Integration of a Novel Telehealth Program using Public Health Competencies in an Undergraduate Nursing Curriculum

Dr. Jacquelyn Svoboda Morgan Cangelosi Dr. Kristen Starnes-Ott

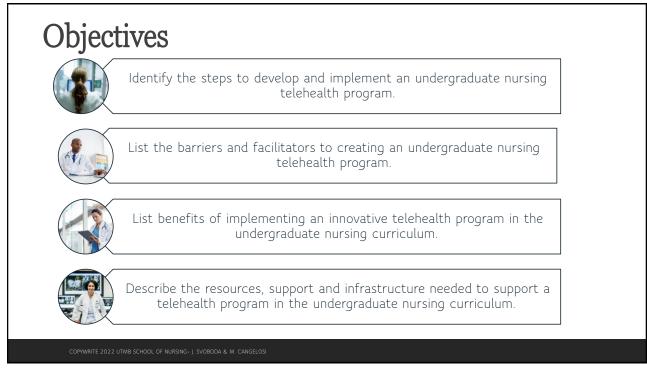
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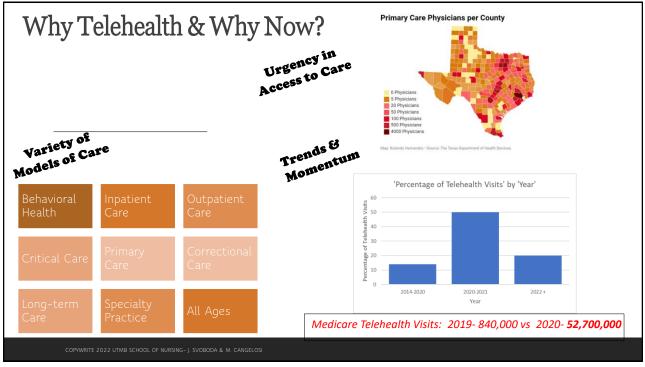




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	Authors:
	Autiors.
Jacquelyn Svoboda DNP, APRN, WHNP-C	
 University of Texas Medical Brail 	nch at Galveston (UTMB) School of Nursing
Morgan Cangelosi, MSN, FNP-C, CCRN-K	
 University of Texas Medical Branch a 	t Galveston (UTMB) School of Nursing
Kristen Starnes-Ott, PhD, CRNA, FNAP	
 University of Texas Medical Branch a 	t Galveston (UTMB) School of Nursing
	Conflict of Interest
• No conflict of interest	
	Disclosures
	ne Texas Higher Education Coordinating Board Nursing NIGP)- Dr. Kristen Starnes Ott, PI; Dr. Jacquelyn Svoboda, Co-PI; Morgan Cangelosi,
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Challenges in Telehealth Usage

Rural sites lacking connectivity options Lack of telehealth healthcare provider training Lack of telehealth patient education

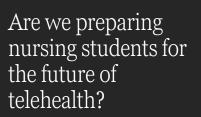
Hesitancy to recognize telehealth as equal care

Lack of telehealth equipment resources

Regulatory issues

Infrastructure-reimbursement, credentialling

Cost to set up telehealth program





Download a free copy of The Future of Nursing 2020–2030: Charting a Path to Achieve Health Equity Academic settings have been slower to integrate telehealth programs

Research on telehealth education is limited

Nursing education is needed to prepare students for current trends in healthcare

Telehealth has not historically been a competency for nursing curriculum but is now in the New Essentials

Why it matters in academics: The use of technologies such as telehealth will be essential to addressing health equity gaps present in the US (*The Future of Nursing 2020–2030: Charting a Path to Achieve Health Equity*)

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Background for THECB NIGP Grant-2020-2022

Challenges faced through COVID for clinical placement opportunities and need for alternative options

Grant focus- supporting clinical learning through barriers presented during COVID-19

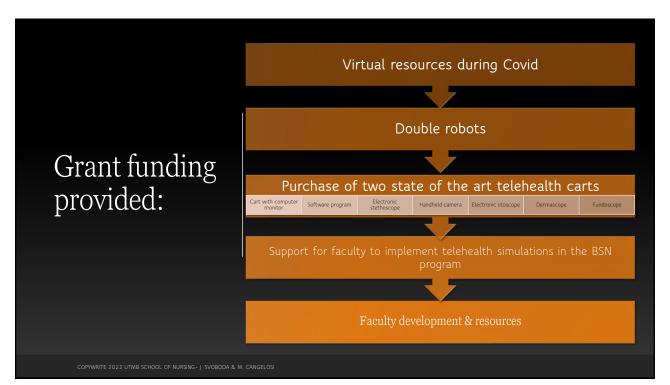
Enhance curriculum and program through telehealth and other virtual resources.

Utilize standardized patients to strengthen virtual clinical learning experiences while emphasizing importance of population health competencies

Address access to health needs of underserved population through improved undergraduate training

Professional development for faculty

Prepare BSN students for the complex health system they will be entering



Equipment: Double Robots

PROS

On wheels

More autonomy for driver

Allows for face-to-face communication with patients and families

Easy for driver to use

CONS

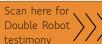
Higher level of tech

More involvement for user orientation

No extensions (limits view)

No arms/hands

Battery life is about 4 hours





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9

Equipment: **Telehealth Cart**

PROS

- •Extensions can be used for the most comprehensive physical exam in telehealth
- Multiple extensions

CONS

- Expensive
- Likely requires tech support
- Hardwired
- Limited mobility from one room to another



Resources already in place

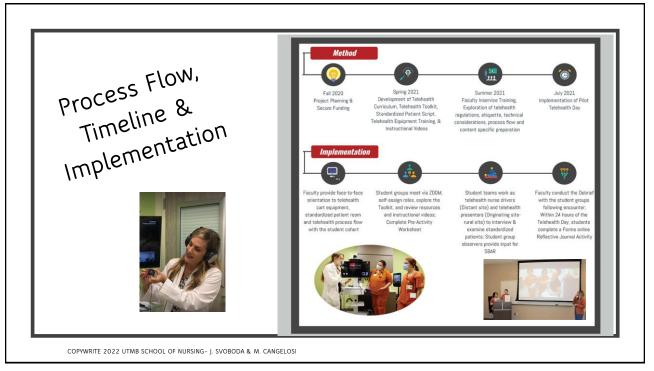
Health Education Center with resources for standardized patients

Telehealth support through telehealth patient program



11





Telehealth Day Implementation-Individual Courses

>3 weeks prior:

Provide recorded orientation videos (open telehealth folder in course BB)

students meet

Student groups plan asynchronous meeting to complete prep

Chose role assignments Complete pre-activity

work in the Toolkit Complete

Telehealth Pre Survey

Day of encounter:

Telehealth presentersoriginating site with SP Telehealth drivers -

distant site directing visit Observers- provide

information for SBAR Debrief with telehealth

presenters, drivers, observers and faculty

1 Day after encounter:

Complete reflective journal activity Complete Telehealth Post Survey

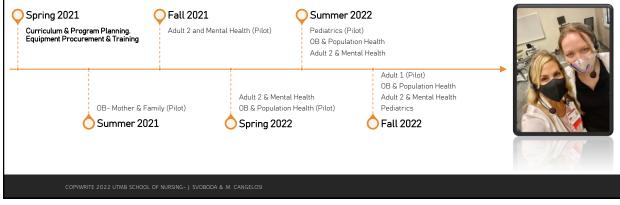
Telehealth Day!		
Faculty & SP Preparations	5 min prior to encounter - Faculty and SP - connect on any issues; student group signs in	5 min
Student Preparations & Review Door Sign	Encounter starts	5 min
Encounter Begins	Interview	15 min
PE	Physical Exam	10 min
Post-Enc 1 Post-Enc 1	Student Prep Oral Present & Debrief	5 min 25 min

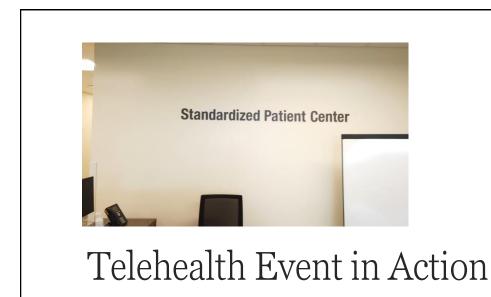
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Telehealth Planning & Implementation Timeline in BSN Clinical Courses

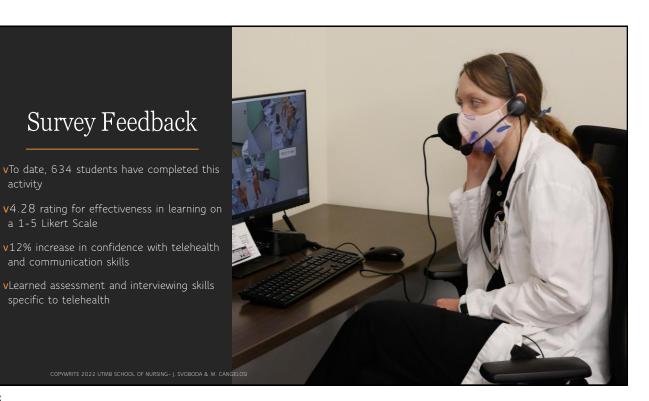
Telehealth Program Implementation for BSN Clinical Courses:

vSimulated clinical and standardized patient telehealth encounters for individual and group assessments:





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Student Survey	"As a kinesthetic learner, I enjoyed this activity. I also liked using these forms for pre- activity and post-activity worksheets. Also, I appreciate the time and energy the OB team, telehealth grant team, and standardized patient put in. Your work to offer this opportunity means a lot."
Feedback	"I loved this activity. I was only an observer, but I never felt as though I was not involved. I gathered necessary data for my team and was able to test my ability to provide a detailed and relevant SBAR report to faculty, something we rarely can practice in lab or clinical settings. I thought it was an excellent learning opportunity, specifically for learning how to properly obtain patient data and conduct detailed/thorough interviews!"
Overa Telehe	telehealth experience Telehealth simulation ace was great equipment patient helpful OB team Telehealth day telehealth feel lot of fun time great experience students Thank you for this experience ealth Grant learning experience think we did great

19



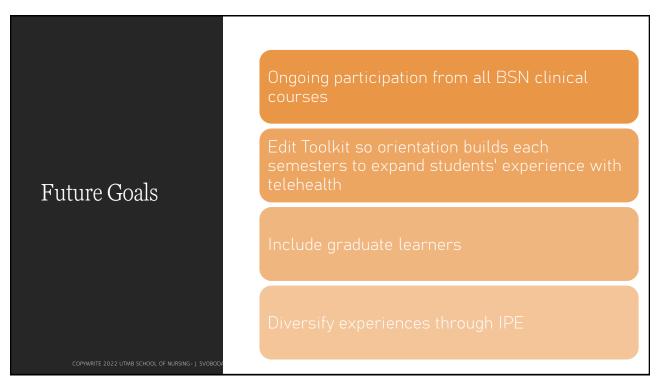
Challenges we have faced & Lessons Learned

Scheduling

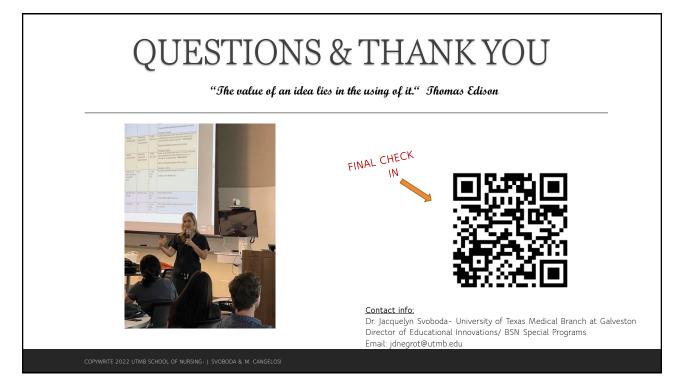
- Large cohorts (94-140 students)
- In-demand space used by multiple programs
- $\circ\,$ Need time to develop cases and for standardized patients to prepare

Requires:

- Comprehensive planning, collaboration, and ongoing evaluation.
- Faculty development and training prior to engaging with students







23

References

American Board of Telehealth (2022, January 19). [Certification notes on CORE Concepts of Telehealth Certificate Program]. Introduction to Telehealth. <u>Introduction to Telehealth (scorm.com)</u>

Gibson, N. A., Arends, R., & Hendrickx, L. (2021). Tele-U to Tele-ICU: Telehealth nursing education. *Critical Care Nurse*, *41*(5), 34-39.

Rheuban, K. S., & Krupinski, E. A. (2018). Understating telehealth (1st ed.). McGraw Hill Education: Lange.

US Department of Health and Human Services. (2021). *New HHS study shows 63-fold increase in medicare telehealth utilization during the pandemic*. <u>New HHS Study Shows 63-Fold Increase in Medicare Telehealth</u> <u>Utilization During the Pandemic | HHS.gov</u>