

Providing Continuing Education For Healthcare Professionals



2017 Pharmacy Education Series

November 30, 2017 Pharmacy Pearls

Speakers: Danielle Rahman, PharmD Janet M. Reese, RPh Erin Shaughnessy, PharmD, BCPS, EMBA Nancy M. Smith, RPh, MBA

Today's Presenters

Danielle Rahman, PharmD

Danielle Rahman, PharmD, is a graduate of St. Louis College of Pharmacy. She began practicing pharmacy right across the river from St. Louis at Gateway Regional Medical Center (GRMC) in Granite City, IL eleven years ago. Gateway Regional cares for a variety of patients, while specializing in behavioral health. Danielle and her remote order entry team enjoy working with nine Quorum facilities overnight and on the weekends. Danielle is a preceptor for the two local colleges of pharmacy in St. Louis, MO and Edwardsville, IL. Danielle was recognized in 2009 as GRMC employee of the year, and as clinical manager of the year in 2015.

Janet M. Reese, RPh

Janet Reese is the Director of Pharmacy at Alta Vista Regional Hospital in Las Vegas, New Mexico. She graduated with a Bachelors of Pharmacy in 1999 from the University of New Mexico and is currently completing a Non Traditional Doctorate of Pharmacy through the University of Colorado. She is well versed in both inpatient and outpatient settings including oncology experience. Janet enjoys creating teams that are focused on patient care. Janet is active in the New Mexico Society of Health System Pharmacists and is currently the Chair for the Legislative committee for NMSHP.

Erin Shaughnessy, PharmD, BCPS, EMBA

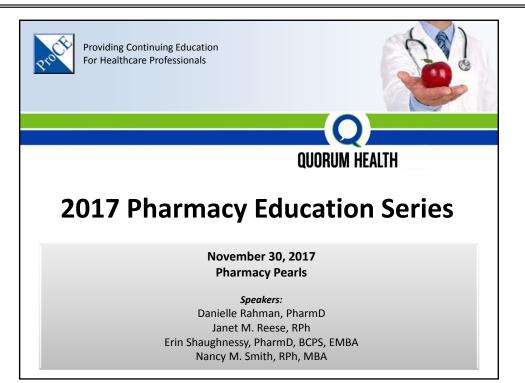
Dr. Erin Shaughnessy received her Bachelor of Science degree in Biology with emphasis in Microbiology from Northern Illinois University and her Doctor of Pharmacy degree from the University of Illinois at Chicago School of Pharmacy. Erin has earned additional certification as a Board Certified Pharmacotherapy Specialist and has recently completed her Executive Master's in Business Administration with a certificate in Ethical Leadership. Dr. Shaughnessy's professional interests include infectious diseases, pediatrics, hospital administration and academia. Furthermore, Erin serves as Faculty Clinical Professor for Chicago State School of Pharmacy. Erin has earned several distinguished awards and certifications including the above and beyond award in 2009 and manager of the year 2016. Erin has implemented numerous clinical programs at MetroSouth Medical Center that have positively impacted patient outcomes and at the same time fostered positive collaborative pharmacist-physician relationships.

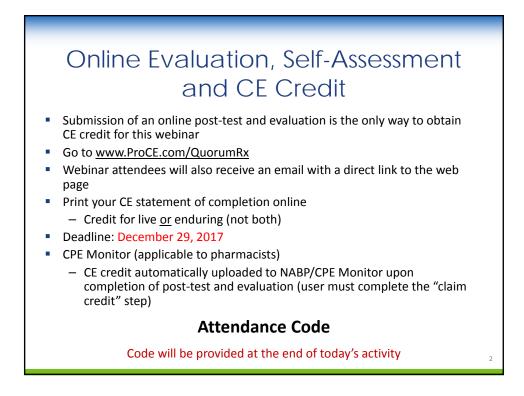
Nancy M. Smith, RPh, MBA

Nancy has spent the last 32 years wondering why she went into a career of pharmacy, being that her natural strengths are writing, athletics, music, psychology and art. It's taken most of her adult life to understand that our careers are not something that defines us; instead we define our careers. Having finally determined this, Nancy has gifted herself with the freedom to bring her gifts of empathy, vision, creativity and compassion into a career which at the onset appeared to be sterile and much more science-focused than people-centered.

Becoming a director, again, is not a career choice that Nancy intentionally set out to achieve, but after moving to the mountains of Georgia from Winston-Salem, N.C., she realized that mentoring, directing and leading a pharmacy department represented another personal and professional growth rite of passage. She appreciated that solving problems and coaching others to reach their potential is extremely satisfying and rewarding.

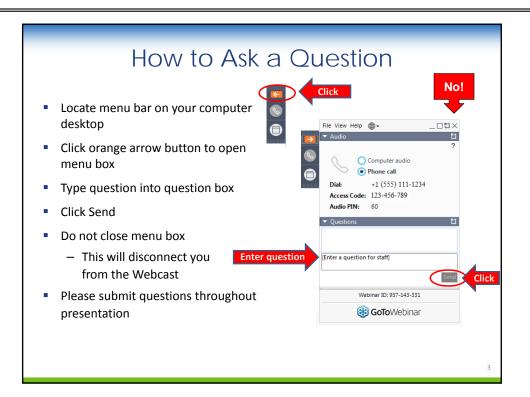
Innovation is an inherent quality of a creative personality so, although Nancy has privately solved many issues over the life of her career for her own hospital, it is only within the last few years that it's occurred to her other facilities might benefit from her solutions. Through the development of her pediatric, color-coded medication dosing labels, Nancy has forged an enduring friendship with Dr. Broselow, who is as kind as he is pioneering. Nancy's aspiration is that every pediatric emergency responder, whether in the field or within a healthcare facility, will have the benefit of using the dosing label system to reduce medication error rates to as close to zero as possible.

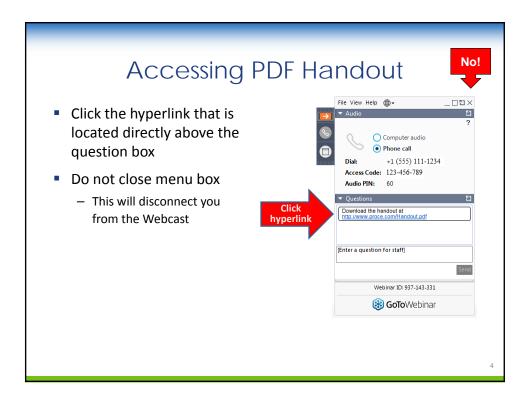




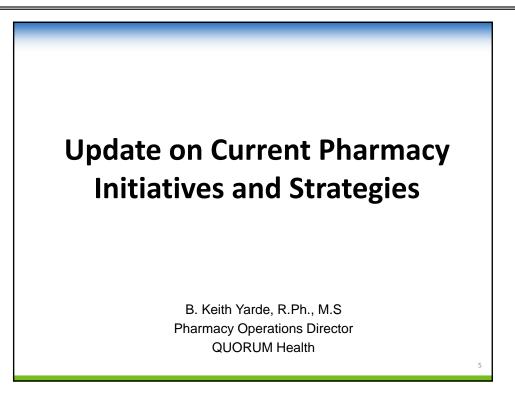


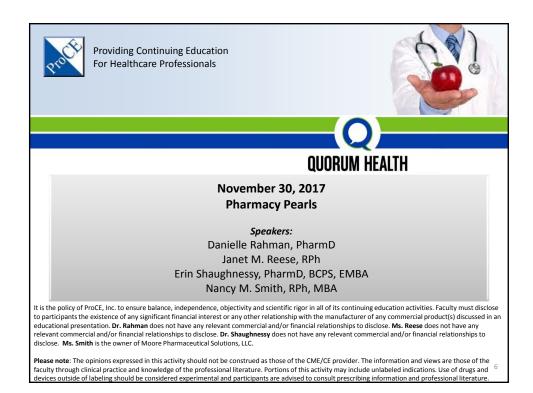
Pharmacy Pearls Quorum Health Pharmacy Education Series



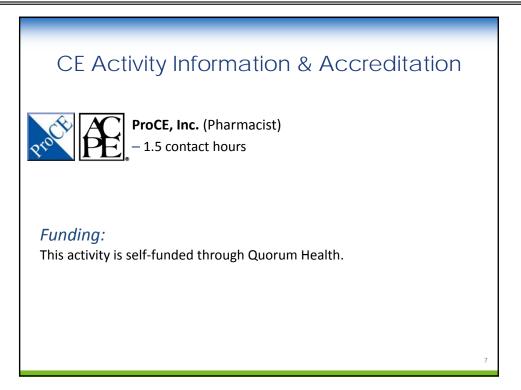


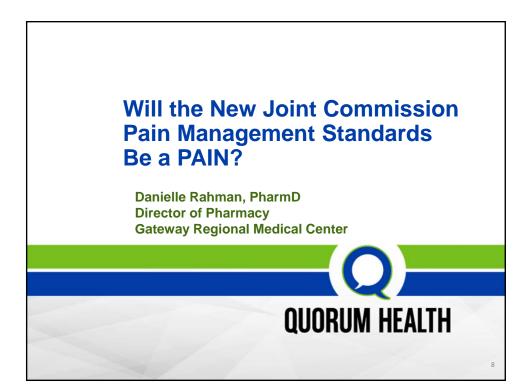




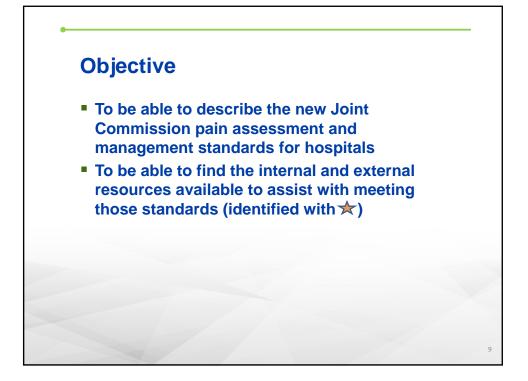


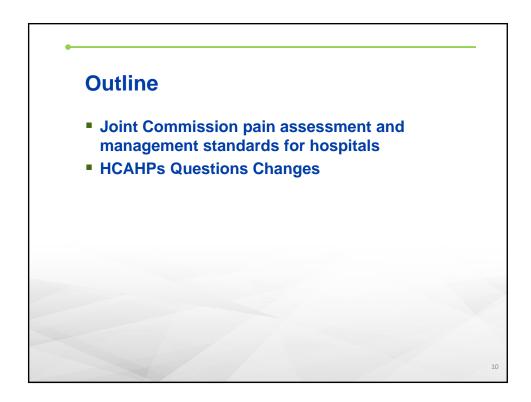




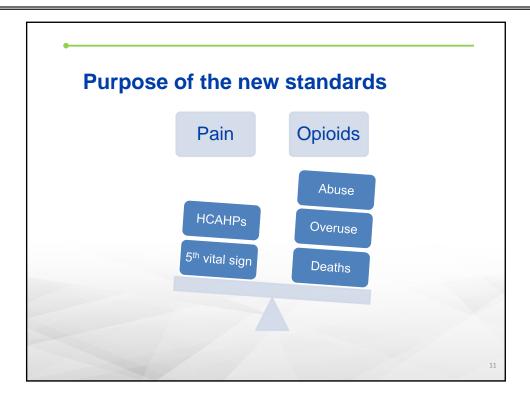


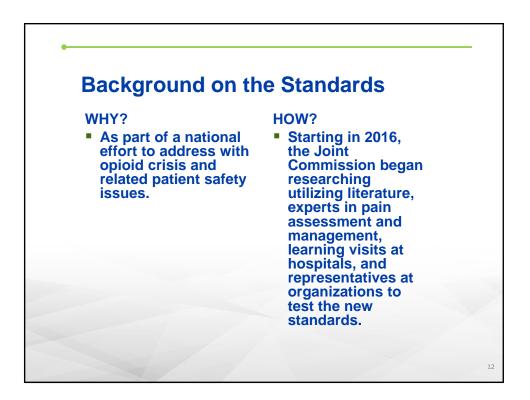




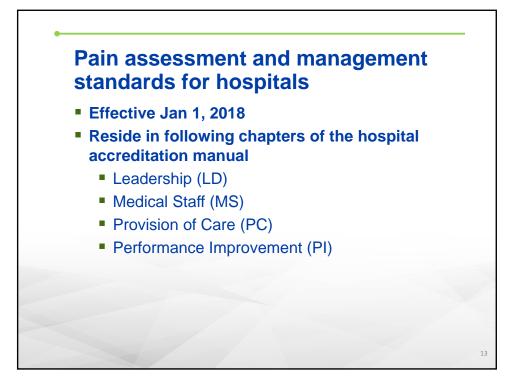


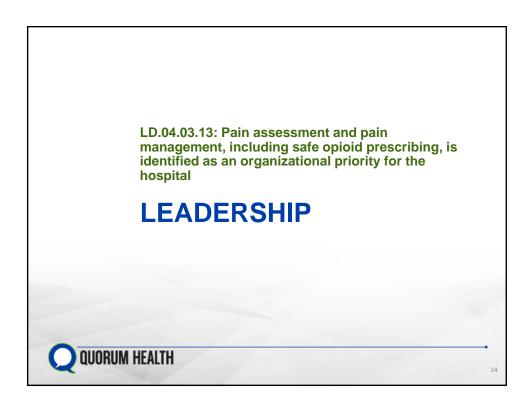








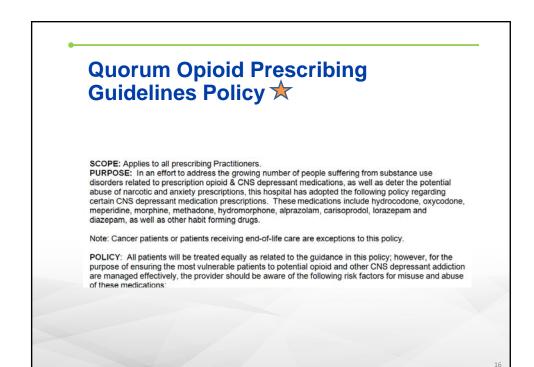








- EP 1: The hospital has a leader or leadership team that is responsible for pain management and safe opioid prescribing and develops and monitors performance improvement activities.
 - Relates to standard PI.02.01.01, EP 19







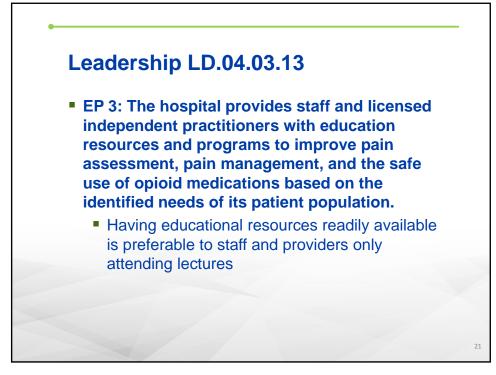


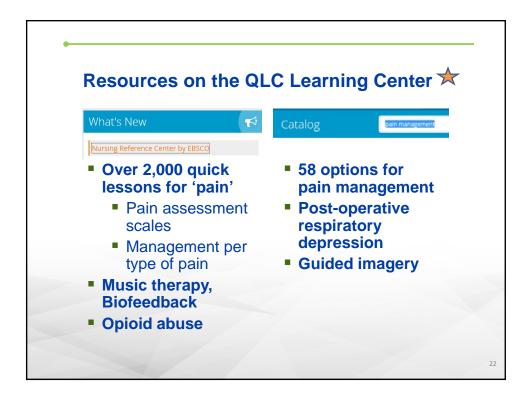






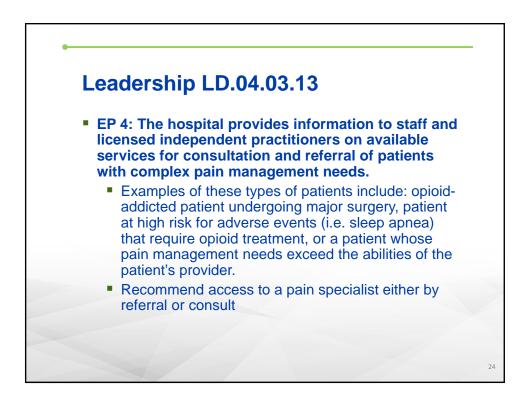






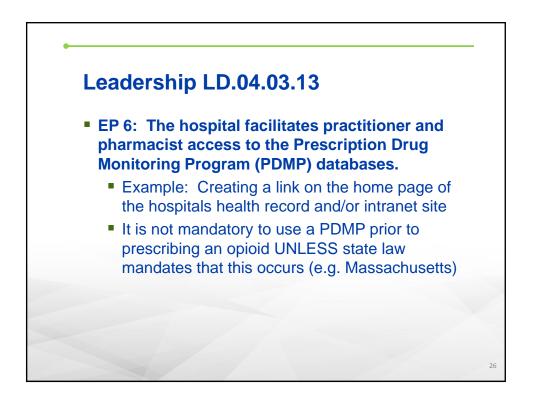




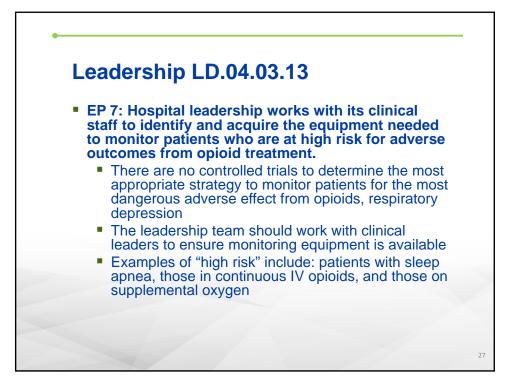


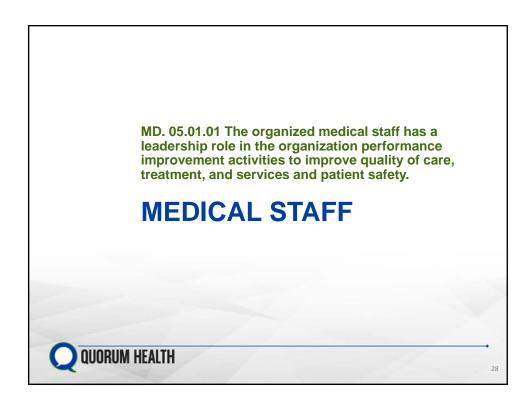




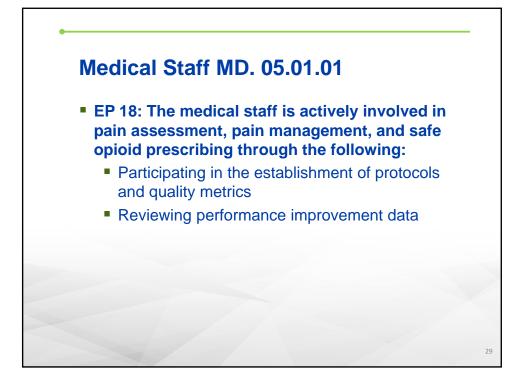


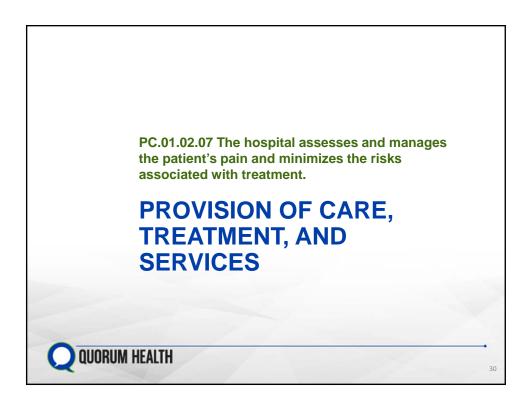




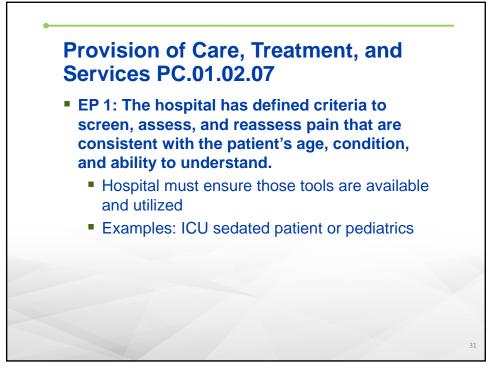


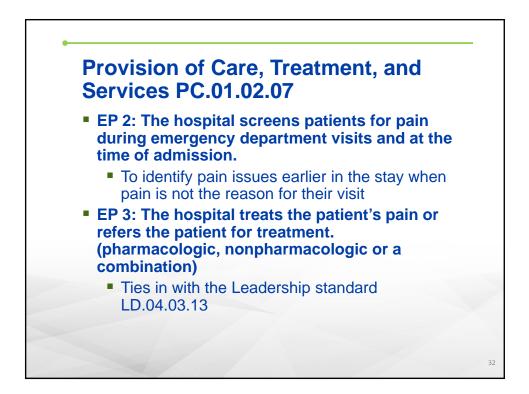












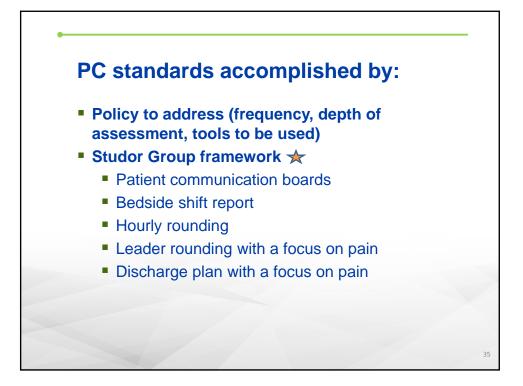


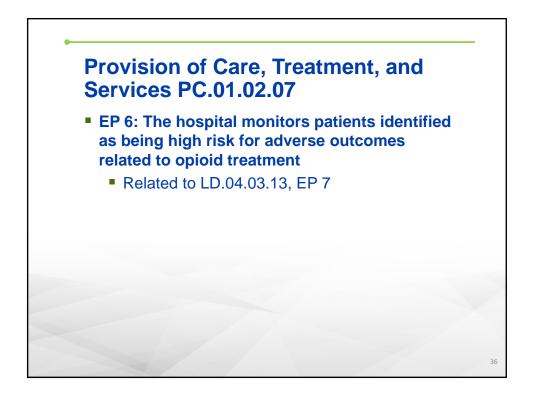
Provision of Care, Treatment, and Services PC.01.02.07

- EP 4: The hospital develops a pain treatment plan based on evidence-based practices and the patient's clinical condition, past medical history, and pain management goals
 - Relates to Standard RI.01.1.01, EP8.
 - Patient's have a right to pain management

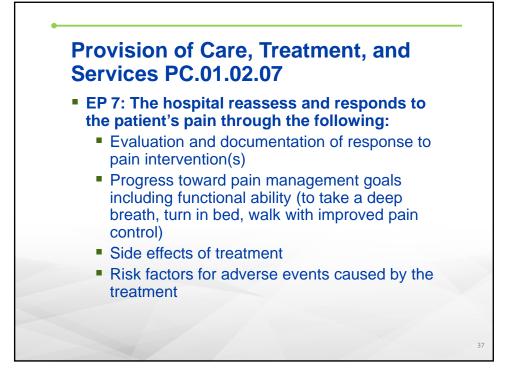
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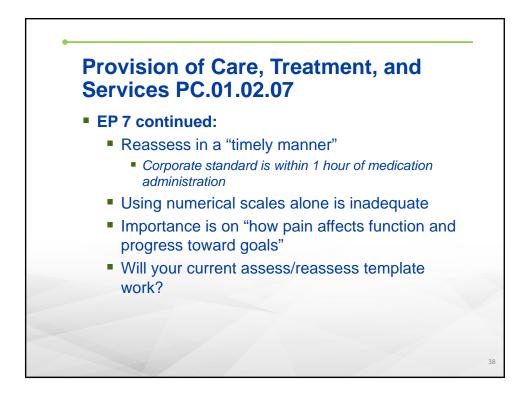






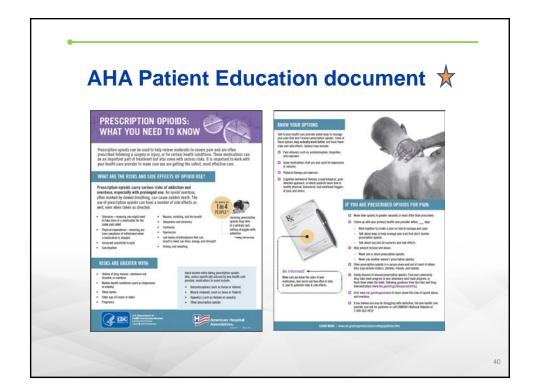














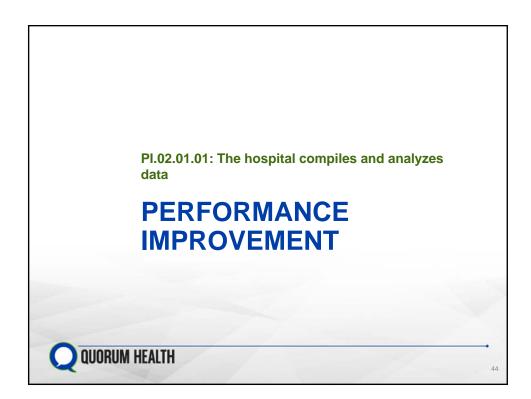
for to combat the state's opioid epidemic.	Medication pouches
fort to combat the state's opioid epidemic.	
y General Andy Beshear announced a n Tuesday that will allow residents to dispose	 Medication is placed in a bag containing a
"drug deactivation pouches" in Floyd, son, McCracken and Peny counties,	carbon that bonds to pharmaceutical
gram has the potential to dispose of more	compounds when water is added
	The active ingredient is neutralized when
	water is added and
	the bag is shaken.
	Biodegradable bag
	can be placed in the
0 0 0 0	In Tuesday mat will allow readents to dispose organo drugs at home. Inducty Opioid Disposal Program will provide "drug deadvation pouches" in Floyd. Sons, McCracken and Penry counties, ing to the press release. gram has the potential to dispose of more million unused opioids, Beshear said in a







- EP 56: The hospital collects data on pain assessment and pain management including types of interventions and effectiveness
 - Timing of reassessments
 - Types of interventions
 - Effectiveness of interventions
 - To identify areas that need changed to increase safety and quality for patients







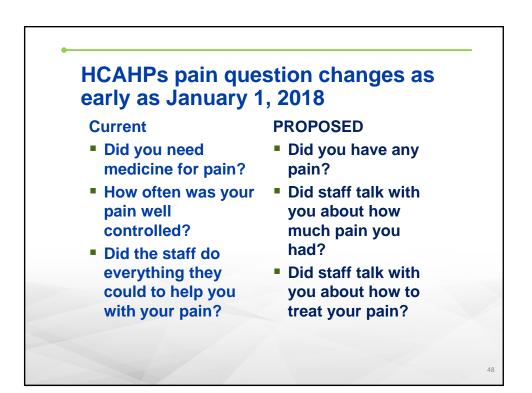
- EP 18: The hospital analyzes data collected on pain assessment and pain management to identify areas that need change to increase safety and quality for patients
 - Example: if monitor the use of naloxone, can identify areas and staff that require specific education on opioid use

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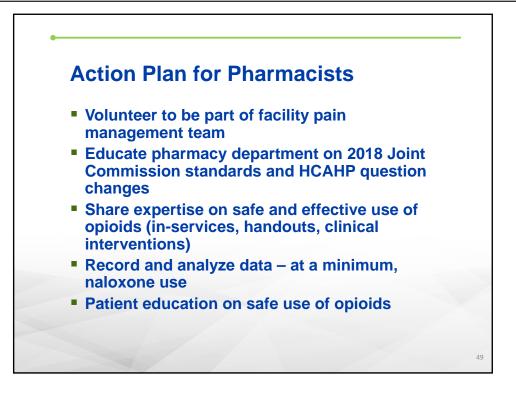


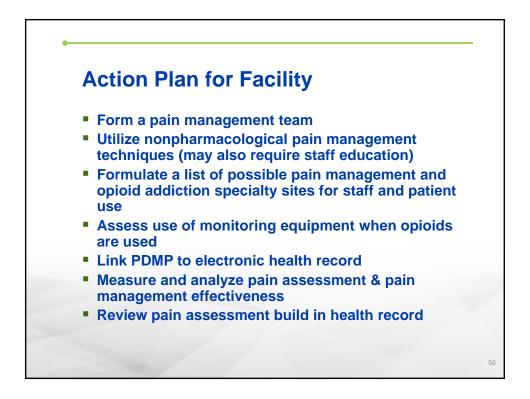


- Does anesthesia, ER, or OR already monitor adverse effects from anesthesia?
- Carve out a section of the Adverse Drug Reaction report specifically for opioids
- Number of doses of opioids per patient in ED
- Make sure to document actions as a result of findings



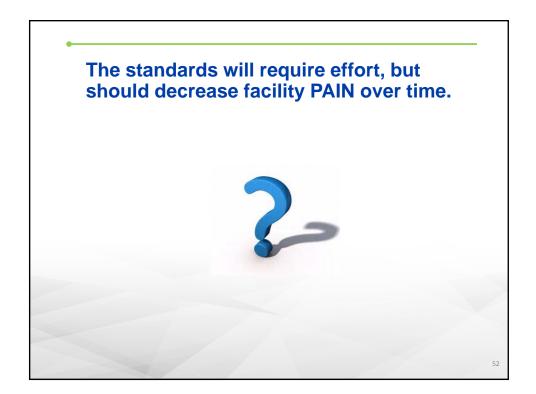




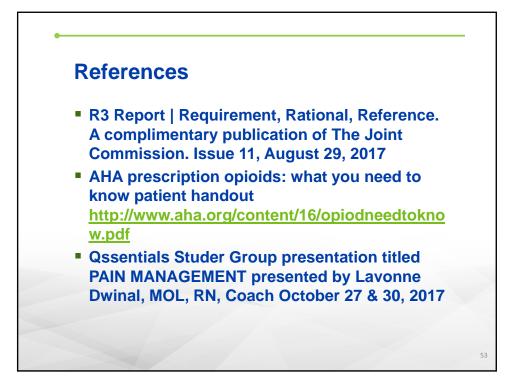


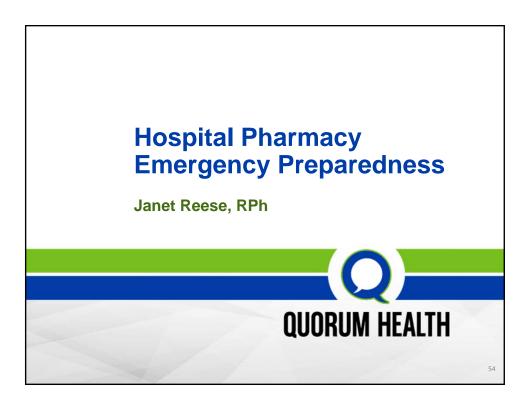




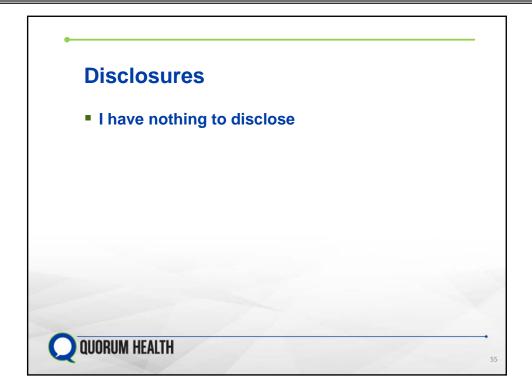


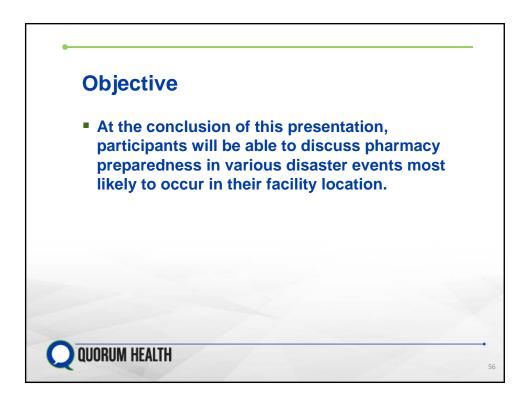




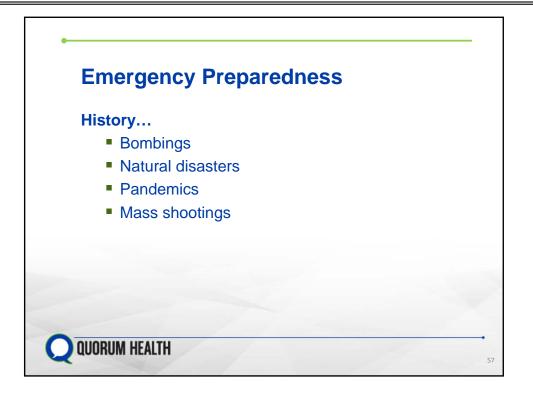






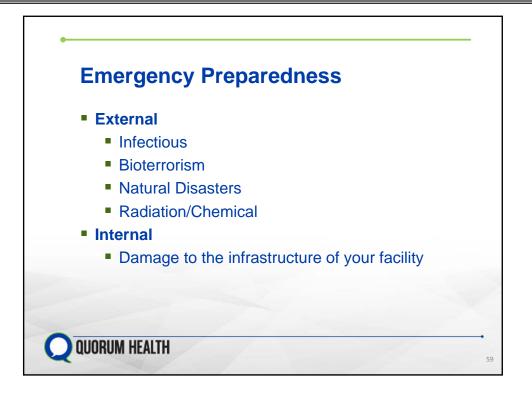


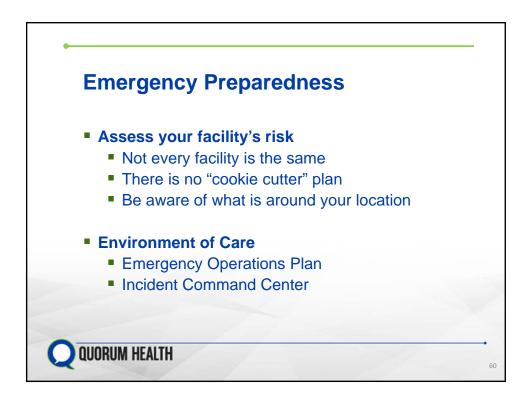




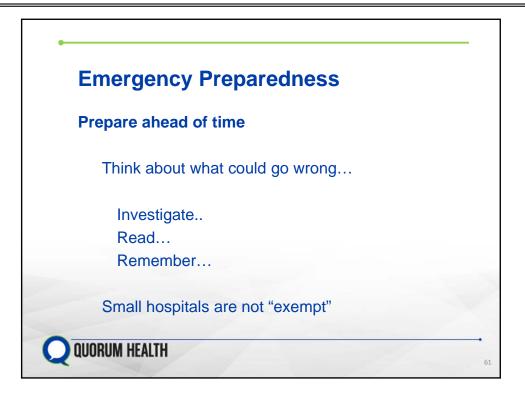


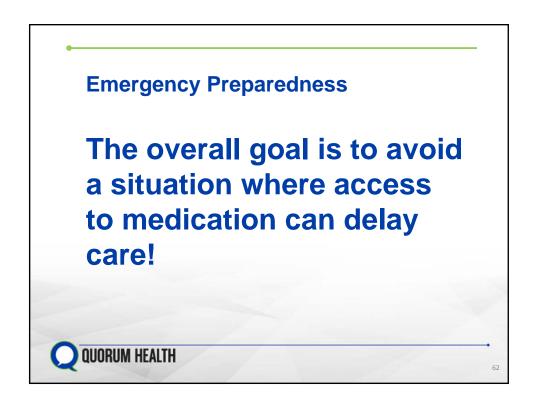




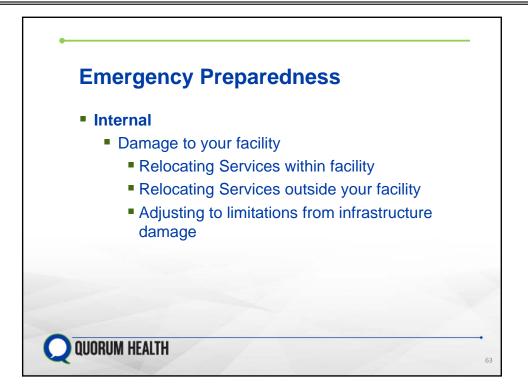


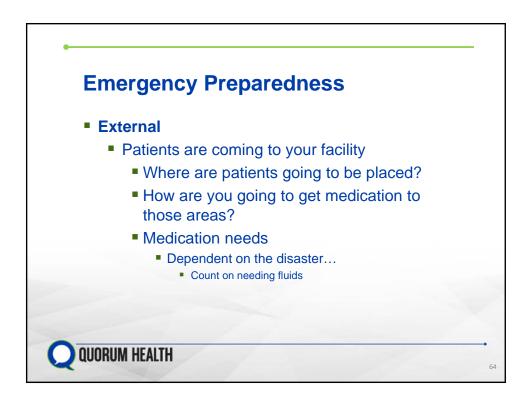




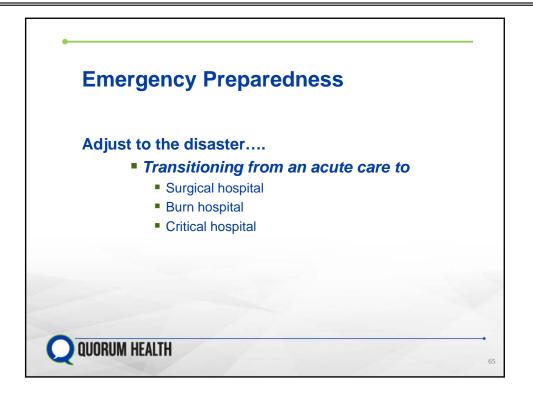






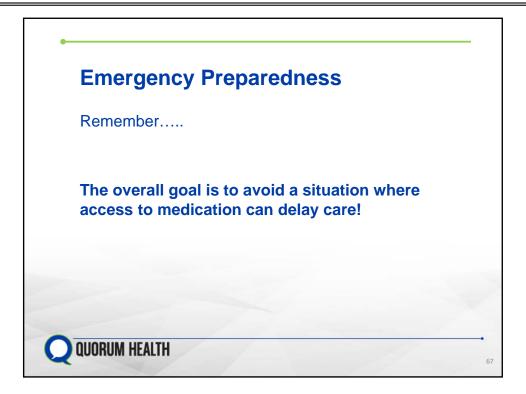


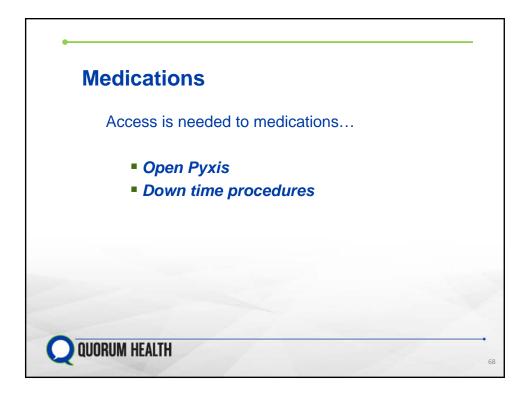




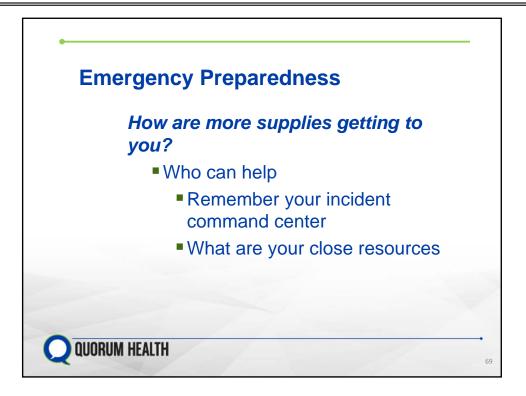


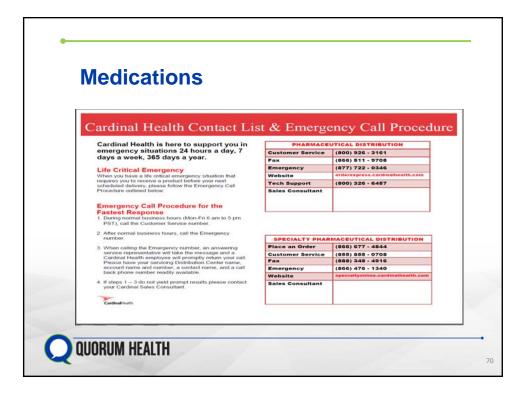




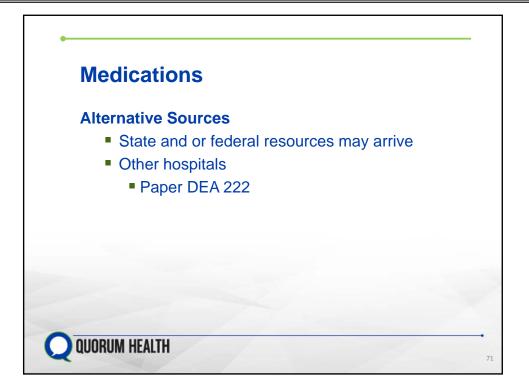


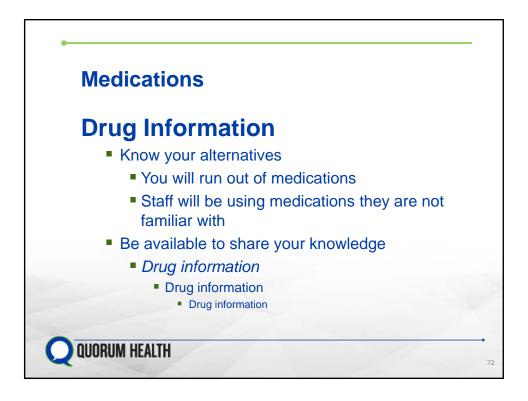




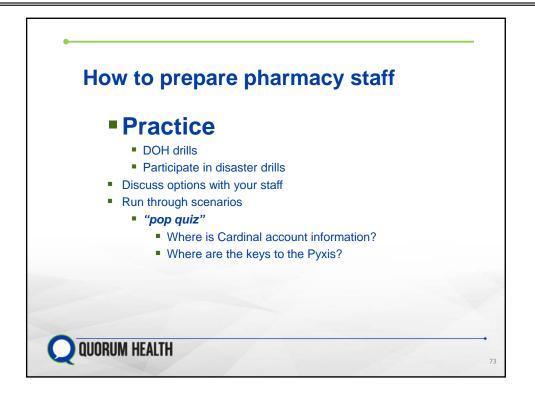






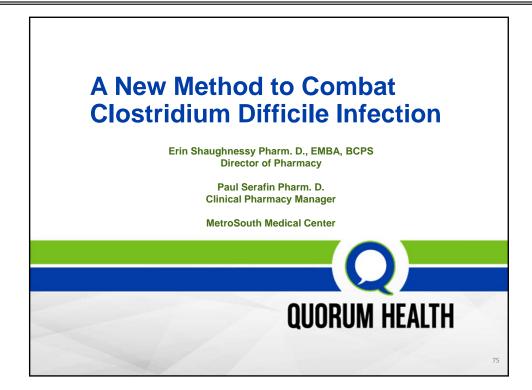


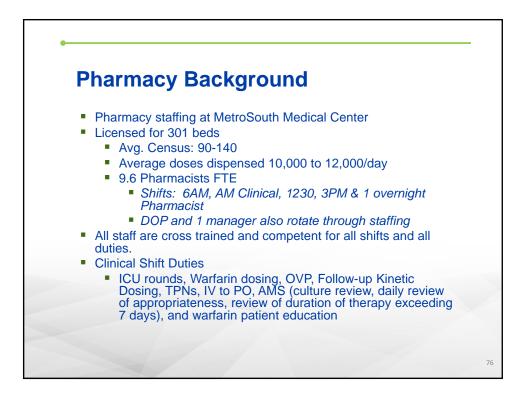




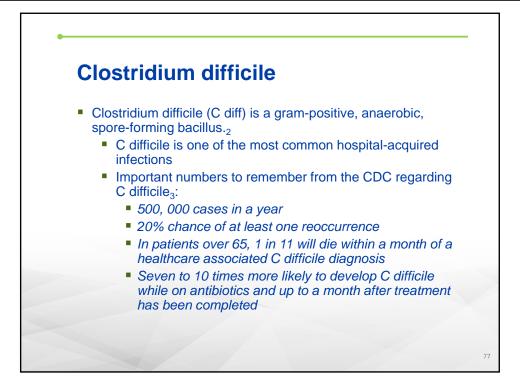


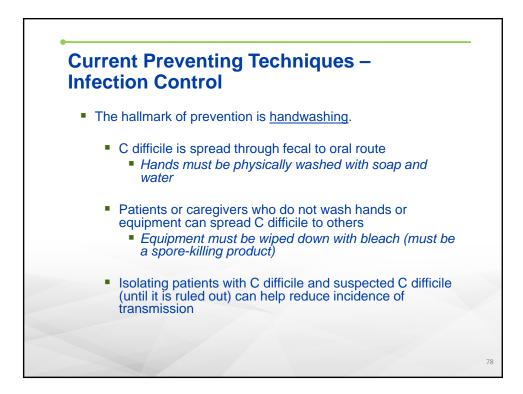




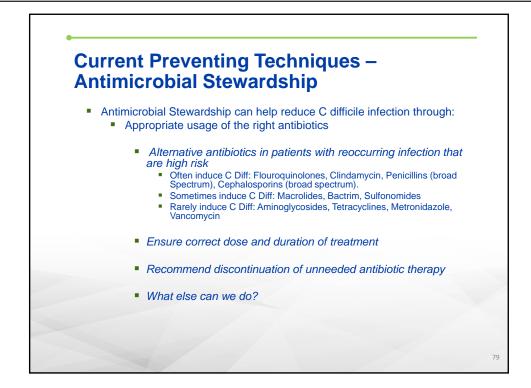


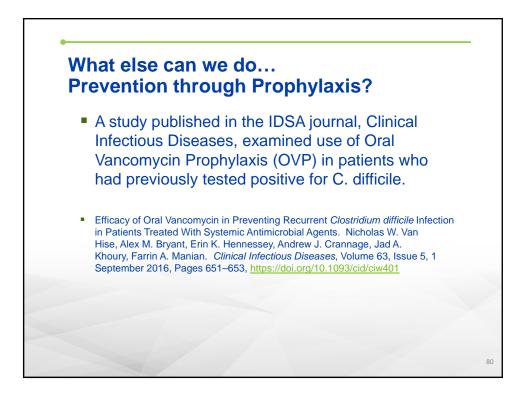




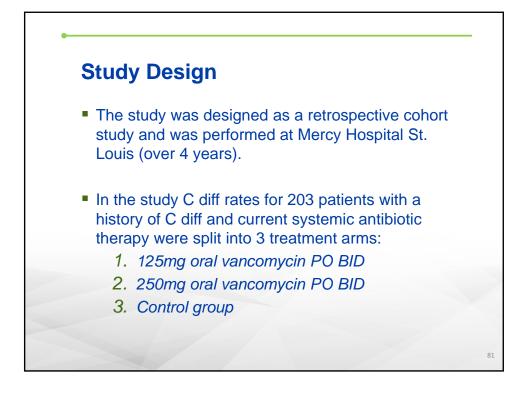






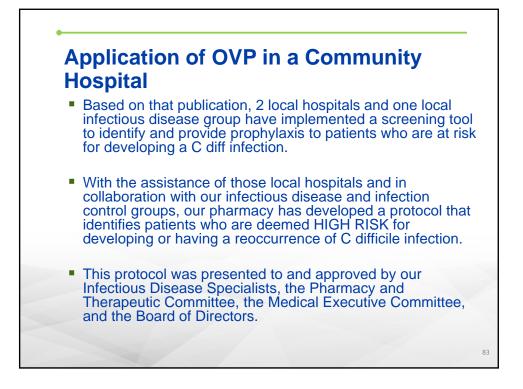






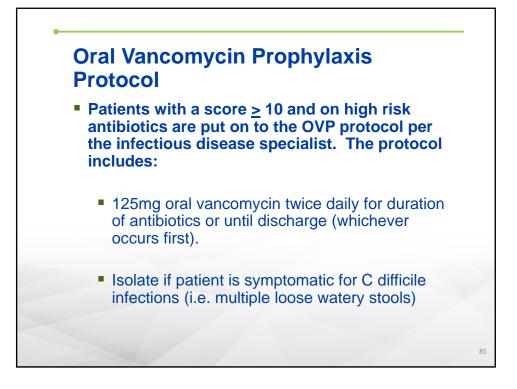
Mean Duration (days)	Mean Duration of OVP post ABX (days)	# of CDI in OVP Groups	# of CDI in Control Group
13.7 (3-29)	0.8 (0-6)	3	35
statistica ★ (odds r	rence in CDIs betwee Ily significant. ratio, 0.12; 95% confide as no difference betw	nce interval, 0.04-0.4;	<i>P</i> <0.001)

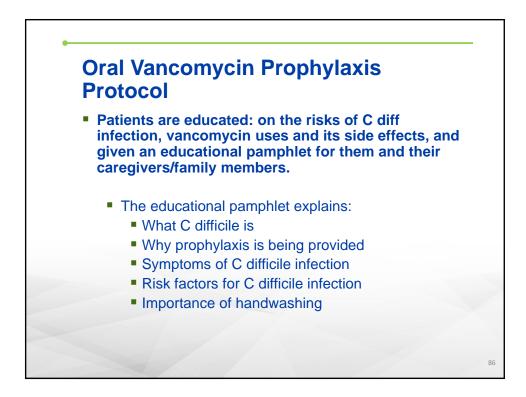




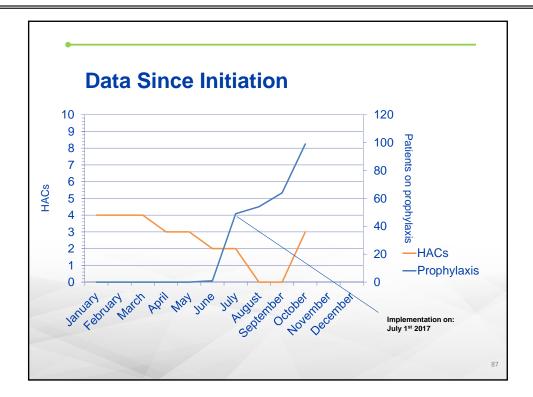
Criteria	Points	Daily - the clinical
History of c. diff <1 year	10	pharmacist
Currently on high risk antibiotics*	6	screens/scores:
History of antibiotics <90 days (including prophylaxis antibiotics)	3	1. All new admissions
Recent hospitalization/LTCF/LOS > 7 days	2	2. Patients with a length of stay
Age <u>></u> 65	2	
Severe Illness (ICU stay/weakened immune system)	2	≥ 7 For risk of C Diff
Currently on PPI	1	and inclusion into

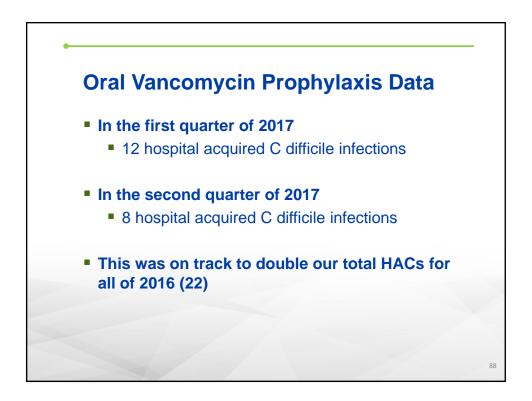




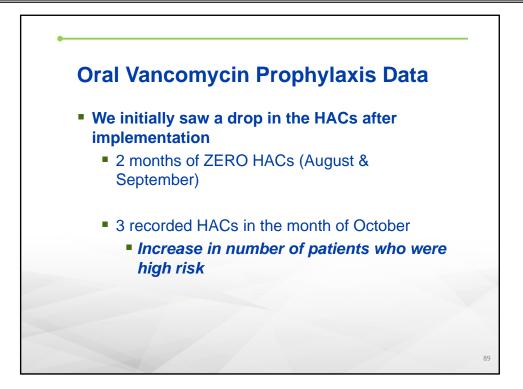


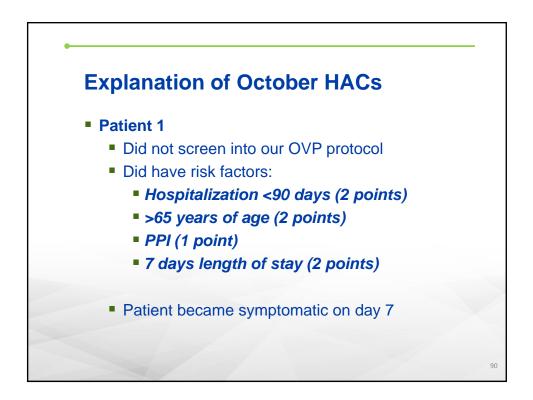




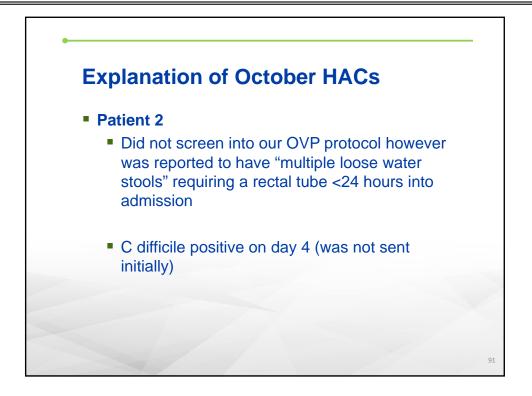


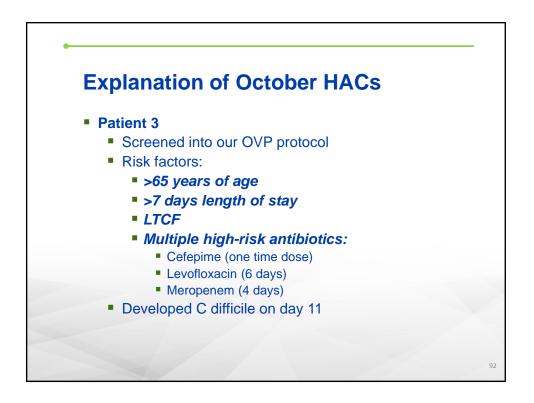




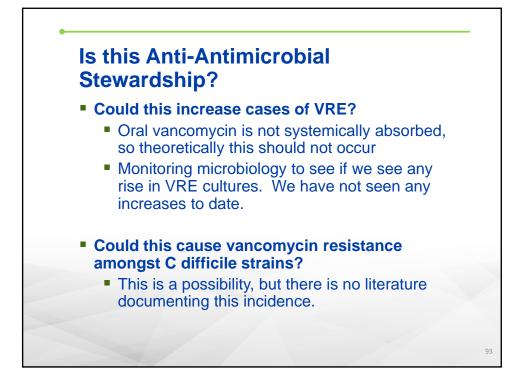


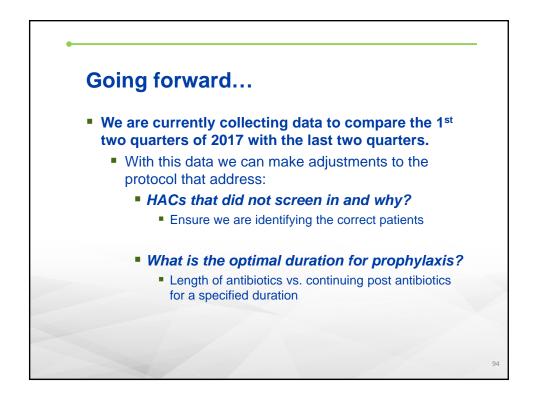




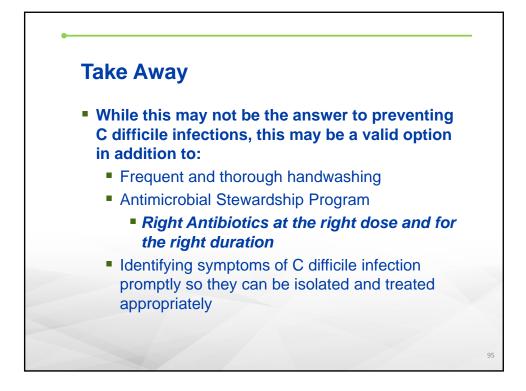


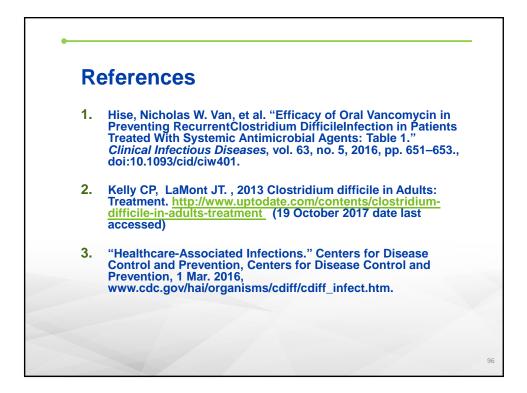




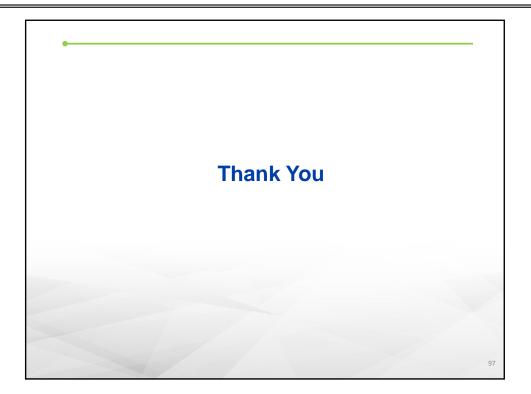






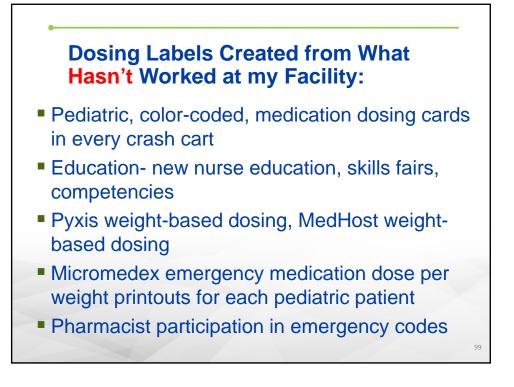






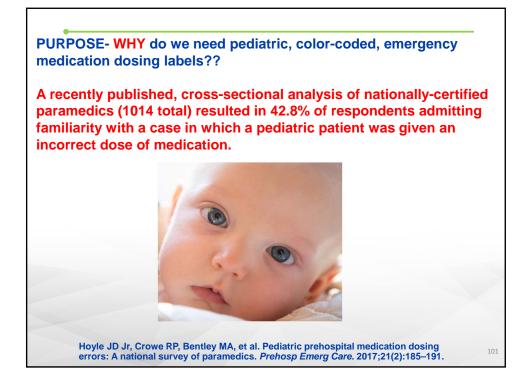






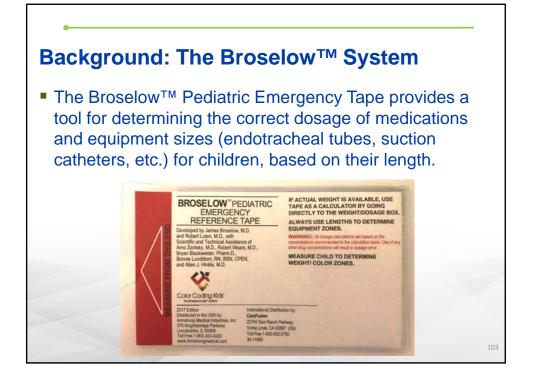


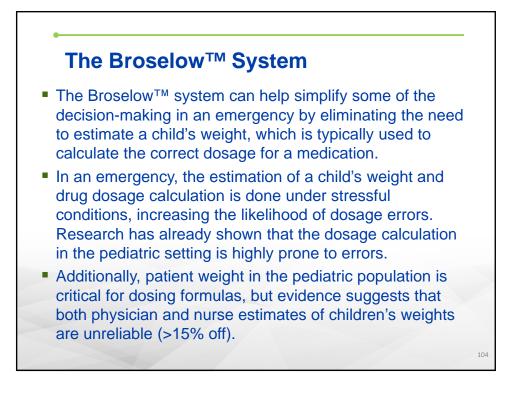




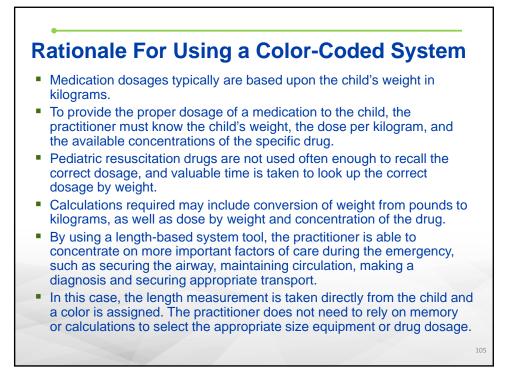
Statistics As many as 1 in 10 hospitalized children are impacted by a medication error. Up to 35% of these errors are serious or life threatening. In one study, 3.2% of doses given to pediatric patients were 10fold errors. Another study showed that 69.5% of total medication errors involved children and 42% of the errors were considered serious. Errors in decimal point placement, math calculations or expression of dosage regimen accounted for 59.5% of dosage errors. Medication errors occur in 39% of doses administered to pediatric patients seen in rural EDs. 15.9% were errors categorized as having the potential to cause harm. In one study of 241 medication doses given to pediatrics, the use of the color-coded dosing method reduced critical dosing errors to zero percent.

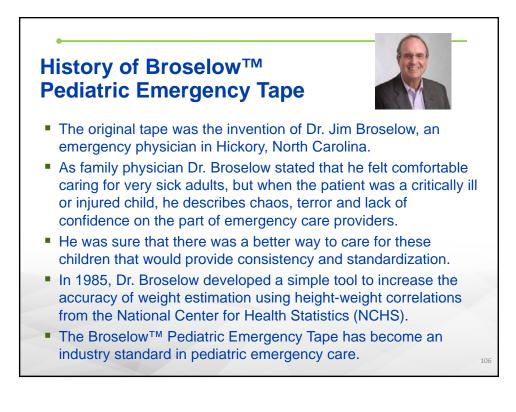




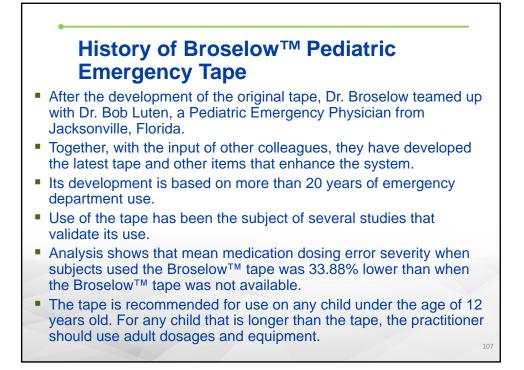


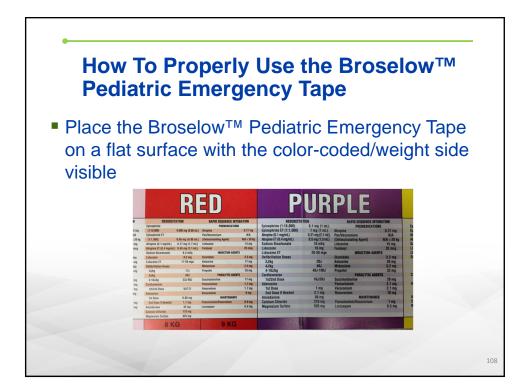




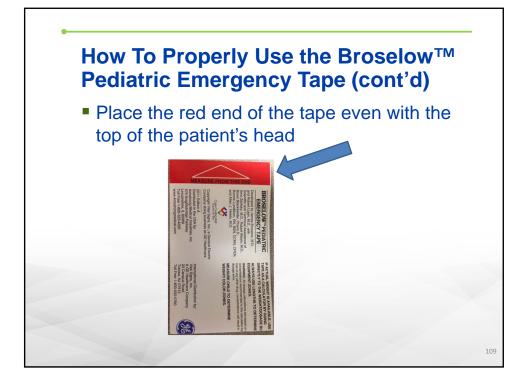


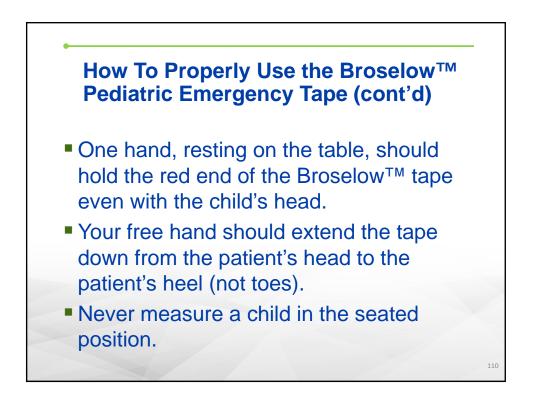














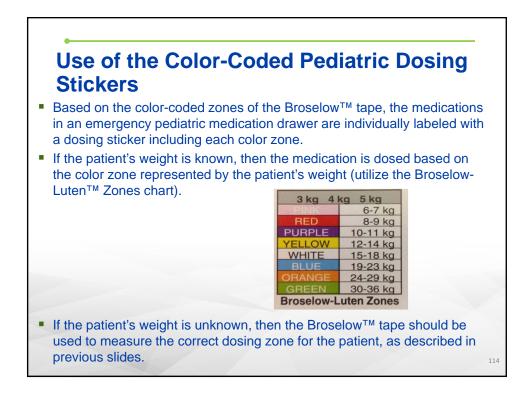


- The color zone of the tape adjacent to patient's heel identifies the patient's weight and color zone.
- If the child is longer/larger than can be measured with the tape (> 36 kgs.), stop and proceed as you would with an adult patient.













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	Pediatric Code Cart	Drawer Conter	te	
Qt		Concentration		
3		6 mg/2 ml	SDV	
2	Amiodarone	150 mg/3 ml	SDV	
1		100 ml	V Bag	
3		1 mg/10 ml	Bristoiet	
3		0.4 mg/ ml	SDV	
1	Calcium Chloride	1000 mg/10 ml	Bristojet	
1	Dobutamine	250 mg/250 ml	Premixed bag	
1	Dopamine	400 mg/250 ml	Premixed bag	
5	Epinopinino	1:10,000	Bristojet	
4	Epinephrine	1 mg/ml	Ampule	
	Epinephrine drip contents:			
4	Epinephrine	1:1,000	1 ml amps	
1	Sodium Chloride 0.9%	250 ml	IV Bag	
1	Dextrose 10%	250 ml	IV Bag	
2	Lidocaine	100 mg/5 ml	Bristojet	
1	Lidocaine	2000 mg/500 ml	Premixed bag	
2	Magnesium Sulfate	1 gm/100 ml	Premixed bag	
1	Naloxone	0.4 mg/ ml	10 ml MDV	
2	Romazicon	0.5 mg/5 ml	MDV	
	Norepinephrine drip contents			
1	Norepinephrine	4 mg/ 4 ml	Ampule	
1	Dextrose 5%	250 ml	IV Bag	
	Procainamide drip contents:			
2	Procainamide	1 gm/2 ml	SDV	
1	Dextrose 5%	500 ml	IV Bag	
2	Sodium Bicarbonate 8.4%	50 meq/ 50 ml	Bristojet	
2	Sodium Bicarbonate 4.2%	5 meq/ 10 ml	Bristojet	
1	Sodium Chloride 0.9%	500 ml	IV Bag	





- Pharmacy staff to place color-coded adhesive labels on each medication in the pediatric emergency drawer.
- The color-coded labels allow nurses to have readily available the exact and correct volume of the medication for the color zone of the patient.
- The labels allow for more timely medication administration and also provide dose accuracy.
- In addition, the color-coded labels can be placed on rapid-intubation box medications.

