

#### **Disclosure**



### **Objectives**

- Explore participant's local opportunities in existing safety educational programs for undergraduate, graduate, and faculty-level learners.
- Identify key stakeholders, target learners, current versus desired state, and timeline to implementation for safety curricula.
- Utilize novel frameworks and existing templates for development and implementation of the following:
  - 1. Patient Safety Morning Report,
  - 2. Inter-professional Morbidity, Mortality and Improvement (MM&I) Conference,
  - 3. Team-based In Situ Simulation Program leading to quality improvement initiatives.

©UICOM-P lune 15, 2017





## **Background: Patient Safety**



- 'To Err Is Human', IOM 1999
  - 44,000-98,000 deaths per year from medical error
- 'Free From Harm', NPSF 2015
  - "Scale of improvement...has been limited"
  - "Many interventions have proven effective...many more have been ineffective"
  - "...system continues to operate with a low degree of reliability"
  - Broadens scope beyond inpatient care, mortality





### **Background: Education**

- Providers at all levels need curricula on safety
- AAMC: 'Identify system failures and contribute to a culture of safety and improvement'
- ACGME: 'Work in inter-professional teams to enhance patient safety and improve patient care quality'
  - 2016 CLER Report: Lots of room for improvement
    - Safety education varied widely, most was didactic
    - Little exposure to multidisciplinary efforts
- MOC: Requires competency in safety, quality
- Joint Commission: National Patient Safety Goals

@UICOM-P lune 15, 2017





## **Outline for Today**



- 3 groups (pick 2)
  - Patient Safety Morning Report
  - Inter-professional Morbidity, Mortality and Improvement (MM&I) Conference
  - Team-based In Situ Simulation Program
- Each will discuss
  - Our institution's curriculum (next slides)
  - How to implement a similar program at your institution





## 1. Patient Safety Morning Report

 Michele Beekman, MD, FAAP **Assistant Professor of Clinical Pediatrics** Pediatric Hospitalist, Co-director of Pediatric Sedation Assistant Program Director, Peds Residency



Robert Wolford, MD, M.M.M, CMQ **Director of Quality and Process Improvement** 

Department of Emergency Medicine



Vamsi Emani, MD, FACP Asst. Program Director, Internal Medicine Residency, **Assistant Professor of Clinical Medicine** Hospitalist



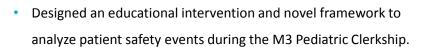


©UICOM-P June 15, 2017





## 1. Patient Safety Morning Report



#### **Objectives:**

- Teach learners to identify actual and potential lapses in safety
- Discuss the domains in which these safety breaches occurred using a conceptual framework
- Identify methods/solutions to overcome these patient safety issues
- Foster a safe and supportive learning environment





# 1. Patient Safety Morning Report

- Can be adapted to
  - GME,
  - nurses,
  - any hospital medical staff
- Students reported that after the sessions they can better recognize
   a medical error or adverse event, and recognize the role of
   communication in preventing these errors.

©UICOM-P June 15, 2017





## 1. Patient Safety Morning Report



#### SAFE Framework

- Safety Concern:
  - Briefly describe the clinical situation with patient safety concern. 1) Start with a one line summary of why the patient was admitted to the hospital or seen in the clinic. 2) Describe the patient safety issue that occurred
- Action:
  - Outline the actions taken by the team to address the issue
- Failure:
  - Link the patient safety issue to one of the domains of patient safety that you feel contributed to the error. You can identify more than one domain.
- Effects:
  - Outline the brief effects of this patient safety issue on outcomes – patient care; cost; delivery outcomes (can choose any one of these or other outcomes)

Clinical Area of Care	Invasive Procedures	Infection Control	Medication Safety	Others
Patient Safety Domains				
1.Human Factors				
2.Systems issues				
3.Team Work and Collaboration				
4.Communication				
5.Clinical Risk Management				
6.Engaging patients and care givers in patient care				





©UICOM-P June 15, 2017

#### 2. Morbidity, Mortality, & Improvement

Harleena Kendhari, MD, FAAP
 Assistant Professor of Clinical Pediatrics
 Pediatric Hospitalist, Lead Hospitalist



Sara Zafar, DO, FAAP

Pediatric Sub-Internship Director

Clinical Associate in Pediatrics

Anne & Robert H. Lurie Children's Hospital of Chicago

Northwestern University, Feinberg School of Medicine



@UICOM-P June 15, 2017





#### 2. Morbidity, Mortality, & Improvement

- Multi- and Inter-disciplinary MM&I presentation and curriculum run within the department of Pediatrics
- Start 4 years ago
- Action Plan items developed into achievable initiatives with impact throughout the hospital
- Garnered support from hospital Quality and Safety department
- Have completed and implemented 11 projects with 7 currently in process



### 2. Morbidity, Mortality, & Improvement

- Mandatory Curriculum for PGY-3 Residents
  - Identify case
  - Outline events, research and review case involved parties
  - Apply MM&I tool to case using ACGME 6 core competencies
  - Identify Action plan and develop implementation outline

©UICOM-P June 15, 2017





## 2. Morbidity, Mortality, & Improvement

MM& Curriculum Goals include:

- To provide a safe venue for residents and staff to identify areas of improvement, and promote professionalism, ethical integrity and transparency in assessing and improving patient care.
- To foster a climate of openness and discussion about medical errors, medico legal issues and quality improvement for all levels of learners.
- Focus on recognition of system-wide areas of improvement eliciting input in nonconfrontational manner.
- Use of standard interactive format with incorporation of ACGME core competencies to promote leadership, research, and scholarly activity.
- Providing a platform for long term Quality Improvement initiatives by development of action plans and task force.





#### 3. In Situ Simulation

Trina Croland, MD, FAAP
 Associate Professor of Clinical Pediatrics

Division Head, Hospital Medicine Inpatient Director, General Pediatrics Pediatric Hospitalist

**Assistant Professor of Clinical Pediatrics** 

Pediatric Hospitalist

Keith Hanson, MD, PHD, FAAP





©UICOM-P June 15, 2017





#### 3. In Situ Simulation





©UICOM-P June 15, 2017

#### 3. In Situ Simulation



- 10 year history, closet to Jump Simulation Center
- 40+ scenarios developed
  - Rapid response, call-based, 30 minute timeframe
  - Clinical and teamwork objectives
  - Neonate, infant, child mannequins
  - All units within children's hospital
  - Expansion to Radiology, Sedation unit, MRI, CT, ED and now regional affiliate EDs
  - Expansion from quarterly to 50+ simulations per year
- MD-RN co-debriefers

©UICOM-P lune 15, 2017





#### 3. In Situ Simulation



- Action items categorized for clinical/equipment/systems
   vulnerabilities
  - Use of Event Reporting System
- Quarterly reports to Quality and Safety Committee, annual Department of Pediatrics report.



#### References: Background

- Institute of Medicine. 2000. To Err Is Human: Building a Safer Health System. Washington, Do The National Academies Press.
- Safety Improvement Fifteen Years After To Err Is Human. Boston, MA: National Patient Safety
   Foundation; 2015.
- ACGME Common Program Requirements 2016. Available at www.acgme.org.
- CLER National Report of Findings 2016, Issue Brief No. 2, Patient Safety. Available at www.acgme.org.
- American Board of Pediatrics Maintenance of Certification Program.
   https://www.abp.org/content/maintenance-certification-moc
- Joint Commission National Patient Safety Goals.
   https://www.jointcommission.org/standards information/npsgs.aspx
- Curriculum Development for Medical Education: A Six-Step Approach. 3rd Ed. Thomas et al, editors. December 2015.

@UICOM-P lune 15, 2017





## References: Safety Morning Report

- Core Entrustable Professional Activities for Entering Residency, Curriculum

  Developer's Guide, https://www.mededportal.org/icollaborative/resource/887, May

  28, 2014
- Teigland C, Blasiak R, Wilson L, et al. Patient safety and quality improvement education: a cross-sectional study of medical students' preferences and attitudes.
   BMC Medical Education. 2013; 13:16
- Schultz K, McEwen L, Griffiths J. Applying Kolb's Learning Cycle to Competency-Based Residency Education. Acad Med. 2016; 91(2):284
- Institute for Healthcare Improvement (IHI) Modules
   http://www.ihi.org/education/ihiopenschool/Courses/Pages/default.aspx





#### References: MMI

- Jill, J. Fussel, Henry C. Farrar, Richard T. Blaszak, Laura L. Sisterhen; Incorporating the ACGME Educational Competencies into Morbidity and Mortality Review Conferences; Teaching and Learning in Medicine, 2(3), 233-239
- Accreditation Council of Graduate Medical Education. ACGME Program requirements for Graduate Medical Education in Pediatrics<a href="http://www.acgme.org/acgmeweb/Portals/0/PFAssets/2013-PR-FAQ-PIF/320">http://www.acgme.org/acgmeweb/Portals/0/PFAssets/2013-PR-FAQ-PIF/320</a> pediatrics 07012013.pdf
- Shervin Rabizadeh, W. Adam Gower, Kurlen Payton, Kathryn Miller, Kimberly Vera and Janet R. Serwint.
   Restructuring the Morbidity and Mortality Conference in a Department of Pediatrics to Serve as a Vehicle for System Changes. CLIN PEDIATR 2012 51: 1079
- Erica L. Mitchell, MD, Dae Y. Lee, MD, Sonal Arora, MBBS, PhD,Pat Kenney-Moore, MS, PA-C, Timothy K.
   Liem, MD, Gregory J. Landry, MD,Gregory L. Moneta, MD, and Nick Sevdalis, PhD. Improving the Quality of the Surgical Morbidity and Mortality Conference: A Prospective Intervention Study. Acad Med. 2013:88:824–830
- M L Bechtold, S Scott, K C Dellsperger, L W Hall, K Nelson, K R Cox. Educational quality improvement report: outcomes from a revised morbidity and mortality format that emphasised patient safety. Postgrad Med J 2008:84:211–216
- John W. Bingham, M.H.A., Doris C. Quinn, Ph.D., Michael G. Richardson, M.D., Paul V. Miles, M.D., Steven G. Gabbe, M.D. Using a Healthcare Matrix to Assess Patient Care in Terms of Aims for Improvement and Core Competencies. Journal on Quality and Patient Safety. February 2005 Volume 31 Number 2.

©UICOM-P June 15, 2017





#### **References: In Situ Simulation**



- Reducing Patient Harm Through Interdisciplinary Team Training with In Situ Simulation. Stanley E. Davis MD et al. https://cdn0.laerdal.com/cdn-4aae2b/globalassets/documents/research-pdf/in-situ-simulation/reducing-patient-harm-through-in-situ-simulation.pdf
- Van Schaik, Sandrijn M., et al. "Interprofessional team training in pediatric resuscitation: a low-cost, in situ simulation program that enhances self-efficacy among participants." Clinical pediatrics 50.9 (2011): 807-815.
- Lighthall, Geoffrey K., Tzevan Poon, and T. Kyle Harrison. "Using in situ simulation to improve in-hospital cardiopulmonary resuscitation." The Joint Commission Journal on Quality and Patient Safety 36.5 (2010): 209-216
- Muething, Stephen E., et al. "Quality improvement initiative to reduce serious safety events and improve patient safety culture." Pediatrics 130.2 (2012): e423-e431.
- Guise JM, Mladenovic J. In situ simulation: identification of systems issues. Semin Perinatol. 2013 Jun;37(3):161-5. doi: 10.1053/j.semperi.2013.02.007.Review. PubMed PMID: 23721772.
- Creating High Reliability Teams in Healthcare through In situ Simulation Training William Riley 1,\*, Elizabeth Lownik 1, Carmen Parrotta 1, Kristi Miller RN 2 and Stan Davis Adm. Sci. 2011, 1, 14-31; doi:10.3390/admsci1010014
- In Situ Simulation: Challenges and Results. Mary D. Patterson, MD; George T. Blike, MD; Vinay M. Nadkarni, MD https://cdn0.laerdal.com/cdn-4aaf4a/globalassets/documents/research-pdf/in-situ-simulation/in-situ-simulation-must-read-1-cincinatti-childrens-et-al.pdf
- The use of in situ simulation to detect latent safety threats in pediatrics: a cross-sectional survey. Marc Auerbach et al., BMJ STEL, 2015
- Simulation to Improve Patient Safety in Pediatric Emergency Medicine. Stone, Kimberly P. et al. Clinical Pediatric Emergency Medicine, Volume 17, Issue 3, 185 - 192
- Cheng A, Grant V, Auerbach M. Using Simulation to Improve Patient Safety Dawn of a New Era. JAMA Pediatr. 2015;169(5):419-420.



