

What is an Error?

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Circumstances in which planned actions fail to achieve the desired outcome

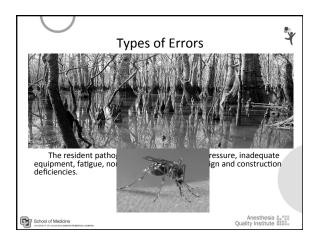
 $\mbox{\sc Adverse}$ Event - Patient did not respond optimally to an appropriate treatment

- Side Effects, Patient Differences, Expected complications
- Undesirable & Unintentional

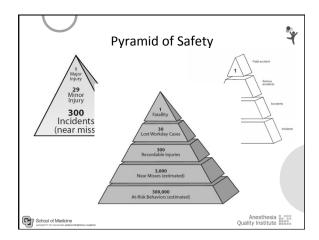
 $\ensuremath{\mathsf{Error}}$ - an adverse event that could be prevented given the current state of medical knowledge.

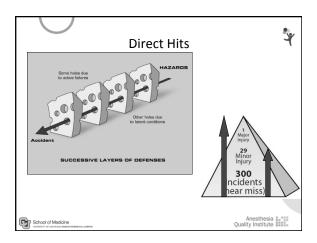
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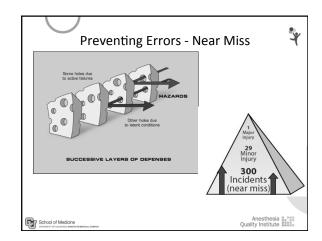
Basic Tenets of Human Error Everyone commits errors Human error is generally the result of circumstances beyond the control of those committing the errors Humans make more errors during routine activities, less when focused and thinking critically

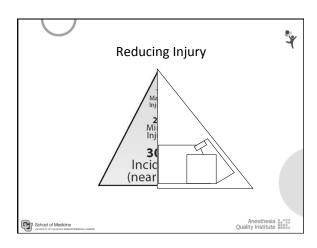


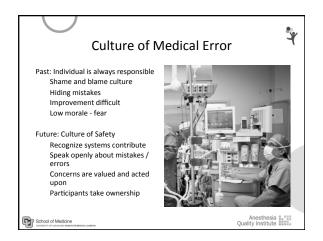
Near Misses On average, there are 8 errors that occur to result in patient harm A Near-Miss is an opportunity to improve safety, health, environmental and security aspects of an operation based on a condition or an incident with potential for more serious consequence What a Mear-Miss is an unplanned event that did not result in injury, illness, or damage - but had the potential to do so A Near-Miss is a window into the future Analyzing near misses may represent opportunity



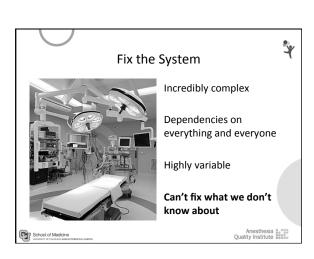


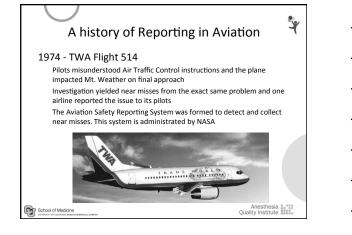






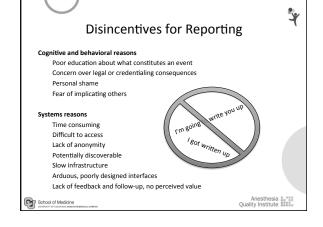
The System Humans make mistakes The system stops human error from reaching the patient Systems or processes that depend on perfect human performance are inherently flawed Anesthesia a Quality Institute and Anesthesia and Anesthesia a Quality Institute and Anesthesia and A





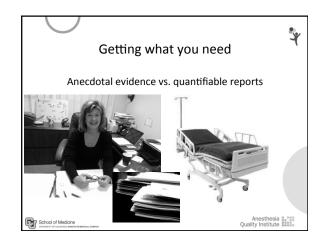
A History of Reporting in Anesthesia The Australian Incident Monitoring System Created 20 years ago, retired in 2005. Was expanded to all events, internationally and lost anesthesia significance. Reporting stopped. The Australian and New Zealand Tripartite Anaesthetic Data Committee Formed in 2006, now has a new electronic reporting system, the AQI system uses much of the same terminology / format The Critical Incident Reporting System (CIRS) Successful system in Switzerland, may be expanded across Europe

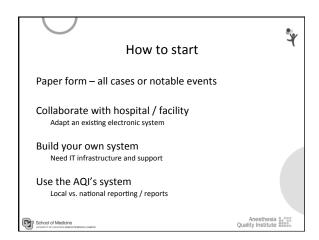
A History of Reporting in Anesthesia University of California, San Francisco & University of Colorado Focused on near misses 3500 reports from faculty, housestaff and CRNA/AAS Researched why individuals choose not to report and optimized system to address needs of anesthesiologists With interventions, reporting increased ~20 fold compared to using hospital systems. United States - Patient Safety Organization Creates a framework of aggregating information across institutions Approved in 2009 Allows for a national anesthesia reporting system that is secure

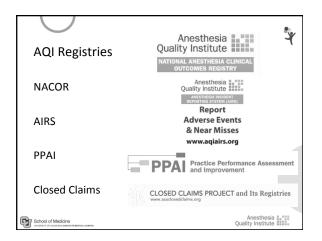


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Benefits of Reporting	Advance the safety of perioperative care	g		
Advance the safety of perioperative care	Advance the safety of perioperative care Discover system issues you can fix	g		
,		ic o	Anesthesia ***** Quality institute ***** Work pediatric anesthesia anver, CO, USA, guffey patrick@tchden.org outsility and have low participation rates. A ear misses, systems improvements can be signed and instituted at The Children's red in the same time period 1 year ago. so data entry and ona prospectively identify lidren's hospital. This resulted in a dramatic /year reports about 10 / year	Anesthesia ****** Quality Institute ****** Work *** pediatric anesthesia enver, CO, USA, guffey patrick@knden.org outsilly and have low participation rates. A ear misses, systems improvements can be signed and instituted at The Chifdren's red in the same time period 1 year ago. se data entry and can prospectively identify lidren's hospital. This resulted in a dramatic //year reports about 10 / year

Avoid repeating mistakes!

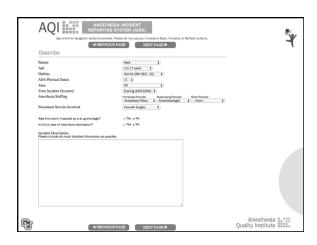






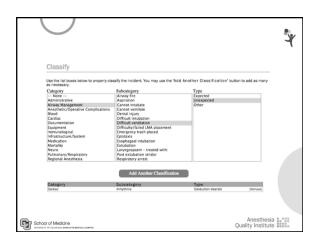






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Specialty Questions			
Pediatrics			
Age of patient	Renge: 2 to	24 months \$ Specific value: 18	
Weight	22 kgs	1	
is the patient premature? (Less than :	37 weeks gestation) * Yes O No		
Classify			
Administrative Airway Management Aresthetic/Operative Complications Blood Caelsta Opcumentation Equipment Infrashructure/System Medication Mortality Mortality	Anthythriai Bandycardia Bandycardia Bandycardia Cardiac sarest (asystolio) Cerdiac tangonade Curdiac tangonade Cypshythriai Hippertension Hippertension Hippertension Hippertension Tachycardiai Infaction Tachycardiai Other	Anystole (may) (ma	
Level of Harm to Patient (per AHRQ 1 Unsafe Condition - Any circumstance to Na Iran - Rises - Event occurred but did not No Iran - Risended gatient, but no Conscious Distress or inconvenience - Additional "Presencers" - Injury (imited to Temporary Iran - Bodily or psychology Permanent Nam - Unleving Observa-	het increases the probability of a pai reach patient, rm was evident. Mild and transient anxiety, pain, or additional intervention during admi ioal injury, but likely not permanent.	Sient safety event. physical discomfort. sation but no other injury.	

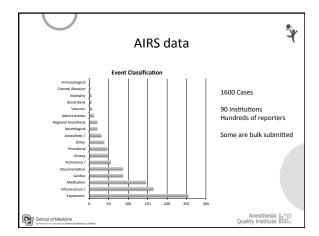
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AQI ANESTHESIA REPORTING SY: Use only the navigation buttons provided, Presse REVIOUS PAGII Specialty Questions	STEM (AIRS) do not use your browser's Back, Forward, or Refresh buttons.
Pediatrics	
Age of patient	Range: 2 to 24 months \$ Specific value: 18
Weight Is the patient premature? (Less than 37 weeks gestation	(22
School of Medicine Univident of Co.O.O.AD DISSOUTH WIDOLAL CAMPUS	Anesthesia

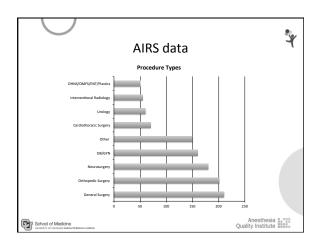


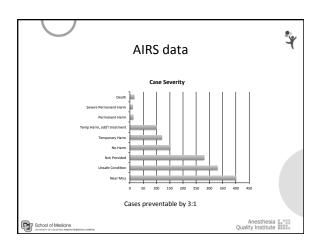






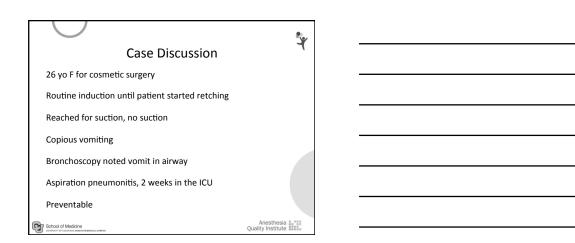






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Case Discussion	٣	
80yo F for ERCP gallstone pancreatitis		
GETA (propofol, lidocaine, inhaled agent) stab	le vitals	
1 hour in – EtCO2 35 ->5, Pulse ox perfusion 9 No pulse or blood pressure	->0.2	
Supine, CPR, Epi, Calcium, Bicarb, Vasopressin		
Complete recovery		
School of Medicine service transcent reserves.	Anesthesia	

Conclusions – ERCP Air embolus Gl and Radiology ERCP – Airway, medications, 3 arrests Pressurized air used during the procedure Instrumentation used Numerous case reports (21)



Charting on the wrong patient Sudden system failure Failure to record vital signs Failure of pharmacy dispensing systems Incorrect calculations Flawed / Incorrect decision support Distraction from all these issues

Trending - Equipment

After induction, no blood pressure reading, weak pulses – checked O2 sat, didn't work

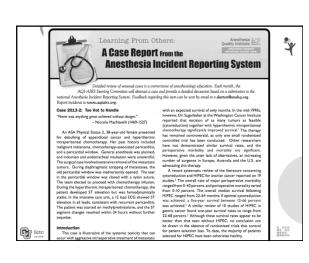
No ECG cable in room noticed after case

No BP for an hour

No suction, needed suction

Monitor broken

No capnograph in room



AIRS Steering Committee Meir Chemofsky, MD Richard Dutton, MD MBA Peter Fleischut, MD David Gaba, MD Patrick Guffey, MD David Martin, MD Alan Merry, MD Alan Merry, MD Alan Merry, MD More Manji, MD Mosane Manji, MD Mosane Rehman, MD Keth Ruskin, MD Heather Sherman, MD Keth Ruskin, MD Heather Sherman, MD Mosane Rehman, MD

Integrating with the EMR

Good system design is integrated in workflow

What's the denominator?

Moving towards 100% event capture

Local vs hosted?

Anesthesia *****
Quality institute ******

