Special Issue Marks 25 Years of Health Care Transformation through Delivery System Research

A special issue published in *eGEMs*, AcademyHealth's open access, peer-reviewed journal, commemorates 25 years of the Health Care Systems Research Network's (HCSRN) rigorous research to improve health outcomes and health systems' performance by leveraging electronic health data. The HCSRN brings together the research departments of some of the nation's best and most innovative health care systems.

Collectively, the HCSRN represents nearly 2,000 scientists and research staff with methodological and subject matter expertise from an array of disciplines including epidemiology, economics, disparities, outcomes and quality assessment, trials, genomics, and more.

The special issue, entitled "Health Care Transformation through Delivery System Research," showcases the value of delivery system science, collaborative partnerships, and a mature common data model.

The issue's 16 papers highlight innovative use of electronic health data to address a variety of health care delivery improvements including personalized medicine, data sharing for comparative health system performance, use of self-reported data, and data quality assessment. Findings in the collection have implications for cancer care, suicide prevention, pediatric care in emergency room settings, chronic disease clinical decision support, and more.

Overall, the special issue is a testament to the intricate and innovative work of creating sustainable partnerships that leverage shared scientific and data resources to improve health and health care.

Topic Areas and Articles in this Special Issue

Effective Approaches to Collaboration

- We've Only Just Begun – Insights from a 25-Year Journey to Accelerate Health Care Transformation through Delivery System Research
- The Promise of Pragmatic Clinical Trials Embedded in Learning Health Systems
- The Health Care Systems Research Network (HCSRN) as an Environment for Dissemination and Implementation Research: A Case Study of a Multi-Site Research Study in Precision Medicine
- Collaborating on Data, Science, and Infrastructure: The 20-Year Journey of the Cancer Research Network

Optimizing Source Data from EHRs to Support Rigorous Research

- Improving Health Care with Advanced Analytics: Practical Considerations
- Learning to Share Healthcare Data
- Identification of Incident Uterine Fibroids Using Electronic Medical Record Data
- Impact of ICD-10-CM Transition on Mental Health Diagnoses Recording
- Data Quality Assessment and Multi-Organizational Reporting: Tools to Enhance Network Knowledge
- Comparing Prescribing and Dispensing of the PCORnet Common Data Model using PCORnet Antibiotics and Childhood Growth Study
- Assessing and Minimizing Re-identification Risk in Research Data Derived from Healthcare Records

Applying Electronic Data for Point-of-Care Improvement

- Developing a Prognostic Information System for Personalized Care in Real Time
- Development of a Clinical Decision Support System for Pediatric Abdominal Pain in Emergency Room Settings Across Two Health Systems Within the HCSRN
- Challenges of Population-Based Measurement of Suicide Prevention Activities Across Multiple Health Systems
- Priorities Wizard: Multisite Web-Based Primary Care Chronic Disease Clinical Decision Support Improved Clinical Outcomes with High Use Rates and High Clinician Satisfaction Rates
- Using Self-Reported Data to Segment Older Adult Populations with Complex Care Needs

To learn more about the special issue, visit www.academyhealth.org/HCSRN.