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

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**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

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- Lauren Destino, M.D.
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- Patty Duhon, RN
- Sam Shen, M.D.
- Sharon Hampton, RN
- Stephanie Hamann, 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
Special Thanks to...

**Improving Safety Culture**
- Team Leader: Ema 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 through POLST completion**
- Team Leader: Mukund Ramkumar
- Team Leader: Jessica Langston
- Faculty Mentor: Stephanie Haman
- 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

58) **Allison Roe, M.D./Orthopedic Surgery:** A Novel Preference Elicitation Tool for Anesthetic Choice in Hand Surgery
59) **Sammint 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 Ryselbergh, M.D./Orthopedic Surgery:** Clinical Care Redesign of the Geriatric Hip Fracture Pathway â€“ A Before and After Implementation Study
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 May 13th, 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!"

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


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
6

Chief Judges

Lisa Shieh, MD, PhD, FHM
Sam Shen, MD

Multispecialty Judges

Paul Maggio, MD, MBA, FACS
Barbara Meyer, PhD, RN, CNS, NEAC

Student Team Judges

David Larson, MD, MBA
Tricia Britt, MSN, RN, CNS, NEA-BC

Author/Department-Presentation

30) Mia Kanzawa, M.D.: Attitudes of medical trainees towards Safety Quest: a novel, online, gamified Quality Improvement course
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
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

15) Erna Forga, M.D./Pathology: 52-in-52 Project: Improving the Gross Room Work Station Schedule after Sub-Specialization
17) Tarini Goyal, M.D./Neurology: A novel curriculum to improve neurology residents goals of care communication skills
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
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) Aarthi Kannan, M.D./Medicine - Geriatric: To pee or not to pee - Treat-
### Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>3:15PM</td>
<td>Welcome</td>
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<tr>
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<td><strong>Lisa Shieh, MD, PhD, FHM</strong></td>
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<td>Clinical Professor of Medicine</td>
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<td>Associate Dean of Graduate Medical Education</td>
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<td>Stanford University School of Medicine</td>
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<tr>
<td>3:20pm</td>
<td>Opening Remarks</td>
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<td><strong>Laurence Katzenelson, M.D.</strong></td>
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<td>Associate Dean of Graduate Medical Education</td>
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<td>Professor of Neurosurgery and Medicine</td>
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<td><strong>Karen Frush, BSN, M.D., CPPS</strong></td>
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<td>Chief Quality Officer, SHC</td>
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<td><strong>Lisa Schilling RN, MPH, CPHQ</strong></td>
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<td>Vice President, Quality, Safety and Clinical Effectiveness</td>
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<td><strong>Sam Shen, M.D.</strong></td>
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<td>ACQO, SHC Patient Safety Officer</td>
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<td><strong>Justin Slade, M.D. and Katherine Werbaneth, M.D.</strong></td>
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<td>Resident Safety Council Co-Chairs</td>
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<td>3:30pm</td>
<td>Poster Session will begin, each presenter will have 5 minutes, and</td>
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<td>2 minutes for Q &amp; A.</td>
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<td>4:30pm</td>
<td>Deliberation of Top Presentations</td>
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<td>5:00pm</td>
<td>Announcement of Winners!</td>
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### 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