

Advancing the Science Through the National Nursing Education Research Network (NNERN)

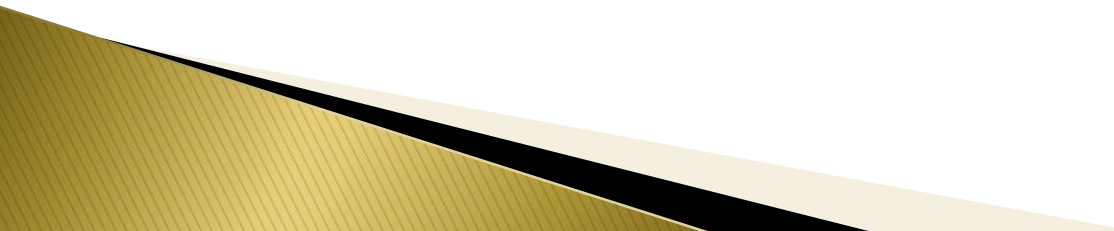
Linda Flynn, PhD, RN, FAAN
Co-Director
Associate Dean & Professor
University of Colorado College of Nursing



College of Nursing

UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS

Content for Today's Session:

- ▶ Challenges Facing Nursing Education: The Critical Need for Evidence
 - ▶ Generating the Evidence and Accessing Your Data: The National Nursing Education Research Network (NNERN)
 - ▶ Interactive Dialogue
- 

NNERN Executive Leadership

- ▶ Pam Ironside, PhD, RN, ANEF, FAAN:
 - Co-Director (Indiana University)
- ▶ Linda Flynn, PhD, RN, FAAN:
 - Co-Director (University of Colorado)
- ▶ Michael Yedidia, PhD, MPH:
 - Rutgers Center for State Health Policy
- ▶ Terry Valiga, EdD, RN, CNE, ANEF, FAAN:
 - Duke University
- ▶ Chris Tanner, PhD, RN, FAAN:
 - Oregon Health Sciences University

Greetings from the University of Colorado College of Nursing!



College of Nursing

UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS



College of Nursing

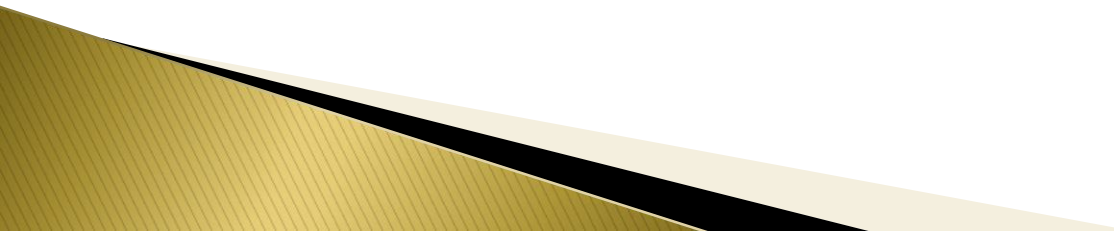
UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS

**NNERN development is funded
by...**

**a planning grant from the
Robert Wood Johnson Foundation
#72566**



NNERN is endorsed by:

- ▶ Sigma Theta Tau International
 - ▶ National Council of State Boards of Nursing (NCSBN)
 - ▶ National League of Nursing (NLN)
- 

Background

IOM: The Future of Nursing (2011)

- ▶ Recommends a transformation of nursing education!
- ▶ More active student learning / competency based education / leadership / non-acute
- ▶ More interprofessional learning and teamwork (IPE) / care coordination
- ▶ More educational technology
- ▶ Seamless academic progression



In addition to pressures to reform...

recommendations include:

- ▶ Increase BSN-prepared nurses to 80% in US
- ▶ Double the number of nurses with a doctorate in US (currently about 1%)



U.S. Affordable Care Act: Impact on Nurse Demand



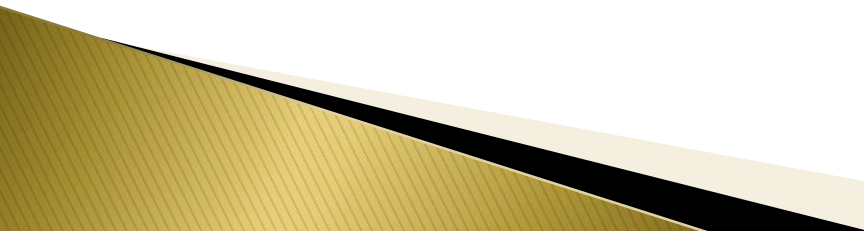
- ▶ Increase in NP demand expected, especially for rural areas.
- ▶ Demand for RNs will increase, particularly in outpatient settings and home health care.
- ▶ RNs increasingly need skills as care coordinators, case managers, patient educators, and chronic care specialists.



INCREASED PRESSURE ON NURSING EDUCATION!!!



Problem

- ▶ Science of Nursing Education is in its infancy!
 - ▶ We have evidenced-based practice, but not evidenced-based nursing education!
 - ▶ Lack of benchmarking opportunities for educational initiatives and outcomes!
- 

Nursing Education: An Underdeveloped Science

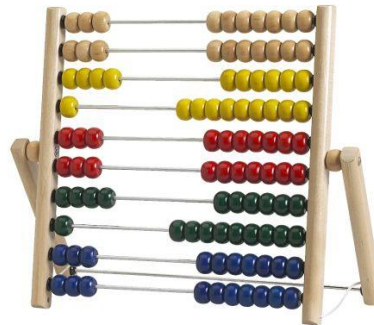
- ▶ Lack of funding for educational research
- ▶ Single-site studies; not generalizable
- ▶ Small sample sizes
- ▶ Inadequate outcome measures
- ▶ Lack of comprehensive analytic techniques



In an age of big data.....



...the Science of Nursing Education
is data poor!



Advantages of Big Data (NIH)

- ▶ Timely / Relevant
- ▶ Volume / Velocity / Variety
- ▶ Accessible / Cost effective
- ▶ Facilitates rigorous analytic modeling
- ▶ Harvest a wealth of information
- ▶ Actionable / Generalizable
- ▶ Big Data to Knowledge (NIH)



How Can Nursing Education Create Big Data to Advance the Science?



The National Nursing Education Research Network!

(NNERN)

www.NNERN.org

What is the Mission of NNERN?

- ▶ To develop a large nursing education data base
- ▶ Use to conduct rigorous nursing education research and advance the science
- ▶ Produce sound evidence
- ▶ Provide benchmarking opportunities
- ▶ Provide longitudinal data that allows schools to trend outcomes over time




Mission


- ▶ Facilitate schools' quality improvement efforts related to curriculum development, initiatives, faculty / student satisfaction....
- ▶ Prepare nursing education scholars and scientists
- ▶ Facilitate networking among nursing education scholars and scientists



What is the Structure of NNERN?

- ▶ Non-Profit / Member Driven
 - ▶ Membership of Schools / Advisory Committee
 - ▶ Financed through tiered membership fees
 - ▶ De-Identified data belongs to the Schools!!
 - ▶ Access to data via an interactive portal
 - ▶ Benchmarking via an interactive portal
 - ▶ Data analysis also conducted by NNERN staff
- 

What will NNERN Do?

- ▶ Dialogue with member schools to identify key educational outcome / research questions
 - ▶ Conduct an annual / web-based survey of faculty and students at each member school
 - ▶ Core Data....annual items for longitudinal analysis
 - ▶ Supplemental Data.... some items for most current “hot” issues / emerging issues
- 

What Else Will NNERN Do?




- ▶ Clean and de-identify the data
- ▶ Ensure each member school has access to their data as well as the entire de-identified data set.
- ▶ Manage the technology and database
- ▶ In collaboration with member schools produce reports, findings, and recommendations.

Potential Research Questions

- ▶ What is the impact of IPE hours on students' Core Competencies ratings on Interprofessional Collaborative Practice (AACN)? How does your school's IPE hours compare to similar schools?
- ▶ Is there are relationship between the percentage of non-acute clinical experiences and student competency ratings and employment patterns?
- ▶ Does an innovative teaching strategy such as flipped classroom improve student learning outcomes?
- ▶ How does your school's faculty satisfaction scores compare to similar schools? What are the key dissatisfaction factors?
- ▶ What are the predictors of faculty dissatisfaction and intent-to-leave their job?

Summary: Benefits of NNERN Membership

- ▶ Advancing the Science of Nursing Education through big data and cost-effective research.
 - ▶ Access to big data for a fraction of the cost of collecting it on your own.
 - ▶ Access to researchers and data analysts
 - ▶ Longitudinal outcome tracking and trending /CQI
 - ▶ Benchmarking availability on large range of structure, process, outcomes (e.g. faculty workloads and satisfaction; IPE student outcomes, use and outcomes of innovative teaching strategies)
- 

More Benefits of NNERN Membership

- ▶ Member schools can prepare future nursing education scientists
- ▶ Most Importantly...
 - Data translated into actionable information!
 - Member schools can implement evidence-based initiatives / strategies to transform nursing education!



Next Steps:

- ▶ Visit www.NNERN.org
- ▶ Talk to your deans about NNERN
- ▶ NNERN will be accepting member schools next year



Interactive Dialogue:

*Feedback and Ideas



*What Are the Key Student / Faculty Outcomes that Should be Tracked and Investigated?

Dialogue



Dialogue



Dialogue



Questions / Comments

linda.flynn@ucdenver.edu



College of Nursing

UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS