The Nursing Workforce in North Carolina: Challenges and Opportunities

Erin Fraher, PhD MPP, Erica Richman, PhD MSW and Katie Gaul, MA

Program on Health Workforce Research & Policy Cecil G. Sheps Center for Health Services Research, UNC-CH

2015 Nursing Development Conference

Wilmington, North Carolina August 28, 2015

This work is supported in part with funding from the North Carolina AHEC Program, the Robert Wood Johnson Foundation and HRSA



Presentation Overview: In words and a picture

We will use North Carolina to frame educational challenges and opportunities regarding:

- · Current nursing workforce
- "Education mobility" nurses — those who entered workforce with ADN and have gone on to BSN or higher
- Future nursing workforce in a transformed system



@ IUNC

Before we launch into the data, some brief introductions....The North Carolina Health Professions Data System (HPDS)

Mission: to provide timely, objective data and analysis to inform health workforce policy in North Carolina and the United States

- Based at Cecil G. Sheps Center for Health Services Research at UNC-CH, but mission is statewide
- A collaboration between the Sheps Center, NC AHEC and the health professions licensing boards
- System is independent of government and health care professionals
- Independence brings rigor and objectivity

1 UNC

North Carolina's health workforce data are the envy of the other 49 states

- 35 years of continuous, complete licensure (not survey) data on 19 health professions from 12 boards
- Data are provided voluntarily by the boards there is no legislation that requires this, there is no appropriation
- Data housed at Sheps but remain property of licensing board, permission sought for each "new" use

System would not exist without data and support of licensure boards

UNC

Now let's dive into the deep end of the data



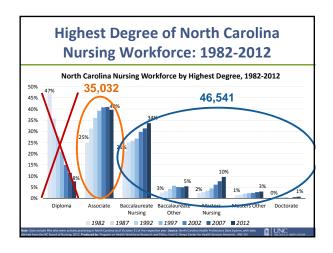
nage from: http://rlasharespace.pbworks.com/w/page/48788069/5612ft%20%20Norman%20Rockwell%20St

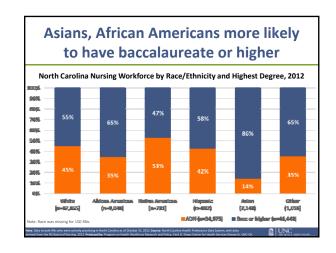
D UNC___

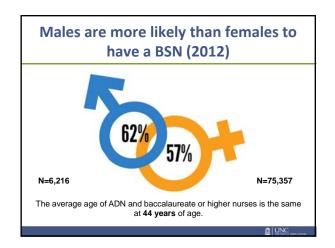
The current workforce in North Carolina: how do ADN nurses differ from nurses with a baccalaureate or higher?

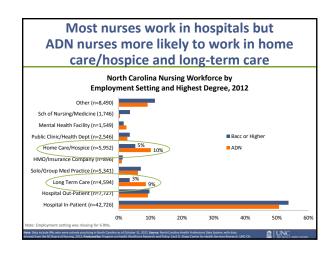


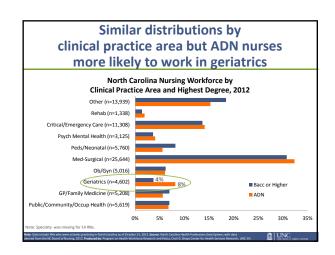


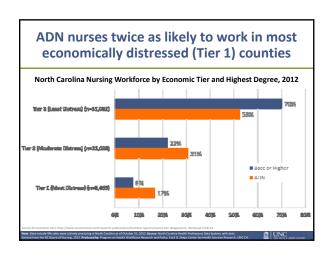


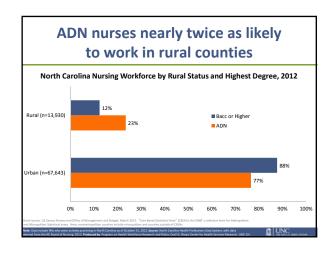


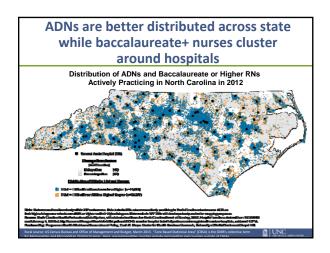




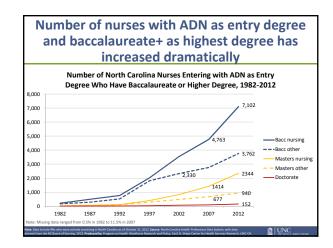








Do nurses who entered the workforce with an ADN and have a baccalaureate or higher degree in nursing behave more like ADNs or baccalaureate+ nurses?



What might our workforce look like if all ADN nurses went on to higher nursing education?

In 2012, 14,300 nurses had ADN for $\underline{\text{entry degree}}$ and baccalaureate or higher as highest degree:

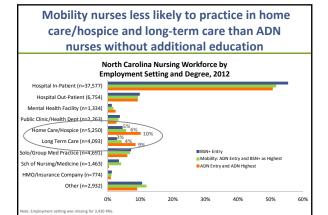
- 9,516 nurses entered with ADN and have baccalaureate or higher in nursing as highest degree—the "education mobility" nurses
- 4,784 nurses entered with ADN and have baccalaureate or higher outside nursing—the "career mobility" nurses

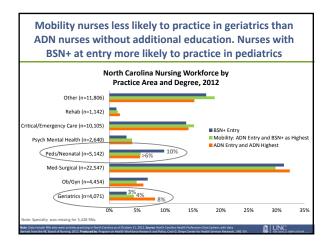
Our analysis compares:

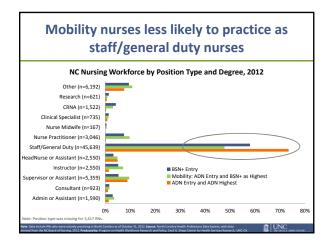


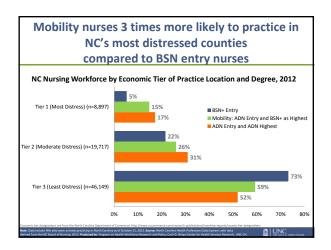


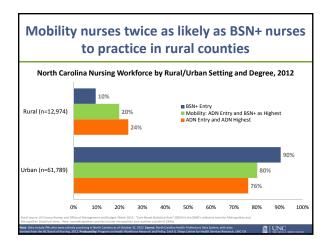












So ... do mobility nurses behave more like ADNs or baccalaureate+ nurses? It depends

After seeking additional education, mobility nurses behave:

More like BSN+ nurses in terms of specialty and setting

Less likely to practice in home care, hospice, long-term care and geriatrics

More like ADN nurses in terms of geographic dispersion. Compared to BSN entry nurses:

- > Twice as likely to practice in rural
- ➤ Three times more likely to practice in NC's Tier 1 counties

Like neither group in terms of job title

Less likely to be in staff/general duty positions

D UNC

Implications for education

- Need more rotations outside of hospital—in home health, long-term care, hospice, public health and other community-based settings
- Continue to diffuse BSN+ education out to ADNs in rural and underserved areas
- There are over 8,000 ADNs practicing in rural counties who have not pursued additional education in nursing
- But it's not just a numbers game....we need to think about new roles for nurses

0 UNC

The future nursing workforce: New roles in a transformed health system

UNC

Let 1,000 flowers bloom: ongoing experiments in health system transformation

- Growing number of patient centered medical homes, accountable care organizations and integrated delivery systems
- CMS actively funding demonstration projects
- Secretary Burwell recently announced 50% of Medicare payments tied to value by 2018



1 UNC

New models of care: key characteristics

Goal: provide patients with more comprehensive, accessible, coordinated and high quality care at lower costs

- Payment based on value, not volume (accountability)
- Emphasis on primary, preventive and "upstream" care
- Care is coordinated between:
 - medical sub-specialties, home health agencies and nursing homes
 - health care system and community-based social services (social determinants of health)
- EHRs used to monitor patient & population health—increased use of data for risk-stratification and hot spotting
- Interventions focused on both patient- and population-level

□ UNC
 □

Nursing in a Transformed Health Care System: New Roles, New Rules

"What will it take to optimize the contributions of nurses in these changing systems?

- Redesign the nursing curriculum to impart new competencies;
- Retrain existing nurses to impart new skills and knowledge;
- Revamp licensing examination and requirements to reflect the new curriculum; and
- Restructure the state regulatory system to allow flexible deployment of the nurse workforce."

-Quoted from Janet Weiner, MPH. Penn LDI Voices Blog. "Re: Nurses".

Service Control of Paragraphic Control of Par

http://ldi.upenn.edu/uploads/media_items/inqri-ldi-brief-nursing.original.pdf

How do nurses fit in new models of care?

- PCMHs and ACOs emphasize care coordination, population health management, patient education, health coaching, data analytics, patient engagement, quality improvement, etc.
- Moving more toward ambulatory settings and community care
- New job titles and roles emerging
- "Boundary Spanners"
- Requires application of skills in new ways and development of new skills

urces: Bodenheimer T, Berry-Millett R. Care management of patients with complex health care needs. Princeton, NJ: Robert Wood Johnson III UNC

New and evolving role areas

- Population health
- Complex older adults and family caregivers
- Care coordination and transitional care
- Use of data, evidence and other performance improvement skills
- Interprofessional collaboration



iource: Fraher E, Spetz J, Naylor M. Nursing in a Transformed Health Care System: New Roles, New Rules. LDI/INQRI Research Brief. June 2015. LUNC

But how do we redesign structures to support these roles? → Education

- Must redesign education system so nurses can flexibly gain new skills and competencies
- Retrain and upgrade skills of the 2.9 million nurses already in the system – they are the ones who will transform care
- Training must be convenient timing, location, & financial incentives
- · Need to prepare faculty to teach new roles and functions
- Clinical rotations need to include "purposeful exposure" to high-performing teams and ambulatory settings

rce: Fraher E, Spetz J, Naylor M. Numing in a Transformed Health Care System: New Roles, New Rules, LEU/INQRI Research Brief. June 2015; Ladden et al. The Emerging Primary

But how do we redesign structures to support these roles? → Regulation

To create a more dynamic regulatory system, we need:

- To develop evidence to support regulatory changes, especially for new roles
- Better evaluation of pilot workforce interventions to understand if interventions improve health, lower costs and enhance satisfaction
- To establish a national clearinghouse to provide up-to-date and reliable information about scope of practice changes in other states
- Remove regulatory barriers to let nurses utilize skills to max benefit of patients

urce: Dower C, Moore J, Langelier M. It is time to restructure health professions scope-of-practice regulations to remove barriers to care. Health Aff (Millwood

n LUNC

But how do we redesign structures to support these roles? → Policy

- Insurance reimbursement rules
 Current system creates inefficiencies and hinders nurses from delivering optimal services;
- Regulation of entry-level nursing education
 Modify state licensure board rules governing pre-licensure programs to ensure grads have new skills and
 competencies needed; adjust clinical training requirements to include more ambidatory experiences
- NCLEX

Curricula designed to ensure graduates can pass NCLEX; If NCLEX changes to reflect new roles, curricula will change to keep up

Federal and state funding agencies

ource: Fraher E. Soetz J. Navjor M. Nursine in a Transformed Health Care System; New Roles, New Rules, LDI/INQRI Research Brief, Jun



Who is going to pay for all this retooling we need to do?

- Adequate and sustainable payment models to retool and redeploy the workforce are lacking
- Many workforce innovations are supported by one-time funds. If payment models don't change rapidly enough, will these interventions be sustainable?
- 1,000 flowers are blooming but are adequate dollars available to conduct research and evaluations necessary to develop evidence base needed to support workforce redesign?

1 UNC

Why the nursing workforce is critical to health system transformation

- With nearly 3 million nurses in active practice, nursing is by far largest licensed health profession (about four times as many nurses as physicians)
- Nursing care linked to quality and satisfaction measures that will increasingly be tied to value-based payments
- Nurses provide whole-person care across health and community-based settings
- Nurses are the ultimate "flexible" workforce taking on new roles in transformed health system

1 UNC

Contact info

Erin Fraher

erin_fraher@unc.edu (919) 966-5012 Erica Richman

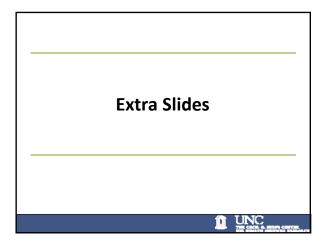
elr@email.unc.edu (919) 966-7737 **Katie Gaul**

k_gaul@unc.edu (919) 966-6529

Program on Health Workforce Research and Policy http://www.healthworkforce.unc.edu



[] UNC



Boundary spanning roles growing quickly

- Increasing number of staff focused on roles that shift focus from visit-based to population-based strategies
- Two examples:

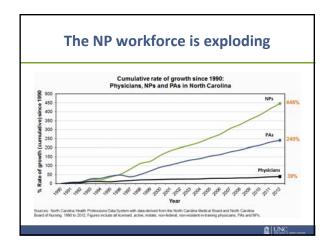
Panel Managers

Assume responsibility for patients between visits. Use EHRs and patient registries to identify and contact patients with unmet care needs. Often medical assistants but can be nurses or other staff

Health Coaches

Improve patient knowledge about disease or medication and promote healthy behaviors. May be medical assistants, nurses, health educators, social workers, community health workers, pharmacists or other staff

DILING



But wait - what about APRNs?

- Notion of "clinical greenness" new advanced care practitioner graduates lack confidence
- Solution? Post-graduate fellowship with structured didactic, clinical and precepting components
 - Community Health Center, Inc. http://www.npresidency.com/
 - Carolinas Healthcare System Center for Advanced Practice http://www.carolinashealthcare.org/center-for-advanced-practice
 - Western North Carolina Community Health Services http://www.safetynetresidency.org/

D UNC

