EDM Forum Community

Issue Briefs and Reports

Learn

9-19-2015

EDM Forum Bibliography (September, 2015): Peer-Reviewed Literature Using Electronic Health Data for System Improvement

EDM Forum

Follow this and additional works at: http://repository.edm-forum.org/edm_briefs

Part of the <u>Health Information Technology Commons</u>, <u>Health Services Research Commons</u>, and the Other Medicine and Health Sciences Commons

Recommended Citation

EDM Forum, "EDM Forum Bibliography (September, 2015): Peer-Reviewed Literature Using Electronic Health Data for System Improvement" (2015). *Issue Briefs and Reports.* Paper 15. http://repository.edm-forum.org/edm_briefs/15

This Original Article is brought to you for free and open access by the Learn at EDM Forum Community. It has been accepted for inclusion in Issue Briefs and Reports by an authorized administrator of EDM Forum Community.

EDM Forum Bibliography (September, 2015) Peer-Reviewed Literature Using Electronic Health Data for System Improvement

The EDM Forum's two reviews – conducted in 2011 and 2015 – compile literature from diverse sources including peer-reviewed manuscripts identified by PubMed based queries and articles published to date in *eGEMs*. The papers below address the use of electronic health data for health system improvement.

The articles are organized alphabetically by last name of first author.

- Abernethy AP, Etheredge LM, Ganz PA, Wallace P, German RR, Neti C, Bach PB, Murphy SB. Rapid-learning system for cancer care. *J Clin Oncol*. 2010 Sep 20; 28(27):4268-74.
- Abernethy AP, Wheeler JL, Zafar SY. Management of gastrointestinal symptoms in advanced cancer patients: the rapid learning cancer clinic model. *Curr Opin Support Palliat Care*. 2010;4(1):36-45.
- Aghayev E, Henning J, Munting E, Diel P, Moulin P, Röder C, et al. Comparative effectiveness research across two spine registries. *Eur Spine J*. 2012 Aug;21(8):1640-7
- Agrawal BM, Brooks NP, Resnick DK. Wisconsin Spine Outcome Study-Pilot: preliminary data. *Neurosurgical focus*. 2012;33(1):E15.
- Ahmed S, Berzon RA, Revicki DA, Lenderking WR, Moinpour CM, Basch E, et al. The use of patient-reported outcomes (PRO) within comparative effectiveness research: implications for clinical practice and health care policy. *Med Care*. 2012 Dec;50(12):1060-70.
- Aickin M, McCaffery A, Pugh G, Tick H, Ritenbaugh C, Hicks P, et al. Description of a clinical stream of back-pain patients based on electronic medical records. *Complement Ther Clin Pract*. 2013;19(3):158-76.
- Aiello Bowles EJ, Tuzzio L, Ritzwoller DP, Williams AE, Ross T, Wagner EH, Neslund-Dudas C, Altschuler A, Quinn V, Hornbrook M, Nekhlyudov L. Accuracy and complexities of using automated clinical data for capturing chemotherapy administrations: implications for future research. *Med Care*. 2009 Oct;47(10):1091-7.
- Albert RK. "Lies, damned lies ..." and observational studies in comparative effectiveness research. *Am J Respir Crit Care Med*. 2013;187(11):1173-7.
- Alemayehu D, Cappelleri JC. Evaluating methodological assumptions in comparative effectiveness research: overcoming pitfalls. *J Comp Eff Res.* 2014;3(1):79-93.
- Alemayehu D, Cappelleri JC. Revisiting issues, drawbacks and opportunities with observational studies in comparative effectiveness research. *J Eval Clin Pract*. 2013;19(4):579-83.
- Aliprandi-Costa B, Ranasinghe I, Turnbull F, Brown A, Kritharides L, Patel A, et al. The design and rationale of the Australian Cooperative National Registry of Acute Coronary care, Guideline Adherence and Clinical Events (CONCORDANCE). *Circulation*. 2013;22(7):533-41.
- Allen C, Des Jardins TR, Heider A, Lyman KA, McWilliams L, Rein AL, et al. Data governance and data sharing agreements for community-wide health information exchange: lessons from the beacon communities. *eGEMs*. 2014;2(1):1057.

- Ambert KH, Cohen AM. A system for classifying disease comorbidity status from medical discharge summaries using automated hotspot and negated concept detection. *J Am Med Inform Assoc.* 2009 Jul-Aug;16(4):590-5.
- Amin W, Singh H, Pople AK, Winters S, Dhir R, Becich MJ. A decade of experience in the development and implementation of tissue banking informatics tools for intra and inter-institutional translational research. *J Pathol Inform*. 2010; 1:12.
- Anderson JE, Rhinehart AS, Reid TS, Cuddihy RM, Vlajnic A, Dalal MR, et al. A practice-based research network focused on comparative effectiveness research in type 2 diabetes management. *Postgrad Med*. 2013 May;125(3):172-80.
- Aplenc R, Fisher BT, Huang YS, Li Y, Alonzo TA, Gerbing RB, et al. Merging of the National Cancer Institute-funded cooperative oncology group data with an administrative data source to develop a more effective platform for clinical trial analysis and comparative effectiveness research: a report from the Children's Oncology Group. *Pharmacoepidemiol Drug Saf.* 2012 May;21 Suppl 2:37-43.
- Apte M, Neidell M, Furuya EY, Caplan D, Glied S, Larson E. Using electronically available inpatient hospital data for research. *Clin Transl Sci.* 2011;4(5):338-45.
- Armstrong K. Methods in comparative effectiveness research. J Clin Oncol. 2012;30(34):4208-14.
- Aronsky D, Haug PJ. Assessing the quality of clinical data in a computer-based record for calculating the pneumonia severity index. *J Am Med Inform Assoc*. 2000 Jan-Feb;7(1):55-65.
- Arterburn D, Johnson ES, Butler MG, Fisher D, Bayliss EA. Predicting 90-day mortality after bariatric surgery: an independent, external validation of the OS-MRS prognostic risk score. *Surg Obes Relat Dis.* 2014 Sep-Oct;10(5):774-9.*
- Arterburn D, Powers JD, Toh S, Polsky S, Butler MG, Portz JD, et al. Comparative effectiveness of laparoscopic adjustable gastric banding vs laparoscopic gastric bypass. *JAMA Surg*. 2014 Dec;149(12):1279-87.*
- Atkins D, Chang SM, Gartlehner G, Buckley DI, Whitlock EP, Berliner E, et al. Assessing applicability when comparing medical interventions: AHRQ and the Effective Health Care Program. *J Clin Epidemiol*. 2011;64(11):1198-207.
- Atkins D. Connecting research and patient care: lessons from the VA's Quality Enhancement Research Initiative. *J Gen Intern Med*. 2010 Jan;25 Suppl 1:1-2.
- Aubry WM. Ways decision makers can use evidence to improve patient outcomes in learning health systems: a message from the guest editor. *eGEMs*. 2013;1(2):1050.
- Austin PC, Newman A, Kurdyak PA. Using the Johns Hopkins Aggregated Diagnosis Groups (ADGs) to predict mortality in a population-based cohort of adults with schizophrenia in Ontario, Canada. *Psychiatry research*. 2012;196(1):32-7.
- Austin PC, van Walraven C, Wodchis WP, Newman A, Anderson GM. Using the Johns Hopkins Aggregated Diagnosis Groups (ADGs) to predict mortality in a general adult population cohort in Ontario, Canada. *Med Care*. 2011;49(10):932-9.
- Ayers DC, Zheng H, Franklin PD. Integrating patient-reported outcomes into orthopaedic clinical practice: proof of concept from FORCE-TJR. *Clin Orthop Relat Res.* 2013;471(11):3419-25.
- Bafeta A, Trinquart L, Seror R, Ravaud P. Analysis of the systematic reviews process in reports of network meta-analyses: methodological systematic review. *BMJ*. 2013;347:f3675.
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Ballou J, Rich E, Kehn M. Matching study designs to disability-related comparative effectiveness research questions. *J Comp Eff Res.* 2013;2(1):59-68.
- Banerjee AK, Okun S, Edwards IR, Wicks P, Smith MY, Mayall SJ, et al. Patient-Reported Outcome Measures in Safety Event Reporting: PROSPER Consortium guidance. *Drug Saf.* 2013;36(12):1129-49.
- Barocas DA, Chen V, Cooperberg M, Goodman M, Graff JJ, Greenfield S, et al. Using a population-based observational cohort study to address difficult comparative effectiveness research questions: the CEASAR study. *J Comp Eff Res.* 2013 Jul;2(4):445-60
- Basch E, Abernethy AP, Mullins CD, Reeve BB, Smith ML, Coons SJ, et al. Recommendations for incorporating patient-reported outcomes into clinical comparative effectiveness research in adult oncology. *J Clin Oncol*. 2012;30(34):4249-55.
- Basch E. New frontiers in patient-reported outcomes: adverse event reporting, comparative effectiveness, and quality assessment. *Annu Rev Med*. 2014;65:307-17.
- Basu A, Meltzer D. Private manufacturers' thresholds to invest in comparative effectiveness trials. *Pharmacoeconomics*. 2012;30(10):859-68.
- Bateman BT, Mhyre JM, Hernandez-Diaz S, Huybrechts KF, Fischer MA, Creanga AA, et al. Development of a comorbidity index for use in obstetric patients. *Obstet Gynecol*. 2013;122(5):957-65.
- Bates DW, Pappius E, Kuperman GJ, Sittig D, Burstin H, Fairchild D, Brennan TA, Teich JM. Using information systems to measure and improve quality. *Int J Med Inform*. 1999 Feb-Mar;53(2-3):115-24.
- Bayley KB, Belnap T, Savitz L, Masica AL, Shah N, Fleming NS. Challenges in using electronic health record data for CER: experience of 4 learning organizations and solutions applied. *Med Care*. 2013;51(8 Suppl 3):S80-6.
- Beadles CA, Ellis AR, Lichstein JC, Farley JF, Jackson CT, Morrissey JP, et al. First outpatient follow-up after psychiatric hospitalization: does one size fit all? *Psychiatr Serv*. 2015 Apr 1;66(4):364-72.*
- Beadles CA, Farley JF, Ellis AR, Lichstein JC, Morrissey JP, DuBard CA, et al. Do medical homes increase medication adherence for persons with multiple chronic conditions? *Med Care*. 2015 Feb;53(2):168-76.*
- Behrman RE, Benner JS, Brown JS, McClellan M, Woodcock J, Platt R. Developing the Sentinel System--a national resource for evidence development. *N Engl J Med*. 2011 Feb 10;364(6):498-9.
- Bekelman JE, Handorf EA, Guzzo T, Evan Pollack C, Christodouleas J, Resnick MJ, et al. Radical cystectomy versus bladder-preserving therapy for muscle-invasive urothelial carcinoma: examining confounding and misclassification biasin cancer observational comparative effectiveness research. *Value Health*. 2013;16(4):610-8.
- Bellin E, Fletcher DD, Geberer N, Islam S, Srivastava N. Democratizing information creation from health care data for quality improvement, research, and education-the Montefiore Medical Center Experience. *Acad Med.* 2010 Aug;85(8):1362-8.
- Bellows BK, Biskupiak J. Methodological challenges of comparative effectiveness research in pain: implications for investigators, clinicians, and policy makers. *J Pain Palliat Care Pharmacother*. 2011;25(3):267-74.

- Berger ML, Dreyer N, Anderson F, Towse A, Sedrakyan A, Normand SL. Prospective observational studies to assess comparative effectiveness: the ISPOR good research practices task force report. *Value Health*. 2012;15(2):217-30.
- Berger ML, Mamdani M, Atkins D, Johnson ML. Good research practices for comparative effectiveness research: defining, reporting and interpreting nonrandomized studies of treatment effects using secondary data sources: the ISPOR Good Research Practices for Retrospective Database Analysis Task Force Report--Part I. *Value Health*. 2009 Nov-Dec;12(8):1044-52.
- Berlin JA, Cepeda MS. Some methodological points to consider when performing systematic reviews in comparative effectiveness research. *Clin Trials*. 2012;9(1):27-34.
- Berry DA. Bayesian approaches for comparative effectiveness research. Clin Trials. 2012;9(1):37-47.
- Biskupiak JE, Dunn JD, Holtorf AP. Implementing CER: what will it take? *J Manag Care Pharm*. 2012;18(5 Supp A):S19-29.
- Black N. Secondary use of personal data for health and health services research: why identifiable data are essential. *J Health Serv Res Policy*. 2003 Jul;8 Suppl 1:S1:36-40.
- Blanco C, Rafful C, Olfson M. The use of clinical trials in comparative effectiveness research on mental health. *J Clin Epidemiol*. 2013;66(8 Suppl):S29-36.
- Blodt S, Schutzler L, Huang W, Pach D, Brinkhaus B, Hummelsberger J, et al. Effectiveness of additional self-care acupressure for women with menstrual pain compared to usual care alone: using stakeholder engagement to design a pragmatic randomized trial and study protocol. *Trials*. 2013;14:99.
- Borah BJ, Moriarty JP, Crown WH, Doshi JA. Applications of propensity score methods in observational comparative effectiveness and safety research: where have we come and where should we go? *J Comp Eff Res.* 2014;3(1):63-78.
- Bourgeois FT, Murthy S, Mandl KD. Comparative effectiveness research: an empirical study of trials registered in ClinicalTrials.gov. *PLoS One*. 2012;7(1):e28820.
- Bradley CJ, Dahman B, Anscher M. Prostate cancer treatment and survival: evidence for men with prevalent comorbid conditions. *Med Care*. 2014 Jun;52(6):482-9.
- Braithwaite S, Stine N. Health-weighted Composite Quality Metrics Offer Promise to Improve Health Outcomes in a Learning Health System. *eGEMs*. 2013;1(2):1022.
- Bramsen P, Deshpande P, Lee YK, Barzilay R. Finding temporal order in discharge summaries. *AMIA Annu Symp Proc.* 2006:81-5.
- Brasure M, Lamberty GJ, Sayer NA, Nelson NW, Macdonald R, Ouellette J, et al. Participation after multidisciplinary rehabilitation for moderate to severe traumatic brain injury in adults: a systematic review. *Arch Phys Med Rehabil*. 2013;94(7):1398-420.
- Brennan PF, Stead WW. Assessing data quality: from concordance, through correctness and completeness, to valid manipulatable representations. *J Am Med Inform Assoc.* 2000 Jan-Feb;7(1):106-7.
- Broderick JE, DeWitt EM, Rothrock N, Crane PK, Forrest CB. Advances in patient-reported outcomes: the NIH PROMIS measures. *eGEMs*. 2013 Aug 2; 1(1): 1015.
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Bronsert MR, Henderson WG, Valuck R, Hosokawa P, Hammermeister K. Comparative effectiveness of antihypertensive therapeutic classes and treatment strategies in the initiation of therapy in primary care patients: a Distributed Ambulatory Research in Therapeutics Network (DARTNet) study. *J Am Board Fam Med*. 2013 Sep-Oct;26(5):529-38.*
- Brown JS, Holmes JH, Shah K, Hall K, Lazarus R, Platt R. Distributed health data networks: a practical and preferred approach to multi-institutional evaluations of comparative effectiveness, safety, and quality of care. *Med Care*. 2010 Jun;48(6 Suppl):S45-51.
- Brown JS, Kahn M, Toh S. Data quality assessment for comparative effectiveness research in distributed data networks. *Med Care*. 2013;51(8 Suppl 3):S22-9.
- Brown JS, Moore KM, Braun MM, Ziyadeh N, Chan KA, Lee GM, Kulldorff M, Walker AM, Platt R. Active influenza vaccine safety surveillance: potential within a healthcare claims environment. *Med Care*. 2009 Dec;47(12):1251-7.
- Bu D, Pan E, Walker J, Adler-Milstein J, Kendrick D, Hook JM, Cusack CM, Bates DW, Middleton B. Benefits of information technology-enabled diabetes management. *Diabetes Care*. 2007 May;30(5):1137-42.
- Buetow KH. An infrastructure for interconnecting research institutions. *Drug Discov Today*. 2009; 14:605-10.
- Butt Z, Peipert J, Webster K, Chen C, Cella D. General population norms for the Functional Assessment of Cancer Therapy-Kidney Symptom Index (FKSI). *Cancer*. 2013;119(2):429-37.
- Buzkova P. Measurement error and outcomes defined by exceeding a threshold: biased findings in comparative effectiveness trials. *Pharmaceutical statistics*. 2012;11(6):429-41.
- Byrne S, Barry D, Petry NM. Predictors of weight loss success. Exercise vs. dietary self-efficacy and treatment attendance. *Appetite*. 2012 Apr;58(2):695-8.*
- Califf RM. The Patient-Centered Outcomes Research Network: a national infrastructure for comparative effectiveness research. *North Carolina medical journal*. 2014;75(3):204-10.
- Calonge N. EDM forum supplement overview. *Med Care*. 2012 Jul;50 Suppl:S1-2.
- Campbell NL, Skaar TC, Perkins AJ, Gao S, Li L, Khan BA, et al. Characterization of hepatic enzyme activity in older adults with dementia: potential impact on personalizing pharmacotherapy. *Clin Interv Aging*. 2015 Jan 14;10:269-75.*
- Capurro D, phD MY, Van Eaton E, Black R, Tarczy-Hornoch P. Availability of structured and unstructured clinical data for comparative effectiveness research and quality improvement: a multisite assessment. *eGEMs*. 2014 Jul 11; 2(1): 1079.
- Carpenter PC, Chute CG. The Universal Patient Identifier: a discussion and proposal. *Proc Annu Symp Comput Appl Med Care*. 1993:49-53.
- Carpenter WR, Meyer AM, Abernethy AP, Sturmer T, Kosorok MR. A framework for understanding cancer comparative effectiveness research data needs. *J Clin Epidemiol*. 2012;65(11):1150-8.
- Carrell D, Miglioretti D, Smith-Bindman R. Coding free text radiology reports using the Cancer Text Information Extraction System (caTIES). *AMIA Annu Symp Proc.* 2007; 889.

- Carvalho ECA de, Batilana AP, Simkins J, Martins H, Shah J, Rajgor D, Shah A, Rockart S, Pietrobon R. Application description and policy model in collaborative environment for sharing of information on epidemiological and clinical research data sets. *PLoS ONE*. 2010; 5(2):e9314.
- Cazzola M, Segreti A, Rogliani P. Comparative effectiveness of drugs for chronic obstructive pulmonary disease. *Drugs Today (Barc)*. 2012;48(12):785-94.
- Chalkidou K, Tunis S, Whicher D, Fowler R, Zwarenstein M. The role for pragmatic randomized controlled trials (pRCTs) in comparative effectiveness research. *Clin Trials*. 2012;9(4):436-46.
- Chan KA. Development of a Multipurpose Dataset to Evaluate Potential Medication Errors in Ambulatory Settings. In: Henriksen K, Battles JB, Marks ES, Lewin DI, editors. Advances in Patient Safety: From Research to Implementation (Volume 2: Concepts and Methodology). Rockville (MD): Agency for Healthcare Research and Quality (US); 2005 Feb.
- Chang DC, Yu PT, Easterlin MC, Talamini MA. Demystifying sample-size calculation for clinical trials and comparative effectiveness research: the impact of low-event frequency in surgical clinical research. *Surgical endoscopy*. 2013;27(2):359-63.
- Chang TI, Winkelmayer WC. Comparative effectiveness research: what is it and why do we need it in nephrology? *Nephrol Dial Transplant*. 2012;27(6):2156-61.
- Chen RC. Comparative effectiveness research in oncology: the promise, challenges, and opportunities. *Semin Radiat Oncol.* 2014;24(1):1-4.
- Chen RT, Glasser JW, Rhodes PH, Davis RL, Barlow WE, Thompson RS, Mullooly JP, Black SB, Shinefield HR, Vadheim CM, Marcy SM, Ward JI, Wise RP, Wassilak SG, Hadler SC. Vaccine Safety Datalink project: a new tool for improving vaccine safety monitoring in the United States. The Vaccine Safety Datalink Team. *Pediatrics*. 1997 Jun;99(6):765-73.
- Chen YH, Chen C. Testing superiority at interim analyses in a non-inferiority trial. *Stat Med*. 2012;31(15):1531-42.
- Chitnis AS, Aparasu RR, Chen H, Johnson ML. Comparative effectiveness of different angiotensin-converting enzyme inhibitors on the risk of hospitalization in patients with heart failure. *J Comp Eff Res.* 2012;1(2):195-206.
- Choudhry NK, Shrank WH. Implementing randomized effectiveness trials in large insurance systems. *J Clin Epidemiol*. 2013;66(8 Suppl):S5-11.
- Chubak J, Rutter CM, Kamineni A, Johnson EA, Stout NK, Weiss NS, et al. Measurement in comparative effectiveness research. *Am J Prev Med*. 2013;44(5):513-9.
- Chute CG, Beck SA, Fisk TB, Mohr DN. The Enterprise Data Trust at MayoClinic: a semantically integrated warehouse of biomedical data. *J Am Med Inform Assoc*. 2010 Mar-Apr;17(2):131-5.
- Chute CG, Elkin PL, Sherertz DD, Tuttle MS. Desiderata for a clinical terminology server. *Proc AMIA Symp*. 1999:42-6.
- Chute CG, Hart LA, Alexander AK, Jensen DW. The Southeastern Minnesota Beacon Project for Community-driven Health Information Technology: Origins, Achievements, and Legacy. *eGEMs*. 2014;2(3):1101.
- Chute CG. Clinical classification and terminology: some history and current observations. *J Am Med Inform Assoc*. 2000 May-Jun;7(3):298-303.

- Chute CG. The horizontal and vertical nature of patient phenotype retrieval: new directions for clinical text processing. *Proc AMIA Symp.* 2002:165-9.
- Chute, C. G., Yang, Y., & Evans, D. A. (1991). Latent Semantic Indexing of medical diagnoses using UMLS semantic structures. *Proc Annu Symp Comput Appl Med Care*, 185-189.
- Cimino JJ. Terminology tools: state of the art and practical lessons. *Methods Inf Med*. 2001;40(4):298-306.
- Cipriani A, Higgins JP, Geddes JR, Salanti G. Conceptual and technical challenges in network metaanalysis. *Ann Intern Med*. 2013;159(2):130-7.
- Clark C, Good K, Jezierny L, Macpherson M, Wilson B, Chajewska U. Identifying smokers with a medical extraction system. *J Am Med Inform Assoc.* 2008 Jan-Feb;15(1):36-9.
- Conn VS, Ruppar TM, Phillips LJ, Chase JA. Using meta-analyses for comparative effectiveness research. *Nurs Outlook*. 2012;60(4):182-90.
- Connor JT, Elm JJ, Broglio KR. Bayesian adaptive trials offer advantages in comparative effectiveness trials: an example in status epilepticus. *J Clin Epidemiol*. 2013;66(8 Suppl):S130-7.
- Connor JT, Luce BR, Broglio KR, Ishak KJ, Mullins CD, Vanness DJ, et al. Do Bayesian adaptive trials offer advantages for comparative effectiveness research? Protocol for the RE-ADAPT study. *Clin Trials*. 2013;10(5):807-27.
- Corn, M, Rudzinski, KA, Cahn, MA. Bridging the gap in medical informatics and health services research: workshop results and next steps. *J Am Med Inform Assoc*. 2002;9(2): 140-3.
- Cox E, Martin BC, Van Staa T, Garbe E, Siebert U, Johnson ML. Good research practices for comparative effectiveness research: approaches to mitigate bias and confounding in the design of nonrandomized studies of treatment effects using secondary data sources: the International Society for Pharmacoeconomics and Outcomes Research Good Research Practices for Retrospective Database Analysis Task Force Report--Part II. *Value Health*. 2009 Nov-Dec;12(8):1053-61.
- Coyne KS, Margolis MK, Murphy J, Spies J. Validation of the UFS-QOL-hysterectomy questionnaire: modifying an existing measure for comparative effectiveness research. *Value Health*. 2012;15(5):674-9.
- Crews DC, Greer RC, Fadrowski JJ, Choi MJ, Doggett D, Segal JB, et al. Setting an agenda for comparative effectiveness systematic reviews in CKD care. *BMC nephrology*. 2012;13:74.
- Curro FA, Grill AC, Thompson VP, Craig RG, Vena D, Keenan AV, et al. Advantages of the dental practice-based research network initiative and its role in dental education. *J Dent Educ*. 2011;75(8):1053-60.
- Curro FA, Robbins DA, Millenson ML, Fox CH, Naftolin F. Person-centric clinical trials: an opportunity for the good clinical practice (GCP)-practice-based research network. *J Clin Pharmacol*. 2013;53(10):1091-4.
- Curro FA, Thompson VP, Grill A, Vena D, Terracio L, Naftolin F. Practice based research networks impacting periodontal care: PEARL Initiative. *J Periodontal*. 2013;84(5):567-71.
- Curro FA, Vena D, Naftolin F, Terracio L, Thompson VP. The PBRN initiative: transforming new technologies to improve patient care. *J Dent Res.* 2012;91(7 Suppl):12s-20s.
- Curtis JR, Wright NC, Xie F, Chen L, Zhang J, Saag KG, et al. Use of health plan combined with registry data to predict clinical trial recruitment. *Clin Trials*. 2014;11(1):96-101.
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Danaei G, Rodriguez LA, Cantero OF, Logan R, Hernan MA. Observational data for comparative effectiveness research: an emulation of randomised trials of statins and primary prevention of coronary heart disease. *Stat Methods Med Res.* 2013;22(1):70-96.
- Danaei G, Tavakkoli M, Hernan MA. Bias in observational studies of prevalent users: lessons for comparative effectiveness research from a meta-analysis of statins. *Am J Epidemiol*. 2012;175(4):250-62.
- Danforth KN, Patnode CD, Kapka TJ, Butler MG, Collins B, Compton-Phillips A, et al. Comparative effectiveness topics from a large, integrated delivery system. *Perm J*. 2013;17(4):4-13.
- Danforth KN, Smith AE, Loo RK, Jacobsen SJ, Mittman BS, Kanter MH. Electronic Clinical Surveillance to Improve Outpatient Care: Diverse Applications within an Integrated Delivery System. *eGEMs*. 2014;2(1):1056.
- D'Arcy LP, Rich EC. From comparative effectiveness research to patient-centered outcomes research: policy history and future directions. *Neurosurgical focus*. 2012;33(1):E7.
- D'Avolio LW, Bui AA. The Clinical Outcomes Assessment Toolkit: a framework to support automated clinical records-based outcomes assessment and performance measurement research. *J Am Med Inform Assoc*. 2008 May-Jun;15(3):333-40.
- D'Avolio LW, Farwell WR, Fiore LD. Comparative effectiveness research and medical informatics. *Am J Med*. 2010 Dec;123(12 Suppl 1):e32-7.
- D'Avolio LW. Electronic medical records at a crossroads: impetus for change or missed opportunity? *JAMA*. 2009 Sep 9;302(10):1109-11.
- de Lusignan S, van Weel C. The use of routinely collected computer data for research in primary care: opportunities and challenges. *Fam Pract*. 2006 Apr;23(2):253-63.
- Deitzer JR, Payne PR, Starren JB. Coverage of clinical trials in existing ontologies. *AMIA Annu Symp Proc.* 2006; 903.
- Demner-Fushman D, Chapman WW, McDonald CJ. What can natural language processing do for clinical decision support? *J Biomed Inform*. 2009 Oct;42(5):760-72.
- Des Jardins TR. The Keys to Governance and Stakeholder Engagement: The Southeast Michigan Beacon Community Case Study. *eGEMs*. 2014 Jul 21; 2(3): 1068.
- Desai JR, Wu P, Nichols GA, Lieu TA, O'Connor PJ. Diabetes and asthma case identification, validation, and representativeness when using electronic health data to construct registries for comparative effectiveness and epidemiologic research. *Med Care*. 2012 Jul;50 Suppl:S30-5.
- Deshmukh VG, Meystre SM, Mitchell JA. Evaluating the informatics for integrating biology and the bedside system for clinical research. BMC Med Res Methodol. 2009 Oct 28;9:70.
- Deutscher D, Hart DL, Stratford PW, Dickstein R. Construct validation of a knee-specific functional status measure: a comparative study between the United States and Israel. *Physical therapy*. 2011;91(7):1072-84.
- Devine EB, Alfonso-Cristancho R, Devlin A, Edwards TC, Farrokhi ET, Kessler L, et al. A model for incorporating patient and stakeholder voices in a learning health care network: Washington State's Comparative Effectiveness Research Translation Network. *J Clin Epidemiol*. 2013;66(8 Suppl):S122-9.

- Devine EB, Capurro D, Van Eaton E, Alfonso-Cristancho R, Devlin A, Yanez ND, et al. Preparing Electronic Clinical Data for Quality Improvement and Comparative Effectiveness Research: The SCOAP CERTAIN Automation and Validation Project. *eGEMs*. 2013 Sep 10; 1(1): 1025.*
- Dewitt EM, Li Y, Curtis JR, Glick HA, Greenberg JD, Anstrom KJ, et al. Comparative effectiveness of nonbiologic versus biologic disease-modifying antirheumatic drugs for rheumatoid arthritis. *J Rheumatol*. 2013;40(2):127-36.
- DeWitt EM, Brunner HI. The landscape of comparative effectiveness research in rheumatology. *Nat Rev Rheumatol*. 2014 Jan;10(1):57-62.
- Diamond CC, Mostashari F, Shirky C. Collecting and sharing data for population health: a new paradigm. Health Aff (Millwood). 2009 Mar-Apr;28(2):454-66.
- Dokholyan RS, Muhlbaier LH, Falletta JM, Jacobs JP, Shahian D, Haan CK, Peterson ED. Regulatory and ethical considerations for linking clinical and administrative databases. *Am Heart J.* 2009 Jun;157(6):971-82.
- Domino ME, Beadles CA, Lichstein JC, Farley JF, Morrissey JP, Ellis AR, Dubard CA. Heterogeneity in the quality of care for patients with multiple chronic conditions by psychiatric comorbidity. *Med Care*. 2014 Mar;52 Suppl 3:S101-9.*
- Dore DD, Swaminathan S, Gutman R, Trivedi AN, Mor V. Different analyses estimate different parameters of the effect of erythropoietin stimulating agents on survival in end stage renal disease: a comparison of payment policy analysis, instrumental variables, and multiple imputation of potential outcomes. *J Clin Epidemiol*. 2013;66(8 Suppl):S42-50.
- Dorrance KA, Ramchandani S, Neil N, Fisher H. Leveraging the military health system as a laboratory for health care reform. *Military medicine*. 2013;178(2):142-5.
- Duan N, Kravitz RL, Schmid CH. Single-patient (n-of-1) trials: a pragmatic clinical decision methodology for patient-centered comparative effectiveness research. *J Clin Epidemiol*. 2013;66(8 Suppl):S21-8.
- Dubois RW, Graff JS. Setting priorities for comparative effectiveness research: from assessing public health benefits to being open with the public. *Health Aff (Millwood)*. 2011;30(12):2235-42.
- Dudeja V, Habermann EB, Zhong W, Tuttle TM, Vickers SM, Jensen EH, et al. Guideline recommended gastric cancer care in the elderly: insights into the applicability of cancer trials to real world. *Ann Surg Oncol*. 2011 Jan;18(1):26-33.
- Dullabh PM, Sondheimer NK, Katsh E, Evans MA. How patients can improve the accuracy of their medical records. *eGEMs*. 2014;2(3):1080.
- Dunn AG, Bourgeois FT, Murthy S, Mandl KD, Day RO, Coiera E. The role and impact of research agendas on the comparative-effectiveness research among antihyperlipidemics. *Clin Pharmacol Ther*. 2012;91(4):685-91.
- Dusetzina SB, Mack CD, Sturmer T. Propensity score estimation to address calendar time-specific channeling in comparative effectiveness research of second generation antipsychotics. *PLoS One*. 2013;8(5):e63973.
- Dutton RP. The National Anesthesia Clinical Outcomes Registry: A Sustainable Model for the Information Age? *eGEMs*. 2014 Aug 27; 2(2): 1070.

- Egan BM, Laken MA, Shaun Wagner C, Mack SS, Seymour-Edwards K, Dodson J, et al. Impacting population cardiovascular health through a community-based practice network: update on an ASH-supported collaborative. *J Clin Hypertens*. 2011;13(8):543-50.
- Egginton JS, Ridgeway JL, Shah ND, Balasubramaniam S, Emmanuel JR, Prokop LJ, et al. Care management for Type 2 diabetes in the United States: a systematic review and meta-analysis. *BMC Health Serv Res*. 2012;12:72.
- Eisen S, Francis J. Transformation of VHA health data into clinically useful information to provide quality veteran care. *J Rehabil Res Dev.* 2010;47(8):xiii-xv.
- El Emam K, Jabbouri S, Sams S, Drouet Y, Power M. Evaluating common de-identification heuristics for personal health information. *J Med Internet Res.* 2006 Nov 21;8(4):e28.
- El-Ghatta SB, Cladé T, Snyder JC. Integrating clinical trial imaging data resources using service-oriented architecture and grid computing. *Neuroinformatics*. 2010.
- Elkin PL, Mohr DN, Tuttle MS, Cole WG, Atkin GE, Keck K, Fisk TB, Kaihoi BH, Lee KE, Higgins MC, Suermondt HJ, Olson N, Claus PL, Carpenter PC, Chute CG. Standardized problem list generation, utilizing the Mayo canonical vocabulary embedded within the Unified Medical Language System. *Proc AMIA Annu Fall Symp*. 1997:500-4.
- Elkins JS, Friedman C, Boden-Albala B, Sacco RL, Hripcsak G. Coding neuroradiology reports for the Northern Manhattan Stroke Study: a comparison of natural language processing and manual review. *Comput Biomed Res.* 2000 Feb;33(1):1-10.
- Elliott TE, Holmes JH, Davidson AJ, La Chance PA, Nelson AF, Steiner JF. Data Warehouse governance programs in healthcare settings: a literature review and a call to action. *eGEMs*. 2013 Oct 8; 1(1): 1010.
- Embi PJ, Hebert C, Gordillo G, Kelleher K, Payne PR. Knowledge management and informatics considerations for comparative effectiveness research: a case-driven exploration. *Med Care*. 2013 Aug;51(8 Suppl 3):S38-44
- Embi PJ, Payne PR. Clinical research informatics: challenges, opportunities and definition for an emerging domain. *J Am Med Inform Assoc.* 2009 May-Jun;16(3):316-27.
- Erdem E, Concannon TW. What do researchers say about proposed Medicare claims public use files? *J Comp Eff Res.* 2012;1(6):519-25.
- Erder MH, Signorovitch JE, Setyawan J, Yang H, Parikh K, Betts KA, et al. Identifying patient subgroups who benefit most from a treatment: using administrative claims data to uncover treatment heterogeneity. *J Med Econ*. 2012;15(6):1078-87.
- Etheredge LM. Creating a high-performance system for comparative effectiveness research. *Health Aff* (Millwood). 2010 Oct;29(10):1761-7.
- Faden R, Kass N, Whicher D, Stewart W, Tunis S. Ethics and informed consent for comparative effectiveness research with prospective electronic clinical data. *Med Care*. 2013;51(8 Suppl 3):S53-7.
- Fairbrother G, Trudnak T, Griffith K. Medicaid Medical Directors Quality Improvement Studies: A Case Study of Evolving Methods for a Research Network. *eGEMs*. 2014 Apr 9; 2(1) 1054.
- Fang G, Brooks JM, Chrischilles EA. Comparison of instrumental variable analysis using a new instrument with risk adjustment methods to reduce confounding by indication. *Am J Epidemiol*. 2012;175(11):1142-51.
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Farkas R, Szarvas G, Hegedus I, Almási A, Vincze V, Ormándi R, Busa-Fekete R. Semi-automated construction of decision rules to predict morbidities from clinical texts. *J Am Med Inform Assoc*. 2009 Jul-Aug;16(4):601-5.
- Fefferman NH, O'Neil EA, Naumova EN. Confidentiality and confidence: is data aggregation a means to achieve both? *J Public Health Policy*. 2005 Dec;26(4):430-49.
- Fenton JJ, Abraham L, Taplin SH, Geller BM, Carney PA, D'Orsi C, Elmore JG, Barlow WE; Breast Cancer Surveillance Consortium. Effectiveness of computer-aided detection in community mammography practice. *J Natl Cancer Inst*. 2011 Aug 3;103(15):1152-61.*
- Fiore LD, Brophy M, Ferguson RE, D'Avolio L, Hermos JA, Lew RA, et al. A point-of-care clinical trial comparing insulin administered using a sliding scale versus a weight-based regimen. *Clin Trials*. 2011;8(2):183-95.
- Fisher BT, Harris T, Torp K, Seif AE, Shah A, Huang YS, et al. Establishment of an 11-year cohort of 8733 pediatric patients hospitalized at United States free-standing children's hospitals with de novo acute lymphoblastic leukemia from health care administrative data. *Med Care*. 2014 Jan;52(1):e1-6.
- Fishman PA, Hornbrook MC, Ritzwoller DP, O'Keeffe-Rosetti MC, Lafata JE, Salloum RG. The challenge of conducting comparative effectiveness research in cancer: the impact of a fragmented U.S. health-care system. *J Natl Cancer Inst Monogr.* 2013;2013(46):99-105.
- Fleurence RL, Curtis LH, Califf RM, Platt R, Selby JV, Brown JS. Launching PCORnet, a national patient-centered clinical research network. *J Am Med Inform Assoc.* 2014;21(4):578-82.
- Flory J, Karlawish J. The prompted optional randomization trial: a new design for comparative effectiveness research. *Am J Public Health*. 2012;102(12):e8-10.
- Flum DR, Alfonso-Cristancho R, Devine EB, Devlin A, Farrokhi E, Tarczy-Hornoch P, et al. Implementation of a "real-world" learning health care system: Washington State's Comparative Effectiveness Research Translation Network (CERTAIN). *Surgery*. 2014;155(5):860-6.
- Forrest CB, Crandall WV, Bailey LC, Zhang P, Joffe MM, Colletti RB, et al. Effectiveness of anti-TNFa for Crohn disease: research in a pediatric learning health system. *Pediatrics*. 2014 Jul;134(1):37-44.*
- Fox B. Closing the information gap: informing better medical decisionmaking through the use of post-market safety and comparative effectiveness information. *Food Drug Law J.* 2012;67(1):83-101, iii.
- Frame A, LaMantia M, Reddy Bynagari BB, Dexter P, Boustani M. Development and Implementation of an Electronic Decision Support to Manage the Health of a High-Risk Population: The enhanced Electronic Medical Record Aging Brain Care Software (eMR-ABC). eGEMs. 2013 Mar 11; 1(1): 1009.
- Fridsma DB, Evans J, Hastak S, Mead CN.The BRIDG project: a technical report. *J Am Med Inform Assoc.* 2008; 15:130-7.
- Friedlin J, Grannis S, Overhage JM. Using natural language processing to improve accuracy of automated notifiable disease reporting. *AMIA Annu Symp Proc.* 2008 Nov 6:207-11.
- Friedman C, Shagina L, Lussier Y, Hripcsak G. Automated encoding of clinical documents based on natural language processing. *J Am Med Inform Assoc.* 2004 Sep-Oct;11(5):392-402.
- Fu R, Gartlehner G, Grant M, Shamliyan T, Sedrakyan A, Wilt TJ, et al. Conducting quantitative synthesis when comparing medical interventions: AHRQ and the Effective Health Care Program. *J Clin Epidemiol*. 2011;64(11):1187-97.

- Fu WB, Xu XH, Liang ZH, Dong JY, Bo ZY, Li ZP. Application exploration of comparative effectiveness research in clinical efficacy optimization of abdominal acupuncture. *Zhongguo Zhen Jiu*. 2013 Sep;33(9):840-2.
- Fung V, Brand RJ, Newhouse JP, Hsu J. Using medicare data for comparative effectiveness research: opportunities and challenges. *Am J Manag Care*. 2011;17(7):488-96.
- Furukawa TA, Onishi Y, Hinotsu S, Tajika A, Takeshima N, Shinohara K, et al. Prescription patterns following first-line new generation antidepressants for depression in Japan: a naturalistic cohort study based on a large claims database. *J Affect Disord.* 2013;150(3):916-22.
- Gagne JJ, Bykov K, Willke RJ, Kahler KH, Subedi P, Schneeweiss S. Treatment dynamics of newly marketed drugs and implications for comparative effectiveness research. *Value Health*. 2013;16(6):1054-62.
- Garabedian LF, Chu P, Toh S, Zaslavsky AM, Soumerai SB. Potential bias of instrumental variable analyses for observational comparative effectiveness research. *Ann Intern Med*. 2014;161(2):131-8.
- Garbe E, Kloss S, Suling M, Pigeot I, Schneeweiss S. High-dimensional versus conventional propensity scores in a comparative effectiveness study of coxibs and reduced upper gastrointestinal complications. *Eur J Clin Pharmacol*. 2013 Mar;69(3):549-57.*
- Geocadin RG, Bleck TP, Koroshetz WJ, Robertson CS, Zaidat OO, LeRoux PD, et al. Research priorities in neurocritical care. *Neurocritical care*. 2012;16(1):35-41.
- Gierisch JM, Myers ER, Schmit KM, McCrory DC, Coeytaux RR, Crowley MJ, et al. Prioritization of patient-centered comparative effectiveness research for osteoarthritis. *Ann Intern Med*. 2014;160(12):836-41.
- Ginsburg GS, Kuderer NM. Comparative effectiveness research, genomics-enabled personalized medicine, and rapid learning health care: a common bond. *J Clin Oncol*. 2012;30(34):4233-42.
- Ginsburg GS, Staples J, Abernethy AP. Academic medical centers: ripe for rapid-learning personalized health care. *Sci Transl Med*. 2011;3(101):101cm27.
- Gionfriddo MR, Leppin AL, Brito JP, Leblanc A, Shah ND, Montori VM. Shared decision-making and comparative effectiveness research for patients with chronic conditions: an urgent synergy for better health. *J Comp Eff Res*. 2013;2(6):595-603.
- Girman CJ, Gokhale M, Kou TD, Brodovicz KG, Wyss R, Sturmer T. Assessing the impact of propensity score estimation and implementation on covariate balance and confounding control within and across important subgroups in comparative effectiveness research. *Med Care*. 2014;52(3):280-7.
- Glassman A, Giedion U, McQueston K. Priority setting for health in emerging markets. *J Comp Eff Res*. 2013;2(3):283-91.
- Gliklich RE, Leavy MB, Velentgas P, Dreyer NA, Tunis SR, Mohr P, et al. Incorporating stakeholder perspectives in developing a translation table framework for comparative effectiveness research. *J Comp Eff Res.* 2012;1(3):281-92.
- Glynn RJ, Gagne JJ, Schneeweiss S. Role of disease risk scores in comparative effectiveness research with emerging therapies. *Pharmacoepidemiol Drug Saf.* 2012;21 Suppl 2:138-47.
- Goldin GH, Sheets NC, Meyer AM, Kuo TM, Wu Y, Sturmer T, et al. Comparative effectiveness of intensity-modulated radiotherapy and conventional conformal radiotherapy in the treatment of prostate cancer after radical prostatectomy. *JAMA internal medicine*. 2013;173(12):1136-43.
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Goldstein MM. Health information technology and the idea of informed consent. *J Law Med Ethics*. 2010 Spring;38(1):27-35.
- Goodman SN. Quasi-random reflections on randomized controlled trials and comparative effectiveness research. *Clin Trials*. 2012;9(1):22-6.
- Goryachev S, Kim H, Zeng-Treitler Q. Identification and extraction of family history information from clinical reports. *AMIA Annu Symp Proc.* 2008 Nov 6:247-51.
- Goss CH, Tefft N. Comparative effectiveness research what is it and how does one do it? *Paediatr Respir Rev.* 2013;14(3):152-6.
- Goulart BH, Ramsey SD, Parvathaneni U. Observational study designs for comparative effectiveness research: an alternative approach to close evidence gaps in head-and-neck cancer. *Int J Radiat Oncol Biol Phys.* 2014;88(1):106-14.
- Gouripeddi R, Warner PB, Mo P, Levin JE, Srivastava R, Shah SS, et al. Federating clinical data from six pediatric hospitals: process and initial results for microbiology from the PHIS+ consortium. *AMIA Annu Symp Proc.* 2012;2012:281-90.
- Grann VR, Patel PR, Jacobson JS, Warner E, Heitjan DF, Ashby-Thompson M, et al. Comparative effectiveness of screening and prevention strategies among BRCA1/2-affected mutation carriers. *Breast Cancer Res Treat*. 2011 Feb;125(3):837-47
- Grant A, Moshyk A, Diab H, Caron P, de Lorenzi F, Bisson G, Menard L, Lefebvre R, Gauthier P, Grondin R, Desautels M. Integrating feedback from a clinical data warehouse into practice organisation. *Int J Med Inform*. 2006 Mar-Apr;75(3-4):232-9.
- Greenberg CC, Wind JK, Chang GJ, Chen RC, Schrag D. Stakeholder engagement for comparative effectiveness research in cancer care: experience of the DEcIDE Cancer Consortium. *J Comp Eff Res*. 2013 Mar;2(2):117-25.
- Greenfield S, Kaplan SH. Building useful evidence: changing the clinical research paradigm to account for comparative effectiveness research. *J Comp Eff Res.* 2012;1(3):263-70.
- Grewal S, Vetter J, Brandes SB, Strope SA. A Population-based Analysis of Contemporary Rates of Reoperation for Penile Prosthesis Procedures. *Urology*. 2014 Jul;84(1):112-6.*
- Griffin JP, Godfrey BM, Sherman RE. Regulatory requirements of the Food and Drug Administration would preclude product claims based on observational research. *Health Aff (Millwood)*. 2012;31(10):2188-92.
- Guise JM, Viswanathan M. Overview of best practices in conducting comparative-effectiveness reviews. *Clin Pharmacol Ther*. 2011;90(6):876-82.
- Gupta S, Pole JD, Guttmann A, Sung L. Validation of a registry-derived risk algorithm based on treatment protocol as a proxy for disease risk in childhood acute lymphoblastic leukemia. *BMC Med Res Methodol.* 2013;13:68.
- Gutteridge DL, Genes N, Hwang U, Kaplan B, Shapiro JS. Enhancing a geriatric emergency department care coordination intervention using automated health information exchange-based clinical event notifications. *eGEMs*. 2014;2(3):1095.
- Hahn OM, Schilsky RL. Randomized controlled trials and comparative effectiveness research. *J Clin Oncol.* 2012;30(34):4194-201.

- Hakkarainen TW, Dellinger EP, Evans HL, Farjah F, Farrokhi E, Steele SR, et al. Comparative effectiveness of skin antiseptic agents in reducing surgical site infections: a report from the Washington State Surgical Care and Outcomes Assessment Program. J Am Coll Surg. 2014 Mar;218(3):336-44.
- Hakkarainen TW, Steele SR, Bastaworous A, Dellinger EP, Farrokhi E, Farjah F, et al. Nonsteroidal antiinflammatory drugs and the risk for anastomotic failure: a report from Washington State's Surgical Care and Outcomes Assessment Program (SCOAP). *JAMA Surg*. 2015 Mar 1;150(3):223-8*
- Hammermeister K, Bronsert M, Henderson WG, Coombs L, Hosokawa P, Brandt E, Bryan C, Valuck R, West D, Liaw W, Ho M, Pace W. Risk-adjusted comparison of blood pressure and low-density lipoprotein (LDL) noncontrol in primary care offices. *J Am Board Fam Med*. 2013 Nov-Dec;26(6):658-68.*
- Harris PA, Taylor R, Thielke R, Payne J, Gonzalez N, Conde JG. Research electronic data capture (REDCap)--a metadata-driven methodology and workflow process for providing translational research informatics support. *J Biomed Inform*. 2009 Apr;42(2):377-81.
- Harrold L, Pascal S, Lewis C, O'Keefe R, Pellegrini V, Allison J, et al. Patient report improves posthospital discharge event capture in total joint replacement: a novel approach to capturing all posthospital event data. *eGEMs*. 2014;2(1):1107.
- Hartsfield JA, Hetherington J. The Affordable Care Act and the Triple Solution for a Healthier America. *N C Med J.* 2011;72(1):75-7.
- Hartung DM, Guise JM, Fagnan LJ, Davis MM, Stange KC. Role of practice-based research networks in comparative effectiveness research. *J Comp Eff Res.* 2012 Jan;1(1):45-55.
- Harvey JA, Gard CC, Miglioretti DL, Yankaskas BC, Kerlikowske K, Buist DS, Geller BA, Onega TL; Breast Cancer Surveillance Consortium. Reported mammographic density: film-screen versus digital acquisition. Radiology. 2013 Mar;266(3):752-8.*
- Hastings S, Oster S, Langella S, Melean C, Borlawsky T, Dhavel R, Payne P. Adoption and Adaptation of caGrid for CTSA. *Summit on Translat Bioinforma*. 2009 Mar 1;2009:44-8.
- Hazlehurst B, Frost HR, Sittig DF, Stevens VJ. MediClass: A system for detecting and classifying encounter-based clinical events in any electronic medical record. *J Am Med Inform Assoc*. 2005 Sep-Oct;12(5):517-29.
- Hazlehurst B, Naleway A, Mullooly J. Detecting possible vaccine adverse events in clinical notes of the electronic medical record. *Vaccine*. 2009 Mar 23;27(14):2077-83.
- Hazlehurst B, Sittig DF, Stevens VJ, Smith KS, Hollis JF, Vogt TM, Winickoff JP, Glasgow R, Palen TE, Rigotti NA. Natural language processing in the electronic medical record: assessing clinician adherence to tobacco treatment guidelines. *Am J Prev Med*. 2005 Dec;29(5):434-9.
- Heider AR, Maloney NA, Satchidanand N, Allen GM, Mueller R, Gangloff S, et al. Developing a communitywide electronic health record disease registry in primary care practices: lessons learned from the Western new york beacon community. *eGEMs*. 2014;2(3):1089.
- Hennessy S. When should we believe nonrandomized studies of comparative effectiveness? *Clin Pharmacol Ther*. 2011;90(6):764-6.
- Hernan MA, Hernandez-Diaz S. Beyond the intention-to-treat in comparative effectiveness research. *Clin Trials.* 2012;9(1):48-55.

- Hersh WR, Cimino J, Payne PR, Embi P, Logan J, Weiner M, et al. Recommendations for the use of operational electronic health record data in comparative effectiveness research. *eGEMs*. 2013;1(1):1018.
- Hersh WR, Weiner MG, Embi PJ, Logan JR, Payne PR, Bernstam EV, et al. Caveats for the use of operational electronic health record data in comparative effectiveness research. *Med Care*. 2013;51(8 Suppl 3):S30-7.
- Hershman DL, Wright JD. Comparative effectiveness research in oncology methodology: observational data. *J Clin Oncol*. 2012 Dec 1;30(34):4215-22.
- Herskovic JR, Subramanian D, Cohen T, Bozzo-Silva PA, Bearden CF, Bernstam EV. Graph-based signal integration for high-throughput phenotyping. *BMC Bioinformatics*. 2012;13 Suppl 13:S2.
- Higgins AY, Doubeni AR, Phillips KL, Laiyemo AO, Briesacher B, Tjia J, Doubeni CA. Self-reported colorectal cancer screening of Medicare beneficiaries in family medicine vs. internal medicine practices in the United States: a cross-sectional study. *BMC Gastroenterol*. 2012 Mar 21;12:23.*
- Himes BE, Dai Y, Kohane IS, Weiss ST, Ramoni MF. Prediction of chronic obstructive pulmonary disease (COPD) in asthma patients using electronic medical records. *J Am Med Inform Assoc*. 2009 May-Jun;16(3):371-9.
- Hirsch BR, Giffin RB, Esmail LC, Tunis SR, Abernethy AP, Murphy SB. Implementation of a "real-world" learning health care system: Washington State's Comparative Effectiveness Research Translation Network (CERTAIN). *Cancer J.* 2011 Jul-Aug;17(4):235-8.
- Hirsch BR, Zafar SY. Comparative effectiveness research: moving medical oncology forward. *Semin Radiat Oncol*. 2014 Jan;24(1):49-53
- Hlatky MA, Douglas PS, Cook NL, Wells B, Benjamin EJ, Dickersin K, et al. Future directions for cardiovascular disease comparative effectiveness research: report of a workshop sponsored by the National Heart, Lung, and Blood Institute. *J Am Coll Cardiol*. 2012;60(7):569-80.
- Hlatky MA, Winkelmayer WC, Setoguchi S. Epidemiologic and statistical methods for comparative effectiveness research. *Heart Fail Clin*. 2013;9(1):29-36.
- Hoch JS, Hodgson DC, Earle CC. Role of comparative effectiveness research in cancer funding decisions in Ontario, Canada. *J Clin Oncol*. 2012;30(34):4262-6.
- Hoffman RM, Penson DF, Zietman AL, Barry MJ. Comparative effectiveness research in localized prostate cancer treatment. *J Comp Eff Res.* 2013;2(6):583-93.
- Hoffman S, Podgurski A. Improving health care outcomes through personalized comparisons of treatment effectiveness based on electronic health records. *J Law Med Ethics*. 2011;39(3):425-36.
- Hok J, Lewith G, Weidenhammer W, Santos-Rey K, Fonnebo V, Wiesener S, et al. International development of traditional medicine / complementary and alternative medicine research--what can Europe learn? *Forsch Komplementmed*. 2012;19 Suppl 2:44-50.
- Holve E, Calonge N. Lessons from the Electronic Data Methods Forum: collaboration at the frontier of comparative effectiveness research, patient-centered outcomes research, and quality improvement. *Med Care*. 2013;51(8 Suppl 3):S1-3.
- Holve E, Lopez MH, Scott L, Segal C. A tall order on a tight timeframe: stakeholder perspectives on comparative effectiveness research using electronic clinical data. *J Comp Eff Res.* 2012;1(5):441-51.
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Holve E, Segal C, Hamilton Lopez M. Opportunities and challenges for comparative effectiveness research (CER) with Electronic Clinical Data: a perspective from the EDM forum. *Med Care*. 2012;50 Suppl:S11-8.
- Holve E, Segal C, Lopez MH, Rein A, Johnson BH. The Electronic Data Methods (EDM) forum for comparative effectiveness research (CER). *Med Care*. 2012 Jul;50 Suppl:S7-10.
- Holve E. eGEMs' Early Adventures in Open Access Publishing. eGEMs. 2014;2(1):1157.
- Holve E. eGEMs: Pragmatic Publishing to Build a Learning Health System. *eGEMs*. 2012 Dec 20; 1(1): 1001.
- Holve E. Ensuring Support for Research and Quality Improvement (QI) Networks: Four Pillars of Sustainability-An Emerging Framework. *eGEMs*. 2013;1(1):1005.
- Honigman B, Lee J, Rothschild J, Light P, Pulling RM, Yu T, Bates DW. Using computerized data to identify adverse drug events in outpatients. *J Am Med Inform Assoc*. 2001 May-Jun;8(3):254-66.
- Horn SD, DeJong G, Deutscher D. Practice-based evidence research in rehabilitation: an alternative to randomized controlled trials and traditional observational studies. *Arch Phys Med Rehabil*. 2012;93(8 Suppl):S127-37.
- Horvath MM, Winfield S, Evans S, Slopek S, Shang H, Ferranti J. The DEDUCE Guided Query tool: providing simplified access to clinical data for research and quality improvement. *J Biomed Inform*. 2011;44(2):266-76.
- Howard DH, Kenline C, Lazarus HM, Lemaistre CF, Maziarz RT, McCarthy PL, Jr., et al. Abandonment of high-dose chemotherapy/hematopoietic cell transplants for breast cancer following negative trial results. *Health Serv Res.* 2011;46(6pt1):1762-77.
- Hsiao FY, Mullins CD, Onukwugha E, Pandya N, Hanna N. Comparative effectiveness of different chemotherapeutic regimens on survival of people aged 66 and older with stage III colon cancer: a "real world" analysis using Surveillance, Epidemiology, and End Results-Medicare data. *J Am Geriatr Soc.* 2011;59(9):1717-23.
- Hubbard RA, Zhu W, Onega TL, Fishman P, Henderson LM, Tosteson AN, et al. Effects of digital mammography uptake on downstream breast-related care among older women. *Med Care*. 2012;50(12):1053-9.
- Hueng DY, Tsai CL, Hsu SW, Ma HI. Publication patterns of comparative effectiveness research in spine neurosurgery. *Neurosurgical focus*. 2012;33(1):E9.
- Hughes GB. Evidence-based medicine in health care reform. *Otolaryngol Head Neck Surg.* 2011 Oct;145(4):526-9.
- Hynes DM, Perrin RA, Rappaport S, Stevens JM, Demakis JG. Informatics resources to support health care quality improvement in the veterans health administration. *J Am Med Inform Assoc.* 2004 Sep-Oct;11(5):344-50.
- Jackson RS, Chang DC, Freischlag JA. Comparison of long-term survival after open vs endovascular repair of intact abdominal aortic aneurysm among Medicare beneficiaries. *JAMA*. 2012 Apr 18;307(15):1621-8.*
- Jasuja GK, Reisman JI, Miller DR, Berlowitz DR, Hylek EM, Ash AS, et al. Identifying major hemorrhage with automated data: results of the Veterans Affairs study to improve anticoagulation (VARIA). *Thromb Res.* 2013 Jan;131(1):31-6
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Jiang G, Solbrig HR, Iberson-Hurst D, Kush RD, Chute CG. A Collaborative Framework for Representation and Harmonization of Clinical Study Data Elements Using Semantic MediaWiki. *AMIA Summits Transl Sci Proc.* 2010 Mar 1;2010:11-5.
- Jiang X, Sarwate AD, Ohno-Machado L. Privacy technology to support data sharing for comparative effectiveness research: a systematic review. *Med Care*. 2013 Aug;51(8 Suppl 3):S58-65.
- Johnson ES, Bartman BA, Briesacher BA, Fleming NS, Gerhard T, Kornegay CJ, et al. The incident user design in comparative effectiveness research. *Pharmacoepidemiol Drug Saf*. 2013;22(1):1-6.
- Johnson KE, Kamineni A, Fuller S, Olmstead D, Wernli KJ. How the provenance of electronic health record data matters for research: a case example using system mapping. *eGEMs*. 2014;2(1):1058.
- Johnson ML, Crown W, Martin BC, Dormuth CR, Siebert U. Good research practices for comparative effectiveness research: analytic methods to improve causal inference from nonrandomized studies of treatment effects using secondary data sources: the ISPOR Good Research Practices for Retrospective Database Analysis Task Force Report--Part III. *Value Health*. 2009 Nov-Dec;12(8):1062-73.
- Johnson RL, Cannon EK, Mantilla CB, Cook DA. Cricoid pressure training using simulation: a systematic review and meta-analysis. *Br J Anaesth*. 2013;111(3):338-46.
- Kahn MG, Batson D, Schilling LM. Data model considerations for clinical effectiveness researchers. *Med Care*. 2012;50 Suppl:S60-7.
- Kane JM, Kishimoto T, Correll CU. Assessing the comparative effectiveness of long-acting injectable vs. oral antipsychotic medications in the prevention of relapse provides a case study in comparative effectiveness research in psychiatry. *J Clin Epidemiol*. 2013;66(8 Suppl):S37-41.
- Kanger C, Brown L, Mukherjee S, Xin H, Diana ML, Khurshid A. Evaluating the Reliability of EHR-Generated Clinical Outcomes Reports: A Case Study. *eGEMs*. 2014;2(3):1102.
- Kaplan C, Zhang Y. Assessing the comparative-effectiveness of antidepressants commonly prescribed for depression in the US Medicare population. *J Ment Health Policy Econ*. 2012;15(4):171-8.
- Kaushal R, Barron Y, Abramson EL. The comparative effectiveness of 2 electronic prescribing systems. Am J Manag Care. 2011;17(12 Spec No.):Sp88-94.
- Ke C, Ding B, Jiang Q, Snapinn SM. The issue of multiplicity in noninferiority studies. *Clin Trials*. 2012;9(6):730-5.
- Kenney JT, Jr. Managing the evolving complexity of pharmacologic treatment: comparative effectiveness research, pharmacoeconomic data analyses, and other decision support tools. *Am J Manag Care*. 2012;18(10 Suppl):S234-9.
- Keren R, Luan X, Localio R, Hall M, McLeod L, Dai D, et al. Prioritization of comparative effectiveness research topics in hospital pediatrics. *Arch Pediatr Adolesc Med*. 2012;166(12):1155-64.
- Kerlikowske K, Hubbard RA, Miglioretti DL, Geller BM, Yankaskas BC, Lehman CD, Taplin SH, Sickles EA; Breast Cancer Surveillance Consortium. Comparative effectiveness of digital versus film-screen mammography in community practice in the United States: a cohort study. *Ann Intern Med*. 2011 Oct 18;155(8):493-502.*
- Kesselheim AS, Avorn J. The Food and Drug Administration has the legal basis to restrict promotion of flawed comparative effectiveness research. *Health Aff (Millwood)*. 2012;31(10):2200-5.
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Kharrazi H, Weiner JP. IT-enabled Community Health Interventions: Challenges, Opportunities, and Future Directions. *eGEMs*. 2014;2(3):1117.
- Kho AN, Hynes DM, Goel S, Solomonides AE, Price R, Hota B, et al. CAPriCORN: Chicago Area Patient-Centered Outcomes Research Network. *J Am Med Inform Assoc.* 2014;21(4):607-11.
- Khurshid A, Nauman E, Carton T, Horswell R. Louisiana Clinical Data Research Network: establishing an infrastructure for efficient conduct of clinical research. *J Am Med Inform Assoc.* 2014;21(4):612-4.
- Kim KK, Browe DK, Logan HC, Holm R, Hack L, Ohno-Machado L. Data governance requirements for distributed clinical research networks: triangulating perspectives of diverse stakeholders. *J Am Med Inform Assoc*. 2014;21(4):714-9.
- Kim KK, McGraw D, Mamo L, Ohno-Machado L. Development of a privacy and security policy framework for a multistate comparative effectiveness research network. *Med Care*. 2013 Aug;51(8 Suppl 3):S66-72.
- Kishimoto T, Nitta M, Borenstein M, Kane JM, Correll CU. Long-acting injectable versus oral antipsychotics in schizophrenia: a systematic review and meta-analysis of mirror-image studies. *J Clin Psychiatry*. 2013;74(10):957-65.
- Kleijnen S, George E, Goulden S, d'Andon A, Vitre P, Osinska B, et al. Relative effectiveness assessment of pharmaceuticals: similarities and differences in 29 jurisdictions. *Value Health*. 2012;15(6):954-60.
- Klein G, Gold LS, Sullivan SD, Buist DS, Ramsey S, Kreizenbeck K, et al. Prioritizing comparative effectiveness research for cancer diagnostics using a regional stakeholder approach. *J Comp Eff Res*. 2012;1(3):241-55.
- Koller MT, van Delden C, Muller NJ, Baumann P, Lovis C, Marti HP, et al. Design and methodology of the Swiss Transplant Cohort Study (STCS): a comprehensive prospective nationwide long-term follow-up cohort. *Eur J Epidemiol*. 2013;28(4):347-55.
- Kosty J, Macyszyn L, Lai K, McCroskery J, Park HR, Stein SC. Relating quality of life to Glasgow outcome scale health states. *Journal of neurotrauma*. 2012;29(7):1322-7.
- Kosty JA, Stein SC. Measuring outcome after severe TBI. Neurological research. 2013;35(3):277-84.
- Kramer JR, Arney J, Chen J, Richardson P, Duan Z, Street RL, Jr., et al. Patient-centered, comparative effectiveness of esophageal cancer screening: protocol for a comparative effectiveness research study to inform guidelines for evidence-based approach to screening and surveillance endoscopy. BMC Health Serv Res. 2012;12:288.
- Krings JG, Kallogjeri D, Wineland A, Nepple KG, Piccirillo JF, Getz AE. Complications following primary and revision transsphenoidal surgeries for pituitary tumors. *Laryngoscope*. 2015 Feb;125(2):311-7*
- Krings JG, Kallogjeri D, Wineland A, Nepple KG, Piccirillo JF, Getz AE. Complications of primary and revision functional endoscopic sinus surgery for chronic rhinosinusitis. *Laryngoscope*. 2014 Apr;124(4):838-45.*
- Krishna R, Kelleher K, Stahlberg E. Patient confidentiality in the research use of clinical medical databases. Am J Public Health. 2007 Apr;97(4):654-8. *Epub* 2007 Feb 28.
- Krishnan JA, Schatz M, Apter AJ. A call for action: Comparative effectiveness research in asthma. J *Allergy Clin Immunol*. 2011 Jan;127(1):123-7.

- Kudyakov R, Bowen J, Ewen E, West SL, Daoud Y, Fleming N, et al. Electronic health record use to classify patients with newly diagnosed versus preexisting type 2 diabetes: infrastructure for comparative effectiveness research and population health management. *Popul Health Manag.* 2012;15(1):3-11.
- Kukafka R, Ancker JS, Chan C, Chelico J, Khan S, Mortoti S, Natarajan K, Presley K, Stephens K. Redesigning electronic health record systems to support public health. *J Biomed Inform*. 2007 Aug;40(4):398-409.
- Kunz LM, Yeh RW, Normand SL. Comparative effectiveness research: does one size fit all? *Stat Med*. 2012;31(25):3062-5; discussion 6-7.
- Kush RD, Helton E, Rockhold FW, Hardison CD. Electronic health records, medical research, and the Tower of Babel. *N Engl J Med*. 2008 Apr 17;358(16):1738-40.
- Kwok AC, Hu YY, Dodgion CM, Jiang W, Ting GV, Taback N, et al. Invasive procedures in the elderly after stage IV cancer diagnosis. *J Surg Res.* 2015 Feb;193(2):754-63.*
- Lai TL, Liao OY, Kim DW. Group sequential designs for developing and testing biomarker-guided personalized therapies in comparative effectiveness research. *Contemp Clin Trials*. 2013;36(2):651-63.
- Lake WB, Brooks NP, Resnick DK. Comparative effectiveness research in spine surgery. *J Comp Eff Res*. 2013 Jan;2(1):45-51.
- Langella S, Hastings S, Oster S, Pan T, Sharma A, Permar J, Ervin D, Cambazoglu BB, Kurc T, Saltz J. Sharing data and analytical resources securely in a biomedical research grid environment. *J Am Med Inform Assoc*. 2008; 15:363-73.
- Lasky T, Ernst FR, Greenspan J, Wang S, Gonzalez L. Estimating pediatric inpatient medication use in the United States. *Pharmacoepidemiol Drug Saf.* 2011;20(1):76-82.
- Lauer MS. Commentary: How the debate about comparative effectiveness research should impact the future of clinical trials. *Stat Med.* 2012;31(25):3051-3.
- Lauer MS. Commentary: Will academia embrace comparative effectiveness research? *Acad Med.* 2011;86(6):671-3.
- Lavallee DC, Williams CJ, Tambor ES, Deverka PA. Stakeholder engagement in comparative effectiveness research: how will we measure success? *J Comp Eff Res.* 2012;1(5):397-407.
- Laws A, Kendall R, Hawkins N. A comparison of national guidelines for network meta-analysis. *Value Health*. 2014;17(5):642-54.
- Laws R, Gillespie S, Puro J, Van Rompaey S, Quach T, Carroll J, et al. The Community Health Applied Research Network (CHARN) Data Warehouse: a Resource for Patient-Centered Outcomes Research and Quality Improvement in Underserved, Safety Net Populations. *eGEMs*. 2014 Oct 13; 2(3): 1097.
- Lazarus R, Yih K, Platt R. Distributed data processing for public health surveillance. *BMC Public Health*. 2006 Sep 19;6:235.
- LeBlanc A, Bodde AE, Branda ME, Yost KJ, Herrin J, Williams MD, et al. Translating comparative effectiveness of depression medications into practice by comparing the depression medication choice decision aid to usual care: study protocol for a randomized controlled trial. *Trials*. 2013 May 7;14:127

- Lecky F, Woodford M, Edwards A, Bouamra O, Coats T. Trauma scoring systems and databases. *Br J Anaesth. 2014*;113(2):286-94.
- Legro RS, Brzyski RG, Diamond MP, Coutifaris C, Schlaff WD, Casson P, et al. Letrozole versus clomiphene for infertility in the polycystic ovary syndrome. *N Engl J Med*. 2014 Jul 10;371(2):119-29.*
- Lehmacher W, Wolff S. [The relevance of head-to-head trials to patient-centred clinical research]. *Z Evid Fortbild Qual Gesundhwes*. 2011;105(9):639-45.
- Lehner JP, Epstein RS, Salimi T. Integrating new approaches for clinical development: translational research and relative effectiveness. *J Comp Eff Res.* 2012;1(1 Suppl):15-21.
- Leon AC. Challenges in designing comparative-effectiveness trials for antidepressants. *Clin Pharmacol Ther*. 2012;91(2):165-7.
- Leon AC. Comparative effectiveness clinical trials in psychiatry: superiority, noninferiority, and the role of active comparators. *J Clin Psychiatry*. 2011;72(10):1344-9.
- Li M, Shi JP. [The process of application and implementation on methodologies for comparative effectiveness studies]. *Zhongguo Zhong Yao Za Zhi*. 2012;33(11):1184-8.
- Liao KP, Cai T, Gainer V, Goryachev S, Zeng-treitler Q, Raychaudhuri S, Szolovits P, Churchill S, Murphy S, Kohane I, Karlson EW, Plenge RM. Electronic medical records for discovery research in rheumatoid arthritis. *Arthritis Care Res (Hoboken)*. 2010 Aug;62(8):1120-7.
- Liao X, Xie YM, Tian F, Shen H. [Overview of design, implementation and analysis of comparative effectiveness research]. *Zhongguo Zhong Yao Za Zhi*. 2013;38(6):930-5.
- Lichstein JC, Domino ME, Beadles CA, Ellis AR, Farley JF, Morrissey JP, et al. Use of medical homes by patients with comorbid physical and severe mental illness. *Med Care*. 2014 Mar;52 Suppl 3:S85-91.*
- Lieu TA, Au D, Krishnan JA, Moss M, Selker H, Harabin A, et al. Comparative effectiveness research in lung diseases and sleep disorders: recommendations from the National Heart, Lung, and Blood Institute workshop. *Am J Respir Crit Care Med*. 2011;184(7):848-56.
- Los RK, van Ginneken AM, van der Lei J. OpenSDE: a strategy for expressive and flexible structured data entry. *Int J Med Inform*. 2005 Jul;74(6):481-90.
- Lowry KP, Lee JM, Kong CY, McMahon PM, Gilmore ME, Cott Chubiz JE, Pisano ED, Gatsonis C, Ryan PD, Ozanne EM, Gazelle GS. Annual screening strategies in BRCA1 and BRCA2 gene mutation carriers: a comparative effectiveness analysis. *Cancer*. 2012 Apr 15;118(8):2021-30.*
- Lowry SJ, Loggers ET, Bowles EJ, Wagner EH. Evidence gaps in advanced cancer care: community-based clinicians' perspectives and priorities for CER. *Am J Manag Care*. 2012;18(5 Spec No. 2):Sp77-83.
- Lubowitz JH1, Smith PA. Current concepts in clinical research: web-based, automated, arthroscopic surgery prospective database registry. *Arthroscopy*. 2012 Mar;28(3):425-8
- Luft HS. Commentary: Protecting human subjects and their data in multi-site research. *Med Care*. 2012;50 Suppl:S74-6.
- Luo L, Small D, Stewart WF, Roy JA. Methods for estimating kidney disease stage transition probabilities using electronic medical records. *eGEMs*. 2013;1(3):1040.
- Lyman GH. Comparative effectiveness research in oncology. Oncologist. 2013;18(6):752-9.

- Lynge E, Ponti A, James T, Májek O, von Euler-Chelpin M, Anttila A, et al. Variation in detection of ductal carcinoma in situ during screening mammography: a survey within the International Cancer Screening Network. Eur J Cancer. 2014 Jan;50(1):185-92.*
- Maas AI, Harrison-Felix CL, Menon D, Adelson PD, Balkin T, Bullock R, et al. Standardizing data collection in traumatic brain injury. *J neurotrauma*. 2011;28(2):177-87.
- Maas Al, Menon DK, Lingsma HF, Pineda JA, Sandel ME, Manley GT. Re-orientation of clinical research in traumatic brain injury: report of an international workshop on comparative effectiveness research. *J Neurotrauma*. 2012;29(1):32-46.
- Maas Al, Murray GD, Roozenbeek B, Lingsma HF, Butcher I, McHugh GS, et al. Advancing care for traumatic brain injury: findings from the IMPACT studies and perspectives on future research. *Lancet neurology*. 2013;12(12):1200-10.
- Maciejewski ML, Bayliss EA. Approaches to comparative effectiveness research in multimorbid populations. *Med Care*. 2014;52 Suppl 3:S23-30.
- Maciejewski ML, Curtis LH, Dowd B. Study design elements for rigorous quasi-experimental comparative effectiveness research. *J Comp Eff Res.* 2013;2(2):159-73.
- Mack CD, Glynn RJ, Brookhart MA, Carpenter WR, Meyer AM, Sandler RS, et al. Calendar time-specific propensity scores and comparative effectiveness research for stage III colon cancer chemotherapy. *Pharmacoepidemiol Drug Saf.* 2013 Aug;22(8):810-8.
- Malhotra K, Baltrus P, Zhang S, McRoy L, Immergluck LC, Rust G. Geographic and racial variation in asthma prevalence and emergency department use among Medicaid-enrolled children in 14 southern states. *J Asthma*. 2014 Nov;51(9):913-21.*
- Maloney N, Heider AR, Rockwood A, Singh R. Creating a connected community: lessons learned from the Western new york beacon community. *eGEMs*. 2014;2(3):1091.
- Manchikanti L, Falco FJ, Benyamin RM, Helm S, 2nd, Parr AT, Hirsch JA. The impact of comparative effectiveness research on interventional pain management: evolution from Medicare Modernization Act to Patient Protection and Affordable Care Act and the Patient-Centered Outcomes Research Institute. *Pain physician*. 2011;14(3):E249-82.
- Mandl KD, Lee TH. Integrating medical informatics and health services research: the need for dual training at the clinical health systems and policy levels. *J Am Med Inform Assoc.* 2002 Mar-Apr;9(2):127-32.
- Mane KK, Bizon C, Schmitt C, Owen P, Burchett B, Pietrobon R, et al. VisualDecisionLinc: a visual analytics approach for comparative effectiveness-based clinical decision support in psychiatry. *J Biomed Inform*. 2012 Feb;45(1):101-6.
- Manicone PE, Beck J. Quality improvement and comparative effectiveness: a review for the pediatric hospitalist. *Pediatr Clin North Am.* 2014;61(4):693-702.
- Manion FJ, Harris MR, Buyuktur AG, Clark PM, An LC, Hanauer DA. Leveraging EHR data for outcomes and comparative effectiveness research in oncology. *Curr Oncol Rep.* 2012 Dec;14(6):494-501.
- Manion FJ, Robbins RJ, Weems WA, Crowley RS. Security and privacy requirements for a multi-institutional cancer research data grid: an interview-based study. *BMC Med Inform Decis Mak*. 2009 Jun 15;9:31.

- Manolov R, Solanas A, Sierra V, Evans JJ. Choosing among techniques for quantifying single-case intervention effectiveness. *Behavior therapy*. 2011;42(3):533-45.
- Marantz PR, Strelnick AH, Currie B, Bhalla R, Blank AE, Meissner P, et al. Developing a multidisciplinary model of comparative effectiveness research within a clinical and translational science award. *Acad Med*. 2011;86(6):712-7.
- Margolis PA, Peterson LE, Seid M. Collaborative Chronic Care Networks (C3Ns) to transform chronic illness care. *Pediatrics*. 2013;131 Suppl 4:S219-23.
- Mark TL, Lawrence W, Coffey RM, Kenney T, Chu BC, Mohler ER, 3rd, et al. The value of linking hospital discharge and mortality data for comparative effectiveness research. *J Comp Eff Res*. 2013;2(2):175-84.
- Marko NF, Weil RJ. A comparative effectiveness analysis of alternative strategies to assess hypothalamic-pituitary-adrenal axis function after microsurgical resection of pituitary tumors. *Neurosurgery*. 2011;68(6):1576-84; discussion 85.
- Marko NF, Weil RJ. The case for a comparative, value-based alternative to the patient-centered outcomes research model for comparative effectiveness research. *Neurosurgical focus*. 2012;33(1):E8.
- Maro JC, Platt R, Holmes JH, Strom BL, Hennessy S, Lazarus R, Brown JS. Design of a national distributed health data network. *Ann Intern Med*. 2009 Sep 1;151(5):341-4.
- Marsolo K. In Search of a Data-in-Once, Electronic Health Record-Linked, Multicenter Registry- How Far We Have Come and How Far We Still Have to Go. *eGEMs*. 2013 Jan 17; 1(1): 1003.
- McCarthy DB, Propp K, Cohen A, Sabharwal R, Schachter AA, Rein AL. Learning from health information exchange technical architecture and implementation in seven beacon communities. *eGEMs*. 2014;2(1):1060.
- McCombs J, Zolfaghari S, Ganapathy V. Impact of drug treatment history on comparative effectiveness research in schizophrenia. *Value Health*. 2011;14(5):679-86.
- McCombs JS, Ganapathy V, Zolfaghari S. Applying comparative effectiveness research methods in bipolar disorders. *J Affect Disord*. 2011;130(1-2):145-54.
- McConnell P, Dash RC, Chilukuri R, Pietrobon R, Johnson K, Annechiarico R, Cuticchia AJ. The cancer translational research informatics platform. *BMC Med Inform Decis Mak*. 2008 Dec 24;8:60.
- McCormick PJ, Elhadad N, Stetson PD. Use of semantic features to classify patient smoking status. *AMIA Annu Symp Proc.* 2008 Nov 6:450-4.
- McCray AT, Scherrer JR, Safran C, Chute CG. Concepts, knowledge, and language in health-care information systems. *Methods Inf Med.* 1995 Mar;34(1-2):1-4.
- McCutcheon BA, Chang DC, Marcus LP, Inui T, Noorbakhsh A, Schallhorn C, et al. Long-term outcomes of patients with nonsurgically managed uncomplicated appendicitis. *J Am Coll Surg*. 2014;218(5):905-13.
- McCutcheon BA, Talamini MA, Chang DC, Rose JA, Bandyk DF, Wilson SE. The comparative effectiveness of surgeons over interventionalists in endovascular repairs of abdominal aortic aneurysm. *Annals of surgery*. 2013;258(3):476-82.

- McDonald CJ, Overhage JM, Tierney WM, Dexter PR, Martin DK, Suico JG, Zafar A, Schadow G, Blevins L, Glazener T, Meeks-Johnson J, Lemmon L, Warvel J, Porterfield B, Warvel J, Cassidy P, Lindbergh D, Belsito A, Tucker M, Williams B, Wodniak C. The Regenstrief Medical Record System: a quarter century experience. *Int J Med Inform*. 1999 Jun;54(3):225-53.
- McDonald, CJ, Dexter, P, Schadow G, Chueh HC, Abernathy G, Hook J, Blevins L, Overhage M, Berman JJ. SPIN query tools for de-identified research on a humongous database. *AMIA Annu Symp Proc.* 2005; 515-9.
- McDougald Scott AM, Jackson GP, Ho YX, Yan Z, Davison C, Rosenbloom ST. Adapting comparative effectiveness research summaries for delivery to patients and providers through a patient portal. *AMIA Annu Symp Proc.* 2013;2013:959-68.
- McGlynn EA, Lieu TA, Durham ML, Bauck A, Laws R, Go AS, et al. Developing a data infrastructure for a learning health system: the PORTAL network. *J Am Med Inform Assoc*. 2014;21(4):596-601.
- McGraw D, Dempsey JX, Harris L, Goldman J. Privacy as an enabler, not an impediment: building trust into health information exchange. *Health Aff (Millwood)*. 2009 Mar-Apr;28(2):416-27
- McGraw Jd DC, Leiter Jd AB. eGEMs: Pathways to Success for Multisite Clinical Data Research. *eGEMs*. 2013 Sep 19; 1(1): 1041.
- McKinney M. 'Huge potential' for EHRs and comparative effectiveness. *Hosp Health Netw.* 2010 Apr;84(4):41-2.
- McMurry AJ, Gilbert CA, Reis BY, Chueh HC, Kohane IS, Mandl KD. A self-scaling, distributed information architecture for public health, research, and clinical care. *J Am Med Inform Assoc*. 2007 Jul-Aug;14(4):527-33.
- Memtsoudis SG, Besculides MC. Perioperative comparative effectiveness research. Best Pract Res Clin *Anaesthesiol*. 2011;25(4):535-47.
- Methodological standards and patient-centeredness in comparative effectiveness research: the PCORI perspective. *JAMA*. 2012;307(15):1636-40.
- Meyer AM, Carpenter WR, Abernethy AP, Sturmer T, Kosorok MR. Data for cancer comparative effectiveness research: past, present, and future potential. *Cancer*. 2012;118(21):5186-97.
- Meystre SM, Friedlin FJ, South BR, Shen S, Samore MH. Automatic de-identification of textual documents in the electronic health record: a review of recent research. *BMC Med Res Methodol*. 2010;10:70.
- Mi X, Hammill BG, Curtis LH, Greiner MA, Setoguchi S. Impact of immortal person-time and time scale in comparative effectiveness research for medical devices: a case for implantable cardioverter-defibrillators. *J Clin Epidemiol*. 2013;66(8 Suppl):S138-44.
- Miriovsky BJ, Shulman LN, Abernethy AP. Importance of health information technology, electronic health records, and continuously aggregating data to comparative effectiveness research and learning health care. *J Clin Oncol*. 2012;30(34):4243-8.
- Mishra NK, Cummo DM, Arnzen JJ, Bonander J. A rule-based approach for identifying obesity and its comorbidities in medical discharge summaries. *J Am Med Inform Assoc.* 2009 Jul-Aug;16(4):576-9.
- Mohan AV, Fazel R, Huang PH, Shen YC, Howard D. Changes in geographic variation in the use of percutaneous coronary intervention for stable ischemic heart disease after publication of the
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Clinical Outcomes Utilizing Revascularization and Aggressive Drug Evaluation (COURAGE) trial. *Circ Cardiovasc Qual Outcomes*. 2014;7(1):125-30.
- Mohanty SK, Mistry AT, Amin W, Parwani AV, Pople AK, Schmandt L, Winters SB, Milliken E, Kim P, Whelan NB, Farhat G, Melamed J, Taioli E, Dihr R, Pass HI, Becich MJ. The development and deployment of Common Data Elements for tissue banks for translational research in cancer an emerging standard based approach for the Mesothelioma Virtual Tissue Bank. *BMC Cancer*. 2008; 8: 91.
- Mohr P. Looking at CER from Medicare's perspective. J Manag Care Pharm. 2012;18(4 Suppl A):S5-8.
- Morrato EH, Concannon TW, Meissner P, Shah ND, Turner BJ. Dissemination and implementation of comparative effectiveness evidence: key informant interviews with Clinical and Translational Science Award institutions. *J Comp Eff Res.* 2013;2(2):185-94.
- Morris MJ, Basch EM, Wilding G, Hussain M, Carducci MA, Higano C, Kantoff P, Oh WK, Small EJ, George D, Mathew P, Beer TM, Slovin SF, Ryan C, Logothetis C, Scher HI. Department of the Defense Prostate Cancer Clinical Trials Consortium: a new instrument for prostate cancer clinical research. *Clin Genitounrinary Cancer*. 2009;7:51-57.
- Morrison FP, Li L, Lai AM, Hripcsak G. Repurposing the clinical record: can an existing natural language processing system de-identify clinical notes? *J Am Med Inform Assoc.* 2009 Jan-Feb;16(1):37-9.
- Morton SC, Ellenberg JH. Infusion of statistical science in comparative effectiveness research. *Clin Trials*. 2012;9(1):6-12.
- Mularski RA, McBurnie MA, Lindenauer PK, Lee TA, Vollmer WM, Au DH, et al. Comparative effectiveness research in chronic obstructive pulmonary disease. *J Comp Eff Res.* 2012;1(1):71-82.*
- Mullins CD, Sanchez RJ. It is important to note that RWD will never replace the more traditional and more robust RCT data; however, the emerging trend is to incorporate data that are more generalizable. *J Manag Care Pharm.* 2011;17(9 Suppl A):S03-4.
- Murphy S, Wilcox A. Mission and Sustainability of Informatics for Integrating Biology and the Bedside (i2b2). *eGEMs*. 2014;2(2):1074.
- Murphy SN, Weber G, Mendis M, Gainer V, Chueh HC, Churchill S, Kohane I. Serving the enterprise and beyond with informatics for integrating biology and the bedside (i2b2). *J Am Med Inform Assoc.* 2010 Mar-Apr;17(2):124-30.
- Napoles AM, Chadiha LA. Advancing the science of recruitment and retention of ethnically diverse populations. *Gerontologist*. 2011;51 Suppl 1:S142-6.
- Narus SP, Srivastava R, Gouripeddi R, Livne OE, Mo P, Bickel JP, et al. Federating clinical data from six pediatric hospitals: process and initial results from the PHIS+ Consortium. *AMIA Annu Symp Proc.* 2011;2011:994-1003.
- Nazi KM, Hogan TP, Wagner TH, McInnes DK, Smith BM, Haggstrom D, Chumbler NR, Gifford AL, Charters KG, Saleem JJ, Weingardt KR, Fischetti LF, Weaver FM. Embracing a health services research perspective on personal health records: lessons learned from the VA My HealtheVet system. *J Gen Intern Med*. 2010 Jan;25 Suppl 1:62-7.
- Neely JG, Sharon JD, Graboyes EM, Paniello RC, Nussenbaum B, Grindler DJ, et al. Practical guide to understanding Comparative Effectiveness Research (CER). *Otolaryngol Head Neck Surg*. 2013;149(6):804-12.
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Neovius M, Simard J, Sundström A, Jacobsson L, Geborek P, Saxne T, et al. Generalisability of clinical registers used for drug safety and comparative effectiveness research: coverage of the Swedish Biologics Register. *Ann Rheum Dis.* 2011 Mar;70(3):516-9.
- Neugebauer R, Fireman B, Roy JA, Raebel MA, Nichols GA, O'Connor PJ. Super learning to hedge against incorrect inference from arbitrary parametric assumptions in marginal structural modeling. *J Clin Epidemiol*. 2013;66(8 Suppl):S99-109.
- Neuman HB, Greenberg CC. Comparative effectiveness research: opportunities in surgical oncology. *Semin Radiat Oncol.* 2014;24(1):43-8.
- Nichols GA, Desai J, Elston Lafata J, Lawrence JM, O'Connor PJ, Pathak RD, et al. Construction of a multisite DataLink using electronic health records for the identification, surveillance, prevention, and management of diabetes mellitus: the SUPREME-DM project. *Prev Chronic Dis.* 2012;9:E110.
- Nierenberg AA, Sylvia LG, Leon AC, Reilly-Harrington NA, Shesler LW, McElroy SL, et al. Clinical and Health Outcomes Initiative in Comparative Effectiveness for Bipolar Disorder (Bipolar CHOICE): a pragmatic trial of complex treatment for a complex disorder. *Clin Trials*. 2014;11(1):114-27.
- Norris SL, Atkins D, Bruening W, Fox S, Johnson E, Kane R, et al. Observational studies in systematic [corrected] reviews of comparative effectiveness: AHRQ and the Effective Health Care Program. *J Clin Epidemiol*. 2011;64(11):1178-86.
- Nwachukwu BU, Bozic KJ. Electronic Data Capture through Total Joint Replacement Registries. *eGEMs*. 2013 Oct 28; 1(2): 1014.
- Oakes JM. Effect identification in comparative effectiveness research. eGEMs. 2013;1(1):1004.
- O'Connor DP, Brinker MR. Challenges in outcome measurement: clinical research perspective. *Clin Orthop Relat Res.* 2013;471(11):3496-503.
- Ogunyemi OI, Meeker D, Kim HE, Ashish N, Farzaneh S, Boxwala A. Identifying appropriate reference data models for comparative effectiveness research (CER) studies based on data from clinical information systems. *Med Care*. 2013;51(8 Suppl 3):S45-52.
- Ohmann C, Kuchinke W. Future developments of medical informatics from the viewpoint of networked clinical research. Interoperability and integration. *Methods Inf Med.* 2009;48(1):45-54.
- Ojewola RW, Tijani KH, Jeje EA, Anunobi CC, Ogunjimi MA, Ezenwa EV, et al. Detection of prostate cancer: comparison of cancer detection rates of sextant and extended ten-core biopsy protocols. *Niger Postgrad Med J.* 2012;19(3):137-42.
- Olfson M, Marcus SC. Decline in placebo-controlled trial results suggests new directions for comparative effectiveness research. *Health Aff (Millwood)*. 2013;32(6):1116-25.
- Olson WH, Crivera C, Ma YW, Panish J, Mao L, Lynch SM. Bayesian data analysis in observational comparative effectiveness research: rationale and examples. *J Comp Eff Res.* 2013;2(6):563-71.
- Ostroff JS, Li Y, Shelley DR. Dentists United to Extinguish Tobacco (DUET): a study protocol for a cluster randomized, controlled trial for enhancing implementation of clinical practice guidelines for treating tobacco dependence in dental care settings. *Implement Sci: IS.* 2014;9:25.
- Pace WD, Cifuentes M, Valuck RJ, Staton EW, Brandt EC, West DR. An electronic practice-based network for observational comparative effectiveness research. *Ann Intern Med*. 2009 Sep 1;151(5):338-40.

- Pace WD, Fox CH, White T, Graham D, Schilling LM, West DR. The DARTNet Institute: Seeking a Sustainable Support Mechanism for Electronic Data Enabled Research Networks. *eGEMs*. 2014 Sep 2; 2(2): 1063.
- Pagliari C. Design and evaluation in eHealth: challenges and implications for an interdisciplinary field. *J Med Internet Res.* 2007 May 27;9(2):e15
- Pakhomov S, Weston SA, Jacobsen SJ, Chute CG, Meverden R, Roger VL. Electronic medical records for clinical research: application to the identification of heart failure. *Am J Manag Care*. 2007 Jun;13(6 Part 1):281-8.
- Pandis N, Fleming PS, Spineli LM, Salanti G. Initial orthodontic alignment effectiveness with self-ligating and conventional appliances: a network meta-analysis in practice. *Am J Orthod Dentofacial Orthop*. 2014;145(4 Suppl):S152-63.
- Paolino AR, Lauf SL, Pieper LE, Rowe J, Vargas IM, Goff MA, et al. Accelerating Regulatory Progress in Multi-Institutional Research. *eGEMs*. 2014 Jul 10;2(1):1076.
- Patel MR, Marso SP, Dai D, Anstrom KJ, Shunk KA, Curtus JP, et al. Comparative effectiveness of drugeluting versus bare-metal stents in elderly patients undergoing revascularization of chronic total coronary occlusions: results from the National Cardiovascular Data Registry, 2005-2008. *JACC Cardiovasc Interv.* 2012;5(10):1054-61.
- Pathak J, Peters L, Chute CG, Bodenreider O. Comparing and evaluating terminology services application programming interfaces: RxNav, UMLSKS and LexBIG. *JAMA*. 2010; 17(6):714-9.
- Pathak J, Solbrig HR, Buntrock JD, Johnson TM, Chute CG. LexGrid: a framework for representing, storing, and querying biomedical terminologies from simple to sublime. *J Am Med Inform Assoc.* 2009 May-Jun;16(3):305-15.
- Payne PR. Advancing user experience research to facilitate and enable patient-centered research: current state and future directions. *eGEMs*. 2013;1(1):1026.
- Payne PR. Sustainability Through Technology Licensing and Commercialization: Lessons Learned from the TRIAD Project. *eGEMs*. 2014;2(2):1075.
- Peterson SK, Shinn EH, Basen-Engquist K, Demark-Wahnefried W, Prokhorov AV, Baru C, et al. Identifying early dehydration risk with home-based sensors during radiation treatment: a feasibility study on patients with head and neck cancer. *J Natl Cancer Inst Monogr.* 2013 Dec;2013(47):162-8.
- Petretta M, Cuocolo A. Prognosis in the era of comparative effectiveness research. *J Nucl Cardiol*. 2013;20(2):313.
- Petry NM, Alessi SM, Barry D, Carroll KM. Standard magnitude prize reinforcers can be as efficacious as larger magnitude reinforcers in cocaine-dependent methadone patients. *J Consult Clin Psychol*. 2015 Jun;83(3):464-72.*
- Petry NM, Alessi SM, Byrne S, White WB. Reinforcing adherence to antihypertensive medications. *J Clin Hypertens (Greenwich)*. 2015 Jan;17(1):33-8.*
- Petry NM, Barry D, Pescatello L, White WB. A low-cost reinforcement procedure improves short-term weight loss outcomes. *Am J Med*. 2011 Nov;124(11):1082-5.*
- Piwowar HA, Becich MJ, Bilofsky H, Crowley RS. Towards a data sharing culture: recommendations for leadership from academic health centers. *PLoS Med*. 2008; 5: e183.
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Platt R, Davis R, Finkelstein J, Go AS, Gurwitz JH, Roblin D, Soumerai S, Ross-Degnan D, Andrade S, Goodman MJ, Martinson B, Raebel MA, Smith D, Ulcickas-Yood M, Chan KA. Multicenter epidemiologic and health services research on therapeutics in the HMO Research Network Center for Education and Research on Therapeutics. *Pharmacoepidemiol Drug Saf.* 2001 Aug-Sep;10(5):373-7.
- Platt R, Wilson M, Chan KA, Benner JS, Marchibroda J, McClellan M. The new Sentinel Network-improving the evidence of medical-product safety. *N Engl J Med*. 2009 Aug 13;361(7):645-7.
- Pobiruchin M, Kieser M, Schramm W. Leveraging Markov models to compute prevalence estimates for a regional breast cancer registry. *Stud Health Technol Inform*. 2013;190:237-9.
- Politi MC, Clayman ML, Fagerlin A, Studts JL, Montori V. Insights from a conference on implementing comparative effectiveness research through shared decision-making. *J Comp Eff Res.* 2013;2(1):23-32.
- Ponti A, Lynge E, James T, MÃijek O, von Euler-Chelpin M, Anttila A, et al. International variation in management of screen-detected ductal carcinoma in situ of the breast. *Eur J Cancer*. 2014 Oct;50(15):2695-704.*
- Price RC, Huth D, Smith J, Harper S, Pace W, Pulver G, et al. Federated queries for comparative effectiveness research: performance analysis. *Stud Health Technol Inform*. 2012;175:9-18.
- Prosser LA. Comparative effectiveness and child health. Pharmacoeconomics. 2012;30(8):637-45.
- Quantin C, Bouzelat H, Allaert FA, Benhamiche AM, Faivre J, Dusserre L. How to ensure data security of an epidemiological follow-up: quality assessment of an anonymous record linkage procedure. *Int J Med Inform.* 1998 Mar;49(1):117-22.
- Raebel MA, Ellis JL, Schroeder EB, Xu S, O'Connor PJ, Segal JB, et al. Intensification of antihyperglycemic therapy among patients with incident diabetes: a Surveillance Prevention and Management of Diabetes Mellitus (SUPREME-DM) study. *Pharmacoepidemiol Drug Saf.* 2014 Jul;23(7):699-710.*
- Raebel MA, Schmittdiel J, Karter AJ, Konieczny JL, Steiner JF. Standardizing terminology and definitions of medication adherence and persistence in research employing electronic databases. *Med Care*. 2013;51(8 Suppl 3):S11-21.
- Randhawa G. Moving to a user-driven research paradigm. eGEMs. 2013;1(2):1017.
- Randhawa GS, Slutsky JR. Building sustainable multi-functional prospective electronic clinical data systems. *Med Care*. 2012 Jul;50 Suppl:S3-6.
- Rask KJ, Brigham KL, Johns MM. Integrating comparative effectiveness research programs into predictive health: a unique role for academic health centers. *Acad Med*. 2011;86(6):718-23.
- Rassen JA, Solomon DH, Glynn RJ, Schneeweiss S. Simultaneously assessing intended and unintended treatment effects of multiple treatment options: a pragmatic "matrix design". *Pharmacoepidemiol Drug Saf.* 2011;20(7):675-83.
- Reams C, Powell M, Edwards R. State Synergies and Disease Surveillance: Creating an Electronic Health Data Communication Model for Cancer Reporting and Comparative Effectiveness Research in Kentucky. *eGEMs*. 2014 Aug 6; 2(2): 1064.
- Reeve BB, Wyrwich KW, Wu AW, Velikova G, Terwee CB, Snyder CF, et al. ISOQOL recommends minimum standards for patient-reported outcome measures used in patient-centered outcomes and comparative effectiveness research. *Qual Life Res.* 2013;22(8):1889-905.
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Reimer AP, Madigan E. Developing a fully integrated medical transport record to support comparative effectiveness research for patients undergoing medical transport. *eGEMs*. 2013;1(3):1024.
- Rich EC, Bonham AC, Kirch DG. The implications of comparative effectiveness research for academic medicine. *Acad Meds.* 2011;86(6):684-8.
- Ritzwoller DP, Carroll N, Delate T, O'Keeffe-Rossetti M, Fishman PA, Loggers ET, et al. Validation of electronic data on chemotherapy and hormone therapy use in HMOs. *Med Care*. 2013 Oct;51(10):e67-73.
- Ritzwoller DP, Carroll NM, Delate T, Hornbrook MC, Kushi L, Aiello Bowles EJ, et al. Patterns and predictors of first-line chemotherapy use among adults with advanced non-small cell lung cancer in the cancer research network. *Lung Cancer*. 2012;78(3):245-52.
- Ritzwoller DP, Carroll NM, Delate T, Hornbrook MC, Kushi L, Bowles EJ, et al. Comparative effectiveness of adjunctive bevacizumab for advanced lung cancer: the cancer research network experience. *J Thorac Oncol*. 2014 May;9(5):692-701.*
- Robinson JW. Propensity score models in observational comparative effectiveness studies: cornerstone of design or statistical afterthought? *J Comp Eff Res.* 2012;1(2):129-35.
- Rosenbloom ST, Harris P, Pulley J, Basford M, Grant J, DuBuisson A, et al. The Mid-South clinical Data Research Network. *J Am Med Inform Assoc.* 2014;21(4):627-32.
- Ross TR, Ng D, Brown JS, Pardee R, Hornbrook MC, Hart G, et al. The HMO Research Network Virtual Data Warehouse: A Public Data Model to Support Collaboration. *eGEMs*. 2014 Mar 24; 2(1): 1049.
- Rubin D, Napel S. Imaging informatics: toward capturing and processing semantic information in radiology images. *Yearb Med Inform*. 2010; 34-42.
- Ryan P. Statistical challenges in systematic evidence generation through analysis of observational healthcare data networks. *Stat Methods Med Res.* 2013;22(1):3-6.
- Saag KG, Mohr PE, Esmail L, Mudano AS, Wright N, Beukelman T, et al. Improving the efficiency and effectiveness of pragmatic clinical trials in older adults in the United States. *Contemp Clin Trials*. 2012 Nov;33(6):1211-6
- Saczynski JS, McManus DD, Goldberg RJ. Commonly used data-collection approaches in clinical research. *Am J Med*. 2013;126(11):946-50.
- Safdar NM, Siegel E, Erickson BJ, Nagy P. Enabling comparative effectiveness research with informatics: show me the data! *Academic radiology*. 2011;18(9):1072-6.
- Safran C, Bloomrosen M, Hammond WE, Labkoff S, Markel-Fox S, Tang PC, Detmer DE, Expert Panel. Toward a national framework for the secondary use of health data: an American Medical Informatics Association White Paper. *J Am Med Inform Assoc.* 2007 Jan-Feb;14(1):1-9.
- Salemi JL, Tanner JP, Bailey M, Mbah AK, Salihu HM. Creation and evaluation of a multi-layered maternal and child health database for comparative effectiveness research. *J Registry Manag*. 2013;40(1):14-28.
- Sarkar IN. Biomedical informatics and translational medicine. J Transl Med. 2010 Feb 26;8:22.
- Sauer BC, Brookhart MA, Roy J, VanderWeele T. A review of covariate selection for non-experimental comparative effectiveness research. *Pharmacoepidemiol Drug Saf.* 2013;22(11):1139-45.
- Saver B. One system for electronic health records. Health Aff (Millwood). 2010 Jun;29(6):1273.
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Savova GK, Masanz JJ, Ogren PV, Zheng J, Sohn S, Kipper-Schuler KC, Chute CG. Mayo clinical Text Analysis and Knowledge Extraction System (cTAKES): architecture, component evaluation and applications. *J Am Med Inform Assoc*. 2010 Sep-Oct;17(5):507-13.
- Scherb CA, Head BJ, Maas ML, Swanson EA, Moorhead S, Reed D, et al. Most frequent nursing diagnoses, nursing interventions, and nursing-sensitive patient outcomes of hospitalized older adults with heart failure: part 1. *Int J Nurs Terminol Classif*. 2011;22(1):13-22.
- Schilling LM, Kwan BM, Drolshagen CT, Hosokawa PW, Brandt E, Pace WD, et al. Scalable Architecture for Federated Translational Inquiries Network (SAFTINet) Technology Infrastructure for a Distributed Data Network. *eGEMs*. 2013 Oct 7; 1(1): 1027.
- Schmiemann G. [The preliminary draft of the methodology report by the Patient-Centered Outcomes Research Institute]. *Z Evid Fortbild Qual Gesundhwes*. 2012;106(7):496-9.
- Schneeweiss S, Gagne JJ, Glynn RJ, Ruhl M, Rassen JA. Assessing the comparative effectiveness of newly marketed medications: methodological challenges and implications for drug development. *Clin Pharmacol Ther*. 2011;90(6):777-90.
- Schneeweiss S, Gagne JJ, Patrick AR, Choudhry NK, Avorn J. Comparative efficacy and safety of new oral anticoagulants in patients with atrial fibrillation. *Circ Cardiovasc Qual Outcomes*. 2012 Jul 1;5(4):480-6.*
- Schneeweiss S. A basic study design for expedited safety signal evaluation based on electronic healthcare data. *Pharmacoepidemiol Drug Saf.* 2010 Aug;19(8):858-68.
- Schroeder EB, Bayliss EA, Daugherty SL, Steiner JF. Gender differences in cardiovascular risk factors in incident diabetes. *Womens Health Issues*. 2014 Jan-Feb;24(1):e61-8.*
- Schroeder EB, Goodrich GK, Newton KM, Schmittdiel JA, Raebel MA. Implications of different laboratory-based incident diabetic kidney disease definitions on comparative effectiveness studies. *J Comp Eff Res.* 2014 Jul;3(4):359-69.*
- Selby JV, Fleurence R, Lauer M, Schneeweiss S. Reviewing hypothetical migraine studies using funding criteria from the Patient-Centered Outcomes Research Institute. *Health Aff (Millwood)*. 2012;31(10):2193-9.
- Selker HP, Ruthazer R, Terrin N, Griffith JL, Concannon T, Kent DM. Random treatment assignment using mathematical equipoise for comparative effectiveness trials. *Clin Transl Sci.* 2011;4(1):10-6.
- Selker HP, Strom BL, Ford DE, Meltzer DO, Pauker SG, Pincus HA, Rich EC, Tompkins C, Whitlock EP. White paper on CTSA consortium role in facilitating comparative effectiveness research: September 23, 2009 CTSA consortium strategic goal committee on comparative effectiveness research. *Clin Transl Sci.* 2010 Feb;3(1):29-37.
- Sen S, Davies JE, Malik IS, Foale RA, Mikhail GW, Hadjiloizou N, et al. Why does primary angioplasty not work in registries? Quantifying the susceptibility of real-world comparative effectiveness data to allocation bias. *Circ Cardiovasc Qual Outcomes*. 2012 Nov;5(6):759-66
- Sentell T, Chang A, Cheng Y, Miyamura J. Maternal quality and safety outcomes for Asians and Pacific Islanders in Hawai'i: an observational study from five years of statewide data. *BMC Pregnancy Childbirth*. 2014 Aug 30;14:298.*

- Sentell T, Marten L, Ahn HJ, Qui Y, Chen JJ, Miyamura J, et al. Disparities in hospitalizations among HIV positive individuals for Native Hawaiians and Asians compared to Whites in Hawaii I. Hawaii J Med Public Health. 2014 Oct;73(10):308-14.*
- Sentell TL, Juarez DT, Ahn HJ, Tseng CW, Chen JJ, Salvail FR, et al. Disparities in diabetes-related preventable hospitalizations among working-age Native Hawaiians and Asians in Hawaii J. *Med Public Health*. 2014 Dec;73(12 Suppl 3):8-13.*
- Setoguchi S, Warner Stevenson L, Stewart GC, Bhatt DL, Epstein AE, Desai M, et al. Influence of healthy candidate bias in assessing clinical effectiveness for implantable cardioverter-defibrillators: cohort study of older patients with heart failure. *BMJ*. 2014;348:g2866.
- Seymour CW, Kahn JM, Martin-Gill C, Callaway CW, Angus DC, Yealy DM. Creating an infrastructure for comparative effectiveness research in emergency medical services. *Acad Emerg Med*. 2014 May;21(5):599-607.
- Shahian DM, O'Brien SM, Sheng S, Grover FL, Mayer JE, Jacobs JP, et al. Predictors of long-term survival after coronary artery bypass grafting surgery: results from the Society of Thoracic Surgeons Adult Cardiac Surgery Database (the ASCERT study). *Circulation*. 2012;125(12):1491-500.
- Sharma A, Pan T, Cambazoglu BB, Gurcan M, Kurc T, Saltz J. VirtualPACS a federating gateway to access remote image data resources over the grid. *J Digit Imaging*. 2009; 22: 1-10.
- Shaya FT, Chirikov VV. Decision support tools to optimize economic outcomes for type 2 diabetes. *Am J Manag Care*. 2011;17 Suppl 14:S377-83.
- Sheridan SL, Draeger LB, Pignone MP, Sloane PD, Samuel-Hodge C, Finkelstein EA, et al. Designing and implementing a comparative effectiveness study of two strategies for delivering high quality CHD prevention: methods and participant characteristics for the Heart to Health study. *Contemp Clin Trials*. 2013;36(2):394-405.
- Sibanda T, He T, Szolovits P, Uzuner O. Syntactically-informed semantic category recognition in discharge summaries. *AMIA Annu Symp Proc.* 2006:714-8.
- Signorovitch J, Erder MH, Xie J, Sikirica V, Lu M, Hodgkins PS, et al. Comparative effectiveness research using matching-adjusted indirect comparison: an application to treatment with guanfacine extended release or atomoxetine in children with attention-deficit/hyperactivity disorder and comorbid oppositional defiant disorder. *Pharmacoepidemiol Drug Saf.* 2012;21 Suppl 2:130-7.
- Signorovitch JE, Sikirica V, Erder MH, Xie J, Lu M, Hodgkins PS, et al. Matching-adjusted indirect comparisons: a new tool for timely comparative effectiveness research. *Value Health*. 2012;15(6):940-7.
- Sills MR, Kwan BM, Yawn BP, Sauer BC, Fairclough DL, Federico MJ, et al. Medical home characteristics and asthma control: a prospective, observational cohort study protocol. *eGEMs*. 2013;1(3):1032.
- Simianu VV, Bastawrous AL, Billingham RP, Farrokhi ET, Fichera A, Herzig DO, et al. Addressing the appropriateness of elective colon resection for diverticulitis: a report from the SCOAP CERTAIN collaborative. *Ann Surg.* 2014 Sep;260(3):533-8; discussion 538-9.*
- Simianu VV, Flum DR. Rethinking elective colectomy for diverticulitis: a strategic approach to population health. *World J Gastroenterol*. 2014 Nov 28;20(44):16609-14.*
- Simpson L. Learning How to Learn: How AcademyHealth is Supporting Evidence Generation in a Transforming World. *eGEMs*. 2013;1(1):1002.
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Sittig DF, Hazlehurst BL, Brown J, Murphy S, Rosenman M, Tarczy-Hornoch P, et al. A survey of informatics platforms that enable distributed comparative effectiveness research using multi-institutional heterogenous clinical data. *Med Care*. 2012;50 Suppl:S49-59.
- Smedley D, Schofield P, Chen CK, Aidinis V, Ainali C, Bard J, Balling R, Birney E, Blake A, Bongcam-Rudloff E, Brookes AJ, Cesareni G, Chandras C, Eppig J, Flicek P, Gkoutos G, Greenaway S, Gruenberger M, Hériché JK, Lyall A, Mallon AM, Muddyman D, Reisinger F, Ringwald M, Rosenthal N, Schughart K, Swertz M, Thorisson GA, Zouberakis M, Hancock JM. Finding and sharing: new approaches to registries of databases and services for the biomedical sciences. *Database*. 2010; baq 014.
- Soeteman DI, Stout NK, Ozanne EM, Greenberg C, Hassett MJ, Schrag D, et al. Modeling the effectiveness of initial management strategies for ductal carcinoma in situ. *J Natl Cancer Inst*. 2013;105(11):774-81.
- Solt I, Tikk D, Gál V, Kardkovács ZT. Semantic classification of diseases in discharge summaries using a context-aware rule-based classifier. *J Am Med Inform Assoc*. 2009 Jul-Aug;16(4):580-4.
- Somner JE, Sii F, Bourne RR, Cross V, Burr JM, Shah P. Moving from PROMs to POEMs for glaucoma care: a qualitative scoping exercise. *Invest Ophthalmol Vis Sci.* 2012;53(9):5940-7.
- Sonnad SS, Goldsack JC, Mohr P, Tunis S. Methodological recommendations for comparative research on the treatment of chronic wounds. *J Wound Care*. 2013;22(9):470-80.
- Sonnad SS, Mullins CD, Whicher D, Goldsack JC, Mohr PE, Tunis SR. Recommendations for the design of Phase 3 pharmaceutical trials that are more informative for patients, clinicians, and payers. *Contemp Clin Trials*. 2013;36(2):356-61.
- Soto CM, Kleinman KP, Simon SR. Quality and correlates of medical record documentation in the ambulatory care setting. *BMC Health Serv Res.* 2002 Dec 10;2(1):22.
- Sox HC, Goodman SN. The methods of comparative effectiveness research. *Annu Rev Public Health*. 2012;33:425-45.
- Sox HC, Greenfield S. Comparative effectiveness research: a report from the Institute of Medicine. *Ann Intern Med.* 2009 Aug 4;151(3):203-5.
- Sox HC. Commentary: Academic health centers and comparative effectiveness research: opportunities and challenges. *Acad Med.* 2011;86(6):664-6.
- Staes CJ, Xu W, LeFevre SD, Price RC, Narus SP, Gundlapalli, Rolfs R, Nangle B, Samore M, Facelli JC. A case for using grid architecture for state public health informatics: the Utah perspective. *BMC Med Inform Dec Mak*. 2009; 9:32.
- Stein BD, Bautista A, Schumock GT, Lee TA, Charbeneau JT, Lauderdale DS, et al. The validity of International Classification of Diseases, Ninth Revision, Clinical Modification diagnosis codes for identifying patients hospitalized for COPD exacerbations. *Chest*. 2012;141(1):87-93.
- Stein HD, Nadkarni P, Erdos J, Miller PL. Exploring the degree of concordance of coded and textual data in answering clinical queries from a clinical data repository. *J Am Med Inform Assoc*. 2000 Jan-Feb;7(1):42-54.
- Stein SC. Comparative effectiveness in neurosurgery: what it means, how it is measured, and why it matters. *Neurosurgical focus*. 2012;33(1):E1.
- Steiner JF, Paolino AR, Thompson EE, Larson EB. Sustaining Research Networks: The Twenty-Year Experience of the HMO Research Network. *eGEMs*. 2014 Jun 9; 2(2): 1067.
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Stoto MA. New analytical methods for a learning healthcare system: a message from the guest editor. *eGEMs*. 2013;1(3):1055.
- Stout NK, Lee SJ, Schechter CB, Kerlikowske K, Alagoz O, Berry D, et al. Benefits, harms, and costs for breast cancer screening after US implementation of digital mammography. *J Natl Cancer Inst*. 2014 May 28;106(6):dju092.*
- Strope SA, Chang SH, Chen L, Sandhu G, Piccirillo JF, Schootman M. Survival impact of followup care after radical cystectomy for bladder cancer. *J Urol*. 2013 Nov;190(5):1698-703.*
- Strope SA, Yang L, Nepple KG, Andriole GL, Owens PL. Population based comparative effectiveness of transurethral resection of the prostate and laser therapy for benign prostatic hyperplasia. J Urol. 2012 Apr;187(4):1341-5.*
- Stuart EA, DuGoff E, Abrams M, Salkever D, Steinwachs D. Estimating causal effects in observational studies using Electronic Health Data: Challenges and (some) solutions. *eGEMs*. 2013;1(3).
- Sturmer T, Wyss R, Glynn RJ, Brookhart MA. Propensity scores for confounder adjustment when assessing the effects of medical interventions using nonexperimental study designs. *J Intern Med*. 2014;275(6):570-80.
- Tabak YP, Sun X, Hyde L, Yaitanes A, Derby K, Johannes RS. Using enriched observational data to develop and validate age-specific mortality risk adjustment models for hospitalized pediatric patients. *Med Care*. 2013;51(5):437-45.
- Tabak YP, Sun X, Johannes RS, Hyde L, Shorr AF, Lindenauer PK. Development and validation of a mortality risk-adjustment model for patients hospitalized for exacerbations of chronic obstructive pulmonary disease. *Med Care*. 2013;51(7):597-605.
- Tannen R, Xie D, Wang X, Yu M, Weiner MG. A new "Comparative Effectiveness" assessment strategy using the THIN database: comparison of the cardiac complications of pioglitazone and rosiglitazone. *Pharmacoepidemiol Drug Saf.* 2013 Jan;22(1):86-97
- Tannen RL, Weiner MG, Xie D. Use of primary care electronic medical record database in drug efficacy research on cardiovascular outcomes: comparison of database and randomised controlled trial findings. *BMJ*. 2009 Jan 27;338:b81.
- Tapp H, Hebert L, Dulin M. Comparative effectiveness of asthma interventions within a practice based research network. *BMC Health Serv Res.* 2011;11:188.
- Taveras EM, Marshall R, Horan CM, Gillman MW, Hacker K, Kleinman KP, et al. Rationale and design of the STAR randomized controlled trial to accelerate adoption of childhood obesity comparative effectiveness research. *Contemp Clin Trials*. 2013;34(1):101-8.
- Temple R. A regulator's view of comparative effectiveness research. Clin Trials. 2012;9(1):56-65.
- Tennison J, Rajeev D, Woolsey S, Black J, Oostema SJ, North C. The Utah Beacon Experience: Integrating Quality Improvement, Health Information Technology, and Practice Facilitation to Improve Diabetes Outcomes in Small Health Care Facilities. *eGEMs*. 2014 Aug 20; 2(3): 1100.
- Testa L, Agnifili M, Latini RA, Mattioli R, Lanotte S, De Marco F, et al. Adjusted indirect comparison of new oral anticoagulants for stroke prevention in atrial fibrillation. *QJM*. 2012;105(10):949-57.
- Thariani R, Veenstra DL, Carlson JJ, Garrison LP, Ramsey S. Paying for personalized care: cancer biomarkers and comparative effectiveness. *Mol Oncol*. 2012 Apr;6(2):260-6.*
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Toh S, Gagne JJ, Rassen JA, Fireman BH, Kulldorff M, Brown JS. Confounding adjustment in comparative effectiveness research conducted within distributed research networks. *Med Care*. 2013;51(8 Suppl 3):S4-10.
- Toh S, Platt R, Steiner JF, Brown JS. Comparative-effectiveness research in distributed health data networks. *Clin Pharmacol Ther*. 2011 Dec;90(6):883-7
- Toh S, Reichman ME, Houstoun M, Ding X, Fireman BH, Gravel E, et al. Multivariable confounding adjustment in distributed data networks without sharing of patient-level data. *Pharmacoepidemiol Drug Saf*. 2013;22(11):1171-7.
- Toh S, Shetterly S, Powers JD, Arterburn D. Privacy-preserving analytic methods for multisite comparative effectiveness and patient-centered outcomes research. *Med Care*. 2014;52(7):664-8.
- Tomines A, Readhead H, Readhead A, Teutsch S. Applications of electronic health information in public health: uses, opportunities & barriers. *eGEMs*. 2013;1(2):1019.
- Torda P, Tinoco A. Achieving the Promise of Electronic Health Record-enabled Quality Measurement: a Measure Developer's Perspective. *eGEMs*. 2013;1(2):1031.
- Torres GW, Swietek K, Ubri PS, Singer RF, Lowell KH, Miller W. Building and strengthening infrastructure for data exchange: lessons from the beacon communities. *eGEMs*. 2014;2(3):1092.
- Tosetti P, Hicks RR, Theriault E, Phillips A, Koroshetz W, Draghia-Akli R. Toward an international initiative for traumatic brain injury research. *J Neurotrauma*. 2013;30(14):1211-22.
- Treadwell JR, Erinoff E, Coates V. How electronic clinical data can improve health technology assessment. *eGEMs*. 2013;1(2):1028.
- Treadwell JR, Uhl S, Tipton K, Shamliyan T, Viswanathan M, Berkman ND, et al. Assessing equivalence and noninferiority. *J Clin Epidemiol*. 2012;65(11):1144-9.
- Tripathi M, Delano D, Lund B, Rudolph L. Engaging patients for health information exchange. *Health Aff* (Millwood). 2009 Mar-Apr;28(2):435-43.
- Tunis SR, Messner DA, Mohr P, Gliklich RE, Dubois RW. A translation table for patient-centered comparative effectiveness research: guidance to improve the value of research for clinical and health policy decision-making. *J Comp Eff Res.* 2012;1(3):259-62.
- Tunis SR, Turkelson C. Using health technology assessment to identify gaps in evidence and inform study design for comparative effectiveness research. *J Clin Oncol*. 2012;30(34):4256-61.
- Turisco F, Keogh D, Stubbs C, Glaser J, Crowley Jr WF. Current status of integrating information technologies into the clinical research enterprise within US academic health centers: strategic value and opportunities for investment. *JInvestig Med.* 2005 Dec;53(8):425-33.
- Uzuner O, Luo Y, Szolovits P. Evaluating the state-of-the-art in automatic de-identification. *J Am Med Inform Assoc.* 2007 Sep-Oct;14(5):550-63.
- Uzuner O, Mailoa J, Ryan R, Sibanda T. Semantic relations for problem-oriented medical records. *Artif Intell Med.* 2010 Oct;50(2):63-73.
- Uzuner O. Recognizing obesity and comorbidities in sparse data. *J Am Med Inform Assoc.* 2009 Jul-Aug;16(4):561-70.
- Valentini M, Milesi A, Bettini A, Tondini C, Nicolucci A. Type and trends in outcomes research in breast cancer between 2000 and 2007. *Ann Oncol.* 2011;22(10):2160-5.
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).

- Valuck RJ, Anderson HO, Libby AM, Brandt E, Bryan C, Allen RR, et al. Enhancing electronic health record measurement of depression severity and suicide ideation: a Distributed Ambulatory Research in Therapeutics Network (DARTNet) study. *J Am Board Fam Med*. 2012 Sep-Oct;25(5):582-93
- Van Eaton EG, Devlin AB, Devine EB, Flum DR, Tarczy-Hornoch P. Achieving and sustaining automated health data linkages for learning systems: barriers and solutions. eGEMs.2014 Jul 24; 2(2): 1069.
- van Ravesteyn NT, Miglioretti DL, Stout NK, Lee SJ, Schechter CB, Buist DS, Huang H, Heijnsdijk EA, Trentham-Dietz A, Alagoz O, Near AM, Kerlikowske K, Nelson HD, Mandelblatt JS, de Koning HJ. Tipping the balance of benefits and harms to favor screening mammography starting at age 40 years: a comparative modeling study of risk. *Ann Intern Med*. 2012 May 1;156(9):609-17.*
- VanLare JM, Conway PH, Rowe JW. Building academic health centers' capacity to shape and respond to comparative effectiveness research policy. *Acad Med.* 2011;86(6):689-94.
- VanLare JM, Wong HH, Gibbs J, Timp R, Whang S, Worrall C, et al. Comparative effectiveness research in practice: the Drug Effectiveness Review Project experience. *J Comp Eff Res.* 2013;2(6):541-50.
- Varadhan R, Segal JB, Boyd CM, Wu AW, Weiss CO. A framework for the analysis of heterogeneity of treatment effect in patient-centered outcomes research. *J Clin Epidemiol*. 2013;66(8):818-25.
- Vardaki M, Papageorgiou H, Pentaris F. A statistical metadata model for clinical trials data management. Comput Methods Programs Biomed. 2009; 95:129-45.
- Venkitachalam L, Lei Y, Magnuson EA, Chan PS, Stolker JM, Kennedy KF, et al. Survival benefit with drugeluting stents in observational studies: fact or artifact? *Circ Cardiovasc Qual Outcomes*. 2011;4(6):587-94.
- Viangteeravat T, Brooks I, Vuthipadadon S, Huang E, Smith E, Homayouni R, McDonald C. Slim-Prim: an integrated data system for clinical and translational research. *BMC Bioinformatics*. 2009; 10.
- Vickrey BG, Hirtz D, Waddy S, Cheng EM, Johnston SC. Comparative effectiveness and implementation research: directions for neurology. *Ann Neurol*. 2012;71(6):732-42.
- Vilaprinyo E, Forné C, Carles M, Sala M, Pla R, Castells X, et al. Cost-effectiveness and harm-benefit analyses of risk-based screening strategies for breast cancer. *PLoS One*. 2014 Feb 3;9(2):e86858.*
- Von Korff M, Merrill JO, Rutter CM, Sullivan M, Campbell CI, Weisner C. Time-scheduled vs. pain-contingent opioid dosing in chronic opioid therapy. *Pain*. 2011;152(6):1256-62.
- Wallace BC, Dahabreh IJ, Schmid CH, Lau J, Trikalinos TA. Modernizing the systematic review process to inform comparative effectiveness: tools and methods. *J Comp Eff Res.* 2013;2(3):273-82.
- Walley T. Translating comparative effectiveness research into clinical practice: the UK experience. *Drugs.* 2012;72(2):163-70.
- Walters SR. Demonstrating value: registries and beyond. *Gastrointest Endosc Clin N Am*. 2012;22(1):135-
- Ware H, Mullett CJ, Jagannathan V. Natural language processing framework to assess clinical conditions. J Am Med Inform Assoc. 2009 Jul-Aug;16(4):585-9.
- Warzel DB, Andonaydis C, McCurry B, Chilukuri R, Ishmukhamedov S, Covitz P. Common data element (CDE) management and deployment in clinical trials. *AMIA Annu Symp Proc.* 2003;1048.

- Weber GM, Murphy SN, McMurry AJ, Macfadden D, Nigrin DJ, Churchill S, Kohane IS. The Shared Health Research Information Network (SHRINE): a prototype federated query tool for clinical data repositories. *J Am Med Inform Assoc*. 2009 Sep-Oct;16(5):624-30
- Weber SC, Seto T, Olson C, Kenkare P, Kurian AW, Das AK. Oncoshare: lessons learned from building an integrated multi-institutional database for comparative effectiveness research. *AMIA Annu Symp Proc.* 2012;2012:970-8.
- Weiner MG, Embi PJ. Toward reuse of clinical data for research and quality improvement: the end of the beginning? *Ann Intern Med*. 2009 Sep 1;151(5):359-60.
- Weiss L, Petry NM. Older methadone patients achieve greater durations of cocaine abstinence with contingency management than younger patients. *Am J Addict*. 2013 Mar-Apr;22(2):119-26.*
- Wellner B, Huyck M, Mardis S, Aberdeen J, Morgan A, Peshkin L, Yeh A, Hitzeman J, Hirschman L. Rapidly retargetable approaches to de-identification in medical records. *J Am Med Inform Assoc*. 2007 Sep-Oct;14(5):564-73.
- Wells BJ, Chagin KM, Nowacki AS, Kattan MW. Strategies for handling missing data in electronic health record derived data. *eGEMs*. 2013;1(3):1035.
- Wells KB, Jones L, Chung B, Dixon EL, Tang L, Gilmore J, et al. Community-partnered cluster-randomized comparative effectiveness trial of community engagement and planning or resources for services to address depression disparities. *J Gen Intern Med*. 2013;28(10):1268-78.
- Weng C, Appelbaum P, Hripcsak G, Kronish I, Busacca L, Davidson KW, et al. Using EHRs to integrate research with patient care: promises and challenges. *J Am Med Inform Assoc.* 2012;19(5):684-7.
- Weng C, Gennari JH, Fridsma DB. User-centered semantic harmonization: a case study. *J Biomed Inform*. 2007; 40:353-64.
- Wilcox A, Holve E. Sustaining the effective use of health care data: a message from the editors. *eGEMs*. 2014;2(2):1141.
- Wilcox A, Natarajan K, Weng C. Using Personal Health Records for Automated Clinical Trials Recruitment: the ePalRing Model. *Summit on Translat Bioinforma*. 2009 Mar 1;2009:136-40.
- Wilcox A, Randhawa G, Embi P, Cao H, Kuperman GJ. Sustainability considerations for health research and analytic data infrastructures. *eGEMs*. 2014;2(2):1113.
- Wilcox AB, Gallagher K, Bakken S. Security Approaches in Using Tablet Computers for Primary Data Collection in Clinical Research. *eGEMs*. 2013 Feb 13; 1(1): 1008.
- Wilcox AB, Vawdrey DK, Chen YH, Forman B, Hripcsak G. The evolving use of a clinical data repository: facilitating data access within an electronic medical record. *AMIA Annu Symp Proc.* 2009 Nov 14;2009:701.
- Wilson DS, Dapic V, Sultan DH, August EM, Green BL, Roetzheim R, et al. Establishing the infrastructure to conduct comparative effectiveness research toward the elimination of disparities: a community-based participatory research framework. *Health Promot Pract*. 2013 Nov;14(6):893-900.
- Witt CM, Huang WJ, Lao L, Bm B. Which research is needed to support clinical decision-making on integrative medicine?- Can comparative effectiveness research close the gap? *Chin J Integr Med*. 2012;18(10):723-9.

- Workman T, Maurer M, Carman K. Unresolved tensions in consumer engagement in CER: a US research perspective. *J Comp Eff Res.* 2013;2(2):127-34.
- Wright NC, Warriner AH, Saag KG. Study design considerations for a large simple trial of bisphosphonates. *Curr Opin Rheumatol*. 2013;25(4):517-23.
- Wu AC, Li L, Fung V, Kharbanda EO, Larkin EK, Vollmer WM, et al. Use of leukotriene receptor antagonists are associated with a similar risk of asthma exacerbations as inhaled corticosteroids. J Allergy Clin *Immunol Pract*. 2014 Sep-Oct;2(5):607-13.*
- Wu AW, Kharrazi H, Boulware LE, Snyder CF. Measure once, cut twice--adding patient-reported outcome measures to the electronic health record for comparative effectiveness research. *J Clin Epidemiol*. 2013;66(8 Suppl):S12-20.
- Wu D, Cai Y, Cai J, Liu Q, Zhao Y, Cai J, et al. Comparative effectiveness research on patients with acute ischemic stroke using Markov decision processes. *BMC Med Res Methodol*. 2012;12:23.
- Wu JJ, Liu L, Asgari MM, Curtis JR, Harrold L, Salman C, et al. Initiation of TNF inhibitor therapy and change in physiologic measures in psoriasis. *J Eur Acad Dermatol Venereol*. 2014 Oct;28(10):1380-7.*
- Wu LT, Gersing K, Burchett B, Woody GE, Blazer DG. Substance use disorders and comorbid Axis I and II psychiatric disorders among young psychiatric patients: findings from a large electronic health records database. *Journal of psychiatric research*. 2011;45(11):1453-62.
- Wudhikarn K, Link BK. Comparative effectiveness research in follicular lymphoma: current and future perspectives and challenges. *J Comp Eff Res.* 2014;3(1):95-107.
- Xian Y, Hammill BG, Curtis LH. Data sources for heart failure comparative effectiveness research. *Heart failure clinics*. 2013;9(1):1-13.
- Xie YM, Liao X. [Analysis of GRACE principle for comparative effectiveness research]. *Zhongguo Zhong Xi* Yi Jie He Za Zhi. 2012;32(8):1121-5.
- Yoon S, Wilcox AB, Bakken S. Comparisons among Health Behavior Surveys: Implications for the Design of Informatics Infrastructures that Support Comparative Effectiveness Research. *eGEMs*. 2013 May 31; 1(1): 1021.
- Yue LQ. Regulatory considerations in the design of comparative observational studies using propensity scores. *J Biopharm Stat*. 2012;22(6):1272-9.
- Yun H, Curtis JR. New methods for determining comparative effectiveness in rheumatoid arthritis. *Curr Opin Rheumatol*. 2013;25(3):325-33.
- Zerzan J, Griffith K, Trudnak T, Fairbrother G. Importance of the medicaid medical directors' multistate collaborative for improving care in medicaid. *eGEMs*. 2014;2(1):1061.
- Zhu J, Sharma DB, Gray SW, Chen AB, Weeks JC, Schrag D. Carboplatin and paclitaxel with vs without bevacizumab in older patients with advanced non-small cell lung cancer. JAMA. 2012 Apr 18;307(15):1593-601.*
- Zhu J, Sharma DB, Gray SW, Chen AB, Weeks JC, Schrag D. Comparative Effectiveness of Three Platinumdoublet Chemotherapy Regimens in Elderly Patients with Advanced Non-Small-Cell Lung Cancer. 2013 Jun 1;119(11):2048-60.*
- Zurovac J, Moreno L, Crosson J, Brown R, Schmitz R. Using multifactorial experiments for comparative effectiveness research in physician practices with electronic health record. *eGEMs*. 2013;1(3):1037.
- Papers that include results or findings from ARRA funded CER infrastructure projects are marked with an asterisk (*).