



*Agency for Healthcare Research and Quality*

*Advancing Excellence in Health Care*

[www.ahrq.gov](http://www.ahrq.gov)

# **AHRQ-sponsored Health Services Research Training**

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Francis Chesley, Jr., MD

Director, Office of Extramural  
Research, Education, and Priority  
Populations

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# AHRQ's HSR Training Objectives

- n Support the development of HSR capacity and infrastructure that contributes directly to achieving the AHRQ mission and Portfolio objectives
- n Support innovations and emerging issues in training and career development (models of infrastructure development, core competencies work, etc.)
- n Research capacity to meet future needs in HSR



# AHRQ Portfolios of Work

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- n Comparative Effectiveness
- n Patient Safety
- n Health Information Technology
- n Prevention and Care Management
- n Value
- n Innovations and Emerging Areas



# Current Training Programs

<u>Current Programs</u>	<u>Mechanism</u>
NRSA Institutional Training Programs	T32
NRSA Individual Predoctoral Fellowships	F31
NRSA Individual Postdoctoral Fellowships	F32
Dissertation Research Grants	R36
Infrastructure (M-RISP/BRIC)	R24
Mentored Clinical Scientist Development Awards	K08
Independent Scientist Development Awards	K02
Mentored Research Scientist Development Awards	K01



# HSR Core Competencies for Doctoral Training

- n 2005 AHRQ-funded grant
- n Chris Forrest (then at JHU) and Diane Martin (U Wash)
- n Core competencies are field generated
- n Findings summarized at <http://www.ahrq.gov/fund/training/hsrcomp.htm>
- n 11 competency areas identified
  - Essential
  - Optional



# Competency: A Definition

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- n A knowledge-based or skill-based asset
- n Reflect both recall of knowledge or skills and application in appropriate settings (Chyung, Stepich, & Cox 2006)
- n Learning objectives link competency identification and assessment



# Essential Domains of HSR Doctoral Training

- n Foundational Knowledge (Quality of care)
- n Theoretical Knowledge (Economics)
- n Relevant and important HSR question development (scientific method and theory)
- n Conceptual models and operational methods (measurement and variables)
- n Study Design (qualitative, quantitative, mixed methods, etc)



# Essential Domains of HSR Doctoral Training (cont.)

- n Data collection and management methods (survey research, data mining, database management)
- n Research conduct management (ethics, authorship)
- n Data analysis (statistics, meta analysis, decision sciences)
- n Professional development (teamwork, project management, knowledge management)
- n Communication (writing skills, dissemination, marketing)
- n Knowledge transfer (Implementation science, translational research)



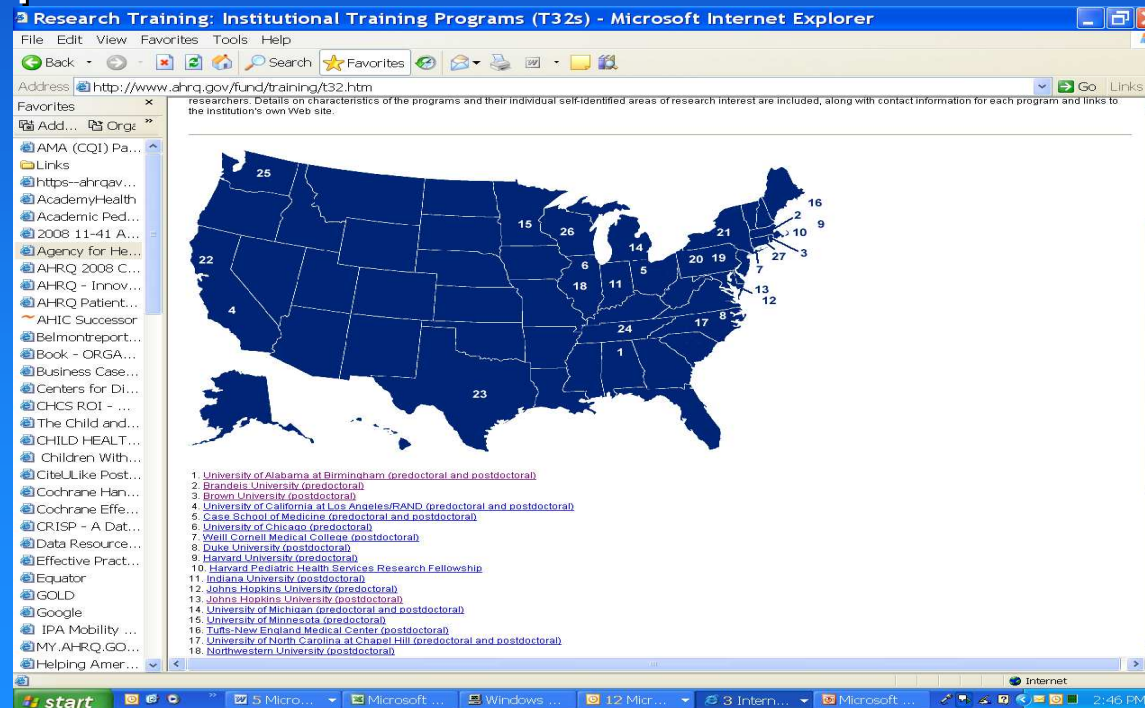
# AHRQ NRSA Training Programs

- n Brandeis University
- n Brown University
- n Case Western Reserve University
- n Children's Hospital, Boston postdoc
- n Cornell Medical College
- n Duke University
- n Johns Hopkins University Predoc
- n **Johns Hopkins University Postdoc**
- n Harvard University Predoc
- n **Indiana University/Purdue**
- n New England Medical Center
- n Northwestern University
- n **Oregon Health and Science University**
- n Stanford University
- n University of Alabama, Birmingham
- n University of California, Los Angeles
- n University of Chicago
- n University of Michigan
- n University of Minnesota
- n University of North Carolina, Chapel Hill
- n University of Pennsylvania
- n **University of Pittsburgh**
- n University of Rochester
- n **University of Texas HSC, Houston**
- n Vanderbilt University
- n University of Washington, Seattle
- n University of Wisconsin
- n **Yale University**



# Training, Competencies, & Quality/Safety Improvement

- n 28 Institutional Awards Made in FY08
- n Almost all agreed to core competencies
  - Specifics to be assessed with first reports





# Training, Competencies, & Quality/Safety Improvement

- n Extent of program focus on QSI depends on trainees' interest and mentor connections
- n Many programs include a QI/PSI focus (course work, electives, research projects, etc)

Case Western	UTHSC
Children's Boston	U WI
JHU (2)	Vanderbilt
Northwestern	Weill Cornell
Stanford	Yale
UCLA SPH	
UNC	
U MN	
Penn	
U Pittsburgh	
U Rochester	



# Inclusion of QSI Training in T32 Programs

- n Cornell - Developed a new course in Quality and Safety improvement. Fellows can join a NY Presbyterian Hospital QI team in their area of interest and work with the team and a specific QI project during their fellowship.
- n University of Rochester - Fellows participate with faculty on QI research. Examples include, quality improvement research in primary care and end of life care and for conditions such as post-stroke management
- n University of Pittsburgh offers QI research elective (Center for Quality Improvement and Innovations)



# QSI-relevant Career Development Awards

Name (award type)	Institution	Focus
Birkmeyer, Nancy (K02)	Dartmouth	Assess and Improve Quality of Care for Low Back Pain
Egede, Leonard (K08)	MUSC	Collaborative management of diabetes in blacks
Haukoos, Jason (F32)	UCLA	Enhancing compliance with HIV testing from the ED
Gallagher, Thomas (K08)	U Wash	Enhancing the disclosure of medical errors to patients
Lightdale, Jenifer (K08)	Children's Boston	Improving safety of pediatric sedation
Martinez, Elizabeth (K08)	JHU	Organization of care and outcomes in cardiac surgery



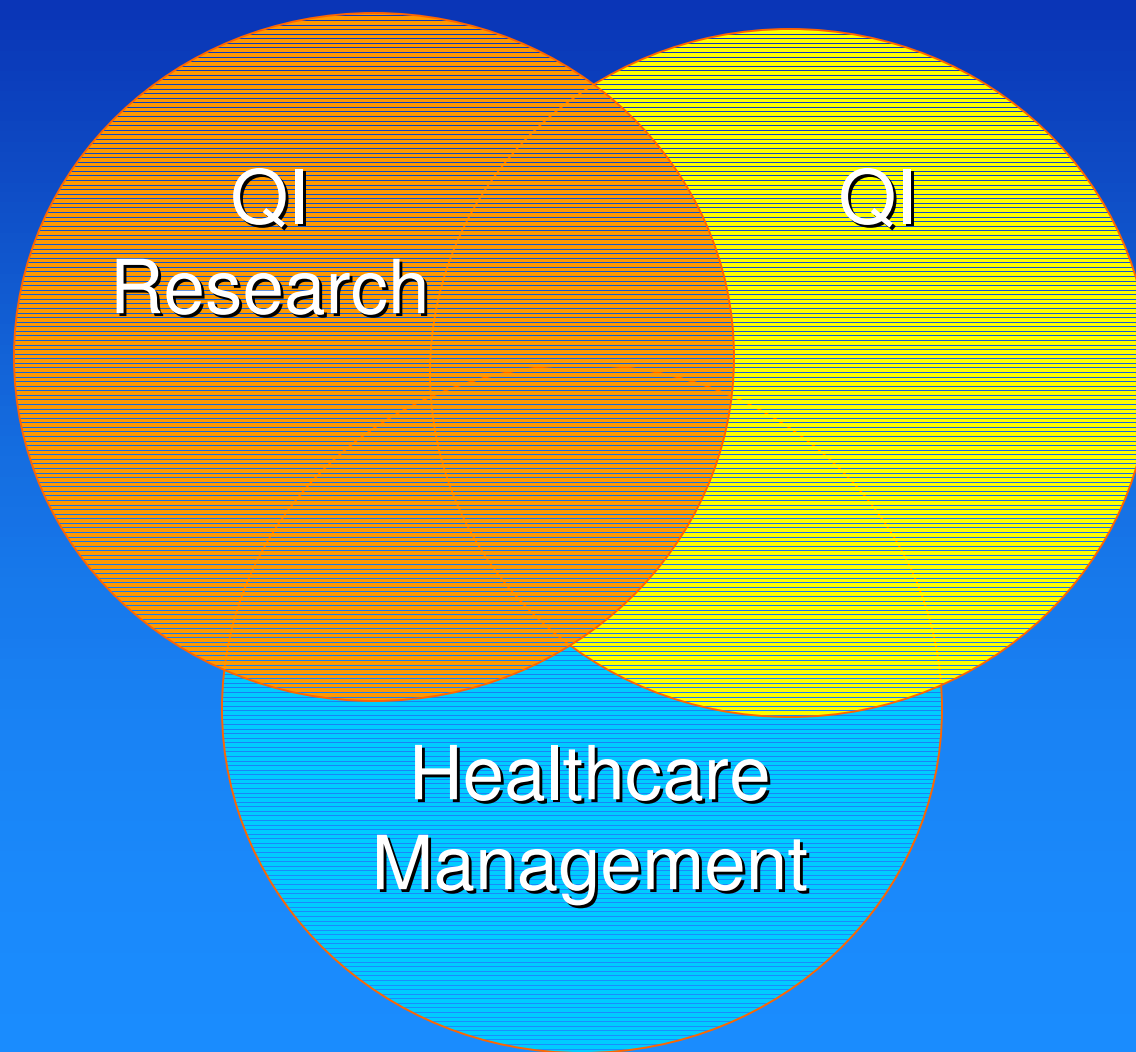
# FY09 QSI-relevant Career Development Opportunities

- n PAR-08-270 Utilizing Health Information Technology (IT) to Improve Health Care Quality (R18)
- n PAR-08-269 Exploratory and Developmental Grant to Improve Health Care Quality through Health Information Technology (IT) (R21)
- n PAR-08-268 Small Research Grant to Improve Health Care Quality through Health Information Technology (IT) (R03)
- n PAR-08-136 Researching Implementation and Change while Improving Quality (R18)

<http://www.ahrq.gov/fund/grantix.htm>



# The Confluence of Research, Improvement, and Management





# Key Questions for Discussion: How, Where, and What About Me?

## How?

- Funding for theory development
- QSI research/evaluation study designs
- Measures:
  - n Inputs
  - n Outcomes
  - n Context and change processes
- Training and mentoring
- IRB/Ethics Guidance

## Where?

- Beyond the academic setting?

## What about me (trainee/investigator/mentor)?

- Promotion and tenure – career paths



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# Questions

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