

University of Kentucky Board of Trustees Retreat October 17, 2014

Mark Williams, M.D.

Why Apply Health Services Research to Public Health Delivery?

- >75% of US health spending is attributable to conditions that are largely preventable
 - Cardiovascular disease
 - Diabetes
 - Lung diseases
 - Cancer
 - Injuries
 - Vaccine-preventable diseases and sexually transmitted infections
- <5% of US health spending is allocated to prevention and public health





Why Apply Health Services Research to Public Health Delivery?

Evidence-based prevention strategies reach less than half of the U.S. target populations at risk:

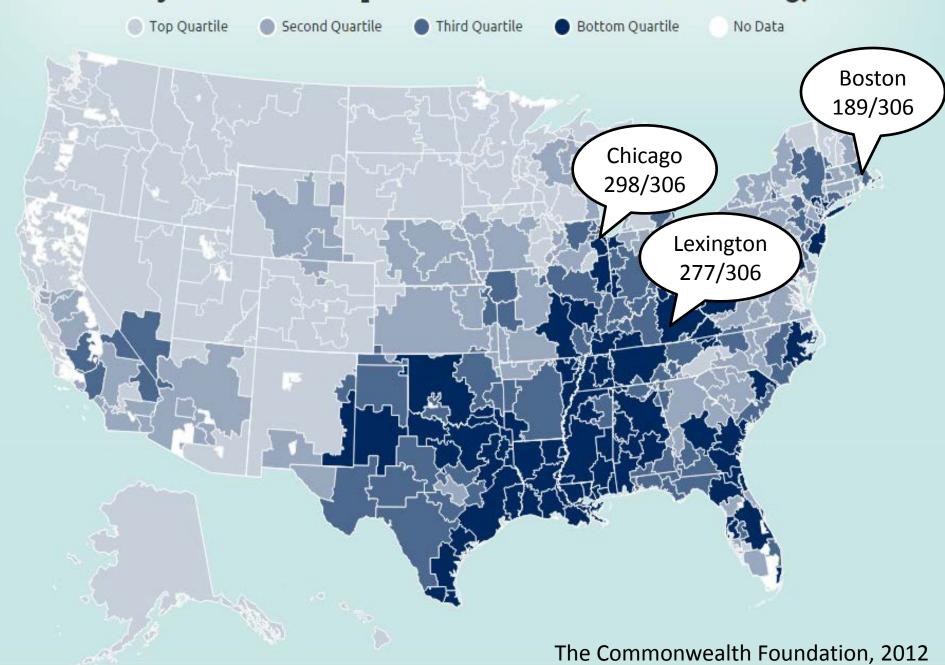
- Smoking cessation
- Influenza vaccination
- Hypertension control
- Nutrition & physical activity programs
- Family planning
- Substance abuse prevention
- Interpersonal violence prevention







Potentially Avoidable Hospital Use and Cost: Overall Ranking, 2012



Effective clinical systems improvement program

Five components



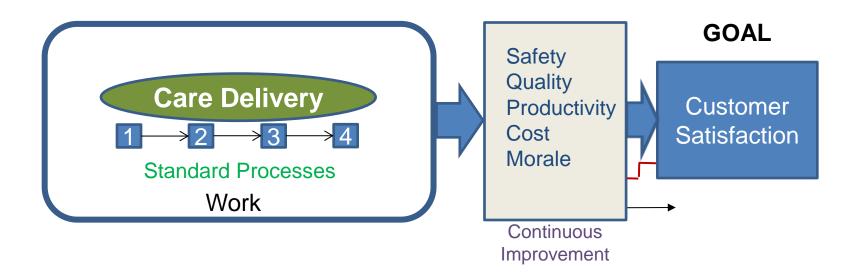








TRUE LEANOperating Environment







Three Research Project Examples For Improving Care Delivery

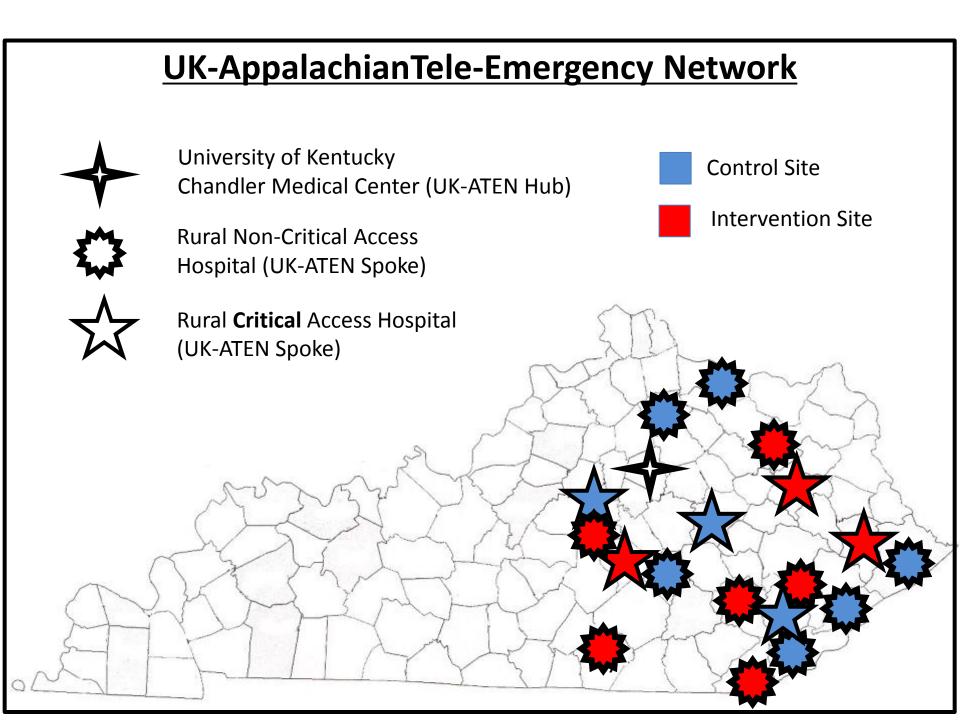
UK-Appalachian Tele-Emergency Network

 National Coordinating Center for Public Health Services and Systems Research

PCORI – Project ACHIEVE







National Coordinating Center for Public Health Services and Systems Research

- Funded by Robert Wood Johnson Foundation:
 \$10.5M to UK from 2011-2015
- Intramural research activities
 - Public Health Value: Cost estimation, economic evaluation
 - Delivery System Reform: ACA effects on public health delivery, population health measurement, aligning public health & health care delivery
- Extramural research programs (funded separately ≈ \$30M)
 - Practice-based Research Networks (PBRNs) across U.S.
 - Investigator-initiated research awards
 - Predoctoral/Postdoctoral & career development awards
 - Quick Strike rapid-cycle studies





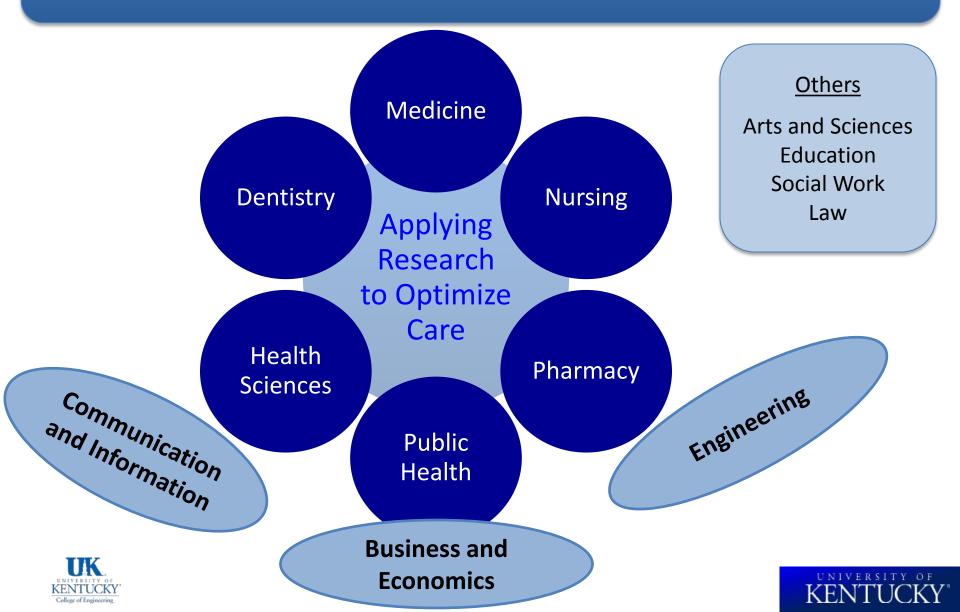
Public Health PBRN Reach

- Networks in 32 U.S. states
- 1,593 local public health agencies engaged
- 35 state agencies engaged
- 52 universities engaged
- 58 professional and community organizations
- Emerging Canadian network





Connect — Catalyze — Create



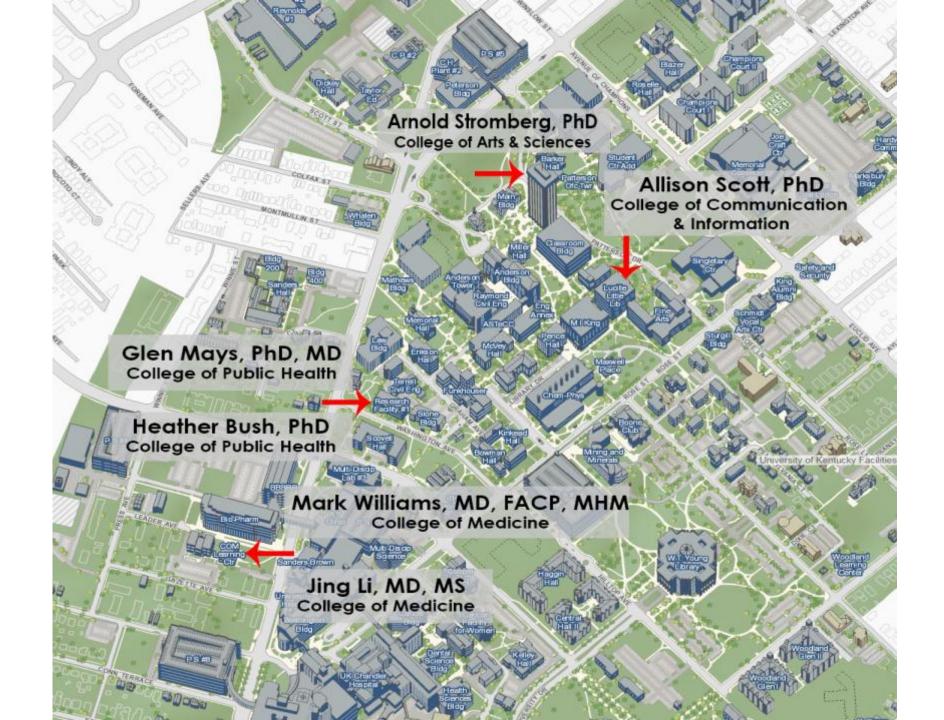


Project ACHIEVEEffectiveness of Transitional Care

Achieving Patient-Centered Care and Optimized Health In Care Transitions by Evaluating the Value of Evidence







ACHIEVE Study Design – 3 year study

Phase 1: Survey Development

Phase 2a: Retrospective Longitudinal

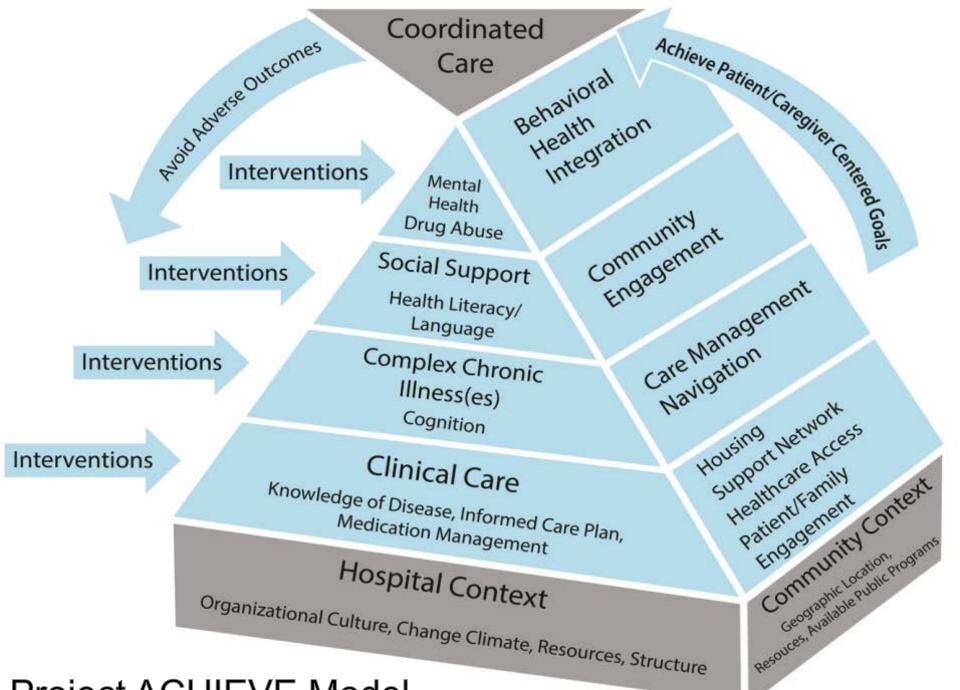
Comparative Analyses

Phase 2b: Prospective Cohort Analysis

Phase 3: Dissemination







Project ACHIEVE Model

Translational Science



Return on investment:

- Educate future leaders
- Improve health of the Commonwealth
- Grow research portfolio







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