

AACPD  
“BEST PRACTICES”



# Novel Curriculum for PGY-1s: Academic Medicine Rotation

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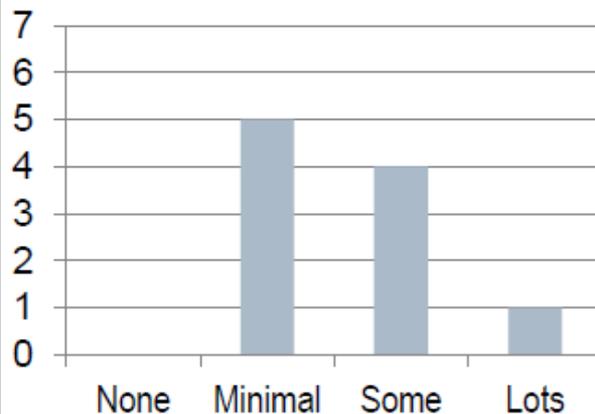
University of North Carolina

# Needs Assessment Pre-AMR Survey

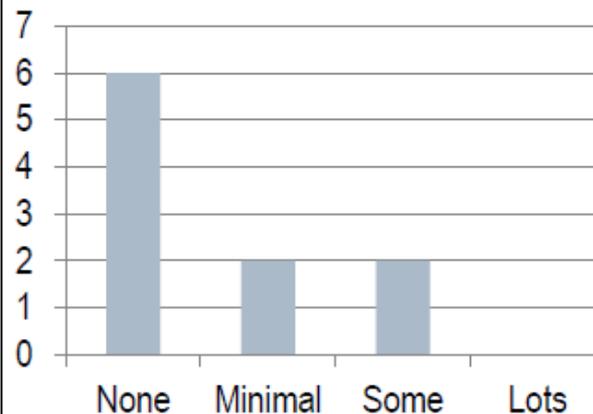
## 10 PGY-1s, November 2011



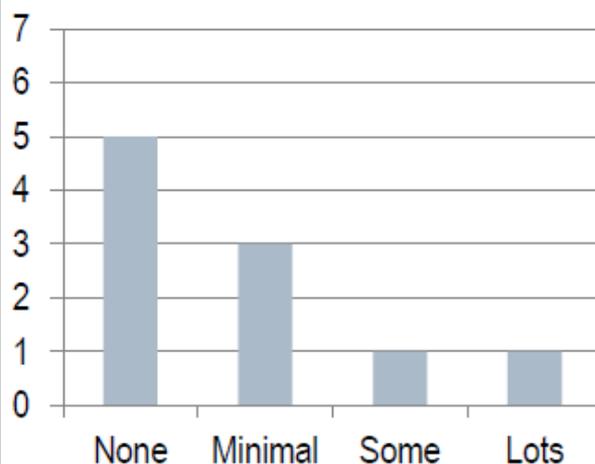
How much formal training do you have in medical literature searches?



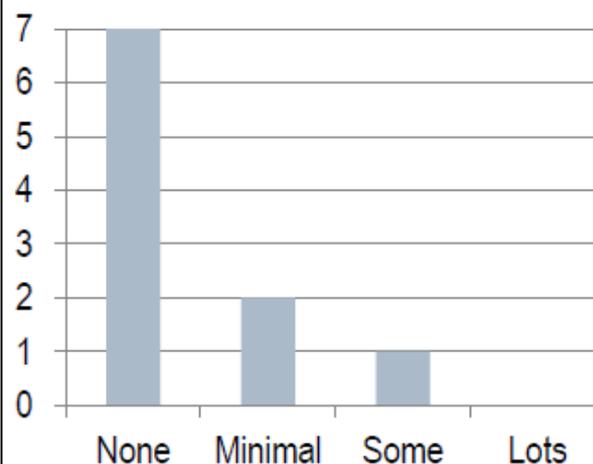
Do you have any formal training in quality improvement in medicine?



How much formal training do you have in being a teacher?



How much formal training in leadership have you had?





# Structure

- 5 week rotation
- No clinical commitment
- ≈62 hours instructor led sessions
- Daily self-directed learning
- Involved all core competencies except direct patient care
- Fits in ACGME, ABA CBY requirements

# Course Faculty



- Experts within and outside of our department and institution:
  - Anesthesiologists
  - Health science librarians
  - IRB members
  - Researchers
  - Grant experts
  - Legal staff
  - Pediatricians
  - Obstetricians
  - Surgeons
  - Risk-managers
  - Members of the NC medical board

<b>Critical Appraisal</b>	<b>Quality Improvement</b>	<b>Teaching</b>	<b>Professional Development</b>
Asking a question and searching for answers	The science of quality improvement	Clinical teaching while you work	Personality inventory
Cross sectional studies	Prevention of surgical site infection	Simulation tools in anesthesia education	Medical malpractice liability reform
Cohort studies	Overview of risk management	Social media in medical education	Understanding anesthesia billing
HSL Department of Anesthesiology Library Resource Guide	National surgical quality databases	The RIME framework	Accountable care organization
Case control studies	Health literacy and anesthesia consent	Preparing effective PowerPoint presentations	North Carolina Medical Board
Limitations to EBM	TeamSteps	Designing a poster presentation	The NCSA
Searching for different study types	National anesthesia quality databases and incident reporting mechanisms	Optimizing problem based learning	Common problems with the IRB process
Applying statistics in medicine	Just culture and dealing with complications	Feedback in learning and teaching	Public speaking
Writing an abstract	Preparing an M&M conference	Educational research	Lifelong learning in medicine and MOCA
Systematic reviews and meta-analysis	Designing and using surveys		Persuasion and negotiation
What study type and when?			Planning your future as an anesthesiologist in a knowledge based environment
EBM and outcomes research			Leadership series: skills workshop
Randomized controlled clinical trials			Conflict resolution in medical practice
EBM: clinical applications sessions			The value of anesthesiologists outside of clinical care
Ref work and End Note			Walk through a malpractice case
Overview of research funding and grants			

# Individual Research Project



- Evidence based review vs. QI
- Put to use the material from course
- Faculty mentor
- Graduation symposium
  - oral presentation





# Projects

- Evidence Based Review
  - Effect of Abx prophylaxis on surgical site infection in pediatric patients
  - Perioperative visual loss following spinal surgery
  - Postoperative ileus and anesthesia: a review
  - Red blood cell transfusion thresholds based on hemoglobin values
- Quality Improvement
  - Lumbar drain management for thoracoabdominal aortic surgery
  - A computer generated page reminder improves compliance with properly capped intravascular catheter hubs
  - Increasing isoflurane use as a cost saving measure
  - A learning module for ultrasound guided regional anesthesia
  - Standardization of the operating room to post anesthesia care unit hand off
  - Effects of an increased in the standardization of intern sign out

# Worthwhile?

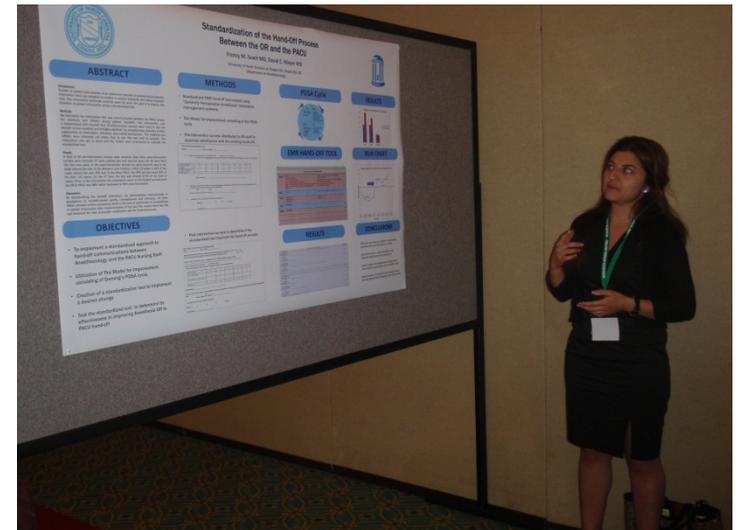
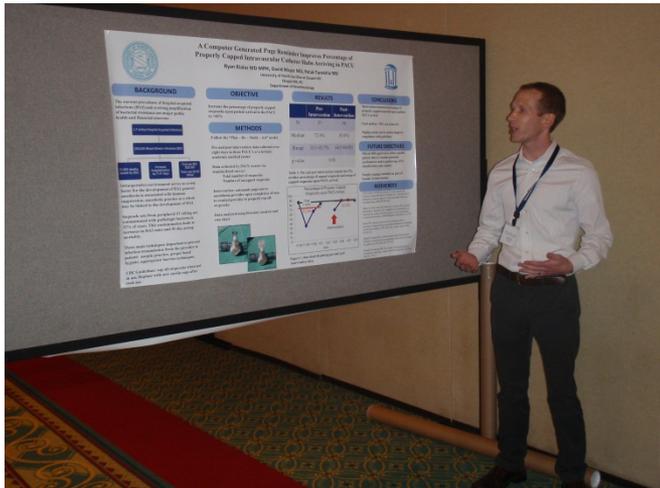


- Observations

- Development of interpersonal and communication skills
- Positive feedback
- Submitting conference presentations

- How can you do it?

- Connections in other departments
  - School of Public Health
  - Health Sciences Library
- Intern time off rotations



# Best Practice - Curriculum of Transfusion Medicine with Simulation

Mojca Remskar Konia MD, PhD\*, MACM  
Shanna M. Morgan, MD  
Benjamin Rioux-Masse MD, FRCPC\*\*

\* Department of Anesthesiology

\*\*Department of Laboratory Medicine and Pathology

University of Minnesota



# Objectives

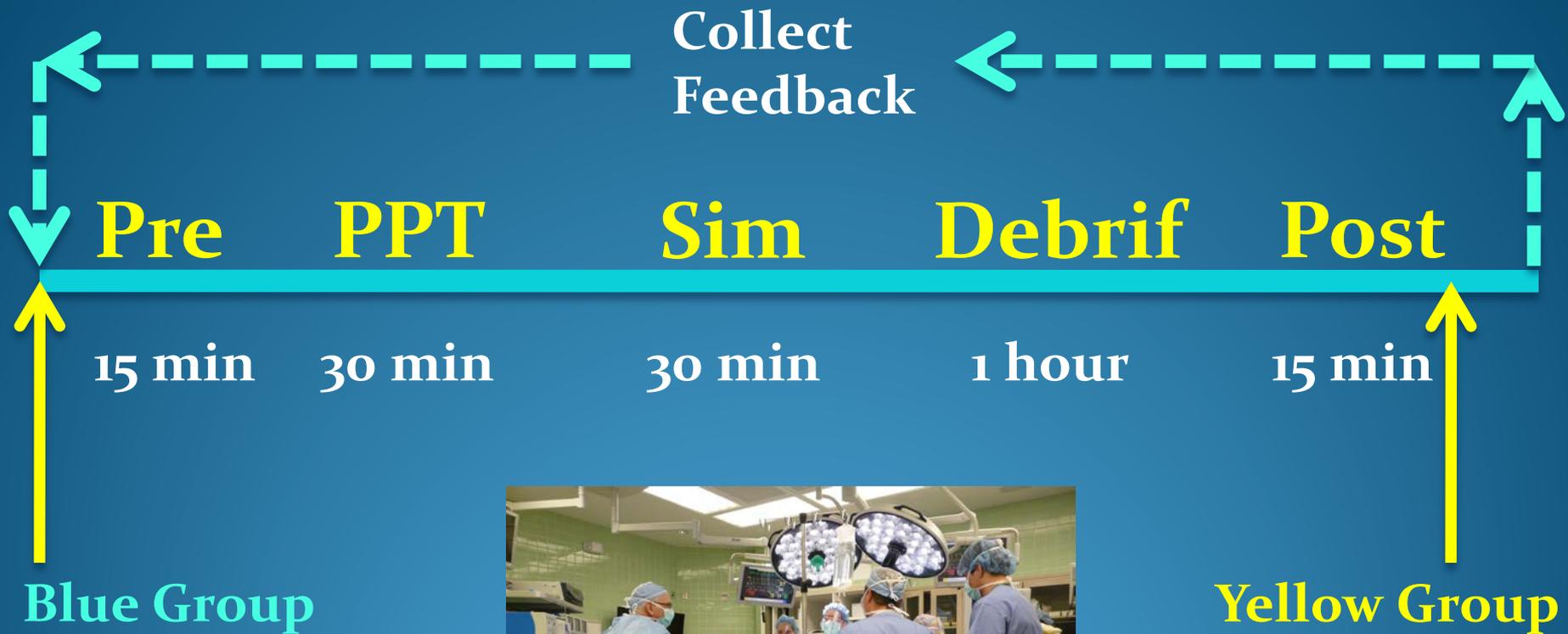
Develop a transfusion medicine curriculum that:

- Teaches all important points
- Is feasible
- Utilizes modern technology
- Can be modified for different learners/specialties
- Transfer into clinical practice
- Uses feedback for continuous improvement

# Needs assessment

- Observation by faculty
- Learner input
- Low scores on MCQ
- Transfusion department observation
- Multidisciplinary need
- Literature review

# What did we do?

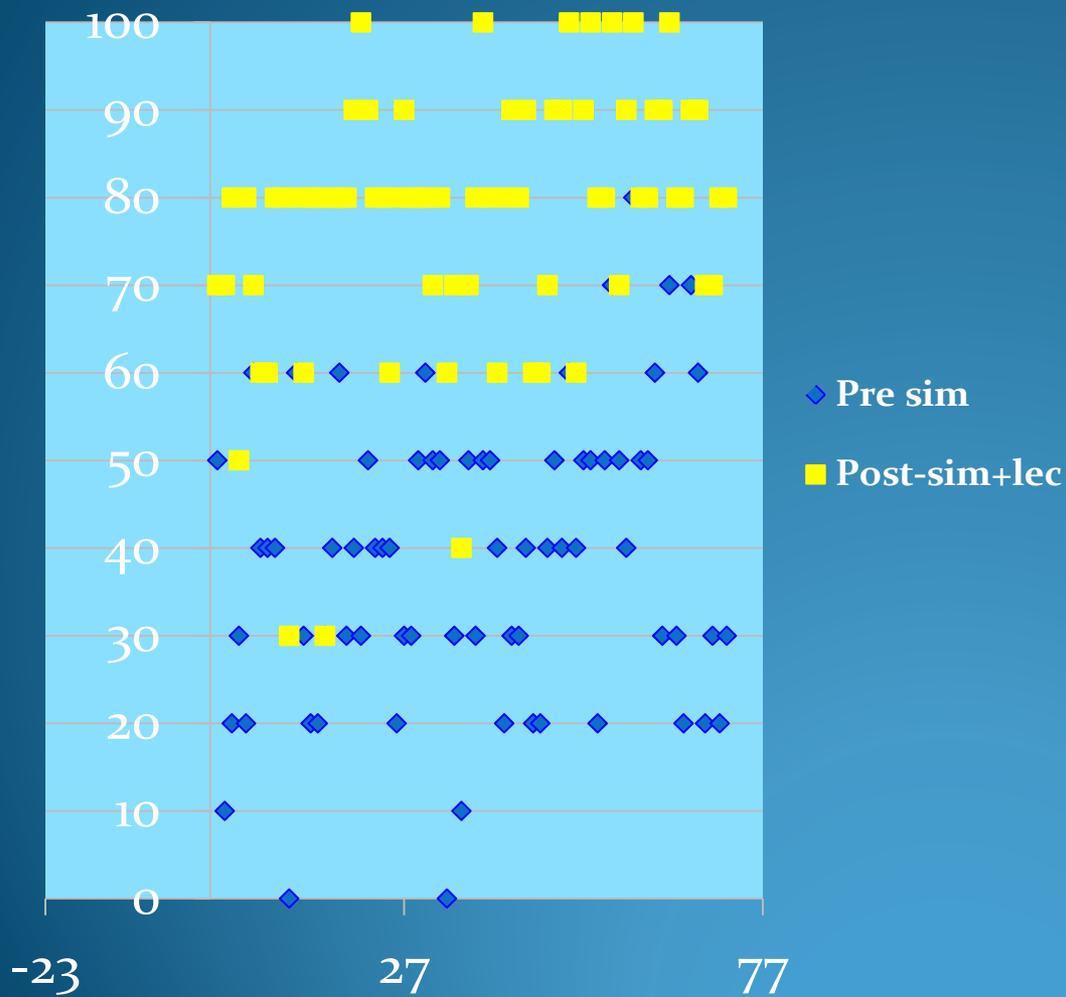


# Assessment and outcomes

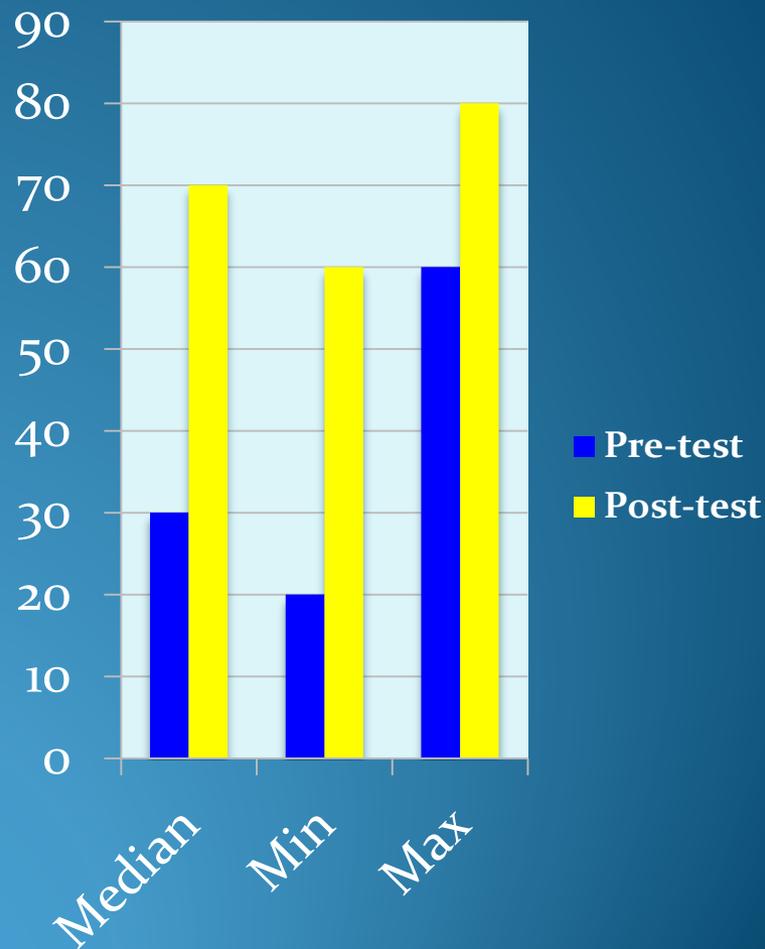
- Expert review of session, lecture, check-list, and test review
- Learner satisfaction
- Check-list of desired actions
- Objective results on a multiple choice questions test
- Learner evaluation form
- Course evaluation form

# Results

## Raw data



## Pre/post



# Conclusion

- Activity works
- Learner satisfaction is high
- It is feasible
- Uncovered areas of deficiencies
- Collaboration between different specialties
  
- Long term retention
- Effects on clinical practice ?

***Innovative Approach to Improving  
Quality and Patient Safety  
by Creating a  
Housestaff Quality Council©***

**November 2<sup>nd</sup>, 2012**

**Peter M. Fleischut, MD**

**Assistant Professor of Anesthesiology  
Weill Cornell Medical College**

**Deputy Quality and Patient Safety Officer  
New York-Presbyterian Hospital**

# ***Residents Remain Disengaged In Quality Improvement***

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Only 28 published articles(1990-2008):

- ✓ Lack of Time, Low Attendance, Long Hours, Demanding Patients
- ✓ Crowded Curriculum
- ✓ Away Rotations
- ✓ Lack of Analytic Capabilities
- ✓ Presumed Lack of Interest
- ✓ Program Expense
- ✓ Lack of Credibility
- ✓ Fear of Speaking Up

*“Residents’ Engagement in Quality Improvement: A Systematic Review of the Literature”  
Patow et al, Academic Medicine Dec 2009*

# *Mission*

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“Improve patient care and safety at New York-Presbyterian Hospital by creating a culture that promotes greater housestaff participation.”

# ***What We Proposed Dec 2007***

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- ✓ **“Buy-In”** through involvement in policy making
- ✓ **Dissemination** of knowledge to peers
- ✓ **Enforcement** of best practices and policies
- ✓ **Development** of relationships
- ✓ **Communication** of key changes
- ✓ **Measurement** of how we’ re doing

# Scope of Service: Start Small

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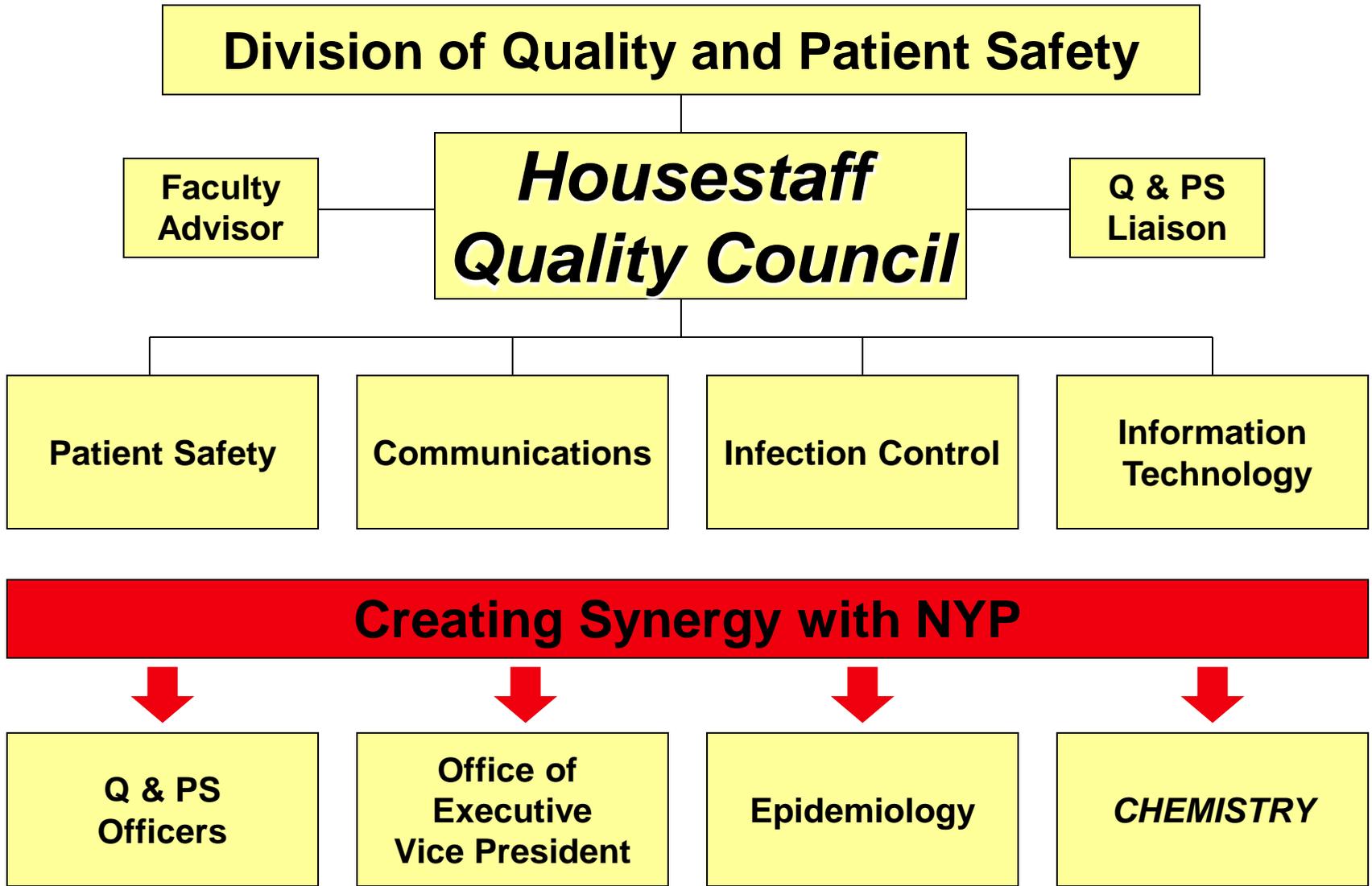


**Initial Meeting April 2008**

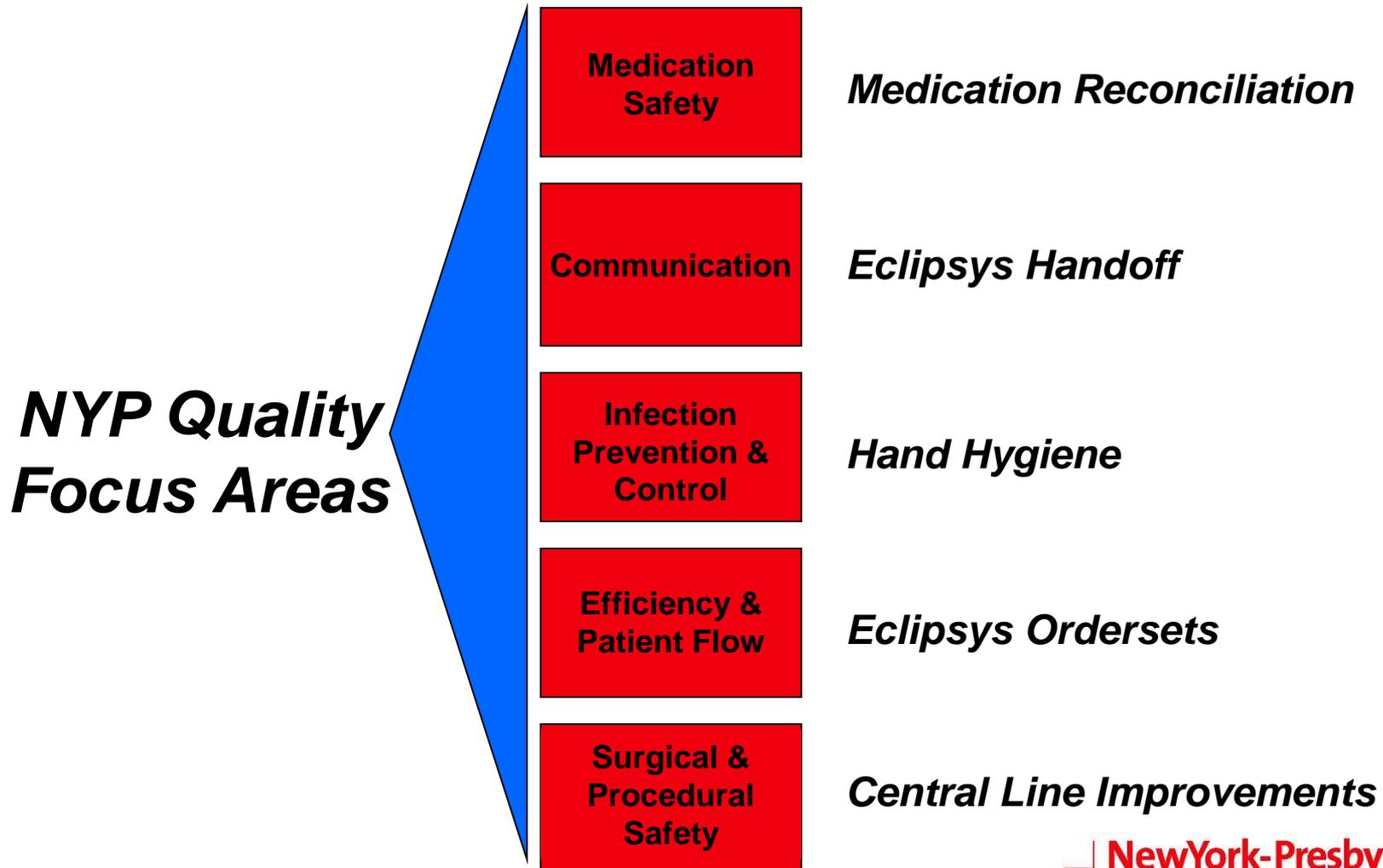
**Quality Focus Area**

- ✓ Medication Reconciliation
- ✓ >99% Compliance

# HQC Structure



# HQC Scope of Service



# Communicating Through Publications

## Ten Years After the IOM Report: Engaging Residents in Quality and Patient Safety by Creating a House Staff Quality Council

Peter M. Fleischut, MD,<sup>1</sup> Adam S. Evans, MD, MBA,<sup>1</sup> William C. Nugent, MD, MBA,<sup>1</sup> Susan L. Faggiani, RN, BA, CPHQ,<sup>1</sup> Eliot J. Lazar, MD, MBA,<sup>1</sup> Richard S. Liebowitz, MD,<sup>1</sup> Laura L. Forese, MD, MPH,<sup>1</sup> and Gregory E. Kerr, MD, MBA<sup>1</sup>

## The Role of Housestaff in Implementing Medication Reconciliation on Admission at an Academic Medical Center

Adam S. Evans, MD, MBA,<sup>1</sup> Eliot J. Lazar, MD, MBA,<sup>2</sup> Victoria L. Tiase, RN, MS,<sup>3</sup> Peter Fleischut, MD,<sup>1</sup> Susan B. Bostwick, MD, MBA,<sup>1</sup> George Hripcsak, MD,<sup>2</sup> Richard Liebowitz, MD,<sup>3</sup> Laura L. Forese, MD, MPH,<sup>2</sup> and Gregory Kerr, MD, MBA<sup>1</sup>

## An Anesthesiology Department Leads Culture Change at a Hospital System Level to Improve Quality and Patient Safety

Peter M. Fleischut, MD,<sup>a,d,\*</sup> Adam S. Evans, MD, MBA,<sup>b,d</sup>, Susan L. Faggiani, RN, BA, CPHQ,<sup>c,d</sup>, Eliot J. Lazar, MD, MBA,<sup>d,e,f</sup>, Gregory E. Kerr, MD, MBA,<sup>d,g,h</sup>

### Quality and Safety

## Perspective: **Call to Action: It Is Time for Academic Institutions to Appoint a Resident Quality and Patient Safety Officer**

Peter M. Fleischut, MD, Adam S. Evans, MD, MBA, William C. Nugent, MD, MBA, Susan L. Faggiani, RN, Gregory E. Kerr, MD, MBA, and Eliot J. Lazar, MD, MBA

## David C. Leach Award

## The 2011 John M. Eisenberg Patient Safety and Quality Awards

