

# AHRQ Quality Indicator-related Publications

The list below presents selected articles from 2002 through 2024 that focus on the use of AHRQ QIs for quality improvement purposes.

2024

Alizadeh, Nasrin, Kimia Vahdat, Sara Shashaani, Julie L. Swann, and Osman Y. Özaltın. ["Risk Score Models for Urinary Tract Infection Hospitalization."](#) PLoS ONE 19, no. 6 (June 14, 2024): 1-16.

Berenson, Robert A., and Laura Skopec. ["How Preventable Hospitalizations Became A Widely Used But Flawed Quality Measure."](#) Accessed September 25, 2024.

Carr, Zyad J., Judy Li, Daniel Agarkov, Makenzie Gazura, and Kunal Karamchandani. ["Estimates of 30-Day Postoperative Pulmonary Complications after Gastrointestinal Endoscopic Procedures: A Retrospective Cohort Analysis of a Health System Population."](#) PLoS ONE 19, no. 2 (February 23, 2024): 1-13.

Giese, Alice, Rasheda Khanam, Son Nghiem, Anthony Staines, Thomas Rosemann, Stefan Boes, and Michael M. Havranek. ["Assessing the Excess Costs of the In-Hospital Adverse Events Covered by the AHRQ's Patient Safety Indicators in Switzerland."](#) PLoS ONE 19, no. 2 (February 5, 2024): e0285285.

Hsu, Chun-Chien, Hsi-Yu Lai, Hung-Yu Lin, Sung-Ching Pan, Nai-Chen Cheng, Liang-Kung Chen, Fei-Yuan Hsiao, and Shu-Wen Lin. ["Recurrence of Diabetic Foot Complications: A Domino Effect Leading to Lethal Consequences—Insights From a National Longitudinal Study."](#) Open Forum Infectious Diseases 11, no. 6 (June 2024): 1-10.

Koehlmoos, Tracey Pérez, Amanda Banaag, Jessica Korona-Bailey, Andrew J Schoenfeld, and Joel S Weissman. ["Avoidable Hospitalizations in the Military Health System, Fiscal Years 2018-2019."](#) Military Medicine 189, no. 9 (October 9, 2024): e2120-26.

Kunchay, Gayatri and Junhie Oh. ["Potentially Preventable Emergency Department Utilization, Rhode Island, 2022."](#) Rhode Island Medical Journal 107, no. 1 (January 2024): 45-48.

Lord, Jennifer and Agricola Odoi. ["Investigation of Geographic Disparities of Diabetes-Related Hospitalizations in Florida Using Flexible Spatial Scan Statistics: An Ecological Study."](#) PLoS ONE 19, no. 6 (June 4, 2024): 1-20.

Lord, Jennifer, and Agricola Odoi. ["Determinants of Disparities of Diabetes-](#)

[Related Hospitalization Rates in Florida: A Retrospective Ecological Study Using a Multiscale Geographically Weighted Regression Approach.](#)

International Journal of Health Geographics 23, no. 1 (January 6, 2024): 1-18.

Meille, Giacomo, Pamela L. Owens, Sandra L. Decker, Thomas M. Selden, Melissa A. Miller, Jade K. Perdue-Puli, Erin N. Grace, Craig A. Umscheid, Joel W. Cohen, and R. Burciaga Valdez. ["COVID-19 Admission Rates and Changes in Care Quality in US Hospitals."](#) JAMA Network Open 7, no. 5 (May 24, 2024): e2413127.

Patel, Sadiq Y., Aaron Baum, and Sanjay Basu. ["Prediction of Non Emergent Acute Care Utilization and Cost among Patients Receiving Medicaid."](#) Scientific Reports 14, no. 1 (January 23, 2024): 1-12.

Rast, Jessica E., Sherira J. Fernandes, Whitney Schott, and Lindsay L. Shea. ["Disparities by Race and Ethnicity in Inpatient Hospitalizations Among Autistic Adults."](#) Journal of Autism & Developmental Disorders 54, no. 5 (May 2024): 1672-79.

Rodriguez, Jorge A., Lipika Samal, Sandya Ganesan, Nina H. Yuan, Matthew Wien, Kenney Ng, Hu Huang, et al. ["Patient Safety Indicators During the Initial COVID-19 Pandemic Surge in the United States."](#) Journal of Patient Safety 20, no. 4 (June 1, 2024): 247-51.

Rondelet, Benoît, Fabian Dehanne, Julie Van Den Bulcke, Dimitri Martins, Asmae Belhaj, Benoît Libert, Pol Leclercq, and Magali Pirson. ["Daly/Cost Comparison in the Management of Peripheral Arterial Disease at 17 Belgian Hospitals."](#) BMC Health Services Research 24, no. 1 (January 19, 2024): 1-19.

Van Wilder, Astrid, Luk Bruyneel, Bianca Cox, Fien Claessens, Dirk De Ridder, and Kris Vanhaecht. ["Rates Of Patient Safety Indicators In Belgian Hospitals Were Low But Generally Higher Than In US Hospitals, 2016-18."](#) Health Affairs 43, no. 9 (September 2024): 1274-83.

2023

Lake, Eileen T., Douglas Staiger, Jessica G. Smith, and Jeannette A. Rogowski. ["The Association of Missed Nursing Care With Very Low Birthweight Infant Outcomes."](#) Medical Care Research and Review 80, no. 3 (2023): 293-302.

Wang, Christina, Karla Lindquist, Harlan Krumholz, and Renee Y. Hsia. ["Trends in the likelihood of receiving percutaneous coronary intervention in a low-volume hospital and disparities by sociodemographic communities."](#) PloS one 18, no. 1 (2023): e0279905

Alabbadi, Sundos, Amy Roach, Joanna Chikwe, and Natalia N. Egorova. 2022. [“National Trend in Failure to Rescue after Cardiac Surgeries.”](#) The Journal of Thoracic and Cardiovascular Surgery, March, S0022-5223(22)00231-8.

Allen, Philip, Farhan Zafar, Junhui Mi, Sarah Crook, Joyce Woo, Natalie Jayaram, Roosevelt Bryant III, et al. [“Risk Stratification for Congenital Heart Surgery for ICD-10 Administrative Data \(RACHS-2\).”](#) Journal of the American College of Cardiology 79, no. 5 (2022): 465-78.

Andersen, Martin, and Anurag Pant. [“Effects of Utilization Management on Health Outcomes: Evidence from Urinary Tract Infections and Community-Acquired Pneumonia.”](#) Expert Review of Pharmacoeconomics & Outcomes Research 0, no. 0 (April 15, 2022): 1-12.

Ang, Darwin, Kenny Nieto, Mason Sutherland, Megan O'Brien, Huazhi Liu, and Adel Elkbuli. 2022. [“Understanding Preventable Deaths in the Geriatric Trauma Population: Analysis of 3,452,339 Patients From the Center of Medicare and Medicaid Services Database.”](#) The American Surgeon 88 (4): 587-96.

Araim, Fawaz, Artem Shmelev, and Gopal C Kowdley. [“Incidence of Complicated Appendicitis as a Metric of Health Care Delivery.”](#) The American Surgeon 88, no. 4 (2022): 597-607.

Badari, A, Z Larned, and B Moore. [“Oncology Hospital Quality Metrics.”](#) In Optimizing Widely Reported Hospital Quality and Safety Grades: An Ochsner Quality and Value Playbook, 275-87. Springer, 2022.

Bhakta, Shivang, Benjamin D Pollock, Young M Erben, Michael A Edwards, Katherine H Noe, Sean C Dowdy, Pablo Moreno Franco, and Jennifer B Cowart. 2022. [“The Association of Acute COVID-19 Infection with Patient Safety Indicator-12 Events in a Multisite Healthcare System.”](#) Journal of Hospital Medicine 17 (5): 350-57.

Blike, George T, Irina M Perreard, Krystal M McGovern, and Susan P McGrath. [“A Pragmatic Method for Measuring Inpatient Complications and Complication-Specific Mortality.”](#) Journal of Patient Safety 18, no. 7 (2022): 659-66.

Bouchard, Megan E, Kristin Kan, Yao Tian, Mia Casale, Tracie Smith, Christopher De Boer, Samuel Linton, Fizan Abdullah, and Hassan MK Ghomrawi. [“Association between Neighborhood-Level Social Determinants of Health and Access to Pediatric Appendicitis Care.”](#) JAMA Network Open 5, no. 2 (2022): e2148865-e2148865.

Brennan, Meghan B., W. Ryan Powell, Farah Kaiksow, Joseph Kramer, Yao Liu, Amy JH Kind, and Christie M. Bartels. 2022. [“Association of Race, Ethnicity, and Rurality With Major Leg Amputation or Death Among Medicare Beneficiaries](#)

[Hospitalized With Diabetic Foot Ulcers.](#) JAMA Network Open 5 (4): e228399-e228399.

Bronstein, Janet M, Lei Huang, John P Shelley, Emily B Levitan, Caroline A Presley, April A Agne, Favel L Mondesir, Kevin R Riggs, Maria Pisu, and Andrea L Cherrington. ["Primary Care Visits and Ambulatory Care Sensitive Diabetes Hospitalizations among Adult Alabama Medicaid Beneficiaries."](#) Primary Care Diabetes 16, no. 1 (2022): 116-21.

Buza, John A., Leah Y. Carreon, Portia A. Steele, Ryan G. Nazar, Steven D. Glassman, and Jeffrey L. Gum. 2022. ["Patient Safety Indicators from a Spine Surgery Perspective: The Importance of a Specialty Specific Clinician Working with the Documentation Team and the Impact to Your Hospital."](#) The Spine Journal: Official Journal of the North American Spine Society, June, S1529-9430(22)00240-6.

Cedrone, Fabrizio, Alessandro Catalini, Lorenzo Stacchini, Nausicaa Berselli, Marta Caminiti, Clara Mazza, Claudia Cosma, Giuseppa Minutolo, and Giuseppe Di Martino. ["The Role of Gender in the Association between Mental Health and Potentially Preventable Hospitalizations: A Single-Center Retrospective Observational Study."](#) International Journal of Environmental Research and Public Health 19, no. 22 (2022): 14691.

Cedrone, F, P Di Giovanni, G Di Martino, F Romano, and T Staniscia. ["Association between Socio-Economic Deprivation and AHRQ Composite Indicator during Pandemic: Fabrizio Cedrone."](#) European Journal of Public Health 32, no. Supplement\_3 (2022): ckac129-154.

D'Apuzzo, Michele R., Matthew D. Higgins, Wendy M. Novicoff, and James A. Browne. ["Hospital Volume as a Source of Variation for Major Complications and Early In-Hospital Mortality After Total Joint Arthroplasty."](#) Arthroplasty Today 16 (May 26, 2022): 53-56.

de Oliveira, Claire, Bryan Tanner, Patricia Colton, and Paul Kurdyak. ["Understanding the scope of preventable acute care spending among patients with eating disorders."](#) International Journal of Eating Disorders, 1- 32.

Demer, melissa redier-, and Geoffrey Colby. 2022. ["Abstract TMP45: Potential For Unwarranted Poor Institutional Patient Safety Scores From Inclusion Of Endovascular Thrombectomy In Us National Ahrq Patient Safety Indicator Program."](#) Stroke 53 (Suppl\_1): ATMP45-ATMP45.

Duveau, C, C Wets, K Delaruelle, S Demoulin, M Dauvrin, B Lepièce, M Ceuterick, S De Maesschalck, P Bracke, and V Lorant. ["Factors Influencing General Practitioners' Decisions in Migrant Patients with Mental Health Disorder: Camille Duveau."](#) European Journal of Public Health 32, no. Supplement\_3 (2022): ckac129-155.

Enumah, Samuel J., Andrew S. Resnick, and David C. Chang. [“Association of Measured Quality with Financial Health among U.S. Hospitals.”](#) PLoS ONE 17, no. 4 (April 20, 2022): e0266696.

Hamed, Motaz, Anna-Laura Potthoff, Julian P. Layer, David Koch, Valeri Borger, Muriel Heimann, Davide Scafa, et al. [“Benchmarking Safety Indicators of Surgical Treatment of Brain Metastases Combined with Intraoperative Radiotherapy: Results of Prospective Observational Study with Comparative Matched-Pair Analysis.”](#) Cancers 14, no. 6 (March 16, 2022): 1515.

Hegland, Thomas A, Pamela L Owens, and Thomas M Selden. [“New Evidence on Geographic Disparities in United States Hospital Capacity.”](#) Health Services Research 57, no. 5 (2022): 1006-19.

Henderson, Morgan, Fei Han, Chad Perman, Howard Haft, and Ian Stockwell. 2022. [“Predicting Avoidable Hospital Events in Maryland.”](#) Health Services Research 57 (1): 192-99.

Henking, C. [“Socio-Economic Inequalities in Mental Health: A New Framework and Analysis across 113 Countries: Christoph Henking.”](#) European Journal of Public Health 32, no. Supplement\_3 (2022): ckac129-156.

Khan, Anam, Paul Lin, Neil Kamdar, Mark Peterson, and Elham Mahmoudi. [“Potentially Preventable Hospitalizations and Use of Preventive Services among People with Multiple Sclerosis: Large Cohort Study, USA.”](#) Multiple Sclerosis and Related Disorders 68 (2022): 104105.

Kilaru, Austin S, Nicholas Illenberger, Zachary F Meisel, Peter W Groeneveld, Manqing Liu, Angira Mondal, Nandita Mitra, and Raina M Merchant. [“Incidence of Timely Outpatient Follow-Up Care After Emergency Department Encounters for Acute Heart Failure.”](#) Circulation: Cardiovascular Quality and Outcomes 15, no. 9 (2022): e009001.

Lemdani, Mehdi S., Hannaan S. Choudhry, Christopher C. Tseng, Christina H. Fang, Donata Sukyte-Raube, Prayag Patel, and Jean Anderson Eloy. [“Impact of Facility Volume on Patient Safety Indicator Events After Transsphenoidal Pituitary Surgery.”](#) Otolaryngology-Head and Neck Surgery, April 5, 2022, 01945998221089826.

Locey, Kenneth J., Thomas A. Webb, Brian Stein, Sana Farooqui, and Bala Hota. [“Variation in the Reporting of Elective Surgeries and Its Influence on Patient Safety Indicators.”](#) The Joint Commission Journal on Quality and Patient Safety, May 20, 2022.

Mahmoudi, Elham, Paul Lin, Samantha Ratakonda, Anam Khan, Neil Kamdar, and Mark D. Peterson. 2022. [“Preventative Services Use and Risk Reduction for Potentially Preventable Hospitalizations Among People With Traumatic Spinal Cord Injury.”](#) Archives of Physical Medicine and Rehabilitation 103 (7): 1255-62.

Milliren, Carly E., George Bailey, Dionne A. Graham, and Al Ozonoff. ["Relationships Between Pediatric Safety Indicators Across a National Sample of Pediatric Hospitals: Dispelling the Myth of the 'Safest' Hospital."](#) Journal of Patient Safety 18, no. 4 (June 1, 2022): e741-46.

Minegishi, Taeko, Gary J. Young, Kristin M. Madison, and Steven D. Pizer. ["Regional Economic Conditions and Preventable Hospitalization Among Older Patients With Diabetes."](#) Medical Care 60, no. 3 (March 1, 2022): 212-18.

Mishra, Abhay Nath, Youyou Tao, Mark Keil, and Jeong-ha Oh. ["Functional IT Complementarity and Hospital Performance in the United States: A Longitudinal Investigation."](#) Information Systems Research 33, no. 1 (2022): 55-75.

Moosazadeh, Mohammad, Pouya Ifaei, Amir Saman Tayerani Charmchi, Somayeh Asadi, and ChangKyoo Yoo. ["A Machine Learning-Driven Spatio-Temporal Vulnerability Appraisal Based on Socio-Economic Data for COVID-19 Impact Prevention in the US Counties."](#) Sustainable Cities and Society 83 (2022): 103990.

Mulligan, Karen, Seema Choksy, Catherine Ishitani, and John A Romley. ["What Do Nonprofit Hospitals Reward? An Examination of CEO Compensation in Nonprofit Hospitals."](#) Plos One 17, no. 3 (2022): e0264712.

Ochoa, Juan G Diaz, and Faizan E Mustafa. ["Graph Neural Network Modelling as a Potentially Effective Method for Predicting and Analyzing Procedures Based on Patients' Diagnoses."](#) Artificial Intelligence in Medicine 131 (2022): 102359.

Orabi, Danny, Robert Naples, Dominique Brundidge, Karen Snyder, Moheb Gohar, Deepak Agarwal, Srinivasa Govindarajan, et al. 2022. ["Postoperative Respiratory Failure After Elective Abdominal Surgery: A Case-Control Study."](#) The Journal of Surgical Research 274 (June): 160-68.

Ramachandran, Sujith, Yiqiao Zhang, Tyler J Dunn, Swarnali Goswami, Eric Pittman, Georgianna Mann, and Annie Cafer. ["Impact of Food Affordability on Diabetes-Related Preventable Hospitalization."](#) American Journal of Managed Care 28, no. 11 (2022).

Ramalho, Andre, Julio Souza, Pedro Castro, Mariana Lobo, Paulo Santos, and Alberto Freitas. ["Portuguese Primary Healthcare and Prevention Quality Indicators for Diabetes Mellitus-a Data Envelopment Analysis."](#) International Journal of Health Policy and Management 11, no. 9 (2022): 1725-34.

Ray, Monika, and Patrick S. Romano. 2022. ["266 Inpatient Quality Indicators Risk-Adjustment Using Interactions Selected by Machine Learning Methods."](#) Journal of Clinical and Translational Science 6 (s1): 44-45.

Ray, Monika, Sharon Zhao, Sheng Wang, Alex Bohl, and Patrick S Romano. ["Hierarchical Group Lasso Regression for Efficiently Identifying](#)



[Interactions in Healthcare Risk-Adjustment Models.](#) 2022. (Preprint, not peer reviewed)

Richie, Cheryl D, Jennifer T Castle, George A Davis, Joseph L Bobadilla, Qiang He, Mary B Moore, Tricia A Kellenbarger, and Eleftherios S Xenos. 2022. "[Modes of Failure in Venous Thromboembolism Prophylaxis.](#)" *Angiology*, no. 4ua, 0203706: 33197221083724.

Roman, Susan B, Lacey Whitmire, Lori Reynolds, Saamir Pasha, Anthony Brockman, and Benjamin J Oldfield. "[Demographic and Clinical Correlates of the Cost of Potentially Preventable Hospital Encounters in a Community Health Center Cohort.](#)" *Population Health Management* 25, no. 5 (2022): 625-31.

Romley, John A, Abe Dunn, Dana Goldman, and Neeraj Snood. "[Big Data for Twenty-First-Century Economic Statistics. Studies in Income and Wealth 79.](#)" University of Chicago Press, 2022.

Rotter, Jason, Keri Calkins, Kate Stewart, Isabel Platt, Rachel Machta, Keith Kranker, Nancy McCall, and Greg Peterson. "[Evaluation of the Maryland Total Cost of Care Model: Quantitative-Only Report for the Model's First Three Years \(2019 to 2021\).](#)" Centers for Medicare & Medicaid Services, 2022.

Saxena, Anshul, Venkataraghavan Ramamoorthy, Muni Rubens, Peter McGranaghan, Emir Veledar, and Khurram Nasir. 2022. "[Trends in Quality of Primary Care in the United States, 2007-2016.](#)" *Scientific Reports* 12 (1): 1982.

Spain, C. Victor, Parul Dayal, Yingjie Ding, Carlos Iribarren, Theodore A. Omachi, and Hubert Chen. 2022. "[Usage of Long-Acting Muscarinic Antagonists and Biologics as Add-on Therapy for Patients in the United States with Moderate-to-Severe Asthma.](#)" *The Journal of Asthma: Official Journal of the Association for the Care of Asthma* 59 (6): 1237-47.

Stefanou, Amalia, Camden Gardner, and Ilan Rubinfeld. 2022. "[A Retrospective Study of the Effects of Minimally Invasive Colorectal Surgery on Patient Safety Indicators across a Five-Hospital System.](#)" *Surgical Endoscopy*, March.

Stocking, Jacqueline C, Christiana Drake, J Matthew Aldrich, Michael K Ong, Alpesh Amin, Rebecca A Marmor, Laura Godat, et al. 2022. "[Outcomes and Risk Factors for Delayed-Onset Postoperative Respiratory Failure: A Multi-Center Case-Control Study by the University of California Critical Care Research Collaborative \(UC3RC\).](#)" *BMC Anesthesiology* 22 (1): 146.

Stockwell, David C., and Paul Sharek. 2022. [Diagnosing Diagnostic Errors: It's Time to Evolve the Patient Safety Research Paradigm.](#) BMJ Quality & Safety. BMJ Publishing Group Ltd.

Texas External Quality Review Organization. "[External Quality Review of Texas Medicaid & CHIP Managed Care Summary of Activities Report.](#)" Austin, Texas: Texas Department of Health and Human Services, 2022.

Tkacz, Joseph, Kristin A Evans, Daniel R Touchette, Edward Portillo, Charlie Strange, Anthony Staresinic, Norbert Feigler, Sushma Patel, and Michael Pollack. ["PRIMUS-Prompt Initiation of Maintenance Therapy in the US: A Real-World Analysis of Clinical and Economic Outcomes among Patients Initiating Triple Therapy Following a COPD Exacerbation."](#) International Journal of Chronic Obstructive Pulmonary Disease, 2022, 329-42.

Trout, Kate E, Li-Wu Chen, Fernando A Wilson, Hyo Jung Tak, and David Palm. 2022. ["The Impact of Electronic Health Records and Meaningful Use on Inpatient Quality."](#) Journal for Healthcare Quality : Official Publication of the National Association for Healthcare Quality 44 (2): e15-23.

Twersky, Sylvia E., and Adam Davey. ["National Hospitalization Trends and the Role of Preventable Hospitalizations among Centenarians in the United States \(2000-2009\)."](#) International Journal of Environmental Research and Public Health 19, no. 2 (January 2022): 795.

Ukert, Benjamin, Stephen Esquivel-Pickett, M. D. Manish Oza, PhD Andrea DeVries, and M. A. Gosia Sylwestrzak. 2022. ["Disparities in Health Care Use Among Low-Salary and High-Salary Employees."](#) The American Journal of Managed Care, May 2022, 28 (5).

Waters, Teresa M, Natalie Burns, Cameron M Kaplan, Ilana Graetz, Joseph Benitez, Roberto Cardarelli, and Michael J Daniels. ["Combined Impact of Medicare's Hospital Pay for Performance Programs on Quality and Safety Outcomes Is Mixed."](#) BMC Health Services Research 22, no. 1 (2022): 958.

Weeks, William B., Huabo Wang, Jeremy Smith, and James N. Weinstein. 2022. ["Ambulatory Care Sensitive Condition Admission Rates in Younger and Older Traditional Medicare and Medicare Advantage Populations, 2011-2019."](#) Journal of General Internal Medicine 37 (7): 1814-17.

Wood, Shannon M, Molin Yue, Sandra V Kotsis, Anne V Seyferth, Lu Wang, and Kevin C Chung. ["Preventable Hospitalization Trends Before and After the Affordable Care Act."](#) AJPM Focus 1, no. 2 (2022): 100027.

Wooldridge, Jennalee S, Fernanda S Rossi, Coral Anderson, Natalie M Yarish, Ambri Pukhraj, and Ranak B Trivedi. ["Systematic Review of Dyadic Interventions for Ambulatory Care Sensitive Conditions: Current Evidence and Key Gaps."](#) Clinical Gerontologist, 2022, 1-29.

Youn, Hin Moi, Dong-Woo Choi, Sung-In Jang, and Eun-Cheol Park. ["Disparities in Diabetes-Related Avoidable Hospitalization among Diabetes Patients with Disability Using a Nationwide Cohort Study."](#) Scientific Reports 12 (February 2, 2022): 1794.

Youn, Hin Moi, Dong-Woo Choi, Sung-In Jang, and Eun-Cheol Park. ["Disparities in Diabetes-Related Avoidable Hospitalization among Diabetes Patients with"](#)



[Disability Using a Nationwide Cohort Study.](#) Scientific Reports 12, no. 1 (2022): 1794.

Zhilkova, Anna, Shadi Chamany, Charlene Ngamwajasat, Samantha De Leon, Winfred Wu, and Tsu-Yu Tsao. [“Medication Nonuse and Hospital Utilization: Medicaid Participants With Type 2 Diabetes in New York City.”](#) American Journal of Preventive Medicine 63, no. 4 (2022): 543-51.

Zrelak, Patricia A., Garth H. Utter, Kathryn M. McDonald, Robert L. Houchens, Sheryl M. Davies, Halcyon G. Skinner, Pamela L. Owens, and Patrick S. Romano. 2022. [“Incorporating Harms into the Weighting of the Revised Agency for Healthcare Research and Quality Patient Safety for Selected Indicators Composite \(Patient Safety Indicator 90\).”](#) Health Services Research 57 (3): 654-67.

2021

Baer, Rebecca J, Nichole Nidey, Gretchen Bandoli, Brittany D Chambers, Christina D Chambers, Sky Feuer, Deborah Karasek, et al. [“Risk of Early Birth among Women with a Urinary Tract Infection: A Retrospective Cohort Study.”](#) American Journal of Perinatology Reports 11, no. 01 (2021): e5–14.

Chen, Jie, Ivy Benjenk, Deanna Barath, Andrew C. Anderson, and Charles F. Reynolds III. [“Disparities in Preventable Hospitalization Among Patients with Alzheimer Diseases.”](#) American Journal of Preventive Medicine, vol. 60, no. 5, 2021, pp. 595–604.

Chen, Yiwei, and Stephanie Lee. [“User-Generated Physician Ratings and Their Effects on Patients' Physician Choices: Evidence from Yelp.”](#) Available at SSRN 3796740, 2021.

Chi, Winnie, Elena Andreyeva, Yongkang Zhang, Rainu Kaushal, and Kevin Haynes. [“Neighborhood-level Social Determinants of Health Improve Prediction of Preventable Hospitalization and Emergency Department Visits Beyond Claims History.”](#) Population Health Management (2021).

Di Martino, Giuseppe, Pamela Di Giovanni, Fabrizio Cedrone, Michela D'Addezio, Francesca Meo, Piera Scampoli, Ferdinando Romano, and Tommaso Staniscia. [“The Burden of Diabetes-Related Preventable Hospitalization: 11-Year Trend and Associated Factors in a Region of Southern Italy.”](#) Healthcare (Basel, Switzerland) 9, no. 8 (2021).

Flattau, Anna, Molly L. Tanenbaum, Jeffrey S. Gonzalez, Cary Andrews, Stephanie Twomey, Loretta Vileikyte, and M. Diane McKee. [“Barriers to Prevention and Timely Presentation of Diabetic Foot Ulcers: Perspectives of Patients from a High-risk Urban Population in the United States.”](#) Journal of Health Care for the Poor and Underserved 32, no. 3 (2021): 1554-1565.

Gillespie, Suzanne M., Jiejun Li, Jurgis Karuza, Cari Levy, Stuti Dang, Tobie Olsan, Bruce Kinoshian, and Orna Intrator. "[Factors Associated with Hospitalization by Veterans in Home-Based Primary Care.](#)" Journal of the American Medical Directors Association 22, no. 5 (2021): 1043-1051.

Jiang, H Joanna, Kathryn R Fingar, Lan Liang, Rachel M Henke, and Teresa P Gibson. "[Quality of Care Before and After Mergers and Acquisitions of Rural Hospitals.](#)" JAMA Network Open 4, no. 9 (2021): e2124662–e2124662.

Logan, Merranda S, Laura C Myers, Hojjat Salmasian, David Michael Levine, Christopher G Roy, Mark E Reynolds, Luke Sato, et al. "[Expert Consensus on Currently Accepted Measures of Harm.](#)" Journal of Patient Safety 17, no. 8 (2021): e1726–31.

Lut, Irina, Kate Lewis, Linda Wijlaars, Ruth Gilbert, Tiffany Fitzpatrick, Hong Lu, Astrid Guttmann et al. "[Challenges of using asthma admission rates as a measure of primary care quality in children: An international comparison.](#)" Journal of Health Services Research & Policy (2021): 13558196211012732.

Machta, Rachel, Gregory Peterson, Jason Rotter, Kate Stewart, Shannon Heitkamp, Isabel Platt, Danielle Whicher, et al. "[Evaluation of the Maryland Total Cost of Care Model: Implementation Report.](#)" Mathematica Policy Research, 2021.

Masonbrink, Abbey R, Mitch Harris, Matt Hall, Sunitha Kaiser, Alexander H Hogan, Kavita Parikh, Nicholas A Clark, and Shawn Rangel. "[Safety Events in Children's Hospitals During the COVID-19 Pandemic.](#)" Hospital Pediatrics 11, no. 6 (2021): e95–100.

Musick, Hugh, Ann Kauth, Vincent L Freeman, Sanjib Basu, Heng Wang, Ronald Hershow, Kshitij Gotiwale, Joel Flax-Hatch, Jenni Schneiderman, and Yan Gao. "[Transformation Data & Community Needs Report \(South Cook\)](#)" 2021.

Nizamuddin, Sarah L, Atul Gupta, Usman Latif, Junaid Nizamuddin, Avery Tung, Mohammed M Minhaj, Jeffrey Apfelbaum, and Sajid S Shahul. "[A Predictive Model for Pediatric Postoperative Respiratory Failure: A National Inpatient Sample Study.](#)" Journal of Intensive Care Medicine 36, no. 7 (2021): 798–807.

Padula, William V, Madhuram Nagarajan, Patricia M Davidson, and Peter J Pronovost. "[Investing in Skilled Specialists to Grow Hospital Infrastructure for Quality Improvement.](#)" Journal of Patient Safety 17, no. 1 (2021): 51–55.

Palacios-Ceña, Domingo, Lidiane Lima Florencio, Valentín Hernández-Barrera, Cesar Fernandez-de-Las-Peñas, Javier de Miguel-Diez, David Martínez-Hernández, David Carabantes-Alarcón, Rodrigo Jimenez-García, Ana Lopez-de-Andres, and Marta Lopez-Herranz. "[Trends in Incidence and Outcomes of Hospitalizations for Urinary Tract Infection among Older People in Spain \(2001–2018\).](#)" Journal of Clinical Medicine 10, no. 11 (2021): 2332.

Ramalho, Andre, P. Castro, M. Lobo, Julio Souza, Paulo Santos, and Alberto Freitas. "[Integrated quality assessment for diabetes care in Portuguese primary health care using prevention quality indicators.](#)" Primary Care Diabetes 15, no. 3 (2021): 507-512.

Roman, Susan B., Lacey Whitmire, Lori Reynolds, Saamir Pasha, Anthony Brockman, and Benjamin J. Oldfield. "[Demographic and Clinical Correlates of the Cost of Potentially Preventable Hospital Encounters in a Community Health Center Cohort.](#)" Population Health Management (2021).

Schechter, Sarah, Sravya Jaladanki, Jonathan Rodean, Brittany Jennings, Marquita Genies, Michael D Cabana, and Sunitha Vemula Kaiser. "[Sustainability of Pediatric Asthma Care Quality in Community Hospitals after Ending a National Quality Improvement Collaborative.](#)" BMJ Quality & Safety, 2021.

Shah, Mona, Cyrus Zhu, and Kael Wherry. "[811-P: Durable Insulin Pumps vs. Multiple Daily Injections for Type 1 Diabetes: Health Care Utilization and A1C.](#)" Diabetes 70: S1 (2021).

Spain, C. Victor, Parul Dayal, Yingjie Ding, Carlos Iribarren, Theodore A. Omachi, and Hubert Chen. "[Usage of long-acting muscarinic antagonists and biologics as add-on therapy for patients in the United States with moderate-to-severe asthma.](#)" Journal of Asthma just-accepted (2021): 1-12.

Tian, Yao, Martha-Conley E. Ingram, Matt Hall, and Mehul V. Raval. "[ICD-10 Transition Influences Trends in Perforated Appendix Admission Rate.](#)" The Journal of Surgical Research 266 (2021): 345–51.

Trout, Kate E, Li-Wu Chen, Fernando A Wilson, Hyo Jung Tak, and David Palm. "[The Impact of Electronic Health Records and Meaningful Use on Inpatient Quality.](#)" Journal for Healthcare Quality : Official Publication of the National Association for Healthcare Quality, no. bbo, 9202994 (2021).

Ulimwengu, John, and Aziza Kibonge. "[Spatial Spillover and COVID-19 Spread in the US.](#)" BMC Public Health 21, no. 1 (2021): 1–11.

Zhuang, Thompson, Austin Y Feng, Lauren M Shapiro, Serena S Hu, Michael Gardner, and Robin N Kamal. "[Is Uncontrolled Diabetes Mellitus Associated with Incidence of Complications After Posterior Instrumented Lumbar Fusion? A National Claims Database Analysis.](#)" Clinical Orthopaedics and Related Research®, 2021, 10–1097.

Zogg, Cheryl K, Judith H Lichtman, Michael K Dalton, Peter A Learn, Andrew J Schoenfeld, Tracey Perez Koehlmoos, Joel S Weissman, and Zara Cooper. "[In Defense of Direct Care: Limiting Access to Military Hospitals Could Worsen Quality and Safety.](#)" Health Services Research, October 4, 2021.

Davies S, Schultz E, Raven M, et al. Development and validation of the Agency for Healthcare Research and Quality Measures of Potentially Preventable Emergency Department (ED) Visits: The ED Prevention Quality Indicators for General Health Conditions. *Health Serv Res.* 2017 Oct;52(5):1667-84. PMID: 28369814. doi:10.1111/1475-6773.12687. Epub 2017 Mar 30.

Fox N, Willcutt R, Elberfeld A, et al. A critical review of patient safety indicators attributed to trauma surgeons. *Injury.* 2017 Sep;48(9):1994-8. PMID: 28416153. doi:10.1016/j.injury.2017.03.051. Epub 2017 Apr 1.

Goode V, Phillips E, DeGuzman P, et al. A patient safety dilemma: obesity in the surgical patient. *AANA J.* 2016 Dec;84(6):404-12. PMID: 28235173.

Hitti J, Walker S, Wagner C, et al. 839: Admission severity of illness correlates with the primary term singleton vertex cesarean delivery rate among hospitals in Washington state, 2010-14. *Am J Obstet Gynecol.* 2017 Jan. 216(1 Suppl): S481. doi: <https://doi.org/10.1016/j.ajog.2016.11.748>.

Narain W. Assessing estimates of patient safety derived from coded data. *J Healthc Qual.* 2017 Jul/Aug;39(4):230-42. PMID: 28658091. doi:10.1097/jhq.000000000000088.cd

Sebastian AS, Polites SF, Glasgow AE, et al. Current quality measurement tools are insufficient to assess complications in orthopedic surgery. *J Hand Surg Am.* 2017 Jan;42(1):10-5 e1. PMID: 27889092. doi:10.1016/j.jhsa.2016.09.014.

Shields L, Walker S, Wiesner S, et al. Cesarean section rates: side-by-side comparison of three national inpatient quality indicators. *Am J Obstet Gynecol.* 2017 Jan;216(1):S37-8. doi: <https://doi.org/10.1016/j.ajog.2016.11.936>.

Short HL, Heiss KF, Wulkan ML, et al. Clinical validity and relevance of accidental puncture or laceration as a patient safety indicator for children. *J Pediatr Surg.* 2017 Jan;52(1):172-6. PMID: 27842957. doi:10.1016/j.jpedsurg.2016.10.043.

2016

Engineer LD, Winters BD, Weston CM, et al. Hospital characteristics and the Agency for Healthcare Research and Quality Inpatient Quality Indicators: a systematic review. *J Healthc Qual.* 2016 SepOct;38(5):304-13. PMID: 26562350. doi:10.1097/jhq.000000000000015.

Goode V, Phillips E, DeGuzman P, et al. A patient safety dilemma: obesity in the surgical patient. *AANA J.* 2016 Dec;84(6):404-12. PMID: 28235173.

Hefner JL, Huerta TR, McAlearney AS, et al. Navigating a ship with a broken compass: evaluating standard algorithms to measure patient safety. *J Am Med Inform Assoc.* 2017 Mar 1;24(2):310-5. PMID: 27578751. doi:10.1093/jamia/ocw126.

John J, Seifi A. Incidence of iatrogenic pneumothorax in the United States in teaching vs. nonteaching hospitals from 2000 to 2012. *J Crit Care*. 2016 Aug;34:66-8. PMID: 27288612. doi:10.1016/j.jcrc.2016.03.013.

Lau BD, Arnaoutakis GJ, Streiff MB, et al. Individualized performance feedback to surgical residents improves appropriate venous thromboembolism prophylaxis prescription and reduces potentially preventable VTE: a prospective cohort study. *Ann Surg*. 2016 Dec;264(6):1181-7. PMID: 26649586. doi:10.1097/sla.0000000000001512.

Moghavem N, McDonald K, Ratliff JK, et al. Performance measures in neurosurgical patient care: differing applications of patient safety indicators. *Med Care*. 2016 Apr;54(4):359-64. PMID: 26759981. doi:10.1097/mlr.0000000000000490.

Patel KK, Vakharia N, Pile J, et al. Preventable admissions on a general medicine service: prevalence, causes and comparison with AHRQ Prevention Quality Indicators-a cross- sectional analysis. *J Gen Intern Med*. 2016 Jun;31(6):597-601. PMID: 26892320. doi:10.1007/s11606-016-3615-4. Epub 2016 Feb. 18.

Riley W, Begun JW, Meredith L, et al. Integrated approach to reduce perinatal adverse events: standardized processes, interdisciplinary teamwork training, and performance feedback. *Health Serv Res*. 2016 Dec;51(Suppl 3):2431-52. PMID: 27807864. doi:10.1111/1475-6773.12592.

2015

Andrews RM, Moy E. Racial differences in hospital mortality for medical and surgical admissions: variations by patient and hospital characteristics. *Ethn Dis*. 2015 Winter;25(1):90-7. PMID: 25812258.

Ang D, McKenney M, Norwood S, et al. Benchmarking statewide trauma mortality using Agency for Healthcare Research and Quality's patient safety indicators. *J Surg Res*. 2015 Sep;198(1):34-40. PMID: 26115808. doi: 10.1016/j.jss.2015.05.053. Epub 2015 Jun 3.

Najjar P, Kachalia A, Sutherland T, et al. A multidisciplinary three-phase approach to improve the clinical utility of patient safety indicators. *Qual Manag Health Care*. 2015 Apr- Jun;24(2):62-8. PMID: 25830613. doi:10.1097/qmh.0000000000000057.

Padula WV, Makic MBF, Mishra MK, et al. Comparative effectiveness of quality improvement interventions for pressure ulcer prevention in academic medical centers in the United States. *Jt Comm J Qual Patient Saf*. 2015 Jun;41(6):246-56. PMID: 25990890. doi: [https://doi.org/10.1016/S1553-7250\(15\)41034-7](https://doi.org/10.1016/S1553-7250(15)41034-7).

Polites SF, Habermann EB, Zarroug AE, et al. A comparison of two quality measurement tools in pediatric surgery-the American College of Surgeons National Surgical Quality Improvement Program Pediatric versus the Agency for



Healthcare Research and Quality Pediatric Quality Indicators. J Pediatr Surg. 2015 Apr;50(4):586-90. PMID: 25840068. doi:10.1016/j.jpedsurg.2014.10.049.

2014

Mull HJ, Borzecki AM, Loveland S, et al. Detecting adverse events in surgery: comparing events detected by the Veterans Health Administration Surgical Quality Improvement Program and the Patient Safety Indicators. Am J Surg. 2014 Apr;207(4):584-95. PMID: 24290888. doi:10.1016/j.amjsurg.2013.08.031.

Staggs VS, Mion LC, Shorr RI. Assisted and unassisted falls: different events, different outcomes, different implications for quality of hospital care. Jt Comm J Qual Patient Saf. 2014 Aug;40(8):358-64. PMID: 25208441.

2013

Chen Q, Hanchate A, Shwartz M, et al. Comparison of the Agency for Healthcare Research and Quality Patient Safety Indicator rates among veteran dual users. Am J Med Qual. 2014 JulAug;29(4):335-43. PMID: 23969475. doi:10.1177/1062860613499402. Epub 2013 Aug 22.

Hussey PS, Burns RM, Weinick RM, et al. Using a hospital quality improvement toolkit to improve performance on the AHRQ quality indicators. Jt Comm J Qual Patient Saf. 2013 Apr;39(4):177-84. PMID: 23641537.

Mc Donnell C. Interventions guided by analysis of quality indicators decrease the frequency of laryngospasm during pediatric anesthesia. Pediatr Anesth. 2013 Jul;23(7):579-87. PMID: 23145821. doi:10.1111/pan.12070.

Stotts NA, Brown DS, Donaldson NE, et al. Eliminating hospital-acquired pressure ulcers: within our reach. Adv Skin Wound Care. 2013 Jan;26(1):13-8. PMID: 23263395. doi:10.1097/01.asw.0000425935.94874.41.

Taylor JA, Pandian RS, Mao L, et al. Using inpatient hospital discharge data to monitor patient safety events. J Healthc Risk Manag. 2013;32(4):26-33. PMID: 23609974. doi:10.1002/jhrm.21107.

2012

Anders R, Bean N, Fancher D, Smead D, Rosenthal P, Bader J. An Examination of Disparities in a Hispanic Serving Hospital Using the Agency of Healthcare Research and Quality Inpatient Quality Indicators.

Berry EA, Kelton CM, Guo JJ, Heaton PC. Adaptation and application of the Agency for Healthcare Research and Quality's asthma admission rate pediatric quality indicator to Ohio Medicaid claims data. Res Social Adm Pharm. 2012 Jun 12. [Epub ahead of print] PubMed PMID: 22695214

Borzecki AM, Cowan AJ, Cevasco M, Shin MH, Shwartz M, Itani K, et al. Is Development of Postoperative Venous Thromboembolism Related to Thromboprophylaxis Use? A Case- Control Study in the Veterans Health

Administration. Joint Commission Journal on Quality & Patient Safety. 2012;38(8):348-57

Clancy CM. Let the data be our guide: trends and tools for research on health care utilization. Health Econ. 2012 Jan;21(1):19-23. doi: 10.1002/heal.1809. PubMed PMID: 22147624.

Drösler SE, Romano PS, Tancredi DJ, Klazinga NS. International comparability of Patient Safety Indicators in 15 OECD member countries: A methodological approach of adjustment by secondary diagnoses. Health Services Research; 2012, 47(1 Pt 1):275-92

Farley D, Weinick R, Mayer L, Cerese J, Burns R, Hussey P. Helping Hospitals Deliver Better Care: A New Toolkit for Quality Improvement. RAND, 2012.

Hernandez-Boussard T, McDonald KM, Morton JM, Dalman RL, Bech FR. Determinants of Adverse Events in Vascular Surgery. Journal of the American College of Surgeons.

Januel J. Systematic review of Patient Safety Indicators (PSI) Validation Studies & Focus on PSI 12. Paris, France 2012.

Kennedy A, Bakir C, Brauer C. Quality indicators in pediatric orthopaedic surgery: a systematic review. Clin Orthop Relat Res. 2012;470(4):1124-32. PMID: 21912995. doi:10.1007/s11999-0112060-2.

Koch CG, Li L, Hixson E, Tang A, Phillips S, Henderson JM. What Are the Real Rates of Postoperative Complications: Elucidating Inconsistencies Between Administrative and Clinical Data Sources. Journal of the American College of Surgeons.

Li Z, Armstrong EJ, Parker JP, Danielsen B, Romano PS. Hospital variation in readmission after coronary artery bypass surgery in California. Circulation: Cardiovascular Quality & Outcomes. 2012;5(5):729-37

Parry G, Cline A, Goldmann D. Deciphering harm measurement. JAMA : the journal of the American Medical Association. 2012;307(20):2155-6. Epub 2012/05/24.

Romano P. Proposed Expansion of the Patient Safety Indicator Set 2012.

Rosen AK, Itani KM, Cevasco M, Kaafarani HM, Hanchate A, Shin M, et al. Validating the patient safety indicators in the Veterans Health Administration: do they accurately identify true safety events? Medical Care. 2012;50(1):74-85.

Ryan AM, Doran T. The effect of improving processes of care on patient outcomes: evidence from the United Kingdom's quality and outcomes framework. Med Care. 2012 Mar;50(3):191-9. PubMed PMID: 22329994.

Sadeghi B, Maynard G, Strater AL, Hensley L, Cerese J, White RH, Romano PS. Improved coding of postoperative deep vein thrombosis and pulmonary embolism in administrative data (AHRQ Patient Safety Indicator 12) after introduction of new ICD-9-CM diagnosis codes. *Medical Care*; in press.

Sadeghi B, Romano PS, Maynard G, Strater AL, Hensley L, Cerese J, White RH. Mechanical and suboptimal pharmacologic prophylaxis and delayed mobilization but not morbid- obesity are associated with venous thromboembolism after total knee arthroplasty: A case- control study. *Journal of Hospital Medicine*; Oct 5 2012. [Epub ahead of print].

Sills MR, Ginde AA, Clark S, Camargo CA Jr. Multicenter analysis of quality indicators for children treated in the emergency department for asthma. *Pediatrics*. 2012 Feb;129(2):e325-32. Epub 2012 Jan 16. PubMed PMID: 22250025; PubMed Central PMCID: PMC3269108.

Sinaiko AD, Eastman D, Rosenthal MB. How report cards on physicians, physician groups, and hospitals can have greater impact on consumer choices. *Health Aff (Millwood)*. 2012 Mar;31(3):602-11. PubMed PMID: 22392672.

Smith EG, Zhao S, Rosen AK. Using the patient safety indicators to detect potential safety events among US veterans with psychotic disorders: clinical and research implications. *International Journal for Quality in Health Care*. 2012;24(4):321-9.

Smith RB, Dynan L, Fairbrother G, Chabi G, Simpson L. Medicaid, Hospital Financial Stress, and the Incidence of Adverse Medical Events for Children. *Health Services Research*. 2012;47(4), 1621-1641.

Tietze MF, Doughty P, Alberico JG, et al. Deep vein thrombosis/pulmonary embolism: a survey of self-reported prevention practices among hospitals. *J Healthc Qual*. 2012 Jul- Aug;34(4):15-23. PMID: 22059854. doi:10.1111/j.1945-1474.2011.00146.

Tsang C, Palmer W, Bottle A, et al. A review of patient safety measures based on routinely collected hospital data. *Am J Med Qual*. 2012 Mar-Apr;27(2):154-69. PMID: 21896785. doi:10.1177/1062860611414697.

Utter GH, Cuny J, Strater A, Silver MR, Hossli S, Romano PS. Variation in Academic Medical Centers' Coding Practices for Postoperative Respiratory Complications: Implications for the AHRQ Postoperative Respiratory Failure Patient Safety Indicator. *Med Care*. 2012 Sep;50(9):792-800. PubMed PMID: 22643197. doi:10.1097/MLR.0b013e31825a8b69.

Utter G, Cuny J, Strater A, Silver M, Hossli S, Romano PS. Variation in academic medical centers' coding practices for postoperative respiratory complications: Implications for the AHRQ Postoperative Respiratory Failure Patient Safety Indicator. *Medical Care*; 2012, 50(9):792-800.

Xian Y, Holloway RG, Pan W, et al. Challenges in assessing hospital-level stroke mortality as a quality measure: comparison of ischemic, intracerebral hemorrhage, and total stroke mortality rates. *Stroke*. 2012 Jun;43(6):1687-90. PMID: 22535276. doi:10.1161/strokeaha.111.648600.

Zrelak PA, Baron R, Romano PS. Using the Agency for Healthcare Research and Quality Patient Safety Indicators for targeting nursing quality improvement. *Journal of Nursing Care Quality*; 2012, 27(2):99-108.

2011

Borzecki AM, Cevasco M, Chen Q, Shin M, Itani KM, Rosen AK. How valid is the AHRQ Patient Safety Indicator 'postoperative physiologic and metabolic derangement'? *J Am Coll Surg*. 2011 Jun;212(6):968-976.e1-2. Epub 2011 Apr 13. PubMed PMID: 21489834.

Borzecki AM, Kaafarani H, Cevasco M, Hickson K, Macdonald S, Shin M, Itani KM, Rosen AK. How valid is the AHRQ Patient Safety Indicator 'postoperative hemorrhage or hematoma'? *J Am Coll Surg*. 2011 Jun;212(6):946-953.e1-2. Epub 2011 Apr 7. PubMed PMID: 21474344.

Borzecki AM, Kaafarani HMA, Utter GH, Romano PS, Itani K, Shin MH, Chen Q, Rosen AK. How valid is the AHRQ Patient Safety Indicator Postoperative Respiratory Failure? The Veterans Health Administration experience. *Journal of the American College of Surgeons*; 2011, 212(6):935-45.

Carey K, Stefos T, Shibe Z, Borzecki AM, Rosen AK. Excess costs attributable to postoperative complications. *Medical Care Research & Review*. 2011;68(4):490-503.

Cevasco M, Borzecki AM, Chen Q, Zrelak PA, Shin M, Romano PS, Itani KM, Rosen AK. Positive predictive value of the AHRQ Patient Safety Indicator Postoperative Sepsis: Implications for Practice and Policy. *Journal of the American College of Surgeons*; 2011, 212(6):954-61.

Cevasco M, Borzecki AM, McClusky DA 3rd, Chen Q, Shin MH, Itani KM, Rosen AK. Positive predictive value of the AHRQ Patient Safety Indicator 'postoperative wound dehiscence'. *J Am Coll Surg*. 2011 Jun;212(6):962-7. Epub 2011 Apr 13. PubMed PMID: 21489829 [MOVE FROM PENDING]

Cevasco M, Borzecki AM, O'Brien WJ, Chen Q, Shin MH, Itani KM, et al. Validity of the AHRQ Patient Safety Indicator 'Central Venous Catheter-Related Bloodstream Infections'. *Journal of the American College of Surgeons*. 2011;212(6):984-90.

Chen Q, Rosen AK, Cevasco M, Shin M, Itani KM, Borzecki AM. Detecting patient safety indicators: How valid is 'foreign body left during procedure' in the

Veterans Health Administration? J Am Coll Surg. 2011 Jun;212(6):977-83. Epub 2011 Apr 13. PubMed PMID: 21489830.

Davies SM, McDonald KM, Schmidt E, Schultz E, Geppert JJ, Romano PS. Expanding the uses of AHRQ's Prevention Quality Indicators: Validity from the clinician perspective. Medical Care; 2011, 49(8):679-85.

Davies SM, McDonald KM, Schmidt E, Schultz E, Geppert JJ, Romano PS. Assessment of a novel hybrid Delphi and nominal group technique to evaluate quality indicators. Health Services Research; 2011, 46(6pt1):2005-18.

Dougherty D, Schiff J, Mangione-Smith R. The Children's Health Insurance Program Reauthorization Act quality measures initiatives: moving forward to improve measurement, care, and child and adolescent outcomes. Acad Pediatr. 2011 May-Jun;11(3 Suppl):S1-S10. PubMed PMID: 21570012.

Friedman B, Berdahl T, Simpson LA, McCormick MC, Owens PL, Andrews R, Romano PS. Annual report on healthcare for children and youth in the United States: Focus on trends in hospital use and quality. Academic Pediatrics; 2011, 11(4):263-79.

Gaskin DJ, Spencer CS, Richard P, Anderson G, Powe NR, LaVeist TA. Do minority patients use lower quality hospitals? Inquiry. 2011 Fall;48(3):209-20. PubMed PMID: 22235546.

IMECCHI (International Methodology Consortium for Coded Health Information). Adaptation au codage CIM-10 de 15 indicateurs de la sécurité des patients proposés par l'Agence étasunienne pour la recherche et la qualité des soins de santé (AHRQ). Revue d'Epidemiologie et de Santé Publique; 2011, 59(5):341-50.

Januel JM, Couris CM, Luthi JC, Halfon P, Trombert-üaviot B, Quan H, Drosler S, Sundararajan V, Pradat E, Touzet S, Wen E, Shepherd J, Webster G, Romano PS, So L, Moskal L, Tournay-Lewis L, Sundaresan L, Kelley E, Klazinga N, Ghali WA, Colin C, Burnand B, pour les investigateurs du groupe Jean-Jacques M, Persell SD, Hasnain-Wynia R, Thompson JA, Baker DW. The implications of using adjusted versus unadjusted methods to measure health care disparities at the practice level. Am J Med Qual. 2011 Nov-Dec;26(6):491-501. Epub 2011 May 23. PubMed PMID: 21609941.

Kaafarani HM, Borzecki AM, Itani KM, Loveland S, Mull HJ, Hickson K, Macdonald S, Shin M, Rosen AK. Validity of selected Patient Safety Indicators: opportunities and concerns. J Am Coll Surg. 2011 Jun;212(6):924-34. Epub 2010 Dec 14. PubMed PMID: 20869268.

Kozower BD, Stukenborg GJ. The relationship between hospital lung cancer resection volume and patient mortality risk. Ann Surg. 2011 Dec;254(6):1032-7. PubMed PMID: 21562402.



Mangione-Smith R, Schiff J, Dougherty D. Identifying children's health care quality measures for Medicaid and CHIP: an evidence-informed, publicly transparent expert process. *Acad Pediatr*. 2011 May-Jun;11(3 Suppl):S11-21. PubMed PMID: 21570013.

Murff HJ, FitzHenry F, Matheny ME, Gentry N, Kotter KL, Crimin K, et al. Automated identification of postoperative complications within an electronic medical record using natural language processing. *JAMA: Journal of the American Medical Association*. 2011;306(8):848-55.

Mutter RL, Romano PS, Wong HS. The effects of US hospital consolidations on hospital quality. *International Journal of the Economics of Business*; 2011, 18(1):109-26.

Romano PS, Marcin JP, Dai JJ, Yang XD, Kravitz RL, Rocke DM, Dharmar M, Li Z. Impact of public reporting of coronary artery bypass graft surgery performance data on market share, mortality, and patient selection. *Med Care*. 2011 Dec;49(12):1118-25. PubMed PMID: 22002641.

Romano PS, Balan DJ. A retrospective analysis of the clinical quality effects of the acquisition of Highland Park Hospital by Evanston Northwestern Healthcare. *International Journal of the Economics of Business*; 2011, 18(1):45-64.

Rosen AK, Itani KM. Validating the patient safety indicators in the veterans health administration: are they ready for prime time? *Journal of the American College of Surgeons*. 2011;212(6):921-3.

Taylor JA, Gerwin D, Morlock L, et al. Triangulating case-finding tools for patient safety surveillance: a cross-sectional case study of puncture/laceration. *Inj Prev*. 2011 Dec;17(6):388-93. PMID: 21546524. doi:10.1136/ip.2010.029108.

Utter GH, Borzecki AM, Rosen AK, Zrelak PA, Baron R, Cuny J, Kaafarani HM, Sadeghi B, Geppert JJ, Romano PS. Designing an abstraction instrument—Lessons from efforts to validate the AHRQ Patient Safety Indicators. *The Joint Commission Journal on Quality and Patient Safety*; 2011, 37(1):20-28.

Zrelak PA, Sadeghi B, Utter GH, Baron R, Tancredi DJ, Geppert JJ, Romano PS. Positive predictive value of the AHRQ Patient Safety Indicator for central line associated-bloodstream infection ("Selected Infections Due to Medical Care"). *Journal for Healthcare Quality*; 2011, 33(2):29-36.

2010

Borzecki AM, Christiansen CL, Chew P, Loveland S, Rosen AK. Comparison of in-hospital versus 30-day mortality assessments for selected medical conditions. *Medical Care*. 2010;48(12):1117-21.

Borzecki AM, Christiansen CL, Loveland S, Chew P, Rosen AK. Trends in the inpatient quality indicators: the veterans health administration experience. *Medical Care*. 2010;48(8):694- 702

Borzecki AM, Kaafarani HMA, Utter GH, Romano PS, Itani K, Shin MH, Chen Q, Rosen AK. How valid is the AHRQ Patient Safety Indicator Postoperative Respiratory Failure? The Veterans Health Administration experience. *Journal of the American College of Surgeons*; in press.

Classen JL. Is failure to rescue really failure to communicate? Champion the move from reactive process to proactive model. *Nurs Manag*. 2010 Jul;41(7):38-41. PMID: 20581600. doi: 10.1097/01.NUMA.0000384034.25176.a2.

Davies SM, McDonald KM, Schmidt E, Schultz E, Geppert J, Romano, PS. 'Expanding the Uses of AHRQ's Prevention Quality Indicators: Validity from the Clinician Perspective'. *Medical Care*. In press.

Kaafarani HMA, Rosen AK, Nebeker JR, Shimada S, Mull HJ, Rivard PE, et al. Development of trigger tools for surveillance of adverse events in ambulatory surgery. *Quality & Safety in Health Care*. 2010;19(5):425-9

Khaykin E, Ford DE, Pronovost PJ, et al. National estimates of adverse events during nonpsychiatric hospitalizations for persons with schizophrenia. *Gen Hosp Psychiatry*. 2010 Jul-Aug;32(4):419-25. PMID: 20633747. doi:10.1016/j.genhosppsy.2010.04.006. Epub 2010 Jun 3. Erratum in: *Gen Hosp Psychiatry*. 2010 Nov-Dec;32(6):644.

Lemus FC, Tan A, Eschbach K, Freeman DH, Jr., Freeman JL. Correlates of Bacterial Pneumonia Hospitalizations in Elders, Texas Border. *Journal of Immigrant & Minority Health*. 2010;12(4):423-32.

Moriarty JP, Finnie DM, Johnson MG, Huddleston JM, Naessens JM. Do pre-existing complications affect the failure to rescue quality measures? *Quality & Safety in Health Care*. 2010;19(1):65-8.

Rivard PE, Elixhauser A, Christiansen CL, Shibe Z, Rosen AK. Testing the association between patient safety indicators and hospital structural characteristics in VA and nonfederal hospitals. *Medical Care Research & Review*. 2010;67(3):321-41.

Rosen AK, Chatterjee S, Glickman ME, Spiro A, 3rd, Seal P, Eisen SV. Improving risk adjustment of self-reported mental health outcomes. *Journal of Behavioral Health Services & Research*. 2010;37(3):291-306.

Rosen AK, Singer S, Shibe Z, Shokeen P, Meterko M, Gaba D. Hospital safety climate and safety outcomes: is there a relationship in the VA? *Medical Care Research & Review*. 2010;67(5):590-608.

Sadeghi B, Baron R, Zrelak P, Geppert J, Tancredi D, Romano PS. Cases of iatrogenic pneumothorax can be identified from ICD-9-CM coded data. *American Journal of Medical Quality*; 25(3):218-24.

Utter GH, Borzecki AM, Rosen AK, Zrelak PA, Baron R, Cuny J, Kaafarani HM, Sadeghi B, Geppert JJ, Romano PS. Designing an abstraction instrument—Lessons from efforts to validate the AHRQ Patient Safety Indicators. *The Joint Commission Journal on Quality and Patient Safety*; 37(1):20-28.

Utter GH, Cuny J, Sama P, Silver MR, Zrelak PA, Baron R, Drösler SE, Romano PS. Detection of Postoperative Respiratory Failure: How predictive Is the AHRQ Patient Safety Indicator? *Journal of the American College of Surgeons*; 211(3):347-354.

White RH, Garcia M, Sadeghi B, Tancredi DJ, Zrelak P, Cuny J, Sama P, Gammon H, Schmaltz S, Romano PS. Evaluation of the predictive value of ICD-9-CM coded administrative data for venous thromboembolism in the United States. *Thrombosis Research*; 126(1):61-7.

2009

Farley DO, Ridgely MS, Mendel P, et al. Assessing patient safety practices and outcomes in the U.S. health care system. (Prepared by the RAND Corporation, Santa Monica, CA, under contract No. 290-02-0010). Santa Monica, CA: RAND Corporation, 2009. Available at [https://www.rand.org/pubs/technical\\_reports/TR725.html](https://www.rand.org/pubs/technical_reports/TR725.html)

Henderson KE, Recktenwald A, Reichley RM, et al. Clinical validation of the AHRQ postoperative venous thromboembolism patient safety indicator. *Jt Comm J Qual Patient Saf*. 2009 Jul;35(7):370-6. PMID: 19634805.

Jiang HJ, Lockee C, Bass K, et al. Board oversight of quality: any differences in process of care and mortality? *J Healthc Manag*. 2009 Jan-Feb;54(1):15-29; discussion 29-30. PMID: 19227851.

Kaafarani HM, Rosen AK. Using administrative data to identify surgical adverse events: an introduction to the Patient Safety Indicators. *Am J Surg*. 2009;198(5 Suppl):S63-8. PMID: 19874937. doi: 10.1016/j.amjsurg.2009.08.008.

McDonald KM. Approach to improving quality: the role of quality measurement and a case study of the agency for healthcare research and quality pediatric quality indicators. *Pediatr Clin North Am*. 2009 Aug;56(4):815-29. PMID: 19660629. doi:10.1016/j.pcl.2009.05.009.

Rosen AK, Loveland SA, Romano PS, et al. Effects of resident duty hour reform on surgical and procedural patient safety indicators among hospitalized Veterans Health Administration and Medicare patients. *Med Care*. 2009;47(7):723-31. PMID: 19536029. doi: 10.1097/MLR.0b013e31819a588f.

Thornlow DK, Merwin E. Managing to improve quality: the relationship between accreditation standards, safety practices, and patient outcomes. *Health Care Manag Rev.* 2009 Jul-Sep;34(3):26272. PMID: 19625831. doi:10.1097/HMR.0b013e3181a16bce.

Utter GH, Zrelak PA, Baron R, et al. Positive predictive value of the AHRQ Accidental Puncture or Laceration Patient Safety Indicator. *Ann Surg.* 2009 Dec;250(6):1041-5. PMID: 19779328. doi:10.1097/SLA.0b013e3181afe095.

White RH, Sadeghi B, Tancredi DJ, et al. How valid is the ICD-9-CM based AHRQ Patient Safety Indicator for postoperative venous thromboembolism? *Med Care.* 2009 Dec;47(12):1237-43. PMID: 19786907. doi:10.1097/MLR.0b013e3181b58940.

Yu H, Greenberg MD, Haviland AM, et al. "Canary measures" among the AHRQ patient safety indicators. *Am J Med Qual.* 2009 Nov-Dec;24(6):465-73. PMID: 19696232. doi:10.1177/1062860609341585.

## 2008

Glance LG, Osler TM, Mukamel DB, et al. Impact of the present-on-admission indicator on hospital quality measurement. Experience with the Agency for Healthcare Research and Quality (AHRQ) Inpatient Quality Indicators. *Med Care.* 2008 Feb;46(2):112-9. PMID: 18219238. doi:10.1097/MLR.0b013e318158aed6.

Houchens RL, Elixhauser A, Romano PS. How often are potential patient safety events present on admission? *Jt Comm J Qual Patient Saf.* 2008 Mar;34(3):154-63. PMID: 18419045.

Marcin JP, Li Z, Kravitz RL, et al. The CABG surgery volume-outcome relationship: temporal trends and selection effects in California, 1998-2004. *Health Serv Res.* 2008 Feb;43(1Pt1):174-92. PMID: 18211524. doi:10.1111/j.1475-6773.2007.00740.x.

McDonald K, Davies S, Haberland C, et al. A preliminary assessment of pediatric healthcare quality and patient safety in the U.S. using readily available administrative data. *Pediatr.* 2008 Aug;122(2):e416-25. PMID: 18676529. doi:10.1542/peds.2007-2477.

Ridley RT. The relationship between nurse education level and patient safety: an integrative review. *J Nurs Educ.* 2008 Apr;47(4):149-56. PMID: 18468291.

Rivard PE, Luther SL, Christiansen CL, et al. Using patient safety indicators to estimate the impact of potential adverse events on outcomes. *Med Care Res Rev.* 2008 Feb;65(1):67-87. PMID: 18184870. doi:10.1177/1077558707309611.

Romano PS, Mull HJ, Rivard PE, et al. Validity of selected AHRQ Patient Safety Indicators based on VA National Surgical Quality Improvement Program data.

Health Serv Res. 2009 Feb;44(1):182-204. PMID: 18823449. doi: 10.1111/j.1475-6773.2008.00905.x. Epub 2008 Sep 17.

Seliger SL, Zhan M, Hsu VD, et al. Chronic kidney disease adversely influences patient safety. J Am Soc Nephrol. 2008 Dec;19(12):2414-9. PMID: 18776123. doi:10.1681/asn.2008010022.

Shimada SL, Montez-Rath ME, Loveland SA, et al. Racial disparities in Patient Safety Indicator (PSI) rates in the Veterans Health Administration. In: Henriksen K, Battles JB, Keyes MA, et al., eds. Advances in Patient Safety: New Directions and Alternative Approaches (Vol. 1: Assessment). Rockville, MD: Agency for Healthcare Research and Quality; 2008. Available at <https://www.ncbi.nlm.nih.gov/books/NBK43651/>

Weeks WB, West AN, Rosen AK, et al. Comparing measures of patient safety for inpatient care provided to veterans within and outside the VA system in New York. Qual Saf Health Care. 2008 Feb;17(1):58-64. PMID: 18245221. doi: 10.1136/qshc.2006.020735.

## 2007

Horwitz LI, Cuny JF, Ceresse J, et al. Failure to rescue: validation of an algorithm using administrative data. Med Care. 2007 Apr;45(4):283-7. PMID: 17496710.

Hussey P, Mattke S, Morse L, et al. Evaluation of the use of AHRQ and other quality indicators: final contract report. (Prepared by RAND Health, under Contract No. WR-426- HS), Rockville, MD: Agency for Healthcare Research and Quality, 2007. Available at <https://archive.ahrq.gov/research/findings/final-reports/qualityindicators/qualityindicators.pdf>

McDonald KM, Davies SM, Geppert J, et al. Why rescue the administrative data version of the "Failure to Rescue" Quality Indicator." Med Care. 2007 Apr;45(4):277-9. PMID: 17496708.

Schmid A, Hoffman L, Happ MB, et al. Failure to rescue: a literature review. J Nurs Adm. 2007 Apr;37(4):188-98. PMID: 17415106.

Silber JH, Romano PS, Rosen AK, et al. Failure-to-rescue: comparing definitions to measure quality of care. Med Care. 2007 Oct;45(10):918-25. PMID: 17890988.

## 2006

Halfon P, Egli Y, Prêtre-Rohrbach I, et al. Validation of the potentially avoidable hospital readmission rate as a routine indicator of the quality of hospital care. Med Care. 2006 Nov;44(11):972-81. PMID: 17063128.

Hart J, Sweeney G. Integrating patient safety indicators into patient safety programs. J Healthc Qual. 2006 Nov-Dec;28(6):18-28. PMID: 17514861.



Polancich S, Restrepo E, Prosser J. Cautious use of administrative data for decubitus ulcer outcome. *Am J Med Qual*. 2006 Jul-Aug;21(4):262-8. PMID: 16849783. doi:10.1177/1062860606288244.

Teleki SS, Damberg CL, Sorbero ME, et al. Evaluation of the Patient Safety Improvement Corps: Experiences of the First Two Groups of Trainees. Santa Monica, CA: RAND Corporation, 2006.  
[https://www.rand.org/pubs/technical\\_reports/TR407.html](https://www.rand.org/pubs/technical_reports/TR407.html).

2005

Rivard PE, Elwy AR, Loveland S, et al. Advances in patient safety: applying Patient Safety Indicators (PSIs) across health care systems: achieving data comparability. In: Henriksen K, Battles JB, Marks ES, Lewin DI, eds. *Advances in Patient Safety: from Research to Implementation (Volume 2: Concepts and Methodology)*. Rockville, MD: Agency for Healthcare Research and Quality; 2005. PMID: 21249839.

2004

Romano PS, Mutter R. The evolving science of quality measurement for hospitals: implications for studies of competition and consolidation. *Int J Health Care Finance Econ*. 2004 Jun;4(2):131-57. PMID: 15211103.

2003

Romano PS, Geppert JJ, Davies SM, Miller MR, Elixhauser A, McDonald KM. "A National Profile of Patient Safety in US Hospitals Based on Administrative Data" *Health Affairs* 22, no. 2: 154-166 (March/April 2003).

Zhan C, Miller MR. Administrative data based patient safety research: a critical review. *Qual Saf Health Care*. 2003 Dec;12(Suppl 2):ii58-63. PMID: 14645897.

2002

Dallas-Fort Worth Hospital Council Initiative (2002). *AHRQ Inpatient Quality Indicators- Interpretive Guide*.

Healthcare Quality and Analysis Division. Report on Heart Attack Outcomes in California 1996-1998, Volume 4: Hospital Comment Letters. Sacramento, CA: California Office of Statewide Health Planning and Development, February 2002. Available at  
<https://oshpd.ca.gov/documents/HID/HeartAttackOutcomes/V49698.pdf>