

SAFETY QUEST

How Many Future Lives Will You Save?

The Safety Quest Series: <http://safetyquest.stanford.edu>

Patient Safety and Quality Improvement

Modern healthcare is complex and has many opportunities for error. To ensure patient safety, hospitals and healthcare systems must continually strive to work together as a team, create a culture of patient safety, and identify and mitigate risks.

Safety Quest is a sequential series of online CME gaming modules (levels 1 - 4) that provide an innovative and immersive experience to understanding the underlying causes of patient safety issues. This unique educational program emphasizes a problem-solving approach to preventing errors in all healthcare settings and seeks to ensure that patients are provided with care that supports the key quality aims of the Institute of Medicine.

Throughout the series, learners will work to save patients from preventable harm and will gain problem solving quality improvement and safety tools to approach these issues. Case-based scenarios using multiple game modalities will be used to put these principles into practice and save future lives.



Scan here to play Safety Quest for free CME



Welcome

Quality Improvement & Patient Safety Symposium



Monday, May 13th, 2019

3:30 PM -5:00 PM

SHC Atrium & Breezeway

300 Pasteur Drive

Stanford, CA 94305

Special Thanks to...

RSC Executive Committee Members

- ◆ Justin Slade, M.D. (outgoing co-chair)
- ◆ Katherine Werbaneth, M.D. (outgoing co-chair)
- ◆ Swati Yanamadala, M.D. (incoming co-chair)
- ◆ Haley Manella, M.D. (incoming co-chair)
- ◆ Lisa Shieh, M.D., PhD, FHM (Program Director)

RSC Executive Sponsors

- ◆ David Entwistle, Chief Executive Officer, SHC
- ◆ Karen Frush, BSN, MD, CPPS, Chief Quality Officer, SHC
- ◆ Norman Rizk, M.D., Chief Medical Officer

Event Coordinator:

- ◆ Luisa Fernandez - Project Coordinator

RSC Steering Committee

- ◆ Alpa Vyas, VP
- ◆ Amy Lu, M.D.
- ◆ Barbara Mayer, RN
- ◆ Carl Gold, M.D.
- ◆ Christine Henley, RN
- ◆ David Larson, M.D.
- ◆ Hirut Truneh, M.D.
- ◆ Karen Frush, BSN, MD, CPPS
- ◆ Katie Kvam, M.D.
- ◆ Lance Downing, M.D.
- ◆ Larry Katznelson, M.D.
- ◆ Lauren Destino, M.D.
- ◆ Lisa Shieh, M.D., PhD
- ◆ Nilushka Melnick
- ◆ Patty Duhon, RN
- ◆ Sam Shen, M.D.
- ◆ Sharon Hampton, RN
- ◆ Stephanie Harman, MD
- ◆ Tom Caruso, MD

*Extra special thanks to
David Entwistle, CEO,
and
Laurence Katznelson, MD
Chair of GME*



Thank you to our Quality Leaders for their continued support.



**Karen Frush BSN, MD,
CPPS, Chief Quality Officer,**



**Lisa Schilling RN, MPH, CPHQ
Vice President, Quality, Safety and
Clinical Effectiveness**

Author/Department-Presentation

- 71) **Erica Von Stein, M.D./Neurology:** Reducing Stanford ED Utilization for Breakthrough Seizures in Patients with Epilepsy
- 72) **Cindy Wang, M.D./Medicine - Cardiology:** Efficient Left Atrial Appendage Evaluation Using MicroTEE Transducer Yields High Patient Satisfaction
- 73) **Hilary Wang, M.D./Neurology:** Improving neurology patient knowledge of medications at discharge
- 74) **Hilary Wang, M.D./Neurology:** Quantifying the burden of unfilled clinic appointment slots created by late-notice cancellations
- 75) **S Dina Wang-Kraus, M.D./Psychiatry:** Management of Suicidal Callers at SHC
- 76) **Keir Warner, M.D./Emergency Medicine:** Creating a 21st Century Dental Box
- 77) **Keir Warner, M.D./Emergency Medicine:** Improving Trauma Charting Accuracy by Leveraging the Electronic Medical Record
- 78) **Katherine Werbaneth, M.D./Neurology:** Developing an Outpatient Neurology Resident Curriculum and Entrusted Professional Activities (EPAs)
- 79) **Swati Yanamadala, M.D./Medicine - Internal Medicine:** There is No Place Like Home: Physician, Nursing, and Patient Perceptions on the Impact of Co-Localization
- 80) **JoJo Yang, M.D./Neurology:** Building and implementing an interdisciplinary protocol for the brain code.
- 81) **Muharrem Yunce, M.D./Pathology - Transfusion Medicine:** Reducing Length of Stay and Red Blood Cell Transfusion by Implementing an Anesthesia Anemia Management Clinic
- 82) **Nicholas Zehner, M.D./Medicine:** Measuring the Impact of the a Three Good Things in Life Positive Psychology Intervention on Inpatient positivity and outcomes

Special Thanks to...

Graduate Medical Education Office

- ◆ Larry Katznelson, M.D. Associate Dean for GME
- ◆ Ann Dohn, MA, Director, GME
- ◆ Alexandra Belichenko-Azar- Administrative Asst.
- ◆ Thang "Trey" Huynh-Ngo—Project Coordinator

Patient Experience

In understanding new medication side effects.

- ◆ Team Leader Shefali Dujari
- ◆ Team Leader Hilary Wang
- ◆ Faculty Mentor Lisa Shieh
- ◆ Faculty Mentor Alpa Vyas
- ◆ Nursing Leader Sharon Hampton
- ◆ Nursing Leader Hirut Truneh
- ◆ Co-Chair Advisor Justin Slade
- ◆ Team Member Michael Heffner
- ◆ Team Member Ruth Hsu
- ◆ Team Member Anahita Dua
- ◆ Team Member Csilla Lippert
- ◆ Team Member Benjamin Weia
- ◆ Team Member Sun Kim
- ◆ Team Member Tiffany Chambers

Voalte Secure Messaging in Critical Events

- ◆ Team Leader Ron Li
- ◆ Team Leader Sammita Satyanarayan
- ◆ Faculty Mentor Katie Kvam
- ◆ Faculty Mentor Christopher Sharp
- ◆ Nursing Leader Patrice Duhon
- ◆ Co-Chair Advisor Katherine Werbaneth
- ◆ Team Member That Nam Tran "Sony" Ton

Special Thanks to...

Improving Safety Culture

- ◆ Team Leader Erna Forgo
- ◆ Team Leader Kathleen Kan
- ◆ Faculty Mentor Thomas Caruso
- ◆ Faculty Mentor Karen Frush
- ◆ Nursing Leader Trish Britt,
- ◆ Co-Chair Advisor Swati Yanamadala
- ◆ Team Member Ellen Satteson
- ◆ Team Member Jenny (Jingjing) Chen
- ◆ Team Member Jason Powell
- ◆ Team Member Emily Larimer
- ◆ Team Member Aminaa Siddiqi
- ◆ Team Member Aryan Fotros
- ◆ Team Member Anne McHugh
- ◆ Team Member Joshua Wenner
- ◆ Team Member Shi Liu
- ◆ Team Member Dexter Louie
- ◆ Team Member Meenakshi Denduluri

Improving Goals of Care though POLST completion

- ◆ Team Leader Mukund Ramkumar
- ◆ Team Leader Jessica Langston
- ◆ Faculty Mentor Stephanie Harman
- ◆ Faculty Mentor Winnie Teuteberg
- ◆ Faculty Mentor Michael Gisondi
- ◆ Nursing Leader Christine Henley
- ◆ Co-Chair Advisor Haley Manella
- ◆ Team Member Tiffany Lee
- ◆ Team Member Lindsey Grabek
- ◆ Team Member Kimberly Hall
- ◆ Team Member Lindsey Daudt
- ◆ Team Member Katie Hansen
- ◆ Team Member Meenakshi Denduluri

Author/Department-Presentation

- 58) **Allison Roe, M.D./Orthopedic Surgery:** A Novel Preference Elicitation Tool for Anesthetic Choice in Hand Surgery
- 59) **Sammita Satyanarayan, M.D./Medicine - Internal Medicine:** Utilizing novel two-way communication methods to understand peri-urgent communication.
- 60) **Blake Schultz, M.D./Orthopedic Surgery:** Does Melatonin Affect Sleep Disturbance and Outcomes in Orthopedic Trauma Patients- A Prospective, Randomized Control Trial
- 61) **Blake Schultz, M.D./Orthopedic Surgery:** Prospective Validation of a Novel Serum mRNA Gene Panel for Diagnosis of Acute Septic Arthritis
- 62) **Lauren Shapiro, M.D./Orthopedic Surgery:** Assessing the Patient Perspective on Patient Reported Outcome Measures Following Elective Hand Surgery: A Convergent Mixed-Methods Analysis
- 63) **Lauren Shapiro, M.D./Orthopedic Surgery:** Understanding the Patient Experience: Analysis of Two-Word Assessment and its Relationship to Likelihood to Recommend in Outpatient Hand Surgery
- 64) **Lauren Shapiro, M.D./Orthopedic Surgery:** Needs Assessment to Promote Capacity Building in Hand Surgery Outreach Trips
- 65) **Surbhi Singhal, M.D./Internal Medicine:** Warm Regards: A Randomized Intervention of a Standard Discharge Letter
- 66) **Justin Slade, M.D./Medicine - Internal Medicine:** Reducing Inappropriate Utilization of the Intermediate Intensive Care Unit Amongst Cardiovascular Medicine Providers
- 67) **Samuel Spiegel, M.D./Neurology:** Improving delay in detection and treatment of intermittent focal and subclinical seizures
- 68) **Christine Stypula, M.D./Department of Anesthesiology, Perioperative, and Pain Medicine:** Creation of an anonymous resident reporting system to identify significant peri-operative events to enhance resident education, improve patient safety, and identify factors requiring quality improvement.
- 69) **Kate Therkelsen, M.D./Neurology:** A Medical Legal Curriculum for Residents to Increase Physician Comfort in Patient Interactions
- 70) **Noelle, Van Ryselberghe, M.D./Orthopedic Surgery:** Clinical Care Re-design of the Geriatric Hip Fracture Pathway “A Before and After Implementation Study

Author/Department-Presentation

Cardiac Arrest in the Emergency Department

- 44) **Anisha Mazloom, M.D./Pediatrics:** Using the Electronic Medical Record (EMR) to Reduce CLABSI Rates in the PICU by Improving Maintenance Bundle Compliance
- 45) **James McAvoy, M.D./Anesthesia, Perioperative and Pain Medicine:** Pennywise and a Pound Foolish: The Advantage of Dantrolene Nano-suspension (Ryanodex) in the Treatment of Malignant Hyperthermia
- 46) **Alicia Mirza , M.D./Medicine - Internal Medicine:** Improving the Pediatric to Adult Transition for Cystic Fibrosis Adolescents
- 47) **Pratyusha Narra, M.D./Medicine - Geriatric:** Developing a Skilled Nursing Facility Curriculum for Geriatric Medicine Fellows
- 48) **Jenny Pan , M.D./Surgery (General):** Improving electronic delivery of patient information during transfer between hospitals
- 49) **Jonathon Parker, M.D./Neurosurgery:** Improving the Peri-Operative Imaging Workflow for Pediatric Epilepsy Surgery at Lucile Packard Children's Hospital
- 50) **Sara Pavitt, M.D./Neurology :** Improving Bedside Care of Pediatric Epilepsy Monitoring Unit Patients
- 51) **Sara Pavitt, M.D./Neurology:** Improving the Inpatient MRI Experience Through Pre-procedure Patient Education
- 52) **Sara Pavitt, M.D./Neurology:** CREATION AND IMPLEMENTATION OF A STANDARDIZED TOOL TO IMPROVE INPATIENT CONSULT COMMUNICATION
- 53) **David Post, M.D./Neurology:** Improving Scheduling and Efficiency in Neuro-Diagnostic Lab
- 54) **Anna Postolova, M.D./Medicine - Rheumatology:** Re-training the well trained: Assessing the barriers of using RAPID3 for rheumatoid arthritis
- 55) **Mukund Ramkumar, M.D./Medicine- Critical Care Medicine:** If a tree falls in the woods. improving POLST completion rates to memorialize patient care preferences
- 56) **Ashley Rawls, M.D./Neurology - Movement Disorders:** Reduction of Wait Time from Central Check-In to Destination in Outpatient Neurology Clinic
- 57) **Ryan Ribeira, M.D./Emergency Medicine:** Development and implementation of a mobile app to facilitate hospital admissions

Welcome from RSC Executives

Dear Colleagues,

Welcome to the 2019 Resident Quality Improvement Patient Safety Symposium

The 5th Annual Resident Quality Improvement/Patient Safety Symposium is an opportunity for Stanford Healthcare and Stanford Children's Hospital students, residents and fellows to share their safety and healthcare improvement projects with other trainees and faculty. This is held annually to showcase the quality improvement and patient safety research being done across programs at the hospital and medical school. It is also a great opportunity to interact with the institutional and quality improvement leaders here at Stanford.

Awards/Recognition

- Top **12** Abstracts award, **1** Multidisciplinary teamwork award, and **1** Medical Student award(\$50 gift card per award, C-I-CARE Cards for presenting author on the abstract)
- **Raffling 2 gift cards** for completing safety culture survey
- Department with the most abstracts will receive C-I-CARE Cards .

SHC Safety Culture Survey ! From May13th,2019 - May 31,2019

"SHC Safety Culture Survey is now open until

May 31st and takes as little as 10 minutes!

Please help us understand how to improve the conditions in which you work and the safety and reliability of the care you deliver to patients.

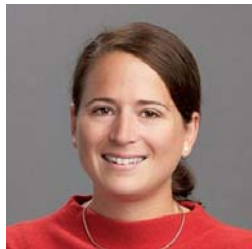
Weekly raffle prizes including Amazon gift cards are up for grabs!!"



Chief Judges



Lisa Shieh, MD, PhD, FHM



Lauren Destino, MD



Sam Shen, MD



Amy Lu, MD

Multispecialty Judges



Paul Maggio, MD, MBA, FACS



Barbara Meyer, PhD, RN, PhD

Student Team Judges



David Larson, MD, MBA



Tricia Britt, MSN, RN, CNS, NEA-BC

Author/Department-Presentation

- ing acute urinary retention with heating pads in the elderly
- 30) **Mia Kanzawa, M.D.** :Attitudes of medical trainees towards Safety Quest: a novel, online, gamified Quality Improvement course
 - 31) **David Kim, M.D./Emergency Medicine:** Addressing Social Disparities in ED Hallway Bed Assignment
 - 32) **Lironn Kraler, M.D./Neurology:** Improving door-to-needle times in acute stroke care with pre-hospital intervention
 - 33) **Christina Lalani, M.D./Stanford School of Medicine:** Identifying Best Practices For Early Identification of Sepsis: A Retrospective Analysis of Current Sepsis Screening Protocols at Stanford Hospital
 - 34) **Maya Landan, M.D./Pediatrics:** Improving Safe Sleep on Maternity at LPCH
 - 35) **Rebecca Levy, M.D./Neurology:** Continuous EEG for Seizure Detection in Neonates after Cardiac Bypass without Deep Hypothermic Cardiac Arrest
 - 36) **Yi Li, M.D./Neurology:** Curriculum development for neurology residents during the epilepsy rotation
 - 37) **Csilla Lippert, M.D./Psychiatry:** Design and implementation of a call checklist for psychiatry interns
 - 38) **Elizabeth Lippner, M.D./Pediatrics:** Demystifying antibiotic allergy: de-labeling to optimize antibiotic therapy and reduce costs
 - 39) **Teresa Liu, M.D./Medicine - Internal Medicine:** The Medicare Admission Status Conundrum: Assessing the Understanding of Observation versus Inpatient Status in Internal Medicine and Emergency Medicine Residents
 - 40) **Cassie Ludwig, M.D./Ophthalmology:** Preventing Nosocomial Exposure Keratopathy in Pediatric Critical Care
 - 41) **Adam MacLellan, M.D./Neurology:** Reducing duration and cost of anti-hypertensive infusions in critically ill patients with intracerebral hemorrhage
 - 42) **Jai Madhok, M.D./Internal Medicine:** Evaluation of short-stay admissions to the hospital medicine service and utilization of clinical pathways
 - 43) **Haley Manella, M.D./Emergency Medicine:** Training for Success: Introducing Team-Based Resuscitation Training and Quality Assurance for

Author/Department-Presentation

- 15) **Erna Forga , M.D./Pathology:** 52-in-52 Project: Improving the Gross Room Work Station Schedule after Sub-Specialization
- 16) **L Henry Goodnough, M.D./Orthopedic Surgery:** Implementation of an External Fixator Reprocessing Program and Associated Cost Savings
- 17) **Tarini Goyal, M.D./Neurology:** A novel curriculum to improve neurology residents goals of care communication skills
- 18) **Divya Gupta, M.D./Medicine - Internal Medicine:** Understanding Patients Perspective of Cost-of-Care: The Financial Implications of Observation Medicare Admission Status
- 19) **Andrew Harkins, M.D./Pediatrics:** Quality Improvement Project to Decrease Time to Corticosteroid Therapy in Patients with Acute Asthma Exacerbation in the Pediatric Emergency Department
- 20) **Katherine Helmuth, M.D./Pediatrics:** Implementation of schedule-based family centered rounds on an inpatient pediatrics team.
- 21) **Leigh Hickerson, M.D./Anesthesia - Cardiac Anesthesia:** Detection of oxygen delivery failure on cardiopulmonary bypass
- 22) **Allen Ho, M.D./Neurosurgery:** Comprehensive Enhanced Recovery After Surgery (ERAS) Program for Elective Spine Surgery: Results from Anterior Cervical Discectomy and Fusion Patients
- 23) **Allen Ho, M.D./Neurosurgery:** Implementation of ERAS in Posterior Lumbar Fusion: Prospective Results from an EHR-Linked Patient Registry
- 24) **Nisha Jadhaw, M.D./Family Medicine:** Improving Postpartum Long Acting Reversible Contraception (LARC) Rates in a Family Medicine Clinic
- 25) **Karolina Jaluba, M.D./Medicine - Internal Medicine:** Clinical outcomes associated with encounter to balloon vs door to balloon: a retrospective study
- 26) **Sam Jiang, M.D./Orthopedic Surgery:** Patients Find Video recording Instructions for Post-Operative Ankle Fracture Care Useful
- 27) **Andrea Jonas, M.D./Medicine - Pulmonary and Critical Care:** ICU-Based Palliative Care for Older Adults with Traumatic Head Injuries: A Feasibility Study
- 28) **Andrea Jonas, M.D./Medicine - Pulmonary and Critical Care:** ICE-QUIP: Inhaler Compliance Education-Quality Improvement Project
- 29) **Aarathi Kannan, M.D./Medicine - Geriatric:** To pee or not to pee - Treat-

Judges

Thank you to our amazing judges !

- ◆ Anuradha Phadke
- ◆ Steven Chinn
- ◆ David Crichton
- ◆ Patrice Duhon
- ◆ Benjamin Elkins
- ◆ Karen Frush
- ◆ Laleh Gharahbaghian
- ◆ Carl Gold
- ◆ Eric Hadhazy
- ◆ Paul A. Heidenreich
- ◆ Marisa Holubar
- ◆ John Ratliff
- ◆ Alexandra (Sasha) Madison
- ◆ Jake Mickelsen
- ◆ Shelagh Nolan
- ◆ Allen Orsi
- ◆ Lisa Schilling
- ◆ Stacy Serber
- ◆ Jay Shah
- ◆ Christopher Sharp
- ◆ Nivedita Srinivas
- ◆ Octavio Villa
- ◆ Alpa Vyas
- ◆ Ann Weinacker
- ◆ Laurice Yang
- ◆ Michelle DeNatale
- ◆ Fahmeedah Kamal
- ◆ Ruth Fanning
- ◆ Jason Francis
- ◆ Hirut Truneh
- ◆ Larry Katznelson
- ◆ Sara Goldhaber
- ◆ Sharon Hampton
- ◆ Margaret Smith
- ◆ Thomas Caruso
- ◆ Marie Wang
- ◆ Neera Ahuja

Agenda

3:15PM

Welcome

Lisa Shieh, MD, PhD, FHM

Clinical Professor of Medicine

Associate Chief Quality Officer, SHC

Medical Director of QI Programs, Graduate Medical Education

Stanford University School of Medicine

3:20pm

Opening Remarks

Laurence Katznelson, M.D.

Associate Dean of Graduate Medical Education

Professor of Neurosurgery and Medicine

Karen Frush, BSN, M.D., CPPS

Chief Quality Officer, SHC

Lisa Schilling RN, MPH, CPHQ

Vice President, Quality, Safety and Clinical Effectiveness

Sam Shen, M.D.

ACQO, SHC Patient Safety Officer

Justin Slade, M.D. and Katherine Werbaneth, M.D.

Resident Safety Council Co-Chairs

3:30pm

Poster Session will begin, each presenter will have 5 minutes, and 2 minutes for Q & A.

4:30pm

Deliberation of Top Presentations

5:00pm

Announcement of **Winners!**

Author/Department-Presentation

- 1) **Ananta Addala, M.D./Pediatrics - Pediatric Endocrinology:** Thyroid Diary: A Tracking Document for Monitoring Infants and Toddlers with Congenital Hypothyroidism
- 2) **Pooneh Ardestani, M.D./Neurology:** 3D printed models of brain and intracranial electrodes for epilepsy education and surgical planning
- 3) **Nina Bozinov, M.D./Neurology:** Improvements in clinical, laboratory, and Epic workflow to eliminate errors in diagnostic lumbar punctures.
- 4) **Julia Chandler, M.D./Surgery (General):** Improving Care for Pediatric Trauma Patients: PTSD Screening & Secondary Prevention
- 5) **Amy Chang, M.D./Medicine - Infectious Disease:** Antimicrobial Stewardship in Immunocompromised Patients: Evaluating Management of First Episodes of Febrile Neutropenia in Patients with Hematologic Malignancies
- 6) **Amy Chang, M.D./Medicine - Infectious Disease:** Results from Realizing Improvement through Team Empowerment: A Multi-Disciplinary Team-based Quality Improvement Initiative to Reduce Clostridioides difficile Rates and Promote Antimicrobial Stewardship on E3/F3
- 7) **Neel Chari, M.D./Medicine - Internal Medicine:** A high value care checklist for improving laboratory test, telemetry, and level of care utilization on general medicine
- 8) **Julia Cremer, M.D./Medicine - Geriatric:** Why are They Eating Dinner in Bed: Barriers to Mobility in Hospitalized Older Adults
- 9) **Brandi Criss, M.D./Pediatrics - Adolescent Medicine:** Improving Vision Screening in a Primary Care Adolescent Clinic
- 10) **Collin Culbertson, M.D./Neurology:** Creating an Institutional Protocol for MRI in Patients with Legacy Cardiac Rhythm Devices
- 11) **Malcolm DeBaun, M.D./Orthopedic Surgery:** Shared Decision Making in Operative versus Nonoperative Displaced Midshaft Clavicle Fractures
- 12) **Meenakshi Denduluri, M.D./Psychiatry:** Assessing and Documenting Code Status among Psychiatric Inpatients: Addressing the Gap
- 13) **Shefali Dujari, M.D./Neurology:** Improving Resident Communication with Patients about Medication Side Effects
- 14) **Erna Forga, M.D./Pathology:** Resident Safety Council (RSC): Culture of Safety Project 2018-2019 - A Quality Improvement Initiative to Optimize Process and Access to Resident SAFE Reports