



2nd Annual

Advancing Healthcare Quality Research at Emory University

The Quality Revolution:

**Meaningful and Sustainable
Improvements in Healthcare**

Friday, May 29, 2015 • 8:00 AM - 5:00 PM

Health Sciences Research Building (HSRB)
Auditorium

Schedule of Events

8:00 – 8:10 AM **Welcome, Opening Remarks**
David Stephens, MD, Professor and Chair (Department of Medicine, School of Medicine) Vice President for Research (Woodruff Health Sciences Center)

8:10 – 9:30 AM **Session I:**
Population Health Management

8:10 AM **Inequality in Quality: Closing the Disparity Gap**
Rachel Patzer, PhD, MPH (Department of Surgery, School of Medicine and Department of Epidemiology, Rollins School of Public Health)

8:30 AM **Moving from Quality Improvement to Optimal & Equitable Outcomes for All**
George Rust, MD, MPH (Department of Family Medicine, Morehouse School of Medicine)

8:50 AM **Developing Quality Strategies in Provider Networks**
Ian McCarthy, PhD (Department of Economics, Emory College of Arts and Sciences)

9:10 AM **Can Academic Health Centers Succeed at Population Health?**
Rick Gitomer, MD, MBA (Department of Medicine, School of Medicine)

9:30 – 10:30 AM **Posters and Coffee Break**

10:30 – 11:50 AM **Session II:**
Improvements in Quality Healthcare Through IT Tracking

10:30 AM **Informatics - Data Rich or Data Overload?**
Sheri Chernetsky-Tejedor, MD (Department of Medicine, School of Medicine)

10:50 AM **Bridging the Gap: A Multidisciplinary Approach to Fall Prevention**
Corrine Abraham, RN, DNP (School of Nursing)

11:10 AM **Preventing Unnecessary Re-Admissions**
Nicole Franks, MD (Department of Emergency Medicine, School of Medicine and Chief Quality Officer, EUHM)

Schedule of Events

11:30 AM Data Tracking as a Tool for Sustainable Quality
Nathan Spell III, MD, Vice Chair for Quality and Clinical Effectiveness (Department of Medicine, School of Medicine)

12:00 – 1:00 PM Lunch and Poster Viewing

1:00 PM Keynote Lecture: Redesign of Care for Patients at High Risk of Hospitalization in a Reforming U.S. Healthcare System: Rationale for a CMMI Innovation Challenge Project
David Meltzer, MD, PhD, Chief of Hospital Medicine, Director of the Center for Health and the Social Sciences (University of Chicago)

2:00 – 2:40 PM Posters and Coffee Break

2:40 – 4:00 PM Session III:
Controlling Cost, Creating Efficiency and Cost Transparency

2:40 PM Continuity of Care, Quality of Care, and Costs
Kenton Johnston, MPH, MS (Rollins School of Public Health)

3:00 PM Overuse of Imaging – Identifying Waste and Inefficiency
Kimberly Applegate, MD (Department of Radiology, School of Medicine)

3:20 PM Physician Scorecards to Drive Performance Improvement
Nathan Spell III, MD (Department of Medicine, School of Medicine)

3:40 PM Reducing Cost in the Emergency Department
Douglas Lowery-North, MD (Department of Emergency Medicine, School of Medicine)

4:00 – 4:30 PM Closing Remarks and Poster Viewing
Leslee Shaw, PhD (Department of Medicine)

Poster Presentations

1. **Brendan P. Lovasik**, Graduate Student, Department of Radiology, School of Medicine
Utility of CT Imaging of the Cervical Spine in Cases of Ground Level Fall and Simple Assault
2. **Brian G. Howard, MD**, Clinical Fellow, Department of Medicine, School of Medicine
Evaluating the Implementation and Utilization of a Novel Electronic Heart Failure Admission Order Set: The Grady Memorial Hospital Experience
3. **Gelareh Sadigh, MD**, Resident, Department of Radiology, School of Medicine
Diagnostic Yield of Cervical Spine MRI in the Setting of Angiogram-Negative Spontaneous Intracranial Subarachnoid Hemorrhage
4. **Ilan Safir, MD**, Resident, Department of Urology, School of Medicine
Teleurology to Enhance Access and Expedite Care of Patients Referred with Hematuria
5. **Kevin P. Seitz**, Graduate Student, Department of Medicine, School of Medicine
Restrictive Transfusion Protocols in Critical Care: What Structural ICU Factors Can Reduce Inappropriate Transfusions?
6. **Matthew Whalin, MD, PhD**, Assistant Professor, Department of Anesthesiology, School of Medicine
Drug Wastage at Grady: How Much Money Could Be Saved by Switching to Pre-Made Syringes?
7. **Peter Lyu, MSPH**, Research Analyst, Emory Critical Care Center
Impact of a Sequential Intervention on Albumin Utilization in Critical Care: a Quasi-experimental Study
8. **Jennifer Gander, PhD**, Postdoctoral Fellow, Department of Surgery, School of Medicine
Peer Mentoring to Reduce Racial Disparities in Access to Kidney Transplantation in the Southeast

Poster Presentations

9. **Ayman S. Tahhan, MD**, Resident, Department of Medicine, School of Medicine
Identification of Stage D Heart Failure Patients: Clinical Assessment versus ESC Heart Failure Association Criteria
10. **Benjamin Flink, MD**, Resident, Department of Surgery, School of Medicine
Preoperative Antiplatelet and Statin Therapy is Underutilized in Critical Limb Ischemia Patients and Lowers the Risk of Postoperative Amputation and Graft Failure
11. **Charles Myers, MD**, Resident, Department of Pathology and Laboratory Medicine, School of Medicine
CAP/ASCO Low HER2 Guidelines 2013 – Immunohistochemistry Quantitation Visually and by Image Cytometry (ACIS) versus FISH
12. **Francis A. Wolf, MD**, Assistant Professor, Department of Anesthesiology, School of Medicine
Uncovering Residual Paralysis in the PACU: A Pilot Study
13. **Laura Plantinga, PhD**, Assistant Professor, Department of Medicine, School of Medicine
Attribution of Cause of End-Stage Renal Disease among Systemic Lupus Erythematosus Patients: The Georgia Lupus Registry
14. **Laura Plantinga, PhD**, Assistant Professor, Department of Medicine, School of Medicine
Comparison of Loss of Vascular Access Patency in Hemodialysis Patients with End-Stage Renal Disease due to Systemic Lupus Erythematosus vs. Other Causes
15. **Leigha Woodruff, MD**, Postdoctoral Fellow, Department of Pediatrics, School of Medicine
Improving Community-acquired Pneumonia Management in Hospitalized Children: One Institution's Experience as Part of a National Study
16. **Min Li, MD**, Postdoctoral Fellow, Department of Medicine, School of Medicine
Does Autophagosome-proteolysis Contribute to CKD-induced Muscle Atrophy?

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Poster Presentations

17. **Raymund Dantes, MD, MPH**, Department of Medicine, School of Medicine
Improved Identification of Venous Thromboembolism from Electronic Medical Records using Information Extraction
18. **Ambar Kulshreshtha, MD, PhD**, Department of Family & Preventative Medicine, School of Medicine
Smart-7 Study: A Pilot Study to Evaluate a Patient Self-monitoring Intervention to Improve Cardiovascular Health
19. **C. Barrett Bowling, MD**, Department of Medicine, School of Medicine
Veterans Affairs "Big Data" for Advancing Healthcare Quality Research
20. **C. Barrett Bowling, MD**, Department of Medicine, School of Medicine
A Population Health Management Approach to Older Adults with Chronic Kidney Disease
21. **Helen Vo, MD**, Department of Anesthesiology, School of Medicine
A Unified Protocol for Blood Ordering Based on Predicted Intraoperative Blood Loss at Grady Memorial Hospital
22. **Laura McPherson**, Graduate Student, Rollins School of Public Health
The Explore Transplant Program in GA: Is Historical Access to Transplantation Associated with Kidney Transplant Knowledge and Preparedness to Educate ESRD Patients?
23. **Rachel Patzer, PhD**, Assistant Professor, Department of Surgery, School of Medicine
Dialysis Facility Referral for Kidney Transplantation among Georgia End-Stage Renal Disease Patients
24. **Angela Pham, MD**, Clinical Fellow, Department of Medicine, School of Medicine
Depression Recognition and Associated Sociodemographic and Clinical Factors in Systemic Lupus Erythematosus
25. **Christina Fernandez, MD**, Resident, Department of Anesthesia, School of Medicine
Attitudes Towards Resident Feedback and a New Feedback Tool

Poster Presentations

26. **Cristina Drenkard, MD, PhD**, Assistant Professor, Department of Medicine, School of Medicine
Grady-PROUD: a Grady Program for Recognition of Untreated Depression in Patients with Systemic Lupus Erythematosus: A "Proof of Concept" Phase
27. **Anjali Grandhige, MD**, Instructor, Department of Medicine, School of Medicine
Proactive Palliative Care Consultation for High Risk Hospital Medicine Patients
28. **Ann Vandenberg, PhD**, Instructor, Department of Medicine, School of Medicine
Implementing Enhancing Quality of Prescribing Practices for Older Veterans Discharged from the ED (EQUIPPED) across Five VA Emergency Departments
29. **Anna M. Afonso**, Graduate Student, Department of Family and Preventative Medicine, School of Medicine
Does Meaningful Use of Electronic Health Records Improve Quality Outcomes? A Comparison of Health Outcomes in Two Primary Care Clinics
30. **Camille Vaughan, MD, MS**, Assistant Professor, Department of Medicine, School of Medicine
Expansion of EQUIPPED: Two Site Results from an Initiative to Improve Prescribing Practices in the Emergency Department
31. **Chihwen Cheng, PhD**, Research Associate, Georgia Institute of Technology
icuARM-KM: Combining Personalized Temporal Association Rules with Kaplan-Meier Estimator for Pediatric ICU Decision Support
32. **Adrienne DePorre, MD & Lajja Desai, MD**, Residents, Department of Pediatrics, School of Medicine
Improving Attention to- and Treatment of- Pain in Pediatric Patients in Addis Ababa, Ethiopia: Difficulties in Quality Improvement in a Global Health Setting

Participant Biographies

David Meltzer, MD, PhD (Keynote Speaker)

David Meltzer, MD, PhD is Chief of the Section of Hospital Medicine, Director of the Center for Health and the Social Sciences, and Chair of the Committee on Clinical and Translational Science at the University of Chicago, where he is Professor in the Department of Medicine, and affiliated faculty of the Harris School of Public Policy Studies and the Department of Economics. Meltzer's research explores problems in health economics and public policy, with a focus on the theoretical foundations of medical cost-effectiveness analysis and the cost and quality of hospital care. Meltzer has performed randomized trials comparing the use of doctors who specialize in inpatient care ("hospitalists"). He is currently leading a Center for Medicaid and Medicare Innovation Challenge award to study the effects of improved continuity in the doctor-patient relationship between the inpatient and outpatient setting on the costs and outcomes of care for frequently hospitalized Medicare patients. He led the formation of the Chicago Learning Effectiveness Advancement Research Network (Chicago LEARN), which helped pioneer collaboration of Chicago-area academic medical centers in hospital-based comparative effectiveness research and orchestrated the recent support of the Chicago Area Patient-Centered Outcomes Research Network (CAPriCORN) by the Patient-Centered Outcomes Research Institute (PCORI).

Meltzer received his MD and PhD in economics from the University of Chicago and completed his residency in internal medicine at Brigham and Women's Hospital in Boston. Meltzer is the recipient of numerous awards, including the Lee Lusted Prize of the Society for Medical Decision-Making, the Health Care Research Award of the National Institute for Health Care Management, the Eugene Garfield Award from Research America, the John M. Eisenberg Excellence in Mentoring Award from the Agency for Healthcare Research and Quality, and the American Association of Medical Colleges Learning Healthcare System Award. Meltzer is a research associate of the National Bureau of Economic Research, elected member of the American Society for Clinical Investigation, and past president of the Society for Medical Decision-Making. He has served on several IOM panels, include one examining U.S. organ allocation policy and the recent panel on the Learning Health Care System that produced Best Care at Lower Cost. He has also served as a committee member on the DHHS Secretary's Advisory Committee on Healthy People 2020 and the Patient-Centered Outcomes Research Institute (PCORI) Methodology Committee, a Council Member of the National Institute for General Medical Studies, and a health economics advisor for the Congressional Budget Office.

Participant Biographies

Corrine Abraham, RN, DNP

Dr. Abraham is Assistant Clinical Professor at the Nell Hodgson Woodruff School of Nursing (NHWSN) at Emory University. She earned a BSN from the University of Iowa and a MN from the NHWSN at Emory University, where she has taught and served in numerous leadership roles since 1996. Dr. Abraham completed her Doctorate of Nursing Practice (DNP) from the University of MN graduating in early 2013. In 2012, she was selected as a Nurse-Fellow in the Atlanta VAMC's VA Quality Scholars Program, where she developed expertise in quality improvement methods by participating in a community of learners, leading project teams, and mentoring inter-professional learners. In 2014, following completion of her post-doctorate, she negotiated a joint appointment with the Atlanta VA Medical Center, initiating a new position as Coordinator for EBP & Innovation. Dr. Abraham's goal is to bridge the gap between academia and practice by promoting translation of evidence to enhance healthcare delivery and improve patient outcomes. Recently, she received funding to establish the Cognitive Disorders Specialty Care Education Center of Excellence (SCE COE) at the Atlanta VA Medical Center. Serving as co-director of the SCE COE complements Dr. Abraham's professional goals to transform inter-professional education, build capacity in quality improvement methods and provide leadership in redesigning care delivery.

Kimberly Applegate, MD, MS, FACR

Dr. Applegate is a Professor of Radiology and Pediatrics and Director of Practice Quality Improvement in Radiology at Emory University. Dr. Applegate is a leader in radiology—she currently serves as the American College of Radiology Board of Chancellors, completing a 2 year term as ACR Council Speaker; She is also the President of the Association for University Radiologists (AUR) Research and Education Foundation, a member of the National Quality Forum Patient Safety Committee and both the National and International Councils for Radiation Protection. She has an interest in health services research in radiology, co-editing the only evidence-based imaging textbook series. In 2006, she began work on the Steering Committee for the *Image Gently Campaign* to reduce radiation exposure in children worldwide. The Campaign has received a number of awards for its advocacy, education, and collaboration to change imaging practice.

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Participant Biographies

Nicole Franks, MD

Nicole Franks, MD is a Board-Certified Emergency Physician practicing at Emory University Hospital Midtown (EUHM). Dr. Franks graduated from Spelman College in 1995, and she continues to be an active alumnae supporter and a mentor in the Health Careers Program. She attended Morehouse School of Medicine, graduating in 1999. Dr. Franks completed her residency in emergency medicine (EM) at Emory and served as Chief Resident from 2001 to 2002. Since her residency, she has served on Emory's faculty as an Associate Professor, course director of the Continuous Quality Improvement Curriculum for emergency medicine residents and Co-Director for the Emergency Medicine Administrative Fellowship. Dr. Franks is also the Chief Quality Officer for EUHM, where, in addition to clinical teaching, her responsibilities include patient care, physician leadership, risk management, quality reporting and process improvement.

Dr. Franks is a member of the inaugural class of L.E.A.D. Atlanta, a young professional development initiative sponsored by Leadership Atlanta. She was the 2006 recipient of the *Atlanta Business Chronicle's* "Up & Comers: 40 under 40" award. She also participates in church community outreach programs and serves on the Board of Directors for Girls on the Run - Atlanta Council. Dr. Franks is a native of New Orleans and is a member of Delta Sigma Theta Sorority, Inc., Atlanta Alumnae Chapter. She lives in Atlanta with her husband, Kevin, and their children, John, Michelle and Payton.

Richard Gitomer, MD, MBA, FACP

Richard Gitomer, MD, MBA, FACP is a general internist and currently serves as President and Chief Quality Officer for the Emory Healthcare Network (EHN). The EHN is Emory Healthcare's clinically integrated network, consisting of 1,800 physicians, six hospitals, and more than 240 primary care physicians. Prior to taking his current position, Dr. Gitomer was the Chief Quality Officer at Emory University Hospital Midtown (EUHM), where he led quality and safety activities. In his last two years in that role, EUHM was ranked No. 6 and No. 3 in the University HealthSystem Consortium's Quality and Accountability Study, which ranks the top academic medical centers across the country in the areas of quality, safety and efficiency. In addition to his clinical activities as a primary care physician, Dr. Gitomer has extensive quality improvement experience in both ambulatory and inpatient settings. He has also developed and delivers quality and safety curricula in the undergraduate, graduate and continuing medical education settings.

Participant Biographies

Kenton Johnston, MPH, MS

Kenton Johnston, MPH, MS is a PhD candidate for Health Services Research and Health Policy at the Rollins School of Public Health's Department of Health Policy and Management. Johnston's dissertation focuses on the measurement of continuity of care in administrative claims data, as well as the role of provider human capital mix on outcomes and efficiency of care. Prior to entering the doctoral program, he worked in the medical informatics field at BlueCross BlueShield of Tennessee for eight years. His primary responsibilities included conducting health services and outcomes research on medical care utilization, health benefit design, chronic disease, and wellness program evaluation, as well as providing consulting services to large employers. For several years, Johnston participated in a collaborative data-sharing initiative of 18 BlueCross BlueShield Plans and led an interdisciplinary team of health services researchers and physicians tasked with predicting preventable diabetic hospitalizations and identifying modifiable risk factors for intervention. During his time in Tennessee, he served on the board of directors for a pediatric community health organization that provides medical care and health education to under-served children and their families in urban Chattanooga, and he helped the organization incorporate as an independent 501(c)(3) legal entity.

Douglas Lowery-North, MD

Douglas Lowery-North, MD is Associate Professor of Emergency Medicine and Executive Vice Chair for Emergency Medicine. He joined the Emory University School of Medicine faculty in 1995. He received his MD at Vanderbilt University School of Medicine and completed his emergency medicine residency at UCLA Medical Center. Dr. Lowery-North is the recipient of the American College of Emergency Physicians' National Teaching Award and the Emory University School of Medicine Dean's Teaching Award. He is a member of the American College of Emergency Physicians, the Society for Academic Emergency Medicine and the American Medical Informatics Association. His research interests include ED Operations and Flow, ED Informatics, ED Public Health Surveillance, and Network Science.

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Participant Biographies

Ian McCarthy, PhD

Ian McCarthy completed his PhD in economics at Indiana University in 2008. Previously, he was a director in the economic consulting practice at FTI Consulting, a director of health economics with Baylor Scott & White Health and an adjunct professor of economics at Southern Methodist University. Dr. McCarthy's research interests are health economics, applied microeconomics, industrial organization and applied econometrics. He has published in general and specialty economics and medical journals, including the *Journal of Human Resources*, *Health Economics*, *Health Services Research*, *Stata Journal*, and *Journal of Bone and Joint Surgery*. He has also secured several grants, including grants from the Agency for Healthcare Research and Quality, to develop new methodologies in cost-effectiveness research and to improve the measurement and evaluation of competition in healthcare provider markets.

Rachel Patzer, PhD, MPH

Rachel Patzer, PhD, MPH is an Assistant Professor in the Division of Transplantation, Department of Surgery, at Emory University School of Medicine. She is jointly appointed in the Department of Epidemiology at the Rollins School of Public Health. Dr. Patzer received her PhD in epidemiology at the Laney Graduate School and her Master of Public Health at the Rollins School of Public Health at Emory University. Dr. Patzer's primary research focuses on geographic, socioeconomic and racial disparities in access to kidney transplantation. She has additional interests in healthcare quality, community-based participatory research and health outcomes. Dr. Patzer is a steering committee member and data chair of the Southeastern Kidney Transplant Coalition, a coalition of community and academic partners throughout Georgia, North Carolina, and South Carolina whose mission is to decrease disparities in access to kidney transplantation in the Southeast. She is the Principal Investigator of the ongoing RaDIANT (Reducing Disparities In Access to kidNey Transplantation) Community Study, which is a randomized, group-level study of 167 dialysis facilities in Georgia that receive a multicomponent intervention developed by the Southeastern Kidney Transplant Coalition to increase access to kidney transplantation among African-American patients with kidney disease.

Participant Biographies

George Rust, MD, MPH

George Rust, MD, MPH is a Professor of Family Medicine and is Co-Director of the National Center for Primary Care at Morehouse School of Medicine, where he has taught and led various programs since 1991. Before that, he served for six years as Medical Director for the West Orange Farmworkers' Health Association in Central Florida, which he led to become one of the first Joint Commission accredited migrant health centers in the country. He is board-certified in both Family Practice and Preventive Medicine. He previously served as board chair of the Atlanta Community Access Coalition and co-chair of Georgia's Minority Health Advisory Council, where he led development of the Georgia Health Disparities Report in 2008. Dr. Rust is the author of more than 90 peer-reviewed publications related to primary care, health disparities and underserved populations. His career as a family physician and scholar has consistently focused on primary healthcare for those in greatest need.

Nathan Spell III, MD

Nathan Spell III, MD is Associate Professor of Medicine at Emory University in the Division of General Medicine and Geriatrics. He was recently appointed as the Vice Chair for Quality and Clinical Effectiveness in the Department of Medicine, prior to which he served with distinction as Chief Quality Officer of Emory University Hospital.

In addition to receiving numerous awards for excellence in teaching and service, Dr. Spell's primary area of interest is the realm of healthcare improvement. He is also a fellow of the Woodruff Leadership Academy. He holds a bachelor's degree from Davidson College and a medical degree from Harvard Medical School. He completed his internship and residency in internal medicine at Brigham and Women's Hospital in Boston. Dr. Spell also served in the U.S. Air Force Medical Corps. He previously served as director of the Primary Care Resident Continuity Clinic at 1525 Clifton Road and as associate program director of the J. Willis Hurst Internal Medicine Residency. As Vice Chair for Quality and Clinical Effectiveness, he organizes and supports departmental activities to achieve high quality and value of clinical care in collaboration with The Emory Clinic, Emory Health Network, Emory Hospitals, the Atlanta VAMC and Grady.

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Participant Biographies

Sheri Chernetsky-Tejedor, MD

Sheri Chernetsky-Tejedor, MD is Associate Professor of Medicine and Biomedical Informatics and Chief Research Information Officer for Emory University School of Medicine, with a complementary role as the medical director of analytics for EHC. Her work in Quality Improvement has paralleled her informatics work and has focused on invasive device (central lines, urinary catheters) utilization and provider awareness of these devices. Her team designed and published original work on the "Idle central venous catheter" which has been widely cited. Provider checklists and daily multidisciplinary team rounds have been utilized in her work on hospital-acquired conditions. As the first hospitalist on the CDC's Healthcare Infection Control Practices Advisory Committee (HICPAC), she is in a unique position to bring the perspective of hospital medicine clinical workflows and informatics to the national stage as new Catheter Associated Urinary Tract Infection Guidelines are under development by the group this year.

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Acknowledgements

Planning Committee

Leslee Shaw, PhD, *Chair*
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David Howard, PhD

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Carolyn Reilly, PhD
Nathan Spell III, MD

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Contact us at DOMresearch@emory.edu with any questions about this event. Slides will be posted at <http://bit.ly/QualityDay2015> when available.

