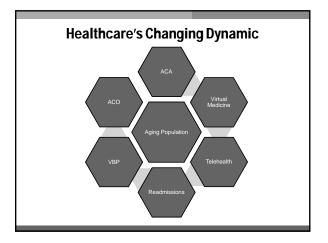


Future of Healthcare

Today's healthcare looks dramatically different than yesterday and will be different tomorrow.

- How do we prepare?
- What can we do now to be ready for tomorrow?
- How do we close the medication management process gaps in the continuum of care?
- Employees are the most valuable asset and how do we ensure they can meet the demands of a changing healthcare environment?
- How to we improve work flow to ensure health system pharmacists leading the efforts to optimize patient care outcome?
- How do we help the staff take ownership and accountability for this?



Fixing Health Care on the Lines

- · Key points
 - Redesign and revamp core clinical processes, organizational structures, management systems and cultures supporting them so that health care providers excel.
 - Rigorously applying scientifically established best practices for diagnosing and treating diseases that are well understood
 - Manage care (decisions, tasks, work flow crucial to optimizing care)
 - Reduce variability
 - Bohmer RM, Harvard Business Review 2010, April

Leading clinicians and clinical leadership

- Key points
 - Need for leadership by clinicians in organization without any formal title, authority or leadership job description
 - · A shared goal
 - Work with team focusing on shared goal, population accountability, accountability and outcome

Bohmer RM NEJM 2013;368:1468-70

Developing an Effective Health Care Workforce Planning Model

- Key Points
 - Aging population and need to develop more effective and efficient workforce planning models (WPM)
 Evaluate WPM annually
 - Organizations should closely examine their competencies that are required for every position
 - Competencies can determine the success of failure of an organization
 - If healthcare professional is competent he or she will add value to the organization
 - WPM assessment tool

http://www.aha.org/content/13/13wpmwhitepaperfinal.pdf

Retooling for an Aging America: Building the Health Care Workforce

- Key Point
 - In general, the health care workforce receives very little geriatric training and is not prepared to deliver the best possible care to older patients. Since virtually all health professionals care for older adults to some degree, geriatric competence needs to be improved through significant enhancements in education

http://www.iom.edu/~/media/Files/Report%20Files/2008/Retooling-for-an-Aging-America-Buildingthe-Health-Care-Workforce/ReportBriefRetoolingforanAgingAmericaBuildingtheHealthCareWorkforce.pdf

Leadership for the Future of Health Care: Acumen and Skills to Optimize Effectiveness

- · Key Points
 - · Leadership in health care is quickly changing.
 - Continued pressure to improve outcomes, contain costs, and meet societal health care needs demand new leadership skills to ensure success.
 - Need to develop skills for identifying and integrating signals from the health care environment, a changing work force and patient populations.

http://ashpadvantage.com/leaders2013/docs/LC13%20Handout%20-%20Leadership%20-%20Patton.pdf

Objectives

- Develop strategies and action plans for workforce competency and skills to optimize the medication management process and patient care outcomes
- Apply different methods to foster the implementation of the strategies and action plans

Today's Break Out Session

- · Health-system therapeutic standardization, clinical practice guidelines for patient safety, decision support algorithms, monitoring through metrics-Didactic and Activity
- Break
- Strategic plan, determination of the competency and skills required, development of competency program using different teaching and assessment methods, and monitoring the effectiveness of the plan-**Didactic and Activity**
- Summary/conclusion- group participation

NCING QUALITY OUTCOMES AND INNOVATIONS Optimizing Quality, Safety and Cost at the Largest Not-For-Profit Healthcare System

in the United States

Roy Guharoy, Pharm.D., MBA, FCCP, FASHP Vice President, Chief Pharmacy Officer, Ascension Health **Clinical Professor of Medicine, University of Massachusetts** Medical School

Objectives

- · Describe medication use value equation and challenges in a large diverse healthcare system
- Describe strategies to implement evidence based medication use, prospective clinical monitoring and standardized safety processes across the system
- Describe role of team work to achieve accountability and associated outcomes
- Explain role of technology optimization to improve work flow process enabling the pharmacists to close medication management gaps in the continuum of care

Our Vision Calls Us to Strengthen the Catholic Health Ministry

OUR

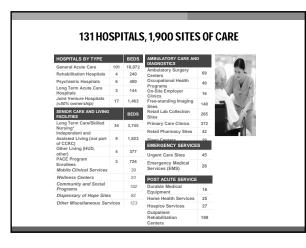
OUR VISION We envision a strong, vibrant Catholic health ministry in the United States which will lead to the transformation ensure service that is committed to health and well-being for our communited to health and well-being to rour communited and the adership and sponsorship, to ensure a Catholic health ministry of the future.

OUR MISSION Rooted in the loving ministry of Jesus as healer, we commit ourselves to serving all persons with special attention to those who are poor and vulnerable. Our Catholic health ministry is olic health ministr ated to spiritually red, holistic care ins and -We are ates for a ate and just

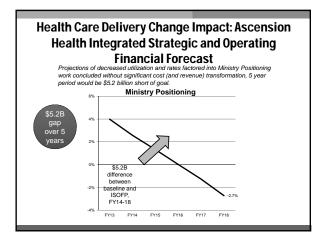
OUR VALUES

Integrity Inspiring trust through

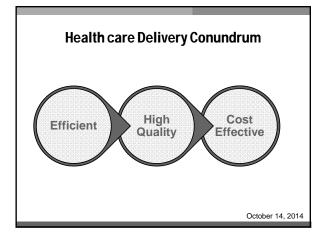
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From FY '12- increased b		Ƴ '13-'14 sper ôM	nd				
5.8%		Key I	Key Drivers				
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M		Antineoplastic Agents	\$9.2M	11%			
		Disease-Modifying Antirheumatic Agents	\$4.5M	12%			
		Hemostatics	\$2.5M	16%			
		Vaccines	\$2.4M	14%			
		Enzymes	\$2.1M	118%			
		Thrombolytic Agents	\$2.0M	20%			
		Antipsychotic Agents	\$1.8M	16%			
		Dihydropyridines	\$1.8M	159%			
		Anticoagulants	\$1.8M	7%			
2013	2014*	Opiate Agonists	\$1.8M	11%			



Weak Operating Margins and Lower Patient Volumes

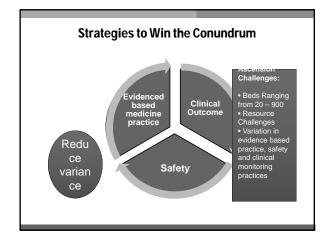
Squeeze the Balloon??

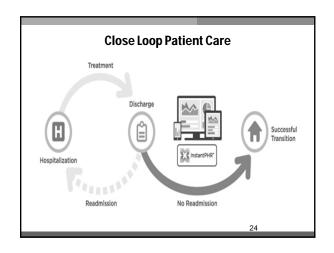


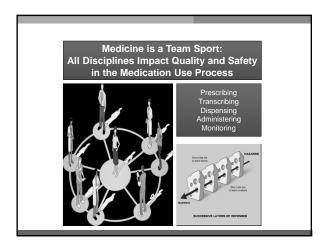
Comment from S&P Managing Director

"Hospitals have done a good job cutting costs to deal with declining revenues. But in the last year with the additional pressure of volume declines, it's been the straw that is breaking the camel's back. The healthcare sector is at a tipping point where negative forces are outweighing many provider's ability to implement sufficient countermeasures."

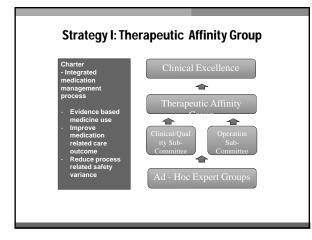
 Martin Arrick Standard and Poor Rating Services August 14, 2014

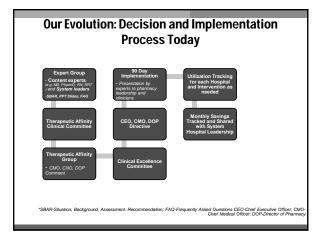


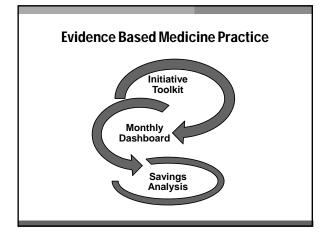


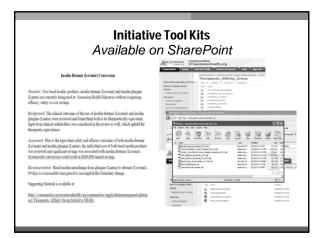




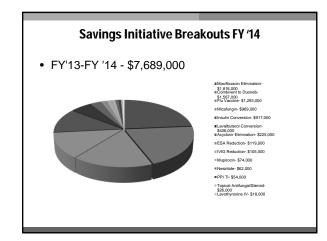


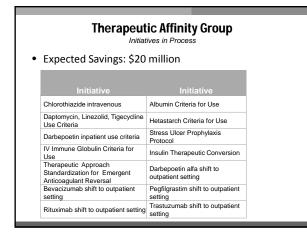


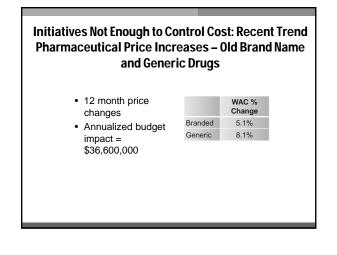


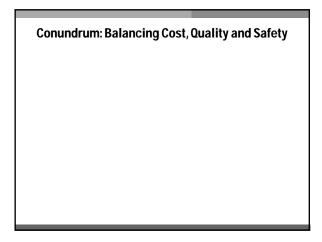


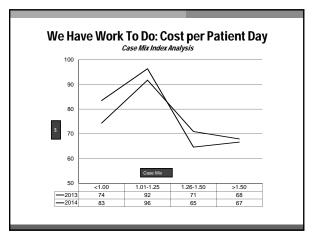
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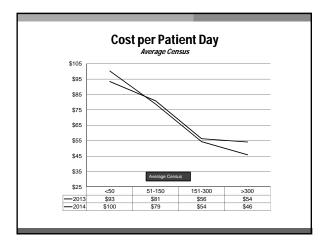




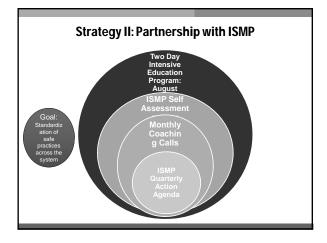


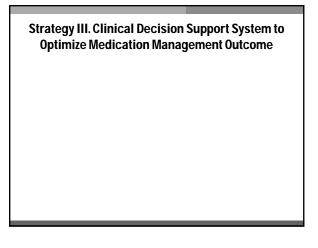


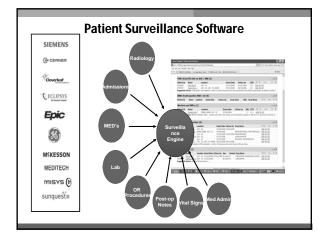


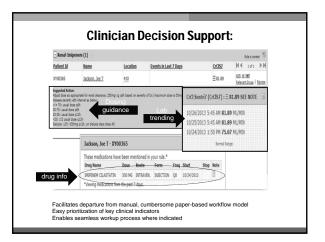


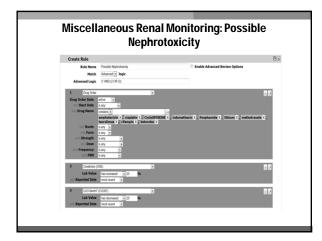


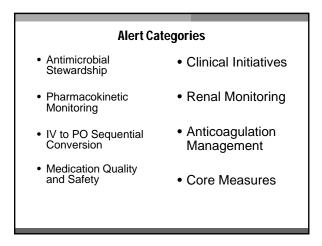












Alert Categories

Antimicrobial Stewardship

- **Bug/Drug Mismatch** Rule surveys microbiology culture results in real time and detects situations in which the organism shows a resistance to the specific antimicrobial being administered to the patient
- De-escalation/Streamlining of Therapy o Rule identifies patients with a positive *Enterococcus faecalis* culture that are being treated with vancomyin or linezolid but may be candidates for a different antimicrobial agent

Pharmacokinetic Monitoring

Dose Optimization

- Rule identifies patients with elevated serum aminoglycoside trough concentrations, targeting the patient for dose adjustment to prevent nephrotoxicity
- IV to PO Sequential Conversion
- Fluconazole
 Bule ident

Alert Categories

Medication Quality and Safety

- Monitoring for Nephrotoxicity

 Rule identifies all patients on nephrotoxic medications (e.g. CISplatin, cylcloSPORINE, methotrexate, ketorolac) with an increase in serum

 creatinine of 25% or decrease in calculated creatinine clearance of 25% Severe Sepsis - SIRS
- Rule identifies all patients meeting 2 or more SIRS criteria and have a lactate level of >2
- Oral Methotrexate Dosing Verification (ISMP Best Practice) Rule identifies patients with active orders for daily oral methotexate, prompting the clinician to verify for appropriate frequency based on indication

Renal Monitoring

Meperidine (Demerol)- Renal Dosing

 Rule identifies adult patients with an active medication order for meperidine requiring dose adjustment or discontinuation based on renal function parameter

Alert Categories

Anticoagulation Management

- Renal Dosing Dabigatran
 o

 Rule identifies all patients with reduced renal function also receiving dabigatran, prompting clinician to monitor and/or adjust the dose
- HIT Identification
 - Rule identifies patients with potential heparin induced thrombocytopenia (HIT) (i.e., patient with active orders for heparin or enoxaparin with platelets less than 100K or a decrease of 50%
- Anticoagulant and Epidural Preventing Neuraxial Bleeding Rule identifies all patients with concomitant active orders for epidural and anticoagulants medication, including oral agents (excluding heparin flush)

Alert Categories

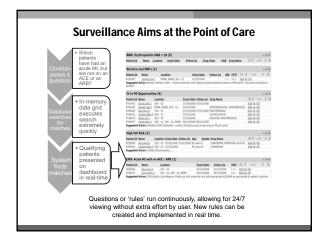
Core Measures

- AMI no ACE/ARB o Rule identifies AMI patients with no active order for an angiotensin receptor blocker or angiotensin converting enzyme inhibitors
- AMI no Beta Blocker
 o Rule identifies AMI patients with no active order for a beta blocker

Therapeutic Initiatives

- Moxifloxacin Therapeutic Interchange o Rule identifies patients with active orders for moxifloxacin and prompts clinician to facilitate review and change in therapy to levofloxacin
- Therapeutic Initiatives: Levothyroxine IV Dosing

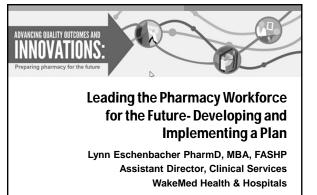
 Rule identifies patients with active orders for Levothyroxine IV that
 prescribed daily for assessment to be administered every 3 days





Journey to Excellence: Lesson Learned

- Develop clear evidence based medication utilization
- Decisions based on engagement and collaboration with hospital physician, pharmacist and nursing leaders
- Support implementation locally
- Provide feedback on performance
- Partnership with national organizations to optimize adoption of best practices (e.g., ISMP, ASHP)
- Utilize technology to improve workflow efficiency enabling the pharmacists to close medication management gaps in the continuum of care
- Address the skill and resource gaps in smaller size hospitals



Polling Question: What is the level of your competency program?



- a. Extensive. Annually updated with detailed education, active learning and hands on competency assessments.
- b. Moderate. Lesser variation of extensive.
- c. Basic. We sign a form that we are competent.
- d. None

Objectives

- Understand and apply the different teaching methods to develop competency and skills
- Understand and apply the different assessment methods to develop competency and skills
- Develop a 2-3 year process for development of staff and competency assessment to raise and change the level of competency for staff

Background

- Are there any pharmacy services you want to expand?
- Is your staff ready?
- What do you need to do to get them ready?
- How do you get them ready?
- How do you keep them competent?

WakeMed Health & Hospitals



- 870-bed, not-for-profit health care system
 The Polaith (North Carolina) Compute is the only card
- The Raleigh (North Carolina) Campus is the only certified primary stroke center and Level I Trauma Center in Wake County

 It has 575 acute beds and 84 rehab beds
- Pharmacy Services are an integrated, decentralized model with pharmacists located on the patient care areas throughout the hospital
- In addition to order entry, the pharmacists also perform anticoagulation dosing/monitoring, pharmacokinetics dosing/monitoring, patient profile reviews, rounding, antimicrobial stewardship, code response, discharge counseling and transitions of care.

Strategic Plan

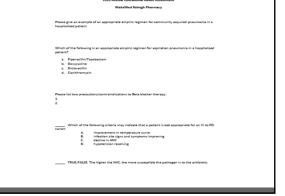
- BSC/Goals for the organization?
- · Sensing sessions with Pharmacists
- Off site session
 - Clinical coordinators, specialists, residents
 - Where are you going?
 - What is important?
 - What value do you bring to the organization?
 - Set clear expectations
- Decide focus as a team = buy in
 - Vancomycin, anticoagulation, code response, TDM, ASP, TOC

Analysis of the current needs

- Need to determine which competencies and skills need development
- Baseline assessment to help determine extent of knowledge development and focus areas

Educational Needs Assessment

- Initiated in 2010
- 100% completed by all pharmacists (full time, part time, supplemental)
- 4 hour assessment completed at work
- Cases, short answer, multiple choice, true/false
- Focus areas
 - Antimicrobials
 Cardiology
 - IV to PO
 - Identification of drug therapy interventions
 - HypertensionStroke
 - Stroke
 Anticonvulsants
 - Diabetes
 - Pain Management
 - Drug information
 Heart Failure
 - Anticoagulation
 - Pediatrics



Outcomes

S.H.A.P.E

- July 2011- December 2012 (dates extended for annual evaluation)
- Stroke, Hypertension, Anticoagulation and Pain- Education Stroke
 - Code Stroke and pharmacists role in responding
 - Resident led stroke topic discussion
 - One-on-one training
 - · Hypertension
 - Waiting on JNC 8
 - Anticoagulation
 Chest Guidelines update
 - Dabigatran (Pradaxa®) inservices
 ACPE CE on-line
 - Pain Management
 - Assessment in pairs, primary literature discussion, cases and test

Educational Teaching Methods

- Didactic
- Audience Response
- Patient Cases
- · One on Ones
- ٠ Peer Teaching
- Small Groups
- Flipped Classroom

Didactic

- Lecture
- Might contain questions or a case
- Examples
- Orientation Pharmacokinetics
- Vancomycin, Aminoglycosides
 Phenytoin
 Antimicrobial Stewardship
- Pro
 - Good for larger groups
 - No advanced preparation
 - Con
 - Passive No advanced preparation
 - Not well retained No application of knowledge
 - Doesn't develop critical thinking

Audience Response

- Base of didactic Cases with Audience Response using mobile devices
- Feedback throughout the presentation and modify based on responses
- Example: Antimicrobial Stewardship
- GPC in Clusters, GPC in Pairs and Chains, GNR- ESBL/Pseudomonas Pro
 - Good for larger groups
 - Some application of knowledge

 - Can modify based on how the group answers General trends based on answers for future education
- Con
- May not completely retain
- Participation in answering with ARS not required Not individualized or customized to each employee

Patient Cases

- · Canned cases from real patient scenarios - Packet containing 26 different pharmacokinetic cases
 - Packet containing 20 different anticoagulation cases
- Pro
 - Real patient scenarios
 - Application of the concept
 - Development of critical thinking
- Con
 - Time to work with each employee
 - Need to save cases
 - Not in real time, more controlled environment

One on One

- Modeling, shadowing and coaching individually with each employee
- Example of focus areas
- Pharmacokinetics, therapeutic drug monitoring, anticoagulation Pro
- Dedicated individual time
- Customized to each employee
- Application of the concept in real world environment with support
- Whole patient approach Develops critical thinking
- Con

 - Variability between preceptors
 Time for preceptors along with students/residents/clinical responsibilities
 - Difficulty in scheduling part time and supplemental staff
 - · Consistency of staffing
 - Perception by the staff

	Training Topics	Training Objectives	Date Reviewed/ Initials	Competency Assessed Date/Initials	Comments
I.	Antibiotics- Job Standard	Verify appropriateness of dose for each antibiotic order			
	3	Verify appropriateness of indication for each antibiotic order			
		Verify appropriateness of duration for each antibiotic order			
		Review available culture and sensitivity information and make appropriate changes to therapy based on these results			
		Recognize appropriate circumstances to recommend an IV to po conversion			
		Identify appropriate alternatives when the drug of choice cannot be administered (i.e. allergy)			
		List appropriate monitoring parameters for antibiotic therapy			

	Training Topics	Training Objectives	Date Reviewed/ Initials	Competency Assessed Date/Initials	Comments
II.	Anticoagulation-Job Standard 4	Verify appropriateness of dose for each anticoagulant (i.e. warfarin, lovenox, heparin, fondaparinux) order			
		Verify appropriateness of indication for each anticoagulant (i.e. warfarin, lovenox, heparin, fondaparinux) order			
		Verify appropriateness of duration for each anticoagulant (i.e. warfarin, lovenox, heparin, fondaparinux) order			
		Indentify the appropriate therapy goal for each patient with an anticoagulant order			
		Identify and manage major drug-drug interactions involving anticoagulants			
		Appropriately manage supratherapeutic levels of anticoagulants			

	Training Topics	Training Objectives	Date	Competency	Comment
			Reviewed/ Initials	Assessed Date/initials	
Ш.	Therapeutic Drug Monitoring- Job	Identify the appropriate reference range for all drugs with levels to be monitored			
	Standard 4	Verify appropriateness of indication for drugs with levels to be monitored			
		Identify the potential consequences of sub/supratherapeutic levels			
		Appropriately manage sub/supratherapeutic levels			
	Training Topics	Training Objectives	Date Reviewed/	Competency Assessed	Commen
			Reviewed/ Initials	Assessed Date/initials	
		List 10 commonly used drugs that			
IV.	Renal Dosing-Job Standard 3	require renal dosage adjustment			
IV.					

Peer Teaching

- Staff developed and presented topics Pediatric staff- not originally pediatrics trained •
- Recorded using powerpoint and posted on intranet
- Assessment
- Pre and post test - End of year competency assessment
- Topics
- Anticoagulation in pregnancy, appendicitis, asthma, DKA, kawaskai, neonatal sepsis, osteomyelitis, bacterial meningitis, hypertension, pneumonia, sickle cell, skin and soft tissue infections
- Pro
- Staff involvement
 - Saved for future use and references
- Con
- May not be the experts (reviewed by coordinator and specialist)
 Still passive for those not teaching the module

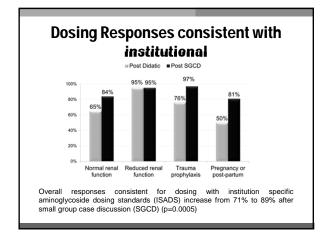
Small Groups

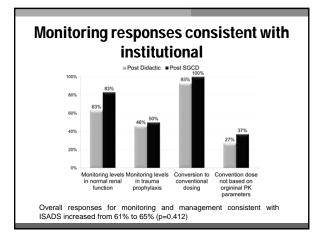
- Cases sent out ahead for preparation to be worked up and discussed in small groups
- Cases were real patient cases that were identified by our ID specialist
 Small group 4-5 employees with subject matter expert
 Aminoglycoside-pregnancy/post partum, high dose, normal and impaired
 renal function, and trauma
- Need to retest in 6 months and 1 year to assess retained knowledge
- 1st step to Peer Review
- Pro
 - Advanced preparation, work with the material several times
 - Active learning Application of knowledge

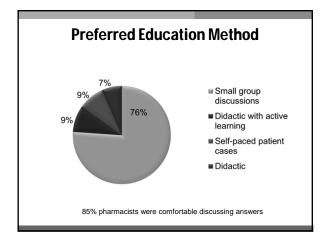
 - Small numbers so can individualize learning Development of critical thinking
 - Required participation since round robin answering
- Con
 - Time to prepare _
 - Time to conduct groups
 - Employee feedback about having to prepare Scheduling difficult and hard for those who missed their session

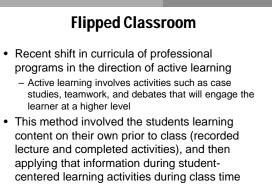
Purpose and Methods

- <u>Purpose:</u> This study was completed to determine if small group case discussions increase the consistency of applying institution specific aminoglycoside dosing standards (ISADS) in different clinical situations and maintain core competencies.
- Methods: A single-center observational study was completed with community hospital decentralized clinical pharmacists (DCPs) employed from August 2013 to June 2014. In August 2013, aminoglycoside didactic educational presentations with audience response (ARS) were conducted for development of baseline knowledge
- Spring/Summer of 2014 there were 2 rounds of small group discussions to assess if DCPs retained and applied ISADS consistently across different clinical scenarios.
- Responses from the small group session 1 reflected the effectiveness of original didactic presentations with ARS, and was compared to the 2nd small group session which reflected the effectiveness of 1st small group session.
- A survey was completed to determine DCPs preferred method of continuing education.









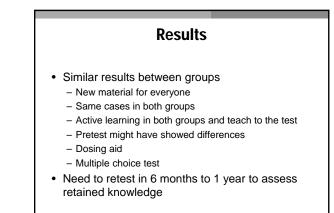
Flipped Classroom

- On-line lecture module prior to discussion and case application during the discussion
- Need to retest in 6 months to 1 year to determine retention of knowledge
- Pro
 - Application based, robust discussion
 - Hear and apply the material twice
 - Active Learning
 Development of critical thinking
 - Learning from each other
- Con
 - Time to prepare by staff
 - Difficulty in scheduling staff

Study Design

- Group One received a didactic lecture on factor products (i.e., NovoSeven®, Profilnine SD®, etc) with case based discussion at the end
- Group Two received the lecture in advance and completed cases in preparation for the educational session
- Each group took the same assessment at the completion of the session and scores were compared between the two groups

	Results	
Result	Didactic with Cases	Flipped Classroom
Average years of practice		16 years
PGY1, PGY2, BCPS	7	8
Average comfort level with material pre	3.7	4.
Average comfort level with material post	7.3	
Preparation time 0-15 minutes	14	
Preparation time 15-30 minutes	C	4
Preparation time 30-60 minutes	2	10
Preferred method of teaching of flipped	7	14



How to demonstrate competency

- Test/assessment
- Patient cases
- Simulation
- Direct observation
- · Pharmacy skills day
- Peer review

Competency Assessment Tools for Health-System Pharamcies- Lee Murdaugh 4th Edition

Adequate assessment method must:

- · Accurately measure the quality of the performance
- Indicate how well the person will perform similar tasks
- · Reflect what the person will do in general practice
- Need to be both valid and reliable

Cognitive Test

- · Written or verbal assessment of knowledge
- Need to write or use other competency assessments
- Need to decide if completed during work or take home •
- Pro
 - Assessment of general knowledge
 - Relatively easy to do
 - Accuracy of measurement
- Generalization of similar tasks • Con

 - Some are great test takers, may not be able to apply knowledge on real patients
 - Does not indicate how well will perform in general practice

If take home, answers can be shared

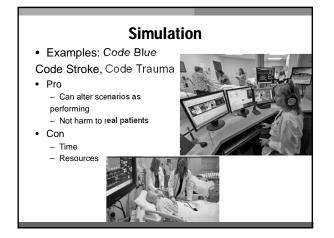
Patient Cases

Vancomycin adjustment

initiatio adjustr

- Packet of Cases to complete
- Real time review of active patients
 - Pro
 - Better application of knowledge - If real time, more realistic
- How perform on similar
- cases
- Con
- Time to complete - Canned cases- not all scenarios
- Accuracy of measurement is variable
- Difficult for the application to what will do in real practice if just a packet
- of cases

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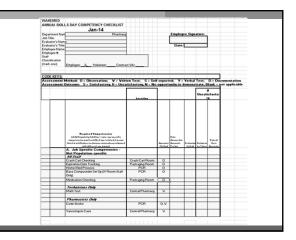
Direct Observation

- Face to face meeting and review with pharmacist

 Examples: Cardiology patient compare between specialist and clinical staff pharmacist, patient counseling, review of note
- Shadowing
- Pro
 - Real time application- on the job
- Con
- Time to complete
 - Variability if several complete as proctor
- Hawthorne effect if shadowing

Pharmacy Skills Day

- · Stations, sign off check list, remediation process
- Examples: TPN set up, vancomycin dosing, code cart checking, code stroke- TPA preparation, home medication/controlled substance storage, medication dispensing checking
- Pro
 - Short amount of time for several skills
 - Direct observation
- Con
 - Could be superficial if not well proctored
 - Limited number of scenarios



Peer Review

- Review of cases by peers

 Anonymous or known
- Need selection process
 Select own or leadership select
- Pro
 - Similar to medical profession
 - Review of actual cases
- Con
 - Uncomfortable
 - Hindsight is 20/20

Ongoing assessment and monitor effectiveness of the plan

- Determine frequency of assessment of individual skills and competency
- Determine frequency and overall monitoring of effectiveness of the entire program or service that is being provided
- Maintain documentation
- Transparency
 - Clear expectations with the staff
 - Update them on the progress and status

Activity

- Strategic planning and the assessment of needs
 What areas are value added for pharmacist
 - involvement and/or pharmacy to lead? – What competency and/or skills are needed?
- Brainstorm 3 minutes
- List the top 3
 - Areas of focus
 - Competencies and Skills

Activity

- For each competency and/or skill which method for the education will you use from those described (didactic, audience response, patient cases, one on ones, peer teaching, small groups, flipped classroom)
 - Brainstorm 3 minutes

Activity

- What assessment method will you use for each competency and/or skill (test, patient cases, simulations, direct observation, pharmacy skills day, peer review)
- · Brainstorm 3 minutes

Activity

- · Develop the logistics on how you will roll this out
 - Who will teach it?
 - Who will assess it?
 - How will you document this?
 - How often conduct and assess?
- · Brainstorm 3 minutes

Activity-Sharing

- Strategic plan/area of focus/area of growth
- What competencies and/or skills need to be developed?
- What education method will you use for each competency and/or skill?
- What assessment method will you use for each competency and/or skill?
- Logistics- who will teach?, who will assess?, how will you document? How often conduct and assess?