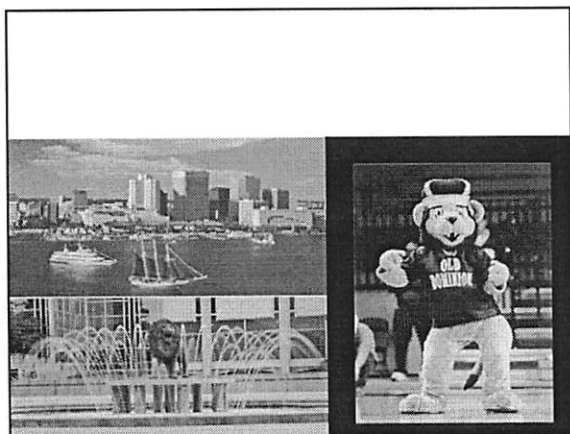


DOCTOR OF NURSING
PRACTICE PROGRAMS

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**Preparing CNS Students to Address
Population Health Disparities
through Technology:
An Innovative Educational Approach**

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NACNS Conference 2018



HRSA

"These projects are/were supported in part by funds from the Division of Nursing (DN), Bureaus of Health Professions (BHPr), Health Resources and Services Administration (HRSA), and Department of Health and Human Services (DHHS) under grant number D09HP09076, "Educating Nurse Practitioners to Practice Interprofessionally" for \$1,046,157 and grant number D09HP25030, "Training DNP Providers to Address Disparities with Technology," \$793,845. The information or content and conclusions are those of the author and should not be construed as the official position or policy of, nor should any endorsements be inferred by the Division of Nursing, BHPr, HRSA, DHHS or the U.S. Government"



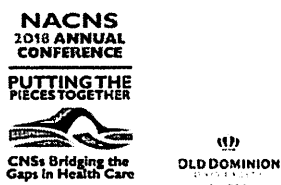
Objectives

- Provide specific strategies for developing a program that prepares CNS students in the use of telehealth technologies.
- Participants will be able to identify how a one-day technology focused course prepares CNS students to use technology to address population health.



CNS Role In Population Health

- Reduce costs
- Improve care
- Assist in safe and effective patient transfers
- Work in both acute care and community based settings
- “Bridge gaps”
- “Put pieces together”



Telehealth as a Modality

- The use of telehealth technology presents new opportunities for addressing these challenges.
- It is essential that CNSs be prepared in their application.
- Advanced knowledge and skills are required and can best be provided by educational programs through dedicated didactic and experiential telehealth opportunities.



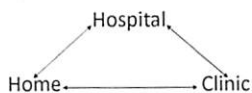
Make "Soup"

- Full curriculums are challenged to add:
 - Interprofessional Teams
 - Population health
 - Social Determinants of Health
 - Telehealth technologies
- Make "soup" with the content:
 - Incorporate all content into one experiential activity



One-Day Experiential Program

- Complicated standardized patient navigated within:



Supported with technologies



Standardized Patient

- Tabitha - 16 year old with osteogenic sarcoma
- Patient is a good student
- Family are migrant workers
- Hispanic family, English is a second language
- Live in trailer on Eastern Shore of Virginia
- Family owns one older unreliable truck
- Multiple trips to medical center (\$25 toll)
- Medicaid insurance



One-Day Experiential Program

Station A: Share General History
Your patient, Tabitha, has been admitted for a course of treatment and currently has an ANC of 100. Since she is immunosuppressed, you'll need to monitor her closely.


Station B: Tabitha's Home
Tabitha has been discharged to home. Work with the home health prior to review Tabitha's clinical data using the homehealth system.

Station C: Public Health Dept
Tabitha has a follow up appointment with her GI/ID Oncologist via Telehealth. Help Tabitha use the Clear tablet equipment.

Station D: Medical Apps
Consider needs of transportation app for her ESL bilingual parents and an app for providers to communicate with Tabitha and manage her illness.

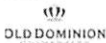
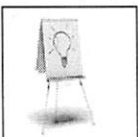
ODU DNP Weekend Telehealth Program
May 19, 2017

Time	Round 1	Round 2	Round 3	Round 4
10:45-11:30	Station A	Station B	Station C	Station D
11:45-12:30	Station B	Station C	Station D	Station A
1:15-2:00	Station C	Station D	Station A	Station B
2:15-3:00	Station D	Station A	Station B	Station C




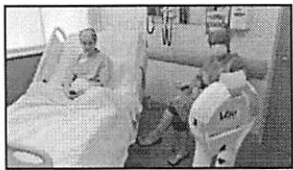
Student's Directions

- During each visit, students consider:
 - Telehealth regulations
 - Telehealth reimbursement
 - Equipment use in this case and their employment
 - Executive students
 - Advanced Practice students
- List 3 Benefits and 3 Barriers



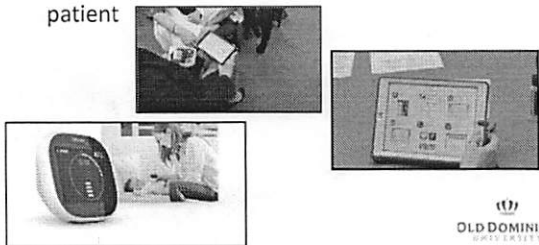
Hospital Technology

- Vigo Robot
- Synchronously visit patient in isolation



Homebased Monitoring

- Homebased monitoring equipment
- Synchronously and Asynchronously monitored patient



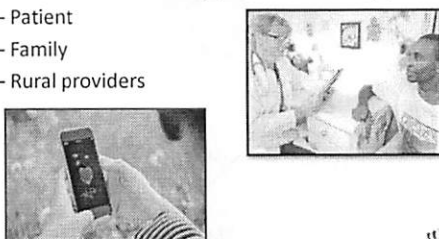
Video Conferencing

- Cisco Jabber
- Synchronously connected remote provider to oncologist at the medical center




Mobile Application

- Reviewed m-Health applications to support:
 - Patient
 - Family
 - Rural providers




Student Satisfaction


N=35	Poor=1	2	Helpful=3	4	Excellent=5
Realism of SPs		3%	9%	20%	68%
Telehealth				23%	67%
Etiquette					
VGo			6%	37%	57%
Home Telemonitoring			6%	34%	60%
Smartphone devices			6%	17%	77%
Mobile apps		3%	6%	31%	60%
How would you rate experience			6%	23%	71%



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- ### Qualitative Feedback
- “Be mindful of including family into plan of care and how technology can help with this”
 - “I learned more about Social Determinants of Health in this one day than in entire courses”
 - “Telehealth is not expensive now and is easy to use”
 - “Learning about telehealth regulations and technologies available will help with my practice.”
 - “I am leaving with a new perspective”
- 

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- ### Implications
- Graduates in acute care settings are aware of technologies used for:
 - transition of care
 - population care management
 - Graduates have chosen outpatient/population based care settings
 - Technology champions
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Questions




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