Survey. *Acad Emerg Med.* 2000 7: 470-a.
- Burt CW, Overpeck MD. Emergency visits for sports-related injuries. *Annals of Emergency Medicine* March 2001; 37:301-308.
- Powell EC, Tanz RR. Cycling injuries treated in emergency departments: need for bicycle helmets among preschoolers. *Arch Pediatr Adolesc Med* 2000 Nov;154(11):1096-100.
- Hootman J, Helmick C, Schappert S. Characteristics of chronic arthritis and other rheumatic condition-related ambulatory care visits, United States, 1997. *Ann Epidemiol* 2000 Oct 1;10(7):454.
- Nicholson WK, Ellison SA. Patterns of ambulatory care use for gynecologic conditions in the United States. *Obstet Gynecol* 2000 Apr 1;95(4 Suppl 1):S27
- Guerrero JL, Thurman DJ, Sniezek JE. Emergency department visits associated with traumatic brain injury: United States, 1995-1996. *Brain Inj* 2000 Feb;14(2):181-6
- Jager TE, Weiss HB, Coben JH, Pepe PE. Traumatic brain injuries evaluated in U.S. emergency departments, 1992-1994. *Acad Emerg Med* 2000 Feb;7(2):134-40
- Liu T, Sayre MR, Carleton SC. Emergency medical care: types, trends, and factors related to nonurgent visits. *Acad Emerg Med* 1999 Nov;6(11):1147-52
- Rovi S, Johnson MS. Physician use of diagnostic codes for child and adult abuse. *Am Med Womens Assoc* 1999 Fall;54(4):211-4
- McCaig LF, Burt CW. Poisoning-related visits to emergency departments in the United States, 1993-96. *Journal of Toxicology-Clinical Toxicology* 1999. 37(7):817-826.
- Burt CW. Summary statistics for acute cardiac ischemia and chest pain visits to United States EDs, 1995-1996. *Am J Emerg Med* 1999 Oct;17(6):552-9.
- Mead PS et al. Food-related illness and death in the United States. *Emerging Infectious Diseases* September-October 1999 5(5):607-625.
- Parhsall, MB. Adult emergency visits for chronic cardiorespiratory disease: does dyspnea matter? *Nurs Res* 1999 Mar-Apr;48(2):62-70.
- Halpern MT, Palmer CS, Seidlin M. Treatment patterns for otitis externa. *J Am Board Fam Pract* 1999 Jan-Feb;12(1):1-7
- Mathers LJ, Weiss HB. Incidence and characteristics of fall-related emergency department visits. *Acad Emerg Med* 1998 Nov;5(11):1064-70.
- McCaig LF, Burt CW, Stussman BJ. A comparison of work-related injury visits and other injury visits to emergency departments in the United States, 1995-1996. *J Occup Environ Med.* 1998 Oct;40(10):870-5.

Nash EA et al. Patterns of emergency department visits for disorders of the eye and ocular adnexa. *Arch Ophthalmol* 1998 Sep;116(9):1222-6.

Li G, Keyl PM, Rothman R, Chanmugam A, Kelen GD. Epidemiology of alcohol-related emergency department visits. *Acad Emerg Med* 1998 Aug;5(8):788-795.

Curtis KM, Hillis SD, Kieke BA Jr, Brett KM, Marchbanks PA, Peterson HB. Visits to emergency departments for gynecologic disorders in the United States, 1992-1994. *Obstet Gynecol* 1998 Jun;91(6):1007-1012.

Weiss HB, Friedman DI, Coben J. Incidence of dog bite injuries treated in emergency departments. *JAMA* 1998; 279:51-53.

#### **4a. DIAGNOSTIC, SCREENING, and PREVENTIVE SERVICES, NONMEDICATION THERAPY – NCHS REPORTS**

Blood pressure measurements at emergency department visits by adults: United States, 2007-2008 [Data Brief, No. 72]

#### **4b. DIAGNOSTIC, SCREENING, and PREVENTIVE SERVICES, NONMEDICATION THERAPY - JOURNAL ARTICLES USING NHAMCS DATA**

Clay CE, Ling A, Bennett CL. HIV Testing at Visits to United States Emergency Departments, 2018. *J Acquir Immune Defic Syndr*. 2022 Feb 28. doi: 10.1097/QAI.0000000000002945. Online ahead of print. PMID: 35234735

Oulee A, Javadi SS, Martin A, Do T, Wu JJ. Phototherapy trends in dermatology 2015-2018. *J Dermatolog Treat*. 2021 Dec 20:1-2. doi: 10.1080/09546634.2021.2019660. Online ahead of print. PMID: 34913808

Dubey P, Saxena A, Jordan JE, Xian Z, Javed Z, Jindal G, Vahidy F, Sostman DH, Nasir K. Contemporary national trends and disparities for head CT use in emergency department settings: Insights from National Hospital Ambulatory Medical Care Survey (NHAMCS) 2007-2017. *J Natl Med Assoc*. 2022 Jan 2:S0027-9684(21)00222-4. doi: 10.1016/j.jnma.2021.12.001. Online ahead of print. PMID: 34986985

Kimmel SD, Anderson ES, Larochelle MR. HIV testing among people with and without substance use disorder in emergency departments: A nationwide cohort study. *Am J Emerg Med*. 2021 May 10;48:269-272. doi: 10.1016/j.ajem.2021.05.019. Online ahead of print. PMID: 34015610

Cavallaro SC, Monuteaux MC, Chaudhari PP, Michelson KA. [Use of Neuroimaging for Children With Seizure in General and Pediatric Emergency Departments](#). *J Emerg Med*. 2021 Jan 5:S0736-4679(20)31153-7. doi: 10.1016/j.jemermed.2020.10.044. Online ahead of print. *J Emerg Med*. 2021. PMID: 33419652

Wang RC, Kornblith AE, Grupp-Phelan J, Smith-Bindman R, Kao LS, Fahimi J. Trends in Use of Diagnostic Imaging for Abdominal Pain in U.S. Emergency Departments. *AJR Am J Roentgenol*. 2020 Nov 19:1-9. doi: 10.2214/AJR.19.22667. Online ahead of print. PMID: 33211574

Chou SC, Nagurney JM, Schuur JD, Weiner SG. Advanced imaging and trends in hospitalizations from the emergency department. *PLoS One*. 2020 Sep 16;15(9):e0239059. doi: 10.1371/journal.pone.0239059. eCollection 2020. PMID: 32936833

Ross AB, Kalia V, Chan BY, Li G. The influence of patient race on the use of diagnostic imaging in United States emergency departments: data from the National Hospital Ambulatory Medical Care survey. *BMC Health Serv Res*. 2020 Sep 7;20(1):840. doi: 10.1186/s12913-020-05698-1. PMID: 32894129 Free PMC article.

- Hoover KW, Huang YA, Tanner ML, Zhu W, Gathua NW, Pitasi MA, DiNenno EA, Nair S, Delaney KP. HIV Testing Trends at Visits to Physician Offices, Community Health Centers, and Emergency Departments - United States, 2009-2017. *MMWR Morb Mortal Wkly Rep.* 2020 Jun 26;69(25):776-780. doi: 10.15585/mmwr.mm6925a2. PMID: 32584800
- Olatosi B, Siddiqi KA, Conserve DF. Towards ending the human immunodeficiency virus epidemic in the US: State of human immunodeficiency virus screening during physician and emergency department visits, 2009 to 2014. *Medicine (Baltimore).* 2020 Jan;99(2):e18525. doi: 10.1097/MD.00000000000018525.
- Zafar S, Sebestyen K, Qureshi Z, Schein O, Johnson P, Srikumaran D, Woreta FA. National trends in imaging rates for eye-related emergency department visits in the United States. *Am J Ophthalmol.* 2019 Nov 12. pii: S0002-9394(19)30544-6. doi: 10.1016/j.ajo.2019.11.007. [Epub ahead of print]
- Rogers ES, Wysota CN. Tobacco Screening and Treatment of Patients With a Psychiatric Diagnosis, 2012-2015. *Am J Prev Med.* 2019 Nov;57(5):687-694. doi: 10.1016/j.amepre.2019.06.009. Epub 2019 Sep 27.
- White JL, Hollander JE, Pines JM, Mullins PM, Chang AM. Electrocardiogram and cardiac testing among patients in the emergency department with seizure versus syncope. *Clin Exp Emerg Med.* 2019 Jun;6(2):106-112. doi: 10.15441/ceem.18.003. Epub 2019 Jun 28.
- Schrager J, Patzer R, Kim J, Pitts S, Chokshi F, Phillips J, Zhang X. Racial and Ethnic Differences in Diagnostic Imaging Utilization During Adult Emergency Department Visits in the United States, 2005 to 2014. *J Am Coll Radiol.* 2019 Mar 29. pii: S1546-1440(19)30305-9. doi: 10.1016/j.jacr.2019.03.002. [Epub ahead of print]
- Zhang X, Kim J, Patzer RE, Pitts SR, Chokshi FH, Schrager JD. Advanced diagnostic imaging utilization during emergency department visits in the United States: A predictive modeling study for emergency department triage. *PLoS One.* 2019 Apr 9;14(4):e0214905. doi: 10.1371/journal.pone.0214905. eCollection 2019.
- Roberts B, Courington R, VerHage E, Ward-Peterson M, Lozano J. The association between insurance status and diagnostic imaging for acute abdominal pain among emergency department patients in the United States, 2005-2014. *Curr Med Res Opin.* 2019 Feb 25:1. doi: 10.1080/03007995.2019.1585337. [Epub ahead of print]
- Burstein B, Upton JEM, Terra HF, Neuman MI. Use of CT for Head Trauma: 2007-2015. *Pediatrics.* 2018 Sep 4. pii: e20180814. doi: 10.1542/peds.2018-0814. [Epub ahead of print]
- Chou SC, Nagurney JM, Weiner SG, Hong AS, Wharam JF. Trends in advanced imaging and hospitalization for emergency department syncope care before and after ACEP clinical policy. *Am J Emerg Med.* 2018 Aug 22. pii: S0735-6757(18)30680-6. doi: 10.1016/j.ajem.2018.08.043. [Epub ahead of print]
- Yun BJ, Rodriguez RM, Prabhakar AM, Peak DA, Baymon DE, Raja AS. Utilization of chest CT for injured patients during visits to U.S. emergency departments: 2012-2015. *Am J Emerg Med.* 2018 Aug 8. pii: S0735-6757(18)30659-4. doi: 10.1016/j.ajem.2018.08.024. [Epub ahead of print]
- Yun BJ, Borczuk P, Zachrison KS, Goldstein JN, Berlyand Y, Raja AS. Utilization of head CT during injury visits to United States emergency departments: 2012-2015. *Am J Emerg Med.* 2018 May 18. pii: S0735-6757(18)30395-4. doi: 10.1016/j.ajem.2018.05.018. [Epub ahead of print]
- Niles LM, Goyal MK, Badolato GM, Chamberlain JM, Cohen JS. US Emergency Department Trends in Imaging for Pediatric Nontraumatic Abdominal Pain. *Pediatrics.* 2017 Sep 15. pii: e20170615. doi: 10.1542/peds.2017-0615. [Epub ahead of print]
- Yun BJ, Chou SC, Nagurney JM, White BA, Wittmann CW, Raja AS. ED utilization of medical clearance testing for psychiatric admission: National Hospital Ambulatory Medical Care Survey analysis. *Am J Emerg Med.* 2017 Oct 4. pii: S0735-6757(17)30804-5. doi: 10.1016/j.ajem.2017.10.002. [Epub ahead of print]



- Jamal A, Dube SR, King BA. Tobacco Use Screening and Counseling During Hospital Outpatient Visits Among US Adults, 2005-2010. *Prev Chronic Dis*. 2015 Aug 20;12:E132. doi: 10.5888/pcd12.140529.
- Cawkwell PB, Lee L, Shearston J, Sherman SE, Weitzman M. The Difference a Decade Makes: Smoking Cessation Counseling and Screening at Pediatric Visits. *Nicotine Tob Res*. 2016 Jul 11. pii: ntw146. [Epub ahead of print]
- Sigmund AE, Stevens ER, Blitz JD, Ladapo JA. Use of Preoperative Testing and Physicians' Response to Professional Society Guidance. *JAMA Intern Med*. 2015 Jun 8. doi: 10.1001/jamainternmed.2015.2081. [Epub ahead of print]
- Hussein W, Mullins PM, Alghamdi K, Sarani B, Pines JM. Trends in Advanced Computed Tomography Use for Injured Patients in United States Emergency Departments: 2007-2010. *Acad Emerg Med*. 2015 Jun;22(6):663-9. doi: 10.1111/acem.12684. Epub 2015 May 20.
- Shahi V, Brinjikji W, Cloft HJ, Thomas KB, Kallmes DF. Trends in CT Utilization for Pediatric Fall Patients in US Emergency Departments. *Acad Radiol*. 2015 May 6. pii: S1076-6332(15)00114-2. doi: 10.1016/j.acra.2015.02.016. [Epub ahead of print]
- Brinjikji W, Kallmes DF, Cloft HJ. [Rising Utilization of CT in Adult Fall Patients](#). *AJR Am J Roentgenol*. 2015 Mar;204(3):558-62. doi: 10.2214/AJR.14.13107.
- Goyal MK, Hersh AL, Badolato G, Luan X, Trent M, Zaoutis T, Chamberlain JM. Underuse of pregnancy testing for women prescribed teratogenic medications in the emergency department. *Acad Emerg Med*. 2015 Feb;22(2):192-6. doi: 10.1111/acem.12578. Epub 2015 Jan 29.
- Ip IK, Raja AS, Gupta A, Andruchow J, Sodickson A, Khorasani R. Impact of clinical decision support on head computed tomography use in patients with mild traumatic brain injury in the ED. *Am J Emerg Med*. 2014 Nov 13. pii: S0735-6757(14)00794-3. doi: 10.1016/j.ajem.2014.11.005. [Epub ahead of print]
- Makam AN, Nguyen OK. Use of Cardiac Biomarker Testing in the Emergency Department. *JAMA Intern Med*. 2014 Nov 17. doi: 10.1001/jamainternmed.2014.5830. [Epub ahead of print]
- Blaschke AJ, Shapiro DJ, Pavia AT, Byington CL, Ampofo K, Stockmann C, Hersh AL. A National Study of the Impact of Rapid Influenza Testing on Clinical Care in the Emergency Department. *J Pediatric Infect Dis Soc*. 2014 Jun;3(2):112-118. Epub 2013 Nov 13.
- Makam AN, Auerbach AD, Steinman MA. Blood culture use in the emergency department in patients hospitalized with respiratory symptoms due to a nonpneumonia illness. *J Hosp Med*. 2014 Apr 22. doi: 10.1002/jhm.2205. [Epub ahead of print]
- Schuur JD, Chambers JG, Hou PC. Urinary Catheter Use and Appropriateness in U.S. Emergency Departments, 1995-2010. *Acad Emerg Med*. 2014 Mar;21(3):292-300. doi: 10.1111/acem.12334.
- Tai M, Merchant RC. HIV testing in US emergency departments, outpatient ambulatory medical departments, and physician offices, 1992-2010. *AIDS Care*. 2014 Jan 2. [Epub ahead of print]
- Yamamoto A, McCormick MC, Burris HH. US Provider-Reported Diet and Physical Activity Counseling to Pregnant and Non-pregnant Women of Childbearing Age During Preventive Care Visits. *Matern Child Health J*. 2013 Dec 5. [Epub ahead of print]
- Goyal M, Hersh A, Luan X, Mollen C, Localio R, Trent M, Zaoutis T. Frequency of pregnancy testing among adolescent emergency department visits. *Acad Emerg Med*. 2013 Aug;20(8):816-21. doi: 10.1111/acem.12186.

Feng LB, Pines JM, Yusuf HR, Grosse SD. U.S. Trends in computed tomography use and diagnoses in emergency department visits by patients with symptoms suggestive of pulmonary embolism, 2001-2009. *Acad Emerg Med*. 2013 Oct;20(10):1033-40. doi: 10.1111/acem.12221.

Knapp JF, Simon SD, Sharma V. Variation and Trends in ED Use of Radiographs for Asthma, Bronchiolitis, and Croup in Children. *Pediatrics*. 2013 Aug;132(2):245-52. doi: 10.1542/peds.2012-2830. Epub 2013 Jul 22.

Berdahl CT, Vermeulen MJ, Larson DB, Schull MJ. Emergency Department Computed Tomography Utilization in the United States and Canada. *Ann Emerg Med*. 2013 May 14. doi:pii: S0196-0644(13)00141-8. 10.1016/j.annemergmed.2013.02.018. [Epub ahead of print]

Berkowitz Z, Saraiya M, Sawaya GF. Cervical Cancer Screening Intervals, 2006 to 2009: Moving Beyond Annual Testing. *JAMA Intern Med*. Epub ahead of print: April 8, 2013. doi:10.1001/jamainternmed.2013.368

Zallman L, Woolhandler S, Himmelstein D, Bor DH, McCormick D. Computed tomography associated cancers and cancer deaths following visits to U.S. emergency departments. *Int J Health Serv*. 2012;42(4):591-605.

Shapiro DJ, Hersh AL, Cabana MD, Sutherland SM, Patel AI. Hypertension Screening During Ambulatory Pediatric Visits in the United States, 2000-2009. *Pediatrics*. 130(4):604-610. Oct 2012. 2012 Sep 17. [Epub ahead of print]

Fahimi J, Herring A, Harries A, Gonzales R, Alter H. Computed Tomography Use Among Children Presenting to Emergency Departments With Abdominal Pain. *Pediatrics*. 2012 Oct 8. [Epub ahead of print]

Hoover JB, Tao G, Heffelfinger JD. Monitoring HIV testing at visits to emergency departments in the United States: Very low rate of HIV testing. *J Acquir Immune Defic Syndr*. 2012 Sep 26. [Epub ahead of print]

Kepka D, Berkowitz Z, Yabroff KR, Roland K, Saraiya M. Human papillomavirus vaccine practices in the USA: do primary care providers use sexual history and cervical cancer screening results to make HPV vaccine recommendations? *Sex Transm Infect*. 88(6):433-435. Oct 2012. 2012 Apr 21. [Epub ahead of print]

Hryhorczuk AL, Mannix RC, Taylor GA. Pediatric Abdominal Pain: Use of Imaging in the Emergency Department in the United States from 1999 to 2007. *Radiology*. 2012 Apr 24. [Epub ahead of print]

Coco AS, O'Gurek DT. Increased emergency department computed tomography use for common chest symptoms without clear patient benefits. *J Am Board Fam Med*. 2012 Jan;25(1):33-41.

Simon AE, Lukacs SL, Mendola P. Emergency department laboratory evaluations of Fever without source in children aged 3 to 36 months. *Pediatrics*. 2011 Dec;128(6):e1368-75. Epub 2011 Nov 21.

Easter BD, Fischer C, Fisher J. The use of mechanical ventilation in the ED. *Am J Emerg Med*. 2011 Nov 17. [Epub ahead of print]

Hyams ES, Korley FK, Pham JC, Matlaga BR. Trends in Imaging Use During the Emergency Department Evaluation of Flank Pain. *J Urol*. 2011 Oct 18. [Epub ahead of print]

Gilbert JW, Johnson KM, Larkin GL, Moore CL. Atraumatic headache in US emergency departments: recent trends in CT/MRI utilisation and factors associated with severe intracranial pathology. *Emerg Med J*. 2011 Aug 19. [Epub ahead of print]

Kocher KE, Meurer WJ, Fazel R, Scott PA, Krumholz HM, Nallamothu BK. National Trends in Use of Computed Tomography in the Emergency Department. *Ann Emerg Med*. 2011 Aug 9. [Epub ahead of print]

Tsze DS, Asnis LM, Merchant RC, Amanullah S, Linakis JG. Increasing Computed Tomography Use for Patients With Appendicitis and Discrepancies in Pain Management Between Adults and Children: An Analysis of the NHAMCS. *Ann Emerg Med*. 2011 Jul 28. [Epub ahead of print]

- Westphalen AC, Hsia RY, Maselli JH, Wang R, Gonzales R. Radiological imaging of patients with suspected urinary tract stones: national trends, diagnoses, and predictors. *Acad Emerg Med*. 2011 Jul;18(7):699-707. doi: 10.1111/j.1553-2712.2011.01103.x.
- Lee JW, Berkowitz Z, Saraiya M. Low-risk human papillomavirus testing and other nonrecommended human papillomavirus testing practices among U.S. Health care providers. *Obstet Gynecol*. 2011 Jul;118(1):4-13.
- Stein JC, Jacoby VL, Vittinghoff E, Wang R, Kwan E, Reynolds T, McAlpine I, Gonzales R. Differential use of diagnostic ultrasound in U.S. Emergency departments by time of day. *West J Emerg Med*. 2011 Feb;12(1):90-5.
- Larson DB, Johnson LW, Schnell BM, Goske MJ, Salisbury SR, Forman HP. Rising Use of CT in Child Visits to the Emergency Department in the United States, 1995-2008. *Radiology*. 2011 Apr 5. [Epub ahead of print]
- Larson DB, Johnson LW, Schnell BM, Salisbury SR, Forman HP. National Trends in CT Use in the Emergency Department: 1995-2007. *Radiology*. 2010 Nov 30. [Epub ahead of print]
- Korley FK, Pham JC, Kirsch TD. Use of advanced radiology during visits to US emergency departments for injury-related conditions, 1998-2007. *JAMA*. 2010 Oct 6;304(13):1465-71.
- Kerber KA, Schweigler L, West BT, Fendrick AM, Morgenstern LB. Value of computed tomography scans in ED dizziness visits: analysis from a nationally representative sample. *Am J Emerg Med*. 2009 Sep 18. [Epub ahead of print]
- Mannix R, Bourgeois FT, Schutzman SA, Bernstein A, Lee LK. Neuroimaging for pediatric head trauma: do patient and hospital characteristics influence who gets imaged? *Acad Emerg Med*. 2010 Jul;17(7):694-700.
- Saraiya M, McCaig LF, Ekwueme DU. Ambulatory care visits for Pap tests, abnormal Pap test results, and cervical cancer procedures in the United States. *Am J Manag Care*. 2010 Jun 1;16(6):e137-44.
- Schuur JD, Tibbetts SA, Pines JM. Pregnancy Testing in Women of Reproductive Age in US Emergency Departments, 2002 to 2006: Assessment of a National Quality Measure. *Ann Emerg Med*. 2009 Nov 20. [Epub ahead of print]
- Merchant RC, Catanzaro BM. HV testing in US EDs, 1993-2004. *Am J Emerg Med*. 2009 Sep;27(7):868-74.
- Metz SM, Raval M. Predictors of health education and nonmedication treatment in adult outpatients with diagnosed cardiac conditions. *Prev Cardiol*. 2009 Summer;12(3):144-8.
- Hoover K, Tao G, Kent C. Low rates of both asymptomatic chlamydia screening and diagnostic testing of women in US outpatient clinics. *Obstet Gynecol*. 2008 Oct;112(4):891-8.
- Hsieh YH, Rothman RE, Newman-Toker DE, Kelen GD. National estimation of rates of HIV testing in US emergency departments 1993-2005: baseline prior to the 2006 Centers for Disease Control and Prevention recommendations. *AIDS*. 2008 Oct 18;22(16):2127-34.
- Branner CM, Koyama T, Jensen GL. Racial and ethnic differences in pediatric obesity-prevention counseling: national prevalence of clinician practices. *Obesity (Silver Spring)*. 2008 Mar;16(3):690-4. Epub 2008 Jan 17.
- Mehrotra A, Zaslavsky AM, Ayanian JZ. Preventive health examinations and preventive gynecological examinations in the United States. *Arch Intern Med*. 2007 Sep 24;167(17):1876-83.
- McCaig LF, Clifford McDonald L, Cohen AL, Kuehnert MJ. Increasing Blood Culture Use at US Hospital Emergency Department Visits, 2001 to 2004. *Ann Emerg Med*. 2007 Mar 23; [Epub ahead of print]

Brown DW, Xie J, Mensah GA. Electrocardiographic recording and timeliness of clinician evaluation in the emergency department in patients presenting with chest pain. *Am J Cardiol*. 2007 Apr 15;99(8):1115-8. Epub 2007 Feb 21.

Larkin GL, Claassen C. Trends in emergency department use of gastric lavage for poisoning events in the United States, 1993-2003. *Clin Toxicol (Phila)*. 2007;45(2):164-8.

Schwarz EB, Maselli J, Gonzales R. Contraceptive counseling of diabetic women of reproductive age. *Obstet Gynecol*. 2006 May;107(5):1070-4.

Rao G. Pediatric obesity-related counseling in the outpatient setting. *Ambul Pediatr*. 2005 Nov-Dec;5(6):377-9.

Huppert JS, Goodman E, Khoury J, Slap G. Sexually transmitted infection testing and screening in hospital-based primary care visits by women. *Obstet Gynecol*. 2005 Feb;105(2):390-6.

Lin SX, Hyman D, Larson E. Provision of health counseling in office-based practices and hospital outpatient clinics. *Prev Med*. 2005 May;40(5):542-6.

Brown J, Shesser R. Computed Tomography Scan Use in the Emergency Department Evaluation of Patients with Nonspecific Abdominal Pain is Increasing Despite Decreased Patient Acuity. *Annals of Emergency Medicine*, October 2004, 44:4. S32.

Brown, J. Shesser R. Computed Tomography Scan Use is Rising Faster than Other Investigational Modalities in the Emergency Department Evaluation of Patients. *Annals of Emergency Medicine*, October 2004, 44:4. S33.

Ma J, Urizar GG Jr, Alehegn T, Stafford RS. Diet and physical activity counseling during ambulatory care visits in the United States. *Prev Med*. 2004 Oct;39(4):815-22.

Mellen PB, Palla SL, Goff DC Jr, Bonds DE. Prevalence of nutrition and exercise counseling for patients with hypertension. *Gen Intern Med*. 2004 Sep;19(9):917-24.

Tanski SE, Klein JD, Winickoff JP, Auinger P, Weitzman M. Tobacco counseling at well-child and tobacco-influenced illness visits: opportunities for improvement. *Pediatrics* 2003 Feb;111(2):E162-7.

## **5a. PROVIDERS SEEN – NCHS REPORTS**

[Physician Assistant and Advance Practice Nurse Care in Hospital Outpatient Departments: United States, 2008-2009](#). [Data Brief No. 77]

## **5b. PROVIDERS SEEN - JOURNAL ARTICLES USING NHAMCS DATA**

Peck GM, Fleischer AB Jr. Workforce Requirements for Skin Cancer and Related Skin Tumors Continue to Increase: Clinicians Expend an Average of 1,740 Full-Time Effort Years Annually. *Dermatol Surg*. 2022 Mar 2. doi: 10.1097/DSS.0000000000003413. Online ahead of print. PMID: 35245231

Wu F, Darracq MA. Physician assistant and nurse practitioner utilization in U.S. emergency departments, 2010 to 2017. *Am J Emerg Med*. 2020 Jun 28;38(10):2060-2064. doi: 10.1016/j.ajem.2020.06.032. Online ahead of print. PMID: 33142175

Cabalatungan SN, Thode HC, Singer AJ. Emergency medicine physicians infrequently perform pediatric critical procedures: a national perspective. *Clin Exp Emerg Med.* 2020 Mar;7(1):52-60. doi: 10.15441/ceem.19.004. Epub 2020 Mar 31.

Wu F, Darracq MA. Physician assistant utilization in U.S. emergency departments; 2010 to 2017. *Am J Emerg Med.* 2020 Feb 10. pii: S0735-6757(20)30082-6. doi: 10.1016/j.ajem.2020.02.009. [Epub ahead of print]

Lau DT. Is prescribing by PAs and NPs comparable to physician prescribing? *JAAPA.* 2019 Feb;32(2):52.

Mafi JN, Wee CC, Davis RB, Landon BE. Comparing Use of Low-Value Health Care Services Among U.S. Advanced Practice Clinicians and Physicians. *Ann Intern Med.* 2016 Jun 21. doi: 10.7326/M15-2152. [Epub ahead of print]

Salibian AA, Mahboubi H, Patel MS, Kuan EC, Malinoski DJ, Vagefi PA, Djalilian HR. The National Ambulatory Medical Care Survey: PAs and NPs in outpatient surgery. *JAAPA.* 2016 May;29(5):47-53. doi: 10.1097/01.JAA.0000482302.40692.20.

Benitez J, Coplan B, Dehn RW, Hooker RS. [Payment source and provider type in the US healthcare system.](#) *JAAPA.* 2015 Mar;28(3):46-53. doi: 10.1097/01.JAA.0000460924.36251.eb.

Pitts SR, Morgan SR, Schragger JD, Berger TJ. Emergency department resource use by supervised residents vs attending physicians alone. *JAMA.* 2014 Dec 10;312(22):2394-400. doi: 10.1001/jama.2014.16172.

Brown DF, Sullivan AF, Espinola JA, Camargo CA Jr. Continued rise in the use of mid-level providers in US emergency departments, 1993-2009. *Int J Emerg Med.* 2012 May 23;5(1):21. [Epub ahead of print]

Bhattacharyya N. Involvement of physician extenders in ambulatory otolaryngology practice. *Laryngoscope.* 122(5):1010-1013. May 2012. 2012 Mar 27. doi: 10.1002/lary.23274. [Epub ahead of print]

Zallman L, Ma J, Xiao L, Lasser KE. Quality of US Primary Care Delivered by Resident and Staff Physicians. *J Gen Intern Med.* 2010 Jul 20. [Epub ahead of print]

Ginde AA, Espinola JA, Sullivan AF, Blum FC, Camargo CA Jr. Use of midlevel providers in US EDs, 1993 to 2005: implications for the workforce. *Am J Emerg Med.* 2010 Jan;28(1):90-4.

Hooker RS, Cipher DJ, Cawley JF, Herrmann D, Melson J. Emergency medicine services: Interprofessional care trends. *J Interprof Care.* 2008 Mar;22(2):167-78.

Menchine MD, Wiechmann W, Rudkin S. Trends in midlevel provider utilization in emergency departments from 1997 to 2006. *Acad Emerg Med.* 2009 Oct;16(10):963-9.

Morgan PA, Strand J, Ostbye T, Albanese MA. Missing in action: care by physician assistants and nurse practitioners in national health surveys. *Health Serv Res.* 2007 Oct;42(5):2022-37.

Lin SX, Gebbie KM, Fullilove RE, Arons RR. Do nurse practitioners make a difference in provision of health counseling in hospital outpatient departments? *J Am Acad Nurse Pract.* 2004 Oct;16(10):462-6.

Scholle SH, Chang J, Harman J, et al. Characteristics of patients seen and services provided in primary care visits in obstetrics/gynecology: Data from NAMCS and NHAMCS. *Am J Obstet Gynecol* 190 (4): 1119-1127 Apr 2004

Lin SX, Gebbie K, Fullilove R, Arons R. Characteristics of patient visits to nurse practitioners in hospital outpatient departments. *J Prof Nurs.* 2003 Jul-Aug;19(4):211-5.

Lin SX, Hooker RS, Lenz ER, Hopkins SC. Nurse Practitioners and Physician Assistants in Hospital Outpatient Departments, 1997-1999. *Nurs Econ* 20(4):174-179, 2002.

Stern RS. Medicare reimbursement policy and teaching physicians= behavior in hospital clinics: The changes of 1996. *Academic Medicine* 2002 Jan; 77(1): 65-71

Mills AC, McSweeney M. Nurse practitioners and physician assistants revisited: Do their practice patterns differ in ambulatory care? *J Prof Nurs* 2002 Jan-Feb;18(1):36-46

Hachmuth FA, Hootman JM. What impact on PA education? A snapshot of ambulatory care visits involving PAs. *JAAPA* 2001 Dec;14(12):22-4, 27-38; quiz 49-50

Anderson DM, Hampton MB. Physician assistants and nurse practitioners: rural-urban settings and reimbursement for services. *J Rural Health* 1999 Spring;15(2):252-63.

Mills AC, McSweeney M, Lavin MA. Characteristics of patient visits to nurse practitioners and physician assistants in hospital outpatient departments. *J Prof Nurs* 1998 Nov-Dec;14(6):335-43.

McCaig LF, Hooker RS, Sekscenski ES, Woodwell DA. Physician assistants and nurse practitioners in hospital outpatient departments, 1993-1994. *Public Health Rep* 1998;113:75-82.

McCaig LF. Use of PAs and NPs in US hospital emergency departments, 1993-1994. *Journal of the American Academy of Physician Assistants* 1998;11:38-48.

Hooker RS, McCaig L. Emergency department uses of physician assistants and nurse practitioners: a national survey. *Am J Emerg Med* 1996; 14:245-249.

#### **6a. MEDICATION THERAPY - NCHS REPORTS**

Medication therapy in ambulatory medical care: National Ambulatory Medical Care Survey and National Hospital Ambulatory Medical Care Survey, 1992 [ADR No. 290]

#### **6b. MEDICATION THERAPY - JOURNAL ARTICLES USING NHAMCS DATA**

Lin MP, Vargas-Torres C, Shin-Kim J, Tin J, Fox E. Nearly all thirty most frequently used emergency department drugs experienced shortages from 2006-2019. *Am J Emerg Med*. 2022 Mar;53:135-139. doi: 10.1016/j.ajem.2021.12.064. Epub 2021 Dec 30. PMID: 35033771

Ribas Roca J, Everett T, Dongarwar D, Salihu HM. Racial-Ethnic Disparities in Benzodiazepine Prescriptions for Anxiety in US Emergency Departments. *J Racial Ethn Health Disparities*. 2022 Jan 6. doi: 10.1007/s40615-021-01224-z. Online ahead of print. PMID: 34993917

Zhu D, Macdonald EJ, Lesko RP, Watts KL. National trends and prescription patterns in opiate analgesia for urolithiasis presenting to Emergency Departments: Analysis of the National Hospital Ambulatory Medical Care Survey, 2006-2018. *Urology*. 2021 Dec 27:S0090-4295(21)01173-0. doi: 10.1016/j.urology.2021.09.047. Online ahead of print. PMID: 34968567

Phan MT, Tomaszewski DM, Arbuckle C, Yang S, Jenkins B, Fortier MA, Heyming T, Linstead E, Donaldson C, Kain Z. Evaluating the 0-10 Point Pain Scale on Adolescent Opioid Use in US Emergency Departments. *J Clin Med*. 2021 Dec 22;11(1):38. doi: 10.3390/jcm11010038. PMID: 35011778

Schroeder AM, Lewis SS, Sahnoun AE, Beal JR. Antibiotic utilization for adult acute respiratory tract infections in United States Emergency Departments. *Am J Emerg Med.* 2021 Mar 10;47:66-69. doi: 10.1016/j.ajem.2021.03.018. Online ahead of print. PMID: 33774452

Neves G, Stickles J, Bueso T, DeToledo JC, Xu KT. [Antihypertensive use for stroke in United States emergency departments.](#) *J Am Coll Emerg Physicians Open.* 2020 Nov 6;1(6):1467-1471. doi: 10.1002/emp2.12312. eCollection 2020 Dec. *J Am Coll Emerg Physicians Open.* 2020. PMID: 33392551

Walkerly A, Neugebauer RE, Misko B, Shively D, Singh S, Chahda B, Dhanireddy S, King K, Lloyd M, Fosnight S, Costello M, Palladino C, Soric M. [Prevalence, predictors and trends of opioid prescribing for lower back pain in United States emergency departments.](#) *J Clin Pharm Ther.* 2020 Dec 11. doi: 10.1111/jcpt.13324. Online ahead of print. *J Clin Pharm Ther.* 2020. PMID: 33314253

Naavaal S, Kelekar U, Shah S. Opioid and Nonopioid Analgesic Prescriptions for Dental Visits in the Emergency Department, 2015-2017 National Hospital Ambulatory Medical Care Survey. *Prev Chronic Dis.* 2021 Jun 10;18:E58. doi: 10.5888/pcd18.200571. PMID: 34114544

Phan MT, Tomaszewski DM, Arbuckle C, Yang S, Donaldson C, Fortier M, Jenkins B, Linstead E, Kain Z. Racial and ethnic disparities in opioid use for adolescents at US emergency departments. *BMC Pediatr.* 2021 May 31;21(1):252. doi: 10.1186/s12887-021-02715-y. PMID: 34059005 Free PMC article.

Shah J, Lesko RP, Lala B, Ricci J. Trends in opioid prescription for craniomaxillofacial trauma in the United States: An 11-year retrospective study of emergency room and office visits. *Surgery.* 2021 Apr 16:S0039-6060(21)00199-9. doi: 10.1016/j.surg.2021.03.007. Online ahead of print. PMID: 33875252

Wilson TT, Chou SC, Becker S, Schuur JD, Beaudoin F. Evaluation of sex disparities in opioid use among ED patients with sickle cell disease, 2006-2015. *Am J Emerg Med.* 2021 Sep 21;50:597-601. doi: 10.1016/j.ajem.2021.09.023. Online ahead of print. PMID: 34592567.

Kennedy M, Koehl J, Gao J, Ciampa KA, Hayes BD, Camargo CA Jr. Use of antipsychotic and sedative medications in older patients in the emergency department. *J Am Geriatr Soc.* 2021 Nov 25. doi: 10.1111/jgs.17590. Online ahead of print. PMID: 34820831

Limkakeng AT Jr, Manandhar P, Erkanli A, Eucker SA, Root A, Voora D. United States Emergency Department Use of Medications with Pharmacogenetic Recommendations. *West J Emerg Med.* 2021 Sep 23;22(6):1347-1354. doi: 10.5811/westjem.2021.5.51248. PMID: 34787561 Free PMC article.

McCann-Pineo M, Ruskin J, Rasul R, Vortsman E, Bevilacqua K, Corley SS, Schwartz RM. Predictors of emergency department opioid administration and prescribing: A machine learning approach. *Am J Emerg Med.* 2020 Jul 18:S0735-6757(20)30619-7. doi: 10.1016/j.ajem.2020.07.023. Online ahead of print. PMID: 33071093

Chhibba T, Guizzetti L, Seow CH, Lu C, Novak KL, Ananthakrishnan AN, Bernstein CN, Kaplan GG, Panaccione R, Ma C. Frequency of Opioid Prescription at Emergency Department Discharge in Patients with Inflammatory Bowel Disease: A Nationwide Analysis. *Clin Gastroenterol Hepatol.* 2020 Jul 16:S1542-3565(20)30982-4. doi: 10.1016/j.cgh.2020.07.020. Online ahead of print.

Flood SM, Desai NM, Leonard JE, Mistry RD. Emergency Department Prescribing Patterns for Pharyngitis in Children. *Clin Pediatr (Phila).* 2020 Jun 5:9922820927042. doi: 10.1177/0009922820927042. [Epub ahead of print]

Rivera JC. Prescriptions for opioids and opioid-included polypharmacy: An analysis of the National Hospital Ambulatory Medical Care Survey. *J Opioid Manag.* 2020 Sep/Oct 2020;16(5):329-339. doi: 10.5055/jom.2020.0588. PMID: 33226090

- Pilla SJ, Pitts SI, Maruthur NM. High Concurrent Use of Sulfonylureas and Antimicrobials With Drug Interactions Causing Hypoglycemia. *J Patient Saf.* 2020 Jun 19. doi: 10.1097/PTS.0000000000000739. Online ahead of print. PMID: 32569099 (NAMCS, NHAMCS)
- Rubino A, Sanon M, Ganz ML, Simpson A, Fenton MC, Verma S, Hartry A, Baker RA, Duffy RA, Gwin K, Fillit H. Association of the US Food and Drug Administration Antipsychotic Drug Boxed Warning With Medication Use and Health Outcomes in Elderly Patients With Dementia. *JAMA Netw Open.* 2020 Apr 1;3(4):e203630. doi: 10.1001/jamanetworkopen.2020.3630.
- Gruver BR, Jiroutek MR, Kelly KE. Naloxone coprescription in U.S. ambulatory care centers and emergency departments. *J Am Pharm Assoc (2003).* 2020 Apr 8. pii: S1544-3191(20)30123-0. doi: 10.1016/j.japh.2020.03.009. [Epub ahead of print]
- Pourmand A, Lombardi KM, Roberson J, Mazer-Amirshahi M. Patterns of benzodiazepine administration and prescribing to older adults in U.S. emergency departments. *Aging Clin Exp Res.* 2020 Feb 13. doi: 10.1007/s40520-020-01496-1. [Epub ahead of print]
- Tebo C, Mazer-Amirshahi M, Zocchi MS, Gibson C, Rosenwohl-Mack S, Hsia RY, Fox ER, Nelson LS, Pines JM. The rising cost of commonly used emergency department medications (2006-15). *Am J Emerg Med.* 2020 Feb 13. pii: S0735-6757(20)30083-8. doi: 10.1016/j.ajem.2020.02.010. [Epub ahead of print]
- Naavaal S, Kelekar U. Opioid prescriptions in emergency departments: Findings from the 2016 National Hospital Ambulatory Medical Care Survey. *Prev Med.* 2020 Feb 26;106035. doi: 10.1016/j.ypmed.2020.106035. [Epub ahead of print]
- Ma C, Smith M, Guizzetti L, Panaccione R, Kaplan GG, Novak KL, Lu C, Khanna R, Feagan BG, Singh S, Jairath V, Ananthakrishnan AN. Assessing National Trends and Disparities in Ambulatory, Emergency Department, and Inpatient Visits for Inflammatory Bowel Disease in the United States (2005-2016). *Clin Gastroenterol Hepatol.* 2020 Jan 24. pii: S1542-3565(20)30102-6. doi: 10.1016/j.cgh.2020.01.023. [Epub ahead of print]
- Foster AA, Porter JJ, Bourgeois FT, Mannix R. The use of opioids in low acuity pediatric trauma patients. *PLoS One.* 2019 Dec 16;14(12):e0226433. doi: 10.1371/journal.pone.0226433. eCollection 2019.
- Sohn M, Brinkman R, Wellman GS. Coprescription of opioid and naloxone in office-based practice and emergency department settings in the United States. *Public Health.* 2019 Dec 18;180:82-84. doi: 10.1016/j.puhe.2019.11.014. [Epub ahead of print]
- Kosik KB, Hoch MC, Villasante-Tezanos AG, Gribble PA. Visit Characteristics Associated With Opioids Administered or Prescribed during Emergency Department Visits for Ankle Sprain Between 2010 and 2015. *PM R.* 2020 Jan 17. doi: 10.1002/pmrj.12326. [Epub ahead of print]
- Richards LJ, Hopkins NJ, Colwell NA, Sahmoun AE, Beal JR. The Association Between Patient Visit Demographics and Opioid Analgesic Received in the Emergency Department. *Cureus.* 2019 Sep 17;11(9):e5678. doi: 10.7759/cureus.5678.
- Lau DT. Is prescribing by PAs and NPs comparable to physician prescribing? *JAAPA.* 2019 Feb;32(2):52.
- Menchine M, Lam CN, Arora S. Prescription Opioid Use in General and Pediatric Emergency Departments. *Pediatrics.* 2019 Oct 16. pii: e20190302. doi: 10.1542/peds.2019-0302. [Epub ahead of print]
- Kosik KB, Hoch MC, Humphries RL, Villasante Tezanos AG, Gribble PA. Medications Used in U.S. Emergency Departments for an Ankle Sprain: An Analysis of the National Hospital Ambulatory Medical Care Survey. *J Emerg Med.* 2019 Oct 9. pii: S0736-4679(19)30677-8. doi: 10.1016/j.jemermed.2019.08.025. [Epub ahead of print]



- Tomaszewski DM, Arbuckle C, Yang S, Linstead E. Trends in Opioid Use in Pediatric Patients in US Emergency Departments From 2006 to 2015. *JAMA Netw Open*. 2018 Dec 7;1(8):e186161. doi: 10.1001/jamanetworkopen.2018.6161.
- Tedijanto C, Olesen SW, Grad YH, Lipsitch M. Estimating the proportion of bystander selection for antibiotic resistance among potentially pathogenic bacterial flora. *Proc Natl Acad Sci U S A*. 2018 Dec 18;115(51):E11988-E11995. doi: 10.1073/pnas.1810840115.
- Poole NM, Shapiro DJ, Fleming-Dutra KE, Hicks LA, Hersh AL, Kronman MP. Antibiotic Prescribing for Children in United States Emergency Departments: 2009-2014. *Pediatrics*. 2019 Jan 8. pii: e20181056. doi: 10.1542/peds.2018-1056. [Epub ahead of print]
- Takaki H, Ieiri I, Shibuta H, Onozuka D, Hagihara A. The association of tobacco use with prescription of muscle relaxants, benzodiazepines, and opioid analgesics for non-cancer pain. *Am J Addict*. 2019 Jan 9. doi: 10.1111/ajad.12830. [Epub ahead of print]
- Tichter AM, Ostrovskiy G. Emergency department antibiotic use for exacerbations of COPD. *Open Access Emerg Med*. 2018 Dec 5;10:193-200. doi: 10.2147/OAEM.S178134. eCollection 2018.
- Roberts RM, Hersh AL, Shapiro DJ, Fleming-Dutra KE, Hicks LA. Antibiotic Prescriptions Associated With Dental-Related Emergency Department Visits. *Ann Emerg Med*. 2018 Nov 1. pii: S0196-0644(18)31279-4. doi: 10.1016/j.annemergmed.2018.09.019. [Epub ahead of print]
- Morris M, Thode HC Jr, Singer AJ. Use of opioids and analgesics among ED patients with dental and low back pain: A national perspective. *Am J Emerg Med*. 2018 Aug 24. pii: S0735-6757(18)30713-7. doi: 10.1016/j.ajem.2018.08.062. [Epub ahead of print]
- Alzahrani MS, Maneno MK, Daftary MN, Wingate L, Ettienne EB. Factors Associated with Prescribing Broad-Spectrum Antibiotics for Children with Upper Respiratory Tract Infections in Ambulatory Care Settings. *Clin Med Insights Pediatr*. 2018 Jul 2;12:1179556518784300. doi: 10.1177/1179556518784300. eCollection 2018.
- Marra EM, Mazer-Amirshahi M, Mullins P, Pines JM. Opioid Administration and Prescribing in Older Adults in U.S. Emergency Departments (2005-2015). *West J Emerg Med*. 2018 Jul;19(4):678-688. doi: 10.5811/westjem.2018.5.37853. Epub 2018 Jun 11.
- Mazer-Amirshahi M, Ladkany D, Mullins PM, Motov S, Perrone J, Nelson LS, Pines JM. Trends in and predictors of hydromorphone administration in US emergency departments (2007-2014). *J Opioid Manag*. 2018 Jul/Aug;14(4):265-272. doi: 10.5055/jom.2018.0458.
- Eljaaly K, Alshehri S, Bhattacharjee S, Al-Tawfiq JA, Patanwala AE. Contraindicated drug-drug interactions associated with oral antimicrobial agents prescribed in the ambulatory care setting in the United States. *Clin Microbiol Infect*. 2018 Aug 11. pii: S1198-743X(18)30574-3. doi: 10.1016/j.cmi.2018.08.002. [Epub ahead of print]
- Kawai K, Adil EA, Barrett D, Manganella J, Kenna MA. Ambulatory Visits for Otitis Media before and after the Introduction of Pneumococcal Conjugate Vaccination. *J Pediatr*. 2018 Jun 26. pii: S0022-3476(18)30760-1. doi: 10.1016/j.jpeds.2018.05.047. [Epub ahead of print]
- Giarratano A, Green SE, Nicolau DP. Review of antimicrobial use and considerations in the elderly population. *Clin Interv Aging*. 2018 Apr 17;13:657-667. doi: 10.2147/CIA.S133640. eCollection 2018. Review.
- Ladapo JA, Larochelle MR, Chen A, Villalon MM, Vassar S, Huang DYC, Mafi JN. Physician Prescribing of Opioids to Patients at Increased Risk of Overdose From Benzodiazepine Use in the United States. *JAMA Psychiatry*. 2018 Apr 12. doi: 10.1001/jamapsychiatry.2018.0544. [Epub ahead of print]

Jiao S, Murimi IB, Stafford RS, Mojtabai R, Alexander GC. Quality of prescribing by physicians, nurse practitioners, and physician assistants in the United States. *Pharmacotherapy*. 2018 Feb 19. doi: 10.1002/phar.2095. [Epub ahead of print]

Smith JL, McBride NM, Storch EA. Outpatient Treatment Patterns of Pediatric Obsessive-Compulsive Disorder. *J Child Adolesc Psychopharmacol*. 2017 Apr 4. doi: 10.1089/cap.2017.0011. [Epub ahead of print]

Narula N, Borges L, Steinhart AH, Colombel JF. Trends in Narcotic and Corticosteroid Prescriptions in Patients with Inflammatory Bowel Disease in the United States Ambulatory Care Setting from 2003 to 2011. *Inflamm Bowel Dis*. 2017 Mar 31. doi: 10.1097/MIB.0000000000001084. [Epub ahead of print]

Mazer-Amirshahi M, Mullins PM, Sun C, Pines JM, Nelson LS, Perrone J. Trends in Opioid Analgesic Use in Encounters Involving Physician Trainees in U.S. Emergency Departments. *Pain Med*. 2016 Dec;17(12):2389-2396. doi: 10.1093/pm/pnw048.

Kornblith AE, Fahimi J, Kanzaria H, Wang RC. Predictors for under-prescribing antibiotics in children with respiratory infections requiring antibiotics. *Am J Emerg Med*. 2017 Jul 28. pii: S0735-6757(17)30632-0. doi: 10.1016/j.ajem.2017.07.081. [Epub ahead of print]

Kim HS, McCarthy DM, Mark Courtney D, Lank PM, Lambert BL. Benzodiazepine-opioid co-prescribing in a national probability sample of emergency department encounters. *Am J Emerg Med*. 2016 Dec 2. pii: S0735-6757(16)30889-0. doi: 10.1016/j.ajem.2016.11.054. [Epub ahead of print]

Kachru N, Sura S, Chatterjee S, Aparasu RR. Antimuscarinic Medication Use in Elderly Patients with Overactive Bladder. *Drugs Aging*. 2016 Oct;33(10):755-763.

Kobayashi M, Shapiro DJ, Hersh AL, Sanchez GV, Hicks LA. Outpatient Antibiotic Prescribing Practices for Uncomplicated Urinary Tract Infection in Women in the United States, 2002-2011. *Open Forum Infect Dis*. 2016 Aug 2;3(3):ofw159.

Roditi RE, Ishman S, Lee S, Lin S, Shin JJ. Medications for Allergic Rhinitis: An Opportunity for Quality Improvement? *Otolaryngol Head Neck Surg*. 2016 Aug 30. pii: 0194599816666064. [Epub ahead of print]

Tan EC, Bell JS, Lu CY, Toh S. National Trends in Outpatient Antihypertensive Prescribing in People with Dementia in the United States. *J Alzheimers Dis*. 2016 Sep 2. [Epub ahead of print]

Mazer-Amirshahi M, Mullins PM, Sun C, Pines JM, Nelson LS, Perrone J. Trends in Opioid Analgesic Use in Encounters Involving Physician Trainees in U.S. Emergency Departments. *Pain Med*. 2016 Apr 14. pii: pnw048. [Epub ahead of print]

Kea B, Fu R, Lowe RA, Sun BC. Interpreting the National Hospital Ambulatory Medical Care Survey: United States Emergency Department Opioid Prescribing, 2006-2010. *Acad Emerg Med*. 2016 Feb;23(2):159-65. doi: 10.1111/acem.12862. Epub 2016 Jan 23.

Sohn M, Moga DC, Blumenschein K, Talbert J. National trends in off-label use of atypical antipsychotics in children and adolescents in the United States. *Medicine (Baltimore)*. 2016 Jun;95(23):e3784. doi: 10.1097/MD.0000000000003784.

Fleming-Dutra KE, Hersh AL, Shapiro DJ, Bartoces M, Enns EA, File TM Jr, Finkelstein JA, Gerber JS, Hyun DY, Linder JA, Lynfield R, Margolis DJ, May LS, Merenstein D, Metlay JP, Newland JG, Piccirillo JF, Roberts RM, Sanchez GV, Suda KJ, Thomas A, Woo TM, Zetts RM, Hicks LA. Prevalence of Inappropriate Antibiotic Prescriptions Among US Ambulatory Care Visits, 2010-2011. *JAMA*. 2016 May 3;315(17):1864-73. doi: 10.1001/jama.2016.4151.

Barlam TF, Soria-Saucedo R, Cabral HJ, Kazis LE. Unnecessary Antibiotics for Acute Respiratory Tract Infections: Association With Care Setting and Patient Demographics. *Open Forum Infect Dis*. 2016 Feb 23;3(1):ofw045. doi: 10.1093/ofid/ofw045. eCollection 2016 Jan.

Mazer-Amirshahi M, Mullins PM, Sun C, Pines JM, Nelson LS, Perrone J. Trends in Opioid Analgesic Use in Encounters Involving Physician Trainees in U.S. Emergency Departments. *Pain Med*. 2016 Apr 14. pii: pnw048. [Epub ahead of print]

Kea B, Fu R, Lowe RA, Sun BC. Interpreting the National Hospital Ambulatory Medical Care Survey: United States Emergency Department Opioid Prescribing, 2006-2010. *Acad Emerg Med*. 2016 Feb;23(2):159-65. doi: 10.1111/acem.12862. Epub 2016 Jan 23.

Frank JW, Levy C, Calcaterra SL, Hoppe JA, Binswanger IA. Naloxone Administration in US Emergency Departments, 2000-2011. *J Med Toxicol*. 2015 Nov 30. [Epub ahead of print]

Burcu M, Safer DJ, Zito JM. Antipsychotic prescribing for behavioral disorders in US youth: physician specialty, insurance coverage, and complex regimens. *Pharmacoepidemiol Drug Saf*. 2015 Oct 28. doi: 10.1002/pds.3897. [Epub ahead of print]

Marra EM, Mazer-Amirshahi M, Brooks G, van den Anker J, May L, Pines JM. Benzodiazepine Prescribing in Older Adults in U.S. Ambulatory Clinics and Emergency Departments (2001-10). *J Am Geriatr Soc*. 2015 Oct;63(10):2074-81. doi: 10.1111/jgs.13666. Epub 2015 Sep 29.

Singer DD, Thode HC Jr, Singer AJ. Effects of pain severity and CT imaging on analgesia prescription in acute appendicitis. *Am J Emerg Med*. 2015 Sep 28. pii: S0735-6757(15)00791-3. doi: 10.1016/j.ajem.2015.09.015. [Epub ahead of print]

Okunseri C, Dionne RA, Gordon SM, Okunseri E, Szabo A. Prescription of opioid analgesics for nontraumatic dental conditions in emergency departments. *Drug Alcohol Depend*. 2015 Sep 28. pii: S0376-8716(15)01673-7. doi: 10.1016/j.drugalcdep.2015.09.023. [Epub ahead of print]

Xia Y, Kelton CM, Guo JJ, Bian B, Heaton PC. Treatment of obesity: Pharmacotherapy trends in the United States from 1999 to 2010. *Obesity (Silver Spring)*. 2015 Aug;23(8):1721-8. doi: 10.1002/oby.21136.

Hunold KM, Smith SA, Platts-Mills TF. Constipation Prophylaxis Is Rare for Adults Prescribed Outpatient Opioid Therapy From U.S. Emergency Departments. *Acad Emerg Med*. 2015 Aug 20. doi: 10.1111/acem.12745. [Epub ahead of print]

Ford ES, Wheaton AG. Trends in Outpatient Visits with Benzodiazepines among US Adults With and Without Bronchitis or Chronic Obstructive Pulmonary Disease from 1999 to 2010. *COPD*. 2015 Aug 5. [Epub ahead of print]

Cook TB, Reeves GM, Teufel J, Postolache TT. Persistence of racial disparities in prescription of first-generation antipsychotics in the USA. *Pharmacoepidemiol Drug Saf*. 2015 Jul 1. doi: 10.1002/pds.3819. [Epub ahead of print]

Altyar A, Bakhsh HT, Mohammed A, Skrepnek G, Patanwala AE. Administration of first dose antibiotic in the ED in patients with minor skin and soft tissue infections. *Am J Emerg Med*. 2015 May 29. pii: S0735-6757(15)00456-8. doi: 10.1016/j.ajem.2015.05.035. [Epub ahead of print]

Mehrotra A, Gidengil CA, Setodji CM, Burns RM, Linder JA. Antibiotic prescribing for respiratory infections at retail clinics, physician practices, and emergency departments. *Am J Manag Care*. 2015 Apr;21(4):294-302.

- Larochelle MR, Zhang F, Ross-Degnan D, Wharam JF. Trends in opioid prescribing and co-prescribing of sedative hypnotics for acute and chronic musculoskeletal pain: 2001-2010. *Pharmacoepidemiol Drug Saf.* 2015 Apr 22. doi: 10.1002/pds.3776. [Epub ahead of print]
- Pauff BR, Jiroutek MR, Holland MA, Sutton BS. Statin Prescribing Patterns: An Analysis of Data From Patients With Diabetes in the National Hospital Ambulatory Medical Care Survey Outpatient Department and National Ambulatory Medical Care Survey Databases, 2005-2010. *Clin Ther.* 2015 Apr 11. pii: S0149-2918(15)00162-9. doi: 10.1016/j.clinthera.2015.03.020. [Epub ahead of print]
- McCullough JM, Zimmerman FJ, Rodriguez HP. Impact of clinical decision support on receipt of antibiotic prescriptions for acute bronchitis and upper respiratory tract infection. *J Am Med Inform Assoc.* 2014 Jul 7. pii: amiajnl-2014-002648. doi: 10.1136/amiajnl-2014-002648. [Epub ahead of print]
- Mazer-Amirshahi M, Dewey K, Mullins PM, van den Anker J, Pines JM, Perrone J, Nelson L. Trends in opioid analgesic use for headaches in US EDs. *Am J Emerg Med.* 2014 Jul 10. pii: S0735-6757(14)00492-6. doi: 10.1016/j.ajem.2014.07.001. [Epub ahead of print]
- Pallin DJ, Camargo CA Jr, Schuur JD. Skin infections and antibiotic stewardship: analysis of emergency department prescribing practices, 2007-2010. *West J Emerg Med.* 2014 May;15(3):282-9. doi: 10.5811/westjem.2013.8.18040. Epub 2014 Jan 6.
- Okunseri C, Okunseri E, Xiang Q, Thorpe JM, Szabo A. Prescription of opioid and nonopioid analgesics for dental care in emergency departments: Findings from the National Hospital Ambulatory Medical Care Survey. *J Public Health Dent.* 2014 May 26. doi: 10.1111/jphd.12055. [Epub ahead of print]
- Rasooly IR, Mullins PM, Mazer-Amirshahi M, van den Anker J, Pines JM. The Impact of Race on Analgesia Use among Pediatric Emergency Department Patients. *J Pediatr.* 2014 Jun 11. pii: S0022-3476(14)00417-X. doi: 10.1016/j.jpeds.2014.04.059. [Epub ahead of print]
- Mazer-Amirshahi M, Mullins PM, van den Anker J, Meltzer A, Pines JM. Rising rates of proton pump inhibitor prescribing in US ED. *Am J Emerg Med.* 2014 Mar 21. pii: S0735-6757(14)00185-5. doi: 10.1016/j.ajem.2014.03.019. [Epub ahead of print]
- Kaiser SV, Asteria-Penalosa R, Vittinghoff E, Rosenbluth G, Cabana MD, Bardach NS. National Patterns of Codeine Prescriptions for Children in the Emergency Department. *Pediatrics.* 2014 Apr 21. [Epub ahead of print]
- Mazer-Amirshahi M, Mullins PM, Rasooly I, van den Anker J, Pines JM. Rising Opioid Prescribing in Adult U.S. Emergency Department Visits: 2001-2010. *Acad Emerg Med.* 2014 Mar;21(3):236-243. doi: 10.1111/acem.12328.
- Mazer-Amirshahi M, Mullins PM, Rasooly IR, van den Anker J, Pines JM. Trends in Prescription Opioid Use in Pediatric Emergency Department Patients. *Pediatr Emerg Care.* 2014 Mar 19. [Epub ahead of print]
- Jeffrey Kao MC, Minh LC, Huang GY, Mitra R, Smuck M. Trends in Ambulatory Physician Opioid Prescription In The United States, 1997-2009. *PM R.* 2014 Jan 9. pii: S1934-1482(14)00012-4. doi: 10.1016/j.pmrj.2013.12.015. [Epub ahead of print]
- Filson CP, Wei JT, Hollingsworth JM. Trends in medical management of men with lower urinary tract symptoms suggestive of benign prostatic hyperplasia. *Urology.* 2013 Dec;82(6):1386-93. doi: 10.1016/j.urology.2013.07.062. Epub 2013 Oct 23
- Filbin MR, Arias SA, Camargo CA Jr, Barche A, Pallin DJ. Sepsis Visits and Antibiotic Utilization in U.S. Emergency Departments. *Crit Care Med.* 2013 Nov 6. [Epub ahead of print]

- Mittal M, Harrison DL, Miller MJ, Brahm NC. National antidepressant prescribing in children and adolescents with mental health disorders after an FDA boxed warning. *Res Social Adm Pharm*. 2013 Nov 20. pii: S1551-7411(13)00242-8. doi: 10.1016/j.sapharm.2013.11.001. [Epub ahead of print]
- Joynt M, Train MK, Robbins BW, Halterman JS, Caiola E, Fortuna RJ. The Impact of Neighborhood Socioeconomic Status and Race on the Prescribing of Opioids in Emergency Departments Throughout the United States. *J Gen Intern Med*. 2013 Jun 25. [Epub ahead of print]
- Tay KY, Ewald MB, Bourgeois FT. Use of QT-prolonging medications in US emergency departments, 1995-2009. *Pharmacoepidemiol Drug Saf*. 2013 May 21. doi: 10.1002/pds.3455. [Epub ahead of print]
- Smith SS, Kern RC, Chandra RK, Tan BK, Evans CT. Variations in Antibiotic Prescribing of Acute Rhinosinusitis in United States Ambulatory Settings. *Otolaryngol Head Neck Surg*. 2013 Mar 5. [Epub ahead of print]
- Rotman SR, Bishop TF. Proton pump inhibitor use in the U.S. Ambulatory setting, 2002-2009. *PLoS One*. 2013;8(2):e56060. doi: 10.1371/journal.pone.0056060. Epub 2013 Feb 13.
- Simon AE, Akinbami LJ. Receipt of systemic corticosteroids during asthma visits to U.S. Emergency Departments, 2007-2009. *J Asthma*. 2013 Feb 12. [Epub ahead of print]
- Karve S, Levine D, Seiber E, Nahata M, Balkrishnan R. Trends in Ambulatory Prescribing of Antiplatelet Therapy among US Ischemic Stroke Patients: 2000-2007. *Adv Pharmacol Sci*. 2012;2012:846163. doi: 10.1155/2012/846163. Epub 2012 Dec 5.
- Pham TT, Miller MJ, Harrison DL, Lloyd AE, Crosby KM, Johnson JL. Cardiovascular disease and non-steroidal anti-inflammatory drug prescribing in the midst of evolving guidelines. *J Eval Clin Pract*. 2012 Nov 19. doi: 10.1111/jep.12014. [Epub ahead of print]
- Tran AR, Zito JM, Safer DJ, Hundley SD. National Trends in Pediatric Use of Anticonvulsants. *Psychiatr Serv*. 2012 Sep 15. doi: 10.1176/appi.ps.201100547. [Epub ahead of print]
- Goldman JL, Jackson MA, Herigon JC, Hersh AL, Shapiro DJ, Leeder JS. Trends in Adverse Reactions to Trimethoprim-Sulfamethoxazole. *Pediatrics*. 131(1):e103-e108. Jan 2013. 2012 Dec 3. [Epub ahead of print]
- Shedd GC, Evans DD. Inhaled corticosteroid prescribing from the emergency department for children with asthma. *Adv Emerg Nurs J*. 2012 Oct;34(4):290-9. doi: 10.1097/TME.0b013e31826e4bb9.
- Weingart GS, Carlson JN, Callaway CW, Frank R, Wang HE. Estimates of sedation in patients undergoing endotracheal intubation in US EDs. *Am J Emerg Med*. 2012 Jul 4. [Epub ahead of print]
- Okunseri C, Okunseri E, Thorpe JM, Xiang Q, Szabo A. Medications prescribed in emergency departments for nontraumatic dental condition visits in the United States. *Med Care*. 2012 Jun;50(6):508-12.
- George MG, Tong X, Sonnenfeld N, Hong Y; Division for Heart Disease and Stroke Prevention, National Center for Chronic Disease Prevention and Health Promotion. Recommended use of aspirin and other antiplatelet medications among adults - national ambulatory medical care survey and national hospital ambulatory medical care survey, United States, 2005-2008. *MMWR Surveill Summ*. 2012 Jun 15;61(2):11-8.
- Neuman MI, Ting SA, Meydani A, Mansbach JM, Camargo CA Jr. National study of antibiotic use in emergency department visits for pneumonia, 1993 through 2008. *Acad Emerg Med*. 2012 May;19(5):562-8. doi: 10.1111/j.1553-2712.2012.01342.x.

- Desai RJ, Agarwal SJ, Aparasu RR. Drug use trends for arthritis and other rheumatic conditions and effect of patient's age on treatment choice. *N C Med J*. 2011 Nov-Dec;72(6):432-8.
- Dorn SD, Meek PD, Shah ND. Increasing Frequency of Opioid Prescriptions for Chronic Abdominal Pain in U.S. Outpatient Clinics. *Clin Gastroenterol Hepatol*. 2011 Aug 17. [Epub ahead of print]
- Garro AC, Asnis L, Merchant RC, McQuaid EL. Frequency of prescription of inhaled corticosteroids to children with asthma in u.s. Emergency departments. *Acad Emerg Med*. 2011 Jul;18(7):767-70. doi: 10.1111/j.1553-2712.2011.01117.x.
- Chen SY, Toh S. National trends in prescribing antidepressants before and after an FDA advisory on suicidality risk in youths. *Psychiatr Serv*. 2011 Jul;62(7):727-33.
- Paul IM, Maselli JH, Hersh AL, Boushey HA, Nielson DW, Cabana MD. Antibiotic Prescribing During Pediatric Ambulatory Care Visits for Asthma. *Pediatrics*. 2011 May 23. [Epub ahead of print]
- Zehtabchi S, Yadav K, Brothers E, Khan F, Singh S, Wilcoxson RD, Malhotra S. Prophylactic antibiotics for simple hand lacerations: Time for a clinical trial? *Injury*. 2011 May 20. [Epub ahead of print]
- Sarkar U, López A, Maselli JH, Gonzales R. Adverse Drug Events in U.S. Adult Ambulatory Medical Care. *Health Serv Res*. 2011 May 10. doi: 10.1111/j.1475-6773.2011.01269.x. [Epub ahead of print]
- Copp HL, Shapiro DJ, Hersh AL. National Ambulatory Antibiotic Prescribing Patterns for Pediatric Urinary Tract Infection, 1998-2007. *Pediatrics*. 2011 May 9. [Epub ahead of print]
- Simon LJ, Bizamcer AN, Lidz CW, Stefan S, Pletcher MJ. Disparities in opioid prescribing for patients with psychiatric diagnoses presenting with pain to the emergency department. *Emerg Med J*. 2011 Feb 18. [Epub ahead of print]
- Manthripragada AD, Zhou EH, Budnitz DS, Lovegrove MC, Willy ME. Characterization of acetaminophen overdose-related emergency department visits and hospitalizations in the United States. *Pharmacoepidemiol Drug Saf*. 2011 Feb 3. doi: 10.1002/pds.2090. [Epub ahead of print]
- Iyer RG. Pain Documentation and Predictors of Analgesic Prescribing for Elderly Patients During Emergency Department Visits. *J Pain Symptom Manage*. 2010 Oct 20. [Epub ahead of print]
- Hong SY, Taur Y, Jordan MR, Wanke C. Antimicrobial prescribing in the USA for adult acute pharyngitis in relation to treatment guidelines. *J Eval Clin Pract*. 2010 Jun 25. [Epub ahead of print]
- Moser A, Segars LW. Assessment of antihyperlipidemic therapy in US patients with coronary heart disease. *J Am Osteopath Assoc*. 2010 Jun;110(6):331-9.
- William J. Meurer, Tommy A. Potti, Kevin A. Kerber, Comilla Sasson, Michelle L. Macy, Brady T. West, Eve D. Losman. Potentially Inappropriate Medication Utilization in the Emergency Department Visits by Older Adults: Analysis From a Nationally Representative Sample (p 231-237) Published Online: Mar 1 2010 11:59AM
- Cheung R, Mannalithara A, Singh G. Utilization and Antiviral Therapy in Patients with Chronic Hepatitis C: Analysis of Ambulatory Care Visits in the US. *Dig Dis Sci*. 2010 Feb 26. [Epub ahead of print]
- Burris HH, Werler MM. U.S. Provider Reported Folic Acid or Multivitamin Ordering for Non-Pregnant Women of Childbearing Age: NAMCS and NHAMCS, 2005-2006. *Matern Child Health J*. 2010 Mar 5. [Epub ahead of print]

- Hsieh YH, Chen KF, Gaydos CA, Rothman RE, Kelen GD. Antiviral prescriptions to U.S. ambulatory care visits with a diagnosis of influenza before and after high level of adamantane resistance 2005-06 season. *PLoS One*. 2010 Jan 28;5(1):e8945.
- Hollingsworth JM, Davis MM, West BT, Wolf JS Jr, Hollenbeck BK. Trends in Medical Expulsive Therapy Use for Urinary Stone Disease in U.S. Emergency Departments. *Urology*. 2009 Oct 5. [Epub ahead of print]
- Bourgeois FT, Mandl KD, Valim C, Shannon MW. Pediatric adverse drug events in the outpatient setting: an 11-year national analysis. *Pediatrics*. 2009 Oct;124(4):e744-50. Epub 2009 Sep 28.
- Aparasu RR, Jano E, Bhatara V. Concomitant antipsychotic prescribing in US outpatient settings. *Res Social Adm Pharm*. 2009 Sep;5(3):234-41. Epub 2009 Jan 21.
- Grijalva CG, Nuorti JP, Griffin MR. Antibiotic Prescription Rates for Acute Respiratory Tract Infections in US Ambulatory Settings. *JAMA*. 2009;302(7):758-766.
- Niska R, Han B. Statins for secondary cardiovascular disease prevention for older primary care patients. *J Natl Med Assoc*. 2009 Jul;101(7):705-10.
- Wilson RD. Analgesic prescribing for musculoskeletal complaints in the ambulatory care setting after the introduction and withdrawal of cyclooxygenase-2 inhibitors. *Arch Phys Med Rehabil*. 2009 Jul;90(7):1147-51.
- Coco AS, Horst MA, Gambler AS. Trends in broad-spectrum antibiotic prescribing for children with acute otitis media in the United States, 1998-2004. *BMC Pediatr*. 2009 Jun 24;9(1):41. [Epub ahead of print]
- Caterino JM, Weed SG, Espinola JA, Camargo Jr CA. National Trends in Emergency Department Antibiotic Prescribing for Elders with Urinary Tract Infection, 1996-2005. *Acad Emerg Med*. 2009 Feb 24. [Epub ahead of print]
- Vanderweil SG et al. Inappropriate Use of Antibiotics for Acute Asthma in United States Emergency Departments. *Academic Emergency Medicine*. 15(8): 736 - 743. Published Online: 8 Jul 2008.
- Shehab N, Patel PR, Srinivasan A, Budnitz DS. Emergency department visits for antibiotic-associated adverse events. *Clin Infect Dis*. 2008 Sep 15;47(6):735-43.
- Wisniewski AM, Purdy CH, Blondell RD. The epidemiologic association between opioid prescribing, non-medical use, and emergency department visits. *J Addict Dis*. 2008;27(1):1-11.
- Pletcher MJ, Kertesz SG, Kohn MA, Gonzales R. Trends in Opioid Prescribing by Race/Ethnicity for Patients Seeking Care in US Emergency Departments *JAMA*. 2008;299(1):70-78.
- Budnitz DS, Shehab N, Kegler SR, Richards CL. Medication use leading to emergency department visits for adverse drug events in older adults. *Ann Intern Med*. 2007 Dec 4;147(11):755-65. Summary for patients in: *Ann Intern Med*. 2007 Dec 4;147(11):I24.
- Aparasu R, Baer R, Aparasu A. Clinically important potential drug-drug interactions in outpatient settings. *Res Social Adm Pharm*. 2007 Dec;3(4):426-37.
- Fischer T, Singer AJ, Lee C, Thode HC Jr. National trends in emergency department antibiotic prescribing for children with acute otitis media, 1996-2005. *Acad Emerg Med*. 2007 Dec;14(12):1172-5.
- Bhatara VS, Aparasu RR. Pharmacotherapy with Atomoxetine for US Children and Adolescents. *Ann Clin Psychiatry*. 2007 Jul-Sep;19(3):175-80.

Sankaranarayanan J, Puumula SE. Antipsychotic use at adult ambulatory care visits by patients with mental health disorders in the United States, 1996-2003: National estimates and associated factors. *Clin Ther.* 2007 Apr;29(4):723-41.

Vanderweil SG, Pelletier AJ, Hamedani AG, Gonzales R, Metlay JP, Camargo CA Jr. Declining Antibiotic Prescriptions for Upper Respiratory Infections, 1993-2004. *Acad Emerg Med.* 2007 Feb 12; [Epub ahead of print]

Aparasu RR, Bhatara V. Patterns and determinants of antipsychotic prescribing in children and adolescents, 2003-2004. *Curr Med Res Opin.* 2007 Jan;23(1):49-56.

Ritsema TS, Kelen GD, Pronovost PJ, Pham JC. The National Trend in Quality of Emergency Department Pain Management for Long Bone Fractures. *Acad Emerg Med.* 2006 Dec 27; [Epub ahead of print]

Federman AD, Litke A, Morrison RS. Association of age with analgesic use for back and joint disorders in outpatient settings. *Am J Geriatr Pharmacother.* 2006 Dec;4(4):306-15.

Quazia S, Eberhardt M, Jacoby J, Heller M, Reed J. Racial Disparities in ED Analgesia Are Improving: Evidence From a National Database. *Annals of Emergency Medicine*, Volume 48, Issue 4, Supplement 1, October 2006, Page 61, Available online 16 September 2006. doi:10.1016/j.annemergmed.2006.07.651

Grijalva CG, Poehling KA, Nuorti JP, Zhu Y, Martin SW, Edwards KM, Griffin MR. National impact of universal childhood immunization with pneumococcal conjugate vaccine on outpatient medical care visits in the United States. *Pediatrics.* 2006 Sep;118(3):865-73.

Lee E et al. National patterns of medication use during pregnancy. *Pharmacoepidemiology and Drug Safety*, 2006 August; 15, 537-545.

Hing E, Brett KM. Changes in U.S. Prescribing Patterns of Menopausal Hormone Therapy, 2001–2003. *Obstetrics & Gynecology* 2006 Jul;108(1):33-40.

Mainous AG 3rd, Saxena S, Hueston WJ, Everett CJ, Majeed A. Ambulatory antibiotic prescribing for acute bronchitis and cough and hospital admissions for respiratory infections: time trends analysis. *J R Soc Med.* 2006 Jul;99(7):358-62.

Cooper WO, Arbogast PG, Ding H, Hickson GB, Fuchs DC, Ray WA. Trends in Prescribing of Antipsychotic Medications for US Children. *Ambul Pediatr.* 2006 Mar-Apr;6(2):79-83.

Kallen AJ, Welch HG, Sirovich BE. Current antibiotic therapy for isolated urinary tract infections in women. *Arch Intern Med.* 2006 Mar 27;166(6):635-9.

Robison LM, Sclar DA, Skaer TL. Trends in ADHD and Stimulant Use Among Adults: 1995-2002. *Psychiatric Services.* December 2005; 56(12):1497.

Young SE, Mainous AG 3rd, Diaz VA, Everett CJ. Practice patterns in sildenafil prescribing. *Fam Med.* 2006 Feb;38(2):110-5.

Balkrishnan R, Camacho FT, Pearce DJ, Kulkarni AS, Spencer L, Fleischer AB Jr, Feldman SR. Factors affecting prescription of ultra-high potency topical corticosteroids in skin disease: an analysis of US national practice data. *J Drugs Dermatol.* 2005 Nov-Dec;4(6):699-706.

Linder JA, Bates DW, Lee GM, Finkelstein JA. Antibiotic treatment of children with sore throat. *JAMA.* 2005 Nov 9;294(18):2315-22.



Stafford RS, Monti V, Ma J. Underutilization of Aspirin Persists in US Ambulatory Care for the Secondary and Primary Prevention of Cardiovascular Disease. *PLoS Med.* 2005 Nov 15;2(12):e353 [Epub ahead of print]

Ladd E. The use of antibiotics for viral upper respiratory tract infections: an analysis of nurse practitioner and physician prescribing practices in ambulatory care, 1997-2001. *J Am Acad Nurse Pract.* 2005 Oct;17(10):416-24.

Lin SJ, Lambert B, Tan H, Toh S. Frequency estimates from prescription drug datasets (revision of #04-11-066A). *Pharmacoepidemiol Drug Saf.* 2005 Sep 1; [Epub ahead of print]

Roumie CL, Halasa NB, Grijalva CG, Edwards KM, Zhu Y, Dittus RS, Griffin MR. Trends in antibiotic prescribing for adults in the United States--1995 to 2002. *J Gen Intern Med.* 2005 Aug;20(8):697-702.

Zhan C, Arispe I, Kelley E, Ding T, Burt CW, Shinogle J, Stryer D. Ambulatory Care Visits for Treating Adverse Drug Effects in the US, 1995-2001. *Joint Commission Journal on Quality and Patient Safety.* Vol 31, No. 7, July 2005

Roumie CL, Halasa NB, Edwards KM, Zhu Y, Dittus RS, Griffin MR. Differences in antibiotic prescribing among physicians, residents, and nonphysician clinicians. *Am J Med.* 2005 Jun;118(6):641-8.

Gaur AH, Hare ME, Shorr RI. Provider and practice characteristics associated with antibiotic use in children with presumed viral respiratory tract infections. *Pediatrics.* 2005 Mar;115(3):635-41.

Linder JA, Huang ES, Steinman MA, Gonzales R, Stafford RS. Fluoroquinolone prescribing in the United States: 1995 to 2002. *Am J Med.* 2005 Mar;118(3):259-68.

Zhan C, Correa-de-Araujo R, Bierman AS, Sangl J, Miller MR, Wickizer SW, Stryer D. Suboptimal prescribing in elderly outpatients: potentially harmful drug-drug and drug-disease combinations. *J Am Geriatr Soc.* 2005 Feb;53(2):262-7.

Linder JA, Bates DW, Platt R. Antivirals and antibiotics for influenza in the United States, 1995-2002. *Pharmacoepidemiol Drug Saf.* 2005 Jan 14; [Epub ahead of print]

Dai C, Stafford RS, Alexander GC. National trends in cyclooxygenase-2 inhibitor use since market release: nonselective diffusion of a selectively cost-effective innovation. *Arch Intern Med.* 2005 Jan 24;165(2):171-7.

Viswanathan H, Bharmal M, Thomas J 3rd. Prevalence and correlates of potentially inappropriate prescribing among ambulatory older patients in the year 2001: comparison of three explicit criteria. *Clin Ther.* 2005 Jan;27(1):88-99.

Ciesla G, Leader S, Stoddard J. Antibiotic prescribing rates in the US ambulatory care setting for patients diagnosed with influenza, 1997-2001. *Respiratory Medicine* (2004) 98, 1093-1101.

Caterino JM, Emond JA, Camargo CA Jr. Inappropriate medication administration to the acutely ill elderly: a nationwide emergency department study, 1992-2000. *J Am Geriatr Soc.* 2004 Nov;52(11):1847-55.

Coon TP, Patel MM, Wright DW, Miller M. Derailing the myth of the droperidol dangers. *Annals of Emergency Medicine*, October 2004, 44:4. S90.

Edwards, JM, Sloan EP, Eder S, Chan S. Analgesic Use in Emergency Department Patients with Abdominal Pain. *Annals of Emergency Medicine*, October 2004, 44:4. S59.

Edwards JM, Sloan EP, Eder S, Chan S. Analgesic Use in Emergency Department Patients with Fractures. *Annals of Emergency Medicine*, October 2004, 44:4. S59.

Edwards JM, Sloan EP, Eder S, Chan S. Analgesic Use in Emergency Department Patients with Renal Colic. *Annals of Emergency Medicine*, October 2004, 44:4. S58.

Leader S, Ciesla G. Antibiotic prescribing during RSV-associated ambulatory care visits by children age <5 years, US, 1995-2001. *Pediatric Research*. April 2004. (# 1355)

McCoy S, Zell E, Besser R. Antimicrobial prescribing for otitis externa in children. *Pediatric Infectious Disease Journal*. 23(2), February 2004, 181-183.

Halasa NB, Griffin MR, Zhu Y, Edwards KM. Differences in antibiotic prescribing patterns for children younger than five years in the three major outpatient settings. *J Pediatr* 2004;144:200-5.

Thorpe JM, Smith SR, Trygstad TK. Trends in Emergency Department Antibiotic Prescribing for Acute Respiratory Tract Infections (June). *Ann Pharmacother*. 2004 Apr 20 [Epub ahead of print]

Goulding MR. Inappropriate medication prescribing for elderly ambulatory care patients. *Arch Intern Med*. 2004; 164:305-312.

Tamayo-Sarver JH, Hinze SW, Cydulka RK, Baker DW. Racial disparities in emergency department analgesic prescription. *Am J Public Health* 2003;93:2067-2073.

Brown JC, Klein EJ, Lewis CW, Johnston BD, Cummings P. Emergency department analgesia for fracture pain. *Ann Emerg Med*. 2003 Aug;42(2):197-205.

Patel MM, Ratcliff JJ, Pitts SR, Houry D, Miller MA, Wright DW. Pharmacotherapeutic approach to nausea and vomiting in the emergency department. *Acad Emerg Med* 2003 May;10(5):460-1.

Wilber ST, Blanda M. Inappropriate medication use in older emergency department patients: results of a national probability sample. *Acad Emerg Med* 2003 May;10(5):493.

Caterino JM. Administration of inappropriate medications to elderly emergency department patients: results of a national survey. *Acad Emerg Med* 2003 May;10(5):493-4

McCaig LF, Besser RE, Hughes JM. Antimicrobial-drug prescription in ambulatory care settings, United States, 1992-2000. *Emerg Infect Dis* [serial online] 2003 Apr [date cited];8. Available from: URL: <http://www.cdc.gov/ncidod/EID/vol9no4/02-0268.htm>

Daumit GL, Crum RM, Guallar E, Powe NR, Primm AB, Steinwachs DM, Ford DE. Outpatient prescriptions for atypical antipsychotics for african americans, hispanics, and whites in the United States. *Arch Gen Psychiatry* 2003 Feb;60(2):121-8

Rovi S, Shimoni N. Prophylaxis provided to sexual assault victims seen at US emergency departments. *J Am Med Womens Assoc* 2002 Fall;57(4):204-7

Singer AJ, Thode HC Jr. National analgesia prescribing patterns in emergency department patients with burns. *J Burn Care Rehabil* 2002 Nov-Dec;23(6):361-5

Burt CW. Emergency health care encounters for adverse effects of medical treatment. *Managed Care Interface* 2001 Dec: 39-41.

Hostetler MA, Auinger P, Szilagyi PG. Parenteral analgesic and sedative use among ED patients in the United States: Combined results from the National Hospital Ambulatory Medical Care Survey (NHAMCS) 1992-1997. *American Journal of Emergency Medicine* 20 (2): 83-87 Mar 2002

CDC. Resistance of *Streptococcus pneumoniae* to fluoroquinolones-United States, 1995-1999. *MMWR* 2001;50(37):800-804.

Berard A, Bijur P, Gallagher E. Overuse of Antibiotics for Upper Respiratory Tract Infections in Emergency Departments: Results from a National Study. *Acad. Emerg. Med.* 2001 8: 449-a

Mort JR, Aparasu RR. Prescribing potentially inappropriate psychotropic medications to the ambulatory elderly. *Arch Intern Med.* 2000;160:2825-2831.

Stone S, Gonzales R, Maselli J, Lowenstein SR. Antibiotic prescribing for patients with colds, upper respiratory tract infections, and bronchitis: A national study of hospital-based emergency departments. *Ann Emerg Med.* 2000 Oct;36(4):320-327.

Aparasu RR, Helgeland DL. Utilization of ambulatory care services caused by adverse effects of medications in the United States. *Managed Care Interface* April 2000, 70-74.

Marsh JV, Brett KM, Miller LC. Racial differences in hormone replacement therapy prescriptions. *Obstet Gynecol.* 1999 Jun; 93(6): 999-1003.

Aparasu RR, Sitzman SJ. Inappropriate prescribing for elderly outpatients. *Am J Health Syst Pharm* 1999 Mar 1; 56(5): 433-9.

#### **7a. OTHER CHARACTERISTICS OF HOSPITAL OUTPATIENT AND EMERGENCY DEPARTMENT VISITS – NCHS REPORTS**

[Wait Time for Treatment in Hospital Emergency Departments: 2009](#) [Data Brief No. 102]

#### **7b. OTHER CHARACTERISTICS OF HOSPITAL OUTPATIENT AND EMERGENCY DEPARTMENT VISITS - JOURNAL ARTICLES USING NHAMCS DATA**

Siddiqi KA, Liu Y, Ding DD, Olatosi BA. Estimating resource utilization for emergency department visits by patients' HIV seropositivity in the United States, 2009 to 2018. *Am J Emerg Med.* 2021 Dec 18;53:73-79. doi: 10.1016/j.ajem.2021.12.025. Online ahead of print. PMID: 34995859

Phan MT, Tomaszewski DM, Arbuckle C, Yang S, Jenkins B, Fortier MA, Heyming T, Linstead E, Donaldson C, Kain Z. Evaluating the 0-10 Point Pain Scale on Adolescent Opioid Use in US Emergency Departments. *J Clin Med.* 2021 Dec 22;11(1):38. doi: 10.3390/jcm11010038. PMID: 35011778

Nash KA, Zima BT, Rothenberg C, Hoffmann J, Moreno C, Rosenthal MS, Venkatesh A. Prolonged Emergency Department Length of Stay for US Pediatric Mental Health Visits (2005-2015). *Pediatrics.* 2021 Apr 5:e2020030692. doi: 10.1542/peds.2020-030692. Online ahead of print. PMID: 33820850

Karpman M, Menon N, Turcotte J. Polynomial modeling of emergency department arrivals: An analysis of local and national utilization patterns. *J Emerg Manag.* 2021 Mar-Apr;19(2):189-196. doi: 10.5055/jem.0569. PMID: 33954967

Bouda Abdulai AS, Mukhtar F, Ehrlich M. United States' Performance on Emergency Department Throughput, 2006 to 2016. *Ann Emerg Med.* 2021 Apr 14:S0196-0644(21)00037-8. doi: 10.1016/j.annemergmed.2021.01.009. Online ahead of print. PMID: 33865616

Adeyemi OJ, Veri S. Characteristics of trauma patients that leave against medical advice: An eight-year survey analysis using the National Hospital Ambulatory Medical Care Survey, 2009-2016. *J Clin Orthop Trauma.* 2021 Jan 27;17:18-24. doi: 10.1016/j.jcot.2021.01.011. eCollection 2021 Jun. PMID: 33680838

Neyman G, Dalsey W.A Quantification of the Impact of Awaiting Results of a Urinalysis upon Emergency Department Length of Stay. *J Emerg Med.* 2020 Nov 27:S0736-4679(20)31045-3. doi: 10.1016/j.jemermed.2020.10.004. Online ahead of print.

Ramgopal S. Interfacility transports by emergency medical services in the United States: Estimates from the National Hospital Ambulatory Medical Care Survey. *Am J Emerg Med.* 2020 May 22. pii: S0735-6757(20)30394-6. doi: 10.1016/j.ajem.2020.05.047. [Epub ahead of print]

Dayal P, Ruttan TK, Kissee JL, Sigal IS, Marcin JP. Association of Insurance With Use of Emergency Medical Services Among Children. *Pediatr Emerg Care.* 2020 Sep;36(9):e500-e507. doi: 10.1097/PEC.0000000000001352. PMID: 29189593

Mariscal TL, Hughes CML, Modrek S. Changes in Incidents and Payment Methods for Intimate Partner Violence Related Injuries in Women Residing in the United States, 2002 to 2015. *Womens Health Issues.* 2020 Jun 28:S1049-3867(20)30042-6. doi: 10.1016/j.whi.2020.05.002. Online ahead of print. PMID: 32611507

Mahmood A, Wyant DK, Kedia S, Ahn S, Powell MP, Jiang Y, Bhuyan SS. Self-Check-In Kiosks Utilization and Their Association With Wait Times in Emergency Departments in the United States. *J Emerg Med.* 2020 Jan 7. pii: S0736-4679(19)31016-9. doi: 10.1016/j.jemermed.2019.11.019. [Epub ahead of print]

Otterness K, Thode HC Jr, Singer AJ. Methods of laceration closure in the ED: A national perspective. *Am J Emerg Med.* 2019 Jul 25:158365. doi: 10.1016/j.ajem.2019.158365. [Epub ahead of print]

Al Jalbout N, Balhara KS, Hamade B, Hsieh YH, Kelen GD, Bayram JD. Shock index as a predictor of hospital admission and inpatient mortality in a US national database of emergency departments. *Emerg Med J.* 2019 Mar 25. pii: emermed-2018-208002. doi: 10.1136/emermed-2018-208002. [Epub ahead of print]

Chou SC, Gondi S, Baker O, Venkatesh AK, Schuur JD. Analysis of a Commercial Insurance Policy to Deny Coverage for Emergency Department Visits With Nonemergent Diagnoses. *JAMA Netw Open.* 2018 Oct 5;1(6):e183731. doi: 10.1001/jamanetworkopen.2018.3731.

Hocker MB, Gerardo CJ, Theiling BJ, Villani J, Donohoe R, Sandesara H, Limkakeng AT Jr. NHAMCS Validation of Emergency Severity Index as an Indicator of Emergency Department Resource Utilization. *West J Emerg Med.* 2018 Sep;19(5):855-862. doi: 10.5811/westjem.2018.7.37556. Epub 2018 Aug 8.

Déziel JD. Ambulance transport to the emergency department: A patient-selected signal of acuity and its effect on resource provision. *Am J Emerg Med.* 2018 Aug 29. pii: S0735-6757(18)30719-8. doi: 10.1016/j.ajem.2018.08.068. [Epub ahead of print]

Samuels-Kalow ME, Niedzwiecki M, Friedman AB, Sokolove PE, Hsia RY. Comparing resource use between paediatric emergency department visits by triage level. *Emerg Med J.* 2018 Sep 4. pii: emermed-2017-207192. doi: 10.1136/emermed-2017-207192. [Epub ahead of print]

Benedict K, Jackson BR, Chiller T, Beer KD. Estimation of direct healthcare costs of fungal diseases in the United States. *Clin Infect Dis.* 2018 Sep 10. doi: 10.1093/cid/ciy776. [Epub ahead of print]

- Pines JM, Zocchi MS, Black BS. A comparison of care delivered in hospital-based and freestanding emergency departments. *Acad Emerg Med*. 2018 Jan 30. doi: 10.1111/acem.13381. [Epub ahead of print]
- Barnett ML, Linder JA, Clark CR, Sommers BD. Low-Value Medical Services in the Safety-Net Population. *JAMA Intern Med*. 2017 Apr 10. doi: 10.1001/jamainternmed.2017.0401. [Epub ahead of print]
- Mafi JN, Wee CC, Davis RB, Landon BE. Association of Primary Care Practice Location and Ownership With the Provision of Low-Value Care in the United States. *JAMA Intern Med*. 2017 Apr 10. doi: 10.1001/jamainternmed.2017.0410. [Epub ahead of print]
- Galarraga JE, Pines JM. Costs of ED episodes of care in the United States. *Am J Emerg Med*. 2015 Jun 6. pii: S0735-6757(15)00465-9. doi: 10.1016/j.ajem.2015.06.001. [Epub ahead of print]
- Hudgins JD, Fine AM, Bourgeois FT. Effect of Randomized Clinical Trial Findings on Emergency Management. *Acad Emerg Med*. 2016 Jan;23(1):36-47. doi: 10.1111/acem.12840. Epub 2015 Dec 31.
- Kanzaria HK, Probst MA, Hsia RY. Emergency Department Death Rates Dropped By Nearly 50 Percent, 1997–2011. *Health Affairs* 35, No. 7(2016):1303-1308. doi: 10.1377/hlthaff.2015.1394
- Moe J, Belsky JB. Comparing patients who leave the ED prematurely, before vs after medical evaluation: a National Hospital Ambulatory Medical Care Survey analysis. *Am J Emerg Med*. 2016 Jan 26. pii: S0735-6757(16)00025-5. doi: 10.1016/j.ajem.2016.01.015. [Epub ahead of print]
- Galarraga JE, Pines JM. Costs of ED episodes of care in the United States. *Am J Emerg Med*. 2015 Jun 6. pii: S0735-6757(15)00465-9. doi: 10.1016/j.ajem.2015.06.001. [Epub ahead of print]
- Hudgins JD, Fine AM, Bourgeois FT. Effect of Randomized Clinical Trial Findings on Emergency Management. *Acad Emerg Med*. 2016 Jan;23(1):36-47. doi: 10.1111/acem.12840. Epub 2015 Dec 31.
- Blecker S, Gavin NP, Park H, Ladapo JA, Katz SD. Observation Units as Substitutes for Hospitalization or Home Discharge. *Ann Emerg Med*. 2015 Nov 24. pii: S0196-0644(15)01424-9. doi: 10.1016/j.annemergmed.2015.10.025. [Epub ahead of print]
- Urban RW, Mumba M, Martin SD, Glowicz J, Cipher DJ. Modified Early Warning System as a Predictor for Hospital Admissions and Previous Visits in Emergency Departments. *Adv Emerg Nurs J*. 2015 Oct-Dec;37(4):281-9. doi: 10.1097/TME.0000000000000076.
- Capp R, Sun B, Boatright D, Gross C. The impact of emergency department observation units on United States emergency department admission rates. *J Hosp Med*. 2015 Nov;10(11):738-42. doi: 10.1002/jhm.2447.
- Muthusamy AK, Cappell MS, Manickam P, Levine DL. Risk factors for discharge against medical advice in patients with UGI bleeding or abdominal pain: a study of 170 discharges against medical advice among 11,996 emergency department visits. *Minerva Gastroenterol Dietol*. 2015 Dec;61(4):185-190.
- Rominger AH, Smith MJ, Stevenson MD. Emergency Medical Services System Utilization Over the Last 10 Years: What Predicts Transport of Children? *Pediatr Emerg Care*. 2015 Apr 14. [Epub ahead of print]
- Watts SH, David Bryan E, Tarwater PM. Changes in insurance status and emergency department visits after the 2008 economic downturn. *Acad Emerg Med*. 2015 Jan;22(1):73-80. doi: 10.1111/acem.12553. Epub 2014 Dec 24.
- Napoli AM, Mullins PM, Pines JM. Predictors of hospital admission after ED observation unit care. *Am J Emerg Med*. 2014 Aug 23. pii: S0735-6757(14)00593-2. doi: 10.1016/j.ajem.2014.08.039. [Epub ahead of print]

- Mann NC, Kane L, Dai M, Jacobson K. Description of the 2012 NEMSIS Public-Release Research Dataset. *Prehosp Emerg Care*. 2014 Oct 7. [Epub ahead of print] [study compared results to NHAMCS]
- Kanzaria HK, Probst MA, Ponce NA, Hsia RY. The association between advanced diagnostic imaging and ED length of stay. *Am J Emerg Med*. 2014 Aug 7. pii: S0735-6757(14)00532-4. doi: 10.1016/j.ajem.2014.07.038. [Epub ahead of print]
- Taylor J, Uchino K, Hussain MS, Carlson JN. Factors associated with delayed evaluation of patients with potential stroke in US EDs. *Am J Emerg Med*. 2014 Aug 27. pii: S0735-6757(14)00601-9. doi: 10.1016/j.ajem.2014.08.047. [Epub ahead of print]
- Nolan JM, Fee C, Cooper BA, Rankin SH, Blegen MA. Psychiatric Boarding Incidence, Duration, and Associated Factors in United States Emergency Departments. *J Emerg Nurs*. 2014 Jul 14. pii: S0099-1767(14)00205-0. doi: 10.1016/j.jen.2014.05.004. [Epub ahead of print]
- Capp R, Ross JS, Fox JP, Wang Y, Desai MM, Venkatesh AK, Krumholz HM. Hospital variation in risk-standardized hospital admission rates from US EDs among adults. *Am J Emerg Med*. 2014 Mar 28. pii: S0735-6757(14)00221-6. doi: 10.1016/j.ajem.2014.03.033. [Epub ahead of print]
- Pitts SR, Vaughns FL, Gautreau MA, Cogdell MW, Meisel Z. A Cross-sectional Study of Emergency Department Boarding Practices in the United States. *Acad Emerg Med*. 2014 May;21(5):497-503. doi: 10.1111/acem.12375.
- Riguzzi C, Hern HG, Vahidnia F, Herring A, Alter H. The july effect: is emergency department length of stay greater at the beginning of the hospital academic year? *West J Emerg Med*. 2014 Feb;15(1):88-93. doi: 10.5811/westjem.2013.10.18123.
- Honigman LS, Wiler JL, Rooks S, Ginde AA. National Study of Non-urgent Emergency Department Visits and Associated Resource Utilization. *West J Emerg Med*. 2013 Nov;14(6):609-16. doi: 10.5811/westjem.2013.5.16112.
- Horeczko T, Marcin JP, Kahn JM, Sapien RE; on behalf of the Consortium Of Regionalization Efforts in Emergency Medical Services for Children (CORE-EMSC). Urban and Rural Patterns in Emergent Pediatric Transfer: A Call for Regionalization. *J Rural Health*. 2013 Oct 25. doi: 10.1111/jrh.12051. [Epub ahead of print]
- Nacht J, Macht M, Ginde AA. Interhospital transfers from u.s. Emergency departments: implications for resource utilization, patient safety, and regionalization. *Acad Emerg Med*. 2013 Sep;20(9):888-93. doi: 10.1111/acem.12209. Epub 2013 Aug 27.
- Mullins, Peter M; Goyal, Munish; Pines, Jesse M. National Growth in Intensive Care Unit Admissions From Emergency Departments in the United States from 2002 to 2009. *Academic Emergency Medicine* 20. 5 (May 2013): 479.
- Herring AA, Ginde AA, Fahimi J, Alter HJ, Maselli JH, Espinola JA, Sullivan AF, Camargo CA Jr. Increasing critical care admissions from U.S. Emergency departments, 2001-2009\*. *Crit Care Med*. 2013 May;41(5):1197-204. doi: 10.1097/CCM.0b013e31827c086f.
- Green SM. Congruence of Disposition After Emergency Department Intubation in the National Hospital Ambulatory Medical Care Survey. *Ann Emerg Med*. 2012 Oct 25. doi:pii: S0196-0644(12)01543-0. 10.1016/j.annemergmed.2012.09.010. [Epub ahead of print]
- Kocher KE, Meurer WJ, Desmond JS, Nallamotheu BK. Effect of testing and treatment on emergency department length of stay using a national database. *Acad Emerg Med*. 2012 May;19(5):525-34. doi: 10.1111/j.1553-2712.2012.01353.x.

- Durant E, Fahimi J. Factors Associated with Ambulance Use among Patients with Low-Acuity Conditions. *Prehosp Emerg Care*. 2012 Apr 11. [Epub ahead of print]
- Hooman Kamel, Babak B. Navi, Jahan Fahimi. National Trends in Ambulance Use by Patients With Stroke, 1997-2008. *JAMA*. 2012;307(10):1026-1028. doi: 10.1001/jama.2012.285
- Fee C, Burstin H, Maselli JH, Hsia RY. Association of emergency department length of stay with safety-net status. *JAMA*. 2012 Feb 13;307(5):476-82.
- Weaver MD, Moore CG, Patterson PD, Yealy DM. Medical Necessity in Emergency Medical Services Transports. *Am J Med Qual*. 2011 Dec 27. [Epub ahead of print]
- Faul M, Wald MM, Sullivent EE, Sasser SM, Kapil V, Lerner EB, Hunt RC. Large Cost Savings Realized From The 2006 Field Triage Guideline: Reduction in Overtriage in U.S. Trauma Centers. *Prehosp Emerg Care*. 2011 Oct 18. [Epub ahead of print]
- Meisel ZF, Pines JM, Polsky D, Metlay JP, Neuman MD, Branas CC. Variations in Ambulance Use in the United States: The Role of Health Insurance. *Acad Emerg Med*. 2011 Oct;18(10):1036-1044. doi: 10.1111/j.1553-2712.2011.01163.x.
- Venkatesh AK, Geisler BP, Gibson Chambers JJ, Baugh CW, Bohan JS, Schuur JD. Use of Observation Care in US Emergency Departments, 2001 to 2008. *PLoS One*. 2011;6(9):e24326. Epub 2011 Sep 14.
- Wiler JL, Ross MA, Ginde AA. National study of emergency department observation services. *Acad Emerg Med*. 2011 Sep;18(9):959-65. doi: 10.1111/j.1553-2712.2011.01151.x. Epub 2011 Aug 30.
- Pham JC, Kirsch TD, Hill PM, Deruggerio K, Hoffmann B. Seventy-two-hour Returns May Not be a Good Indicator of Safety in the Emergency Department: A National Study. *Acad Emerg Med*. 2011 Apr;18(4):390-7. doi: 10.1111/j.1553-2712.2011.01042.x.
- Slade EP, Dixon LB, Semmel S. Trends in the duration of emergency department visits, 2001-2006. *Psychiatr Serv*. 2010 Sep;61(9):878-84.
- Wheeler E, Hardie T, Klemm P, Akanji I, Schonewolf E, Scott J, Sterling B. Level of pain and waiting time in the emergency department. *Pain Manag Nurs*. 2010 Jun;11(2):108-14. Epub 2009 Sep 18.
- Pham JC, Ho GK, Hill PM, McCarthy ML, Pronovost PJ. National study of patient, visit, and hospital characteristics associated with leaving an emergency department without being seen: predicting LWBS. *Acad Emerg Med*. 2009 Oct;16(10):949-55.
- Herring A, Wilper A, Himmelstein DU, Woolhandler S, Espinola JA, Brown DF, Camargo Jr CA. Increasing Length of Stay Among Adult Visits to U.S. Emergency Departments, 2001-2005. *Acad Emerg Med*. 2009 Jun 15. [Epub ahead of print]
- Wu BU, Banks PA, Conwell DL. Disparities in Emergency Department Wait Times for Acute Gastrointestinal Illnesses: Results From the National Hospital Ambulatory Medical Care Survey, 1997-2006. *Am J Gastroenterol*. 2009 May 12. [Epub ahead of print]
- Carr BG, Hollander JE, Baxt WG, Datner EM, Pines JM. Trends in boarding of admitted patients in US emergency departments 2003-2005. *J Emerg Med*. 2009 Jan 5. [Epub ahead of print] doi:10.1016/j.jemermed.2008.04.035
- Wilper AP, Woolhandler S, Lasser KE, McCormick D, Cutrona SL, Bor DH, Himmelstein DU. Waits To See An Emergency Department Physician: U.S. Trends And Predictors, 1997-2004. *Health Affairs (Published online January 15, 2008)*

- Wittels KA, Pelletier AJ, Brown DF, Camargo Jr CA. United States emergency department visits for vaginal bleeding during early pregnancy, 1993-2003. *Am J Obstet Gynecol*. 2008 Jan 11 [Epub ahead of print]
- Rodriguez GJ, Nasar A, Suri MF, Ezzeddine MA, Qureshi AI. Neuroimaging in Stroke and Seizure As Neurological Emergencies (NISSAN) Study. *J Neuroimaging*. 2008 Jan;18(1):9-14.
- Bennett KJ, Moore CG, Probst JC. Estimating uncompensated care charges at rural hospital emergency departments. *J Rural Health*. 2007 Summer;23(3):258-63
- Sun BC, Binstadt ES, Pelletier A, Camargo CA Jr. Characteristics and temporal trends of "left before being seen" visits in US Emergency Departments, 1995-2002. *J Emerg Med*. 2007 Feb;32(2):211-5. Epub 2007 Jan 18.
- Gao X, Outley J, Botteman M, Spalding J, Simon JA, Pashos CL. Economic burden of endometriosis. *Fertil Steril*. 2006 Oct 20; [Epub ahead of print]
- Richards ME, Hubble MW, Crandall C. Influence of ambulance arrival on emergency department time to be seen. *Prehosp Emerg Care*. 2006 Oct-Dec;10(4):440-6.
- Coyne KS, Paramore C, Grandy S, Mercader M, Reynolds M, Zimetbaum P. Assessing the direct costs of treating nonvalvular atrial fibrillation in the United States. *Value Health*. 2006 Sep-Oct;9(5):348-56.
- Larkin GL, Claassen CA, Pelletier AJ, Camargo CA Jr. National study of ambulance transports to United States emergency departments: importance of mental health problems. *Prehospital Disaster Med*. 2006 Mar-Apr;21(2 Suppl 2):82-90.
- Adekoya N. Patients seen in emergency departments who had a prior visit within the previous 72 hours-National Hospital Ambulatory Medical Care Survey, 2002. *Public Health*. 2005 Jul 26; [Epub ahead of print]
- Akhtar S, Husk G, Waxman D, Sonara P. Emergency department crowding: a national perspective. *Annals of Emergency Medicine*, October 2004, 44:4. S29.
- Weinick RM, Billings J, Thorpe JM. Ambulatory care sensitive emergency department visits: a national perspective. *Acad Emerg Med* 2003 May;10(5):525-6
- Sarver J, Cydulka RK. Emergency Department Provision of Nonurgent Care and Waiting Time to See a Physician. *Acad. Emerg. Med*. 2001 8: 576-a
- Wang N, Camargo CA Jr, Spilseth EE. National Study of ED Patients Who "Left Before Being Seen" by a Physician, 1992-2000. *Acad Emerg Med* 2003 May;10(5):575.
- McLean SA, Maio RF, Domeier RM. The epidemiology of pain in the prehospital setting. *Prehosp Emerg Care* 2002 Oct-Dec;6(4):402-5
- Javitz HS, Ward MM, Farber E, Nail L, Vallow SG. The direct cost of care for psoriasis and psoriatic arthritis in the United States. *J Am Acad Dermatol* 2002 Jun;46(6):850-60
- Forrest CB, Whelan E. Primary care safety-net delivery sites in the United States: A comparison of community health centers, hospital outpatient departments, and physicians' offices. *JAMA* 2000; 284:2077-2083.
- Fong C. The influence of insurance status on nonurgent pediatric visits to the emergency department. *Acad Emerg Med* 1999 Jul;6(7):744-8.



O'Brien C, Milzman D. NHAMCS: quality of a national emergency department-based information system questioned. National Hospital Ambulatory Medical Care Survey. *Acad Emerg Med* 1999 Jun;6(6):666-8.

Miller TR, Cohen MA. Costs of gunshot and cut/stab wounds in the United States, with some Canadian comparisons. *Accid Anal Prev* 1997 May;29(3):329-341.

Schappert SM. The urgency of visits to hospital emergency departments: Data from the National Hospital Ambulatory Medical Care Survey (NHAMCS), 1992. *Statistical Bulletin* Vol. 76, No. 4, Oct-Dec 1995, pp. 10-20.

## **8a. METHODOLOGY - NCHS REPORTS**

Effects of Form Length and Item Format on Response Patterns and Estimates of Physician Office and Hospital Outpatient Department Visits--National Ambulatory Medical Care Survey and National Hospital Ambulatory Medical Care Survey, 2001. [Series 2, No. 139]

Plan and Operation of the National Hospital Ambulatory Medical Care Survey [Series 1, No. 34]

## **8b. METHODOLOGY – JOURNAL ARTICLES USING NHAMCS DATA**

Yao LH, Leung KC, Tsai CL, Huang CH, Fu LC. A Novel Deep Learning-Based System for Triage in the Emergency Department Using Electronic Medical Records: Retrospective Cohort Study. *J Med Internet Res*. 2021 Dec 27;23(12):e27008. doi: 10.2196/27008. PMID: 34958305

Lemke KW, Pham K, Ravert DM, Weiner JP. A revised classification algorithm for assessing emergency department visit severity of populations. *Am J Manag Care*. 2020 Mar;26(3):119-125. doi: 10.37765/ajmc.2020.42636.

Zhang X, Bellolio MF, Medrano-Gracia P, Werys K, Yang S, Mahajan P. Use of natural language processing to improve predictive models for imaging utilization in children presenting to the emergency department. *BMC Med Inform Decis Mak*. 2019 Dec 30;19(1):287. doi: 10.1186/s12911-019-1006-6.

Ward BW. `kg_nchs`: A command for Korn-Graubard confidence intervals and National Center for Health Statistics' Data Presentation Standards for Proportions. *Stata J*. 2019 Sep;19(3):510-522. doi: 10.1177/1536867X19874221. Epub 2019 Sep 20.

Raita Y, Goto T, Faridi MK, Brown DFM, Camargo CA Jr, Hasegawa K. Emergency department triage prediction of clinical outcomes using machine learning models. *Crit Care*. 2019 Feb 22;23(1):64. doi: 10.1186/s13054-019-2351-7.

Goto T, Camargo CA Jr, Faridi MK, Freishtat RJ, Hasegawa K. Machine Learning-Based Prediction of Clinical Outcomes for Children During Emergency Department Triage. *JAMA Netw Open*. 2019 Jan 4;2(1):e186937. doi: 10.1001/jamanetworkopen.2018.6937.

Goto T, Camargo CA Jr, Faridi MK, Yun BJ, Hasegawa K. Machine learning approaches for predicting disposition of asthma and COPD exacerbations in the ED. *Am J Emerg Med*. 2018 Jun 28. pii: S0735-6757(18)30544-8. doi: 10.1016/j.ajem.2018.06.062. [Epub ahead of print]

Zhang X, Kim J, Patzer RE, Pitts SR, Patzer A, Schrager JD. Prediction of Emergency Department Hospital Admission Based on Natural Language Processing and Neural Networks. *Methods Inf Med*. 2017 Aug 16;56(5). doi: 10.3414/ME17-01-0024. [Epub ahead of print]

Dugas AF, Kirsch TD, Toerper M, Korley F, Yenokyan G, France D, Hager D, Levin S. An Electronic Emergency Triage System to Improve Patient Distribution by Critical Outcomes. *J Emerg Med.* 2016 Apr 25. pii: S0736-4679(16)00152-9. doi: 10.1016/j.jemermed.2016.02.026. [Epub ahead of print]

Note: The next study did not directly analyze NHAMCS data, but used 2008 NHAMCS-ED data to construct an average length of stay for use with their analysis of collected daily “door to room” interval averages from the ED information system, Meditech:

Krall SP, Cornelius AP, Addison JB. Hospital Factors Impact Variation in Emergency Department Length of Stay more than Physician Factors. *West J Emerg Med.* 2014 Mar;15(2):158-64. doi: 10.5811/westjem.2013.12.6860.

He Y, Selck F, Normand SL. On the accuracy of classifying hospitals on their performance measures. *Stat Med.* 2013 Oct 13. doi: 10.1002/sim.6012. [Epub ahead of print]

McNaughton CD, Self WH, Pines JM. Observational health services studies using nationwide administrative data sets: understanding strengths and limitations of the national hospital ambulatory medical care survey: Answers to the May 2013 journal club questions. *Ann Emerg Med.* 2013 Oct;62(4):425-30. doi: 10.1016/j.annemergmed.2013.07.498.

McNaughton CD, Parnell J, Barrett TW. Details in operational definitions of length of visit and boarding variables in the national hospital ambulatory medical care survey. *Ann Emerg Med.* 2013 Nov;62(5):548-9. doi: 10.1016/j.annemergmed.2013.02.032. No abstract available.

Pitts SR. Medical Records, Chart Reviews, and NHAMCS: Becoming the Lords of All That We Survey. *Ann Emerg Med*, In Press, Corrected Proof, Available online 6 April 2013.

McNaughton CD, Self WH. Observational Health Services Studies Using Nationwide Administrative Datasets: Understanding Strengths and Limitations of the National Hospital Ambulatory Medical Care Survey (NHAMCS). *Ann Emerg Med.* 2013 May;61(5):593-4. doi: 10.1016/j.annemergmed.2013.03.011.

McCaig LF, Burt CW. Understanding and Interpreting the National Hospital Ambulatory Medical Care Survey: Key Questions and Answers. *Ann Emerg Med.* 2012 Oct 17. pii: S0196-0644(12)01195-X. doi: 10.1016/j.annemergmed.2012.07.010. [Epub ahead of print]

Wilson MP, Vilke GM, Govindarajan P, Itagaki MW. Emergency Physicians Research Common Problems in Proportion to their Frequency. *West J Emerg Med.* 2012 Sep;13(4):344-50. doi: 10.5811/westjem.2011.6.6722.

Diaz R, Behr JG, Tulpule M. A System Dynamics Model for Simulating Ambulatory Health Care Demands. *Simul Healthc.* 2012 Jun 20. [Epub ahead of print]

Alessandrini EA, Alpern ER, Chamberlain JM, Shea JA, Holubkov R, Gorelick MH; for the Pediatric Emergency Care Applied Research Network. Developing a Diagnosis-based Severity Classification System for Use in Emergency Medical Services for Children. *Acad Emerg Med.* 2012 Jan;19(1):70-78. doi: 10.1111/j.1553-2712.2011.01250.x.

Zhu M, Chu H, Greenland S. Biased standard errors from complex survey analysis: an example from applying ordinary least squares to the national hospital ambulatory medical care survey. *Ann Epidemiol.* 2011 Nov;21(11):830-4.

Zhu M, Chu H, Rice TM, Carter MW. Implications of Conducting Trend Analyses of Emergency Department Visits Using Publicly Released Masked Design Variables. *Ann Emerg Med.* 2011 Feb 8. [Epub ahead of print]

Qualls M, Pallin DJ, Schuur JD. Parametric versus nonparametric statistical tests: the length of stay example. *Acad Emerg Med.* 2010 Oct;17(10):1113-21. doi: 10.1111/j.1553-2712.2010.00874.x.

Hakenewerth AM, Waller AE, Ising AI, Tintinalli JE. North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) and the National Hospital Ambulatory Medical Care Survey (NHAMCS): Comparison of Emergency Department Data. *Acad Emerg Med*. 2008 Dec 30. [Epub ahead of print]

Burt CW, Hing E. Making patient-level estimates from medical encounter records using a multiplicity estimator. *Stat Med*. 2007 Jan 15; [Epub ahead of print]

Gorelick MH, Alpern ER, Alessandrini EA. A system for grouping presenting complaints: the pediatric emergency reason for visit clusters. *Acad Emerg Med*. 2005 Aug;12(8):723-31.

Day F, Schriger DL, La M. Automated Linking of Free-Text Complaints to Reason-for-Visit Categories and International Classification of Diseases Diagnoses in Emergency Department Patient Record Databases. *Ann Emerg Med*. 2004;43:401-409.

Hing E, Gousen S, Shimizu I, Burt C. Guide to Using Masked Design Variables to Estimate Standard Errors in Public Use Files of the National Ambulatory Medical Care Survey and the National Hospital Ambulatory Medical Care Survey. *Inquiry*. 40(4):416-415. Winter 2003/2004.

Machlin SR, Valluzzi JL, Chevarley M, et al. Measuring ambulatory health care use in the United States: A comparison of 1996 estimates across four Federal surveys. *Journal of Economic and Social Measurement*. 2001, 27, 57-69.

### **8c. METHODOLOGY - OTHER PUBLICATIONS USING NHAMCS DATA**

Shimizu I, Henderson K, Johnson W. Design effects for the National Hospital Ambulatory Medical Care Survey. *Proceedings of the Survey Research Section, American Statistical Assoc*. 2000: 480-485.

Gonzalez JF, Shimizu I. Effects of design assumptions on SUDAAN variances for estimates of aggregates in the National Hospital Ambulatory Medical Care Survey. 1999 *Proceedings of the Survey Research Section, American Statistical Assoc*. 2000: 784-789.

### **9a. FACILITY CHARACTERISTICS - NCHS REPORTS**

Availability of pediatric services and equipment in emergency departments: United States, 2006. [NHSR No. 47]

Use of electronic medical records by ambulatory care providers: United States, 2006. [NHSR No. 22]

Emergency Response Planning in Hospitals, United States: 2003-2004 [ADR No. 391]

Training for terrorism-related conditions in hospitals: United States, 2003-04 [ADR No. 380]

Availability of pediatric services and equipment in emergency departments: United States, 2002-03. [ADR No. 367]

Bioterrorism and mass casualty preparedness in hospitals: United States, 2003. [ADR No. 364]

Use of computerized clinical support systems in medical settings: United States, 2001-03 [ADR No. 353]

### **9b. FACILITY CHARACTERISTICS – JOURNAL ARTICLES USING NHAMCS DATA**

Alishahi Tabriz A, Trogdon JG, Fried BJ. Association between adopting emergency department crowding interventions and emergency departments' core performance measures. *Am J Emerg Med*. 2019 Apr 29. pii: S0735-6757(19)30273-6. doi: 10.1016/j.ajem.2019.04.048. [Epub ahead of print]

Li J, Monuteaux MC, Bachur RG. Variation in Pediatric Care Between Academic and Nonacademic US Emergency Departments, 1995-2010. *Pediatr Emerg Care*. 2017 Jan 24. doi: 10.1097/PEC.0000000000001036. [Epub ahead of print]

Selck FW, Decker SL. Health Information Technology Adoption in the Emergency Department. *Health Serv Res*. 2015 Apr 8. doi: 10.1111/1475-6773.12307. [Epub ahead of print]

Hossain L, Kit Guan DC. Modelling coordination in hospital emergency departments through social network analysis. *Disasters*. 2012 Apr;36(2):338-64. doi: 10.1111/j.0361-3666.2010.01260.x.

Furukawa MF. Electronic Medical Records and the Efficiency of Hospital Emergency Departments. *Med Care Res Rev*. 2010 Jun 16. [Epub ahead of print]

Landman AB, Bernstein SL, Hsiao AL, Desai RA. Emergency department information system adoption in the United States. *Acad Emerg Med*. 2010 May;17(5):536-44.

Geisler BP, Schuur JD, Pallin DJ. Estimates of electronic medical records in U.S. emergency departments. *PLoS One*. 2010 Feb 17;5(2):e9274.

Keyhani S, Hebert PL, Ross JS, Federman A, Zhu CW, Siu AL. Electronic health record components and the quality of care. *Med Care*. 2008 Dec;46(12):1267-72.

Friedberg MW, Mehrotra A, Linder JA. Reporting hospitals' antibiotic timing in pneumonia: adverse consequences for patients? *Am J Manag Care*. 2009 Feb;15(2):137-44.

Mathews SC, Kelen GD, Pronovost PJ, Pham JC. A National Study Examining Emergency Medicine Specialty Training and Quality Measures in the Emergency Department. *Am J Med Qual*. 2010 Aug 17. [Epub ahead of print]

Brown DW, Young SL, Engelgau MM, Mensah GA. Evidence-based approach for disaster preparedness authorities to inform the contents of repositories for prescription medications for chronic disease management and control. *Prehosp Disaster Med*. 2008 Sep-Oct;23(5):447-57.

Niska RW. Hospital collaboration with public safety organizations on bioterrorism response. *Prehosp Emerg Care*. 2008 Jan-Mar;12(1):12-7.

Burt CW, Middleton KR. Factors Associated With Ability to Treat Pediatric Emergencies in US Hospitals. *Pediatric Emergency Care* 2007. 23(10). 681-689.

#### **10a. MISCELLANEOUS - OTHER PUBLICATIONS USING NHAMCS DATA**

Runyan CW, Casteel C.(eds.) *The State of Home Safety in America: Facts about Unintentional Injuries in the Home*, 2<sup>nd</sup> edition, Washington DC, Home Safety Council, 2004