

25th Annual IHI Scientific Symposium

Monday, December 9, 2019

**Gaylord Palms Resort & Convention Center
Orlando, Florida**

Attendee Booklet

25th Annual Scientific Symposium

*Hosted by Gareth Parry, Senior Scientist; Clark Jackson, Research Associate; and Cleola Payne, Project Coordinator
Institute for Healthcare Improvement*

Background

Hosted by the Institute for Healthcare Improvement (IHI), the IHI Scientific Symposium takes place on Monday, December 9th, 2019, in Orlando, Florida. The Scientific Symposium aims to attract high quality scientific work, focused on the improvement of health and health care. The Symposium also aims to foster dialog and share learning among participants.

The day features keynote speakers, method sessions, as well as poster and oral presentations from our community of quality improvers. The 32 oral presentations were selected from over 140 abstract submissions through a peer review process that ensured each abstract was reviewed by four reviewers. For those authors who gave permission, the abstracts of the selected oral presentations are published in this supplement.

Gareth Parry
Senior Scientist
Institute for Healthcare Improvement

Acknowledgements

On behalf of the Institute for Healthcare Improvement, the hosts would like to thank the individuals whose contributions have made the 2019 IHI Scientific Symposium a success. Particular thanks are due to the abstract reviewers: Aileen Killen, Andrea Vannucci, Andrew Steele, Asangaedem Akpan, Barbara Olson, Barry Appleton, Brant Oliver, Clark Jackson, Darren Klugman, David Belson, David Williams, Della Lin, Devin Carr, Diane Denny, Don Goldmann, Donald Berwick, Edahrline Salas, Eileen Murtagh Kurowski, Gareth Parry, Jackie Valentine, James Moses, Jeff Rakover, Jens Winther Jensen, Lisa Hirschhorn, Lloyd Provost, Mara Laderman, Marian Bihle Johnson, Marianne McPherson, Matthew Anstey, Nana Twum Danso, Nirav Shah, Padmaja Pavuluri, Patricia Folcarelli, Paul Sullivan, Rebecca Steinfield, Richard McClead, Sandip Godambe, Sharon Muret-Wagstaff, and Wynne Norton without whose efforts we could not have accomplished a Symposium of this quality. Thanks, are also due to those who were willing to submit their research for review. Last, but certainly not least, we thank our advisory group members: Jafet Arrieta, Karen Baldoza, Pierre Barker, Tejal Gandhi, Don Goldmann, Hema Magge, Marianne McPherson, and Gareth Parry, who provided valuable insight and guidance to make this year's Symposium as enriching as possible. Also, special thanks to Cleola Payne, Jason Reed, Karen Barnett, Kirti Chandratreya, and the team at the British Medical Journal, who dedicated countless hours to the development of this year's program and the valuable and generous research shared with us this year.

Agenda

Time	Session
7:30 – 8:00 AM	Registration
8:00 – 8:30 AM	<p>Welcome and Overview Sun A/B Clark Jackson, <i>Research Associate, Institute for Healthcare Improvement</i></p> <p>Keynote Introduction Sun A/B Gareth Parry, <i>Senior Scientist, Institute for Healthcare Improvement</i></p>
8:30–9:30 AM	<p>Keynote Sun A/B “Accelerating Quality: The Promise and Challenges of Integrating Implementation Research” Lisa Hirschhorn, <i>Professor of Medical Social Science and Psychiatry and Behavioral Health, Northwestern University Feinberg School of Medicine</i></p>
9:30 – 9:40 AM	Break and Transition to Rooms
9:40 –11:10 AM	<p>Parallel Abstract Presentations Session A Miami, Sun 1-3, Sun D, Tallahassee 15-minute rapid fire presentations on research in health and health care improvement (see page 5 for further details)</p>
11:10 -12:00 PM	<p>Poster Session Sun C Poster presenters will display their posters for viewing and discussion. (see page 9 for further details)</p> <p>Poster Tour Sun A/B A guided tour of selected posters, hosted by: Don Goldmann, <i>Senior Fellow, Institute for Healthcare Improvement</i> Marie Schall, <i>Improvement Advisor, Institute for Healthcare Improvement</i> (see page 8 for further details)</p>
12:00 – 1:00 PM	Lunch

Agenda

Time	Session
1:00-2:15 PM	<p>Method Sessions Miami, Sun 1-3, Sun D, Tallahassee</p> <hr/> <p>Method Session 1: Implementation Science and Improvement Science: Shall the Twain Meet? Sun D</p> <p>Rohit Ramaswamy, Professor, University of North Carolina Gillings School of Public Health Brian Mittman, Research Scientist, Health Services Research and Implementation Science, Kaiser Permanente Southern California Lisa Hirschhorn, Professor of Medical Social Science and Psychiatry and Behavioral Health, Northwestern University Feinberg School of Medicine Medical School Gareth Parry, Senior Scientist, Institute for Healthcare Improvement Laura Damschroder, Research Health Science Specialist, HSR&D at the VA Ann Arbor Healthcare System Peter Margolis, Professor, Department of Pediatrics, University of Cincinnati</p> <hr/> <p>Method Session 2: Practical Approaches to Addressing Overmeasurement in Healthcare Miami</p> <p>Lucy Savitz, Director, Center for Health Research, Kaiser Permanente Don Goldmann, Chief Science Officer Emeritus, Institute for Healthcare Improvement Michael Posencheg, Associate Chief Medical Officer, Value Improvement, Penn Medicine; Associate Chief, Quality Improvement and Patient Safety, Division of Neonatology, CHOP Matt Stiefel, Director of the Center for Population Health - Kaiser Permanente's Care Management Institute</p> <hr/> <p>Method Session 3: Using the SQUIRE Publication Guidelines to Help You Publish Your QI work Tallahassee 1-3</p> <p>Gregory Ogrinc, Senior Associate Dean for Medical Education, Geisel School of Medicine at Dartmouth David Stevens, Editor Emeritus, BMJ Quality and Safety, Senior Fellow, Institute for Healthcare Improvement</p> <hr/> <p>Method Session 4: Research that Resonates Sun 1-3</p> <p>Mark Dessauer, Vice-President, Spitfire Strategies</p>
2:15-2:30 PM	<p>Break and Transition to Rooms</p>
2:30-4:00 PM	<p>Parallel Abstract Presentations Session B Miami, Sun 1-3, Sun D, Tallahassee</p> <p>15-minute rapid fire presentations of research in health and health care improvement (see page 5 for further details)</p>
4:00 PM	<p>Close and Travel to Marriot World Center</p>
4:30-5:30 PM	<p>Pre-Conference Welcome Reception</p>

Agenda

Time	Session
5:45 PM	Pre-Conference Keynote: Abby Wambach <i>Olympic Gold Medalist, World Cup Soccer Champion & Activist for Gender Equality</i>

Parallel Abstract Presentations Session A | 9:40–11:10 AM

Session 1A | Sun D

Moderated by Brian Mittman

- 1 Driving Team-Based Critical Thinking Using an Emergency Department (ED) Pediatric Assessment Tool
Sandip Godambe, Children's Hospital of the King's Daughters, United States
- 2 Improving the timeliness of care for children with testicular torsion in the pediatric emergency department
Sri Chinta, Medical College of Wisconsin/Children's Hospital of Wisconsin, United States
- 3 Planned Community Paramedicine Visit Program Reduces ED Visits and Readmissions
Amanda Ascher, Bronx Partners for Healthy Communities, SBH Health, United States
- 4 Vaccinating Children in the Emergency Department, a Novel Way to Increase Influenza Vaccination Rates
Shannon Baumer-Mouradian, Medical College of Wisconsin, United States

Session 2A | Sun 1-3

Moderated by Brandon Bennett

- 5 Creativity Over Capital: Using QI to Ensure Access
Talia Buitrago and Sheetal Vora, Atrium Health Levine Children's, United States
- 6 Implementation Analysis of a Comprehensive Patient Safety Program in Guatemala
Henry Rice, Duke Global Health Institute, United States
- 7 The Multiple Sclerosis Continuous Quality Improvement Collaborative (MSCQI): Interim Results of the 3-Year Multi-Center Prospective Step-Wedge Randomized Research Study
Brant Oliver, Dartmouth Geisel School of Medicine, United States
- 8 Transitional Care Center: A Center for Medical and Non-medical Excellence
Nkem Chukwumerije, SCAL Permanente Medical Group, United States

Session 3A | Miami

Moderated by Sharon Muret-Wagstaff

- 9 A postoperative protocol reduces opioids prescribed after pediatric orthopaedic surgery
Kirsten Ross, Vanderbilt University Medical Center Department of Orthopaedic Surgery, United States
- 10 Decreasing Pain Experienced by Hospitalized Pediatric Patients by Increasing the Use of Topical Anesthetics for Peripheral Intravenous (PIV) Line Placement
Emilee Lewis, Connecticut Children's Medical Center, United States
- 11 Improving intervention use for opioid overdose through emergency department electronic medical record work-aids
Mary Funke, Duke University, United States
- 12 Reducing Peri-Operative Opioids in Ambulatory Surgery – A Quality Improvement Project Using Real-World Data
Daniel Low, Seattle Children's Hospital, United States

Parallel Abstract Presentations Session A | 9:40–11:10 AM

Session 4A | Tallahassee 1-3

Moderated by Keziah Imbeah

- 13 Novel Evidence-Based Approach to Digital Outreach Improves Patient Engagement and Health Outcomes in Two Distinct Cohorts of Medicaid Patients
Yolande Pengetnze, PCCI, United States
- 14 A quality improvement collaborative to improve maternal complication identification and use of C-section and blood transfusion in Bihar, India
Clark Jackson, Institute for Healthcare Improvement, United States
- 15 An Innovative Intervention to Improve Respectful Maternity Care in Three Districts in Ethiopia
Birkety Jembere, Institute for Healthcare Improvement, Ethiopia
- 16 The Impacts of Quality Improvement on Maternal and Newborn Health: Findings from an Integrated Intervention in Five Regions in Ethiopia
Abiyoun Kiflie, Institute for Healthcare Improvement, Ethiopia

Parallel Abstract Presentations Session B | 2:30–4:00 PM

Session 1B | Sun D

Moderated by Rohit Ramaswamy

- 17 Improving the Workplace Experience for Pediatricians in an Academic Practice
Heather McLean, Duke University Medical Center, United States
- 18 Resolving Pediatric Population-Level Gaps: Success of an InReach Model
John Morehous, Cincinnati Children's Hospital Medical Center, University of Cincinnati College of Medicine, United States
- 19 Improving Handoff Efficiency in the Pediatric Intensive Care Unit
Callum Rowe, University of California, Davis School of Medicine, United States
- 20 Linking Pediatric Primary Care and Systems: DULCE Expansion via Quality Improvement Advances Patient-Centered Care and Addresses Health-Related Social Needs
MaryCatherine Arbour, Harvard Medical School, United States

Session 2B | Sun 1-3

Moderated by Gareth Parry

- 21 Effect of Data Quality Improvement Intervention on Health Management Information System Data Accuracy: An Interrupted Time Series Analysis
Abiyoun Kiflie, Institute for Healthcare Improvement, Ethiopia
- 22 From No Show to Arrived: Using Machine Learning to Bolster Patient Attendance for Resident Continuity-Clinic Appointments
Jaishree Hariharan, University of Pittsburgh Medical Center, United States
- 23 Outcomes of Creating an Automated Repeat Lactate Rule in Sepsis Patients with Lactate Levels ≥ 2
Mary Ayad, UT Health – McGovern Medical School, United States

Parallel Abstract Presentations Session B | 2:30–4:00 PM

- 24 Implementation of Safety Measures to Reduce Serious Adverse Events in Maternal Unit

Gustavo Janot de Matos, Albert Einstein Hospital, Brazil

Session 3B | Tallahassee 1-3**Moderated by Rebecca Steinfield**

- 25 Applied Lean Principles Decreased Door-to-Floor Length of Stay

Tiffany Sink, Cheyenne Regional Medical Center, USA

- 26 Improving Timeliness of Specialist Referral and Diagnosis for Patients with Suspected Lung Cancer through Standardization

Breanne Golemiac, Queen's University Department of Medicine, Canada

- 27 Sedated MRI Wait Times: Right Size Resourcing, Protocols, and Sequencing for Sedated MRIs

Phillip McGonagill, Nationwide Children's Hospital, United States

- 28 The Roadmap to Success: Creating Unit-Based Teams to Increase Family Centered Rounding and Improve Care Team Communication

Nadia Chaudhry-Waterman and Lesya Tomlinson, Inova Children's Hospital, United States

Session 4B | Miami**Moderated by Bhargavi Sampath**

- 29 Achieving Meaningful Heart Failure Readmission Reductions in A Safety Net Hospital

Deborah Whalen, Boston Medical Center, United States

- 30 Reducing Iatrogenic Low Blood Glucose Episodes During Hospital Management of Pediatric Diabetic Ketoacidosis

Shannon H. Baumer-Mouradian, Medical College of Wisconsin, United States

- 31 Reducing variability in discharge communication reduces administrative burden

Stephanie Lumpkin, University of North Carolina, United States

- 32 The 4 Ms Strategy to Fall Prevention

William Barnett, University of Toledo, United States

Poster Tour Sun A/B | 11:10am–12:00 pm

Don Goldman poster tour in Sun A/B will feature:

- A Avoiding the Need for Opioid Analgesics while Improving Patient Care with Enhanced Recovery After Surgery (ERAS)
Mark Horattas, Cleveland Clinic Akron General, United States
- B Benefits of Launching Pharmacogenomic Testing Program at Mayo Clinic
Tammy McAllister, Mayo Clinic, United States
- C A retrospective study of post-operative pain control in cardiac surgery patients that use marijuana
Leisl Gilchrist, SCL Health, United States
- D Location and Size Matter: Identification of Hospital-Level Factors that Impact Patient Safety Culture
Jennifer Hansen, Frank H. Netter MD School of Medicine, United States

Marie Schall poster tour in Sun A/B will feature:

- E Implementing Community Health Worker-Patient Pairings at Hospital Discharge
Jocelyn Carter, Massachusetts General Hospital, United States
- F Value of Managing Acute Pancreatitis with Standard Order Sets to Achieve “Perfect Care”
Elaina Vivian, Methodist Dallas Medical Center, United States
- G Battling Pediatric Obesity: A Resident Lead QI Initiative to Improve Follow-Up
Liberty Strange, Inova Health System, United States
- H Behavior Safety Team: Decreasing Employee Injury from Aggressive Patient Interactions
Rena Sorenson, Cincinnati Children’s Hospital, United States

Poster Session Sun C | 11:10–1:00 pm

- 1 Data Transparency Improves Bar Code Medication Administration Compliance: An Approach for Better Quality and Safety
Mei Kong, Coney Island Hospital
- 2 Optimizing Glucose Meter Downloads at Parkland Diabetes Clinic
Annette Irving and Eleanor Phelps, UT Southwestern Medical Center
- 3 Reliability of an Incident Analysis Tool in Radiation Oncology
Deen Gu, University of North Carolina School of Medicine
- 4 A Unique Systems Based Practice Rotation in Internal Medicine Residency to Foster Culture of Quality Based on IHI Modules
John Pamula, Guthrie Clinic, Robert Packer Hospital
- 5 AcceleratED Care: New Patient Flow Design in the Pediatric Emergency Department Decreasing % of Left Without Being Seen (LWBS) Patients
Alexie Puran, NYC Health + Hospitals/Harlem
- 6 Improving Access to Pediatric Outpatient Behavioral Health Services by Implementing a New Intake Model
Christina Jones, Children's Hospital of Philadelphia
- 7 The Impact of Coordinated Process Change on Laboratory Turnaround Time
Mary Collazo, Saint Barnabas Medical Center
- 8 Why Patients Leave When They Do, Searching for Improved Hospital Flow
Joseph Luke O'Neill, University of South Florida
- 9 'Culture and Values' and Quality: Association between Glassdoor Employee Reviews and CMS Quality Measures in New York Hospitals
Sarah Bonzo and Toni Benner, State University of New York at Oswego
- 10 Female External Catheter Use: A Way to Reduce CAUTI
Mei Kong, Coney Island Hospital
- 11 Improving breast milk feedings for VLBW infants in the NICU – from Quality Improvement to Culture Change
Amanda Wasko, University of Hawaii School of Medicine
- 12 Quality improvement project to Increase uptake of Maternity waiting home in Wacha primary hospital
Biniam Teshome, Wacha Primary Hospital
- 13 Quality Improvement Project to reduce stillbirth in Wacha Primary Hospital 2019
Biniam Teshome, Wacha Primary Hospital
- 14 An Improvement Science Application to Organizational Development in State Health Department Chronic Disease Unites
Jeanne Alongi, National Association of Chronic Disease Directors
- 15 Promoting Adoption of Clinical Pathways by Adjusting Implementation Methods
Joshua Male, UChicago Medicine
- 16 An Organizational Approach to Mortality Index Reduction
Charul Haugan and Sandra Page, UNC REX Healthcare

Poster Session Sun C | 11:10–1:00 pm

- 17 Clinical Pathway of Coronary Computed Tomographic Angiography (CCTA) in the Outpatient Domain for Intermediate Risk Chest Pain
Jeffrey Kuhlman, AdventHealth
- 18 Factors Associated With Inpatient Deterioration and ICU Transfer
Thomas Higgins, The Center for Case Management, Natick MA
- 19 First catheter ablations in the Ministry of Health system of Peru: Report of the initial experience
Raul Montanez-Valverde, Jackson Memorial Hospital, University of Miami Miller School of Medicine
- 20 How EBPOI Improved Access, Enhanced Outcomes, and Reduced Costs for Elderly Patients with Geriatric Hip Fracture: "Code-Hip" Pilot Study
Marc Koch, Somnia Inc.
- 21 Readmission to hospital after radical prostatectomy: SPC analysis
Jens Winther Jensen, Regionernes Kliniske Kvalitetsudviklingsprogram (RKKP)
- 22 The Impact of Accurate & Timely *Clostridioides difficile* Testing in Reducing Costs and Improving Patient Outcomes
Eileen Yaney, Saint Barnabas Medical Center – RWJBarnabas Health
- 23 Reduction of Post-Operative Opioid Prescriptions in Pediatric Patients
Michael Dykes, Nationwide Children's Hospital
- 24 Get on the Bus! Teaching Cultural Humility through the UC Davis Interprofessional Central Valley Road Trip
Jann Murray-Garcia, University of California Davis
- 25 Improving Provider Communication with Limited English Proficiency Medical Inpatients
Sidra Javed, University of Calgary
- 26 Improving Resident Centered Continuity Rate in Primary Care Teaching Clinic
David Rutenberg, University of South Florida
- 27 Reducing Variability in Rehabilitation: Use of Clinical Knowledge Brokers
Patricia Scheets, Infinity Rehab
- 28 PDSA Uptake in Outpatient Pediatric Practices: Five Strategies Leading to Increased Confidence and Sustained Use
Jennifer Powell, Powell & Associates
- 29 Characteristics of quality activities in a tertiary hospital in Western Australia
Qun Catherine Li, Fiona Stanley Fremantle Hospital Group
- 30 Improving Clinical Quality and Safety through immersive Teamwork Simulation and Systems Integration
Sharon Muret-Wagstaff, Emory University School of Medicine
- 31 Improving Hand Hygiene Culture and Practice by Implementing the World Health Organization Multimodal Hand Hygiene Strategy in University Healthcare
Pasquale Frisina, Princeton University Health Services
- 32 Efficacy of a Bundled Payments for Care Innovation Program for Chronic Obstructive Pulmonary
Katherine Sullivan, University of Chicago
- 33 In a National Sample, Patients Costs are Lower, Utilization of Preventive Services is Higher in Dental Medicaid Alternative Payment Models
Carolyn Brown, Carolyn Brown and Associates

Poster Session Sun C | 11:10–1:00 pm

- 34 Centralizing Reporting to Support System-Wide Expansion of a Pathway
Lyla Hance, University of North Carolina School of Medicine
- 35 Risk stratification in Abu Dhabi Ambulatory Healthcare Services.
Shamma ALAlawi, SEHA Ambulatory Healthcare Services
- 36 Wait Loss in the OR: Using Lean Methods to Reduce Waste
Amanda Carson, Cheyenne Regional Medical Center
- 37 ResQIPS, an interprofessional program to increase engagement in research, quality improvement, and patient safety
Alison Essary, HonorHealth
- 38 Catheter-Associated Urinary Tract Infection Reduction in Critical Care Units: A Bundled Care Model
Stephanie Van Decker, Boston Medical Center
- 39 Innovative Practice Strategies for Preventing Hospital- Acquired (HAI) Clostridioides Difficile (CDI) in a Community-Based Hospital
Doreen McSharry and Jeffrey M. Raskin, Hackensack Meridian Health-Palisades Medical Center
- 40 Quality Improvement of Venous Thromboembolism Prophylaxis by a Resident-Driven Strategy: A Prospective Clinical Study
Chunjie Li, Montefiore Mount Vernon Hospital, Albert Einstein College of Medicine
- 41 The ABC's of Reducing Stroke
Paige Krack, Cincinnati Children's Hospital
- 42 Electronic Medical Record (EMR) Defaults to Improve Naloxone Co-Prescribing
Nicholas Cordella, Boston Medical Center
- 43 A Qualitative Assessment of Negative Comments on Emergency Department Patient Experience Surveys
Gabriel Feuerstein-Mendik, Mount Sinai Beth Israel
- 44 Formative Evaluation of a Dashboard to Support Coproduction of Healthcare Services in the Cystic Fibrosis Community
Aricca Van Citters, The Dartmouth Institute for Health Policy & Clinical Practice
- 45 Interventions to increase paramedic engagement of patients in shared decision-making
Allison Infinger, Mecklenburg EMS Agency
- 46 Improving Care Quality and Safety by Implementing the High Reliability Framework within a Care Transformation Model
Thomas G Flynn, Bon Secours Mercy Health
- 47 Childhood Poverty in the Emergency Room: Using Quality Improvement for Better Identification and Support of Poor Families in Clinical Practice
Guddi Singh, East London National Health Service

IHI Scientific Symposium Map 2019



 Restrooms
  Registration
  Food