

Clinical Informatics Fellowship Recap

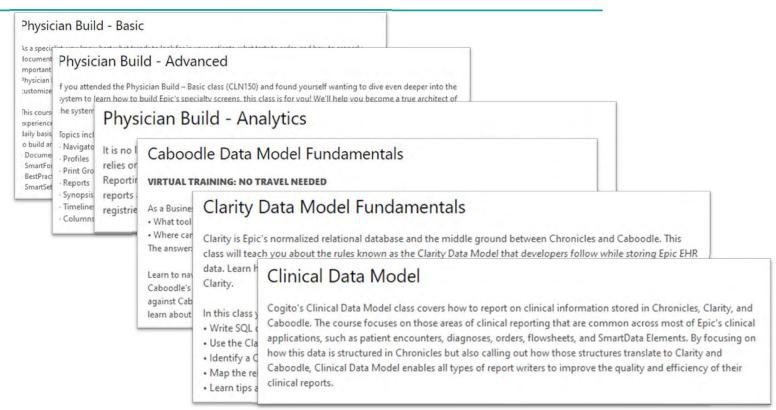
Rubayet (Ruba) Hossain, MD

Second Year Clinical Informatics Fellow
The MetroHealth System
Case Western Reserve University

Areas of Focus

- Analytics
- Quality Improvement $\ensuremath{\,\boxtimes\,}$
- Business intelligence $\ensuremath{\,\boxtimes\,}$
- Evidence-based medicine ☑
- $\bullet \quad \text{Prediction/Forecasting} \ {\scriptstyle \boxdot}$
- Health Economics

Structured Education: Epic Certifications



Structured Education: CWRU Health Informatics Certificate

MPHP 532 / HSMC 432 (3 Credit Hours) – Introduction to Health Informatics

The course is intended to develop competence and confidence in the participant's ability to understand and manage the complex information environment, plan for computer-based information systems, specify their functional design, manage a system adoption project, deal with system vendors, and

PQHS 416 (3 Credit Hours) – Computing in Biomedical Health Informatics

This course introduces students to computational techniques and concepts that underpin biomedical and health informatics data management and analysis. In particular, the course will focus on the three topics of: (1) Biomedical terminologies and formal logic used in building knowledge models such as ontologies; (2) Natural language processing (NLP), and (3) Big Data technologies, including

CRSP 401 (3 Credit Hours) - Introduction to Clinical Research Summer Series

This course is designed to familiarize one with the language and concepts of clinical investigation and statistical computing, as well as provide opportunities for problem-solving, and practical application of the information derived from the lectures. The material is organized along the internal logic of the research process, beginning with mechanisms of choosing a research question and moving into the

HSMC 420 (3 Credit Hours) – Health Finance

Exploration of economic, medical, financial and payment factors in the U.S. healthcare system sets the framework for the study of decisions by providers, insurers, and purchasers in this course. The mix of students from various programs and professions allows wide discussion from multiple viewpoints.

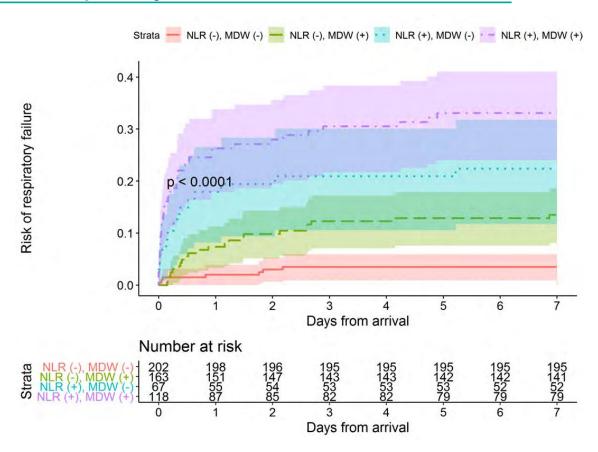
Structured Education: Rotations and Electives

- 1. Introduction to Clinical Informatics
 - → Explore the different fields in informatics
- 2. Advanced Clinical Informatics
 - → Deeper dive into more complex subjects
- 3. Reporting Elective
 - → Reporting workbench, Clarity, and Caboodle reporting
- 4. Population Health and Quality Improvement/Leadership
 - → Lean Six Sigma, FQHC, public health informatics
- 5. Cleveland Clinic
 - → Discover informatics at another institution
- 6. Electronic Health Record Upgrade
 - → Change management, project management
- 7. Capstone Project
 - → Publications

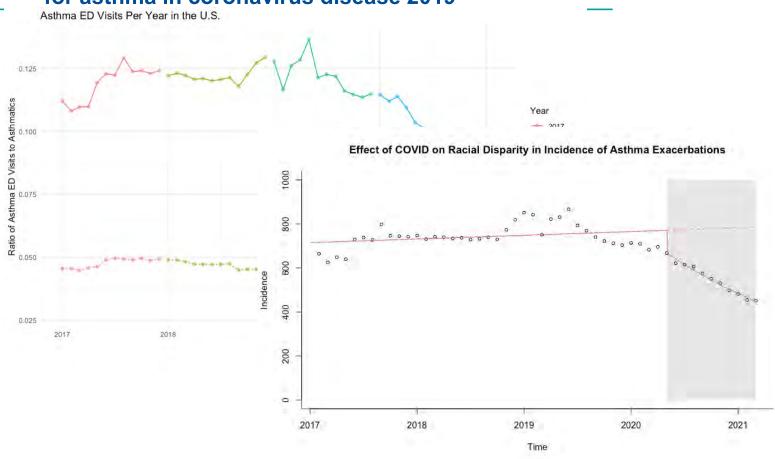


Jonathan Lewis Ted Rosati · 2nd

Monocyte distribution width adds prognostic value in detection of COVID-19 respiratory failure

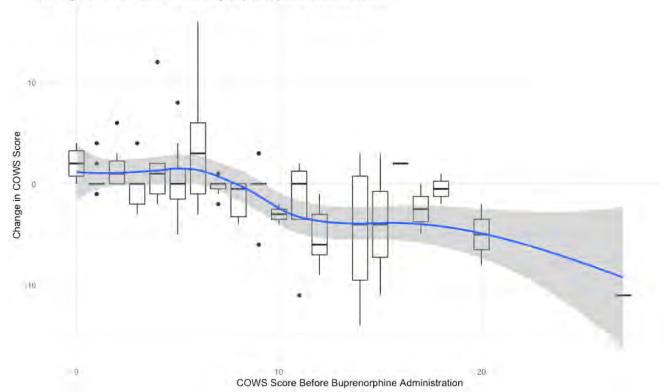


Trends in racial disparities of emergency department utilization for asthma in coronavirus disease 2019



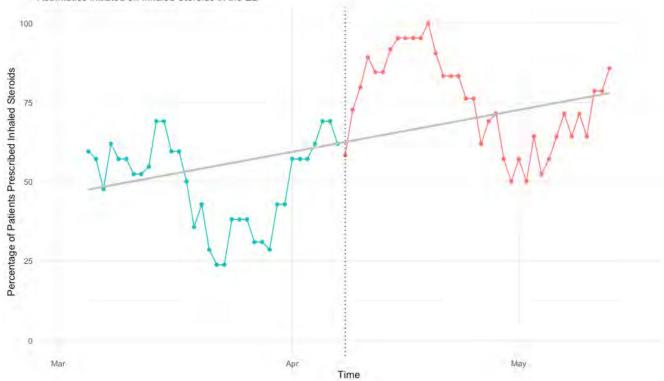
Safety of induction at standard doses of buprenorphine for inpatients with opioid use disorder



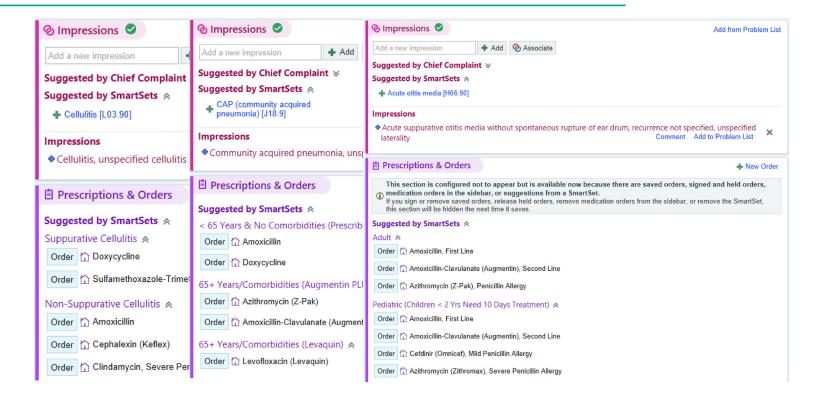


Non-interruptive Clinical Decision Support Improves Ordering of Inhaled Corticosteroids for Asthma Exacerbations

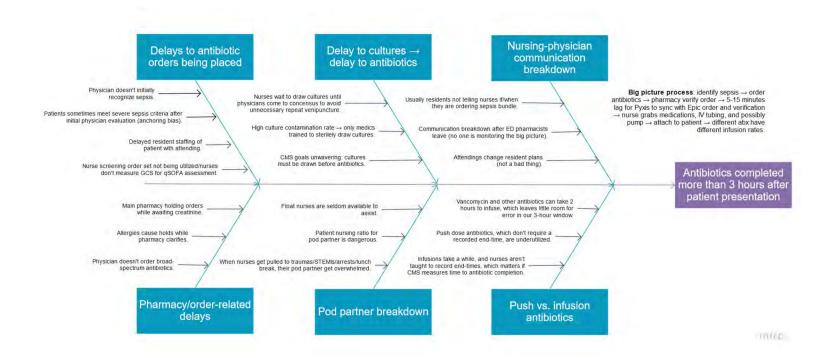
Effect of Non-Interruptive Clinical Decision Support on Prescribing Practices Asthmatics Initiated on Inhaled Steroids in the ED



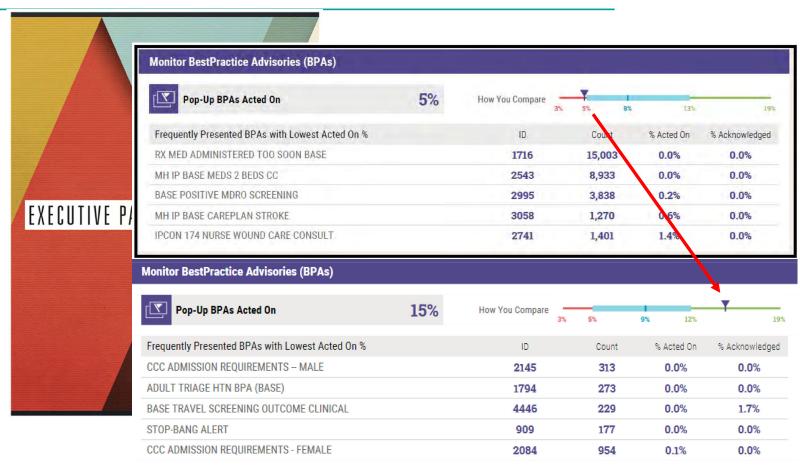
Antibiotic Standardization Smart Sets



Improve Time-to-Antibiotics in Sepsis in the ED



Using Epic Executive Packets to Drive Meaningful System Change

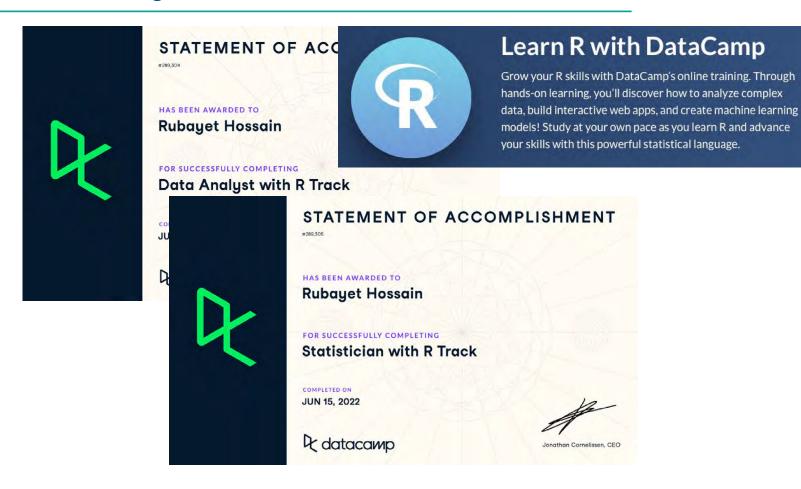


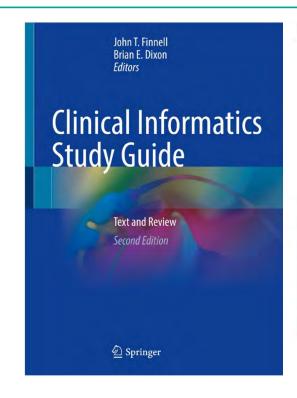
Project Management and Contract Negotiation

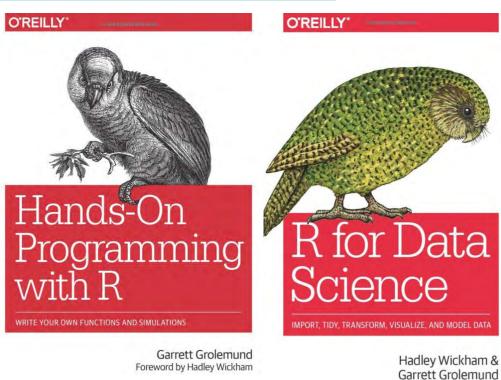


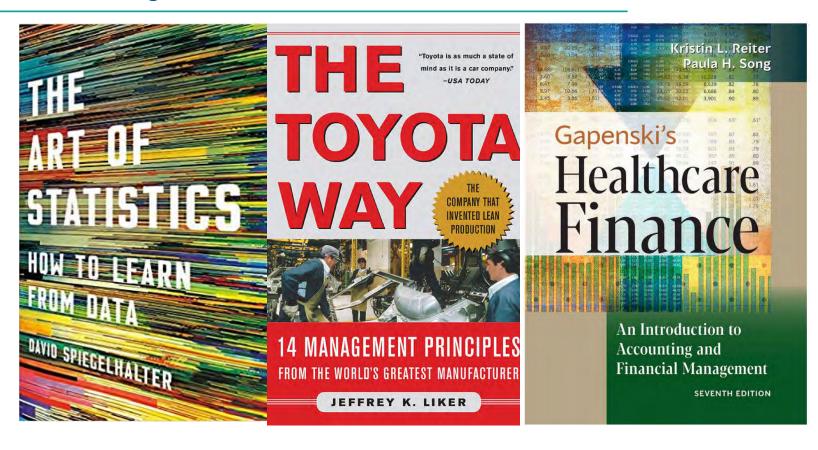
Sapphire Engage: Heart Failure

The Sapphire Engage: Heart Failure app enables clinicians to enroll patients to receive protocolized SMS messages and solicit patients to report on their weight, dyspnea and medication adherence. The RPM data acquired via SMS is structured and writes back to the EHR. Further, the heart failure app offers a visualization of RPM data in timeline view along side other native EHR data relevant to heart failure. Algorithms also support care team notifications for parameters that warrant outreach.









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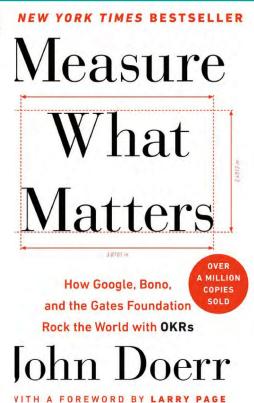
Douglas Stone & Sheila Heen

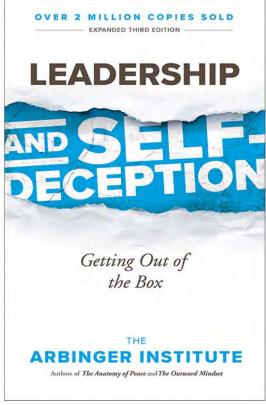
of the Harvard Negotiation Project and coauthors of DIFFICULT CONVERSATIONS

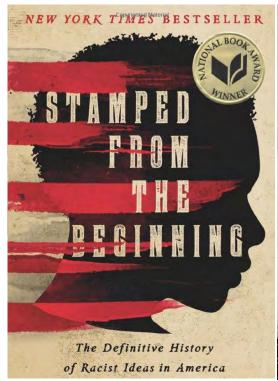
Thanks for the Feedback

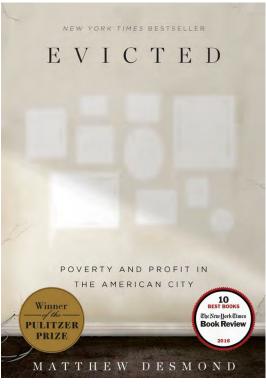
THE SCIENCE AND ART OF RECEIVING FEEDBACK WELL

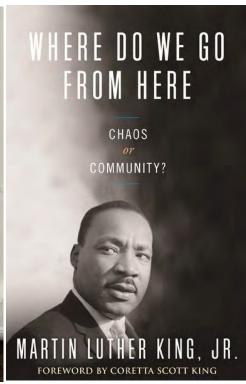
*even when it is off base, unfair, poorly delivered, and, frankly, you're not in the mood



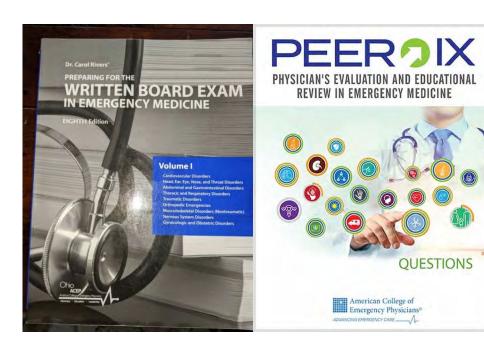


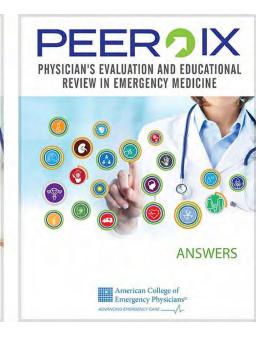






Emergency Medicine Board Certification





Next Steps





Thanks For Listening!