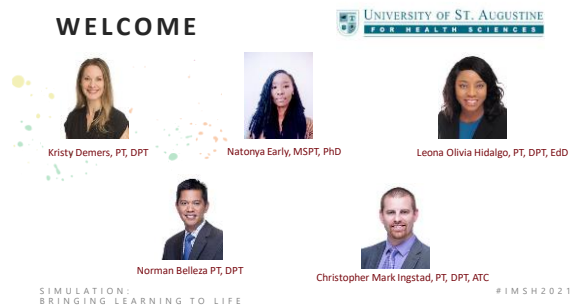
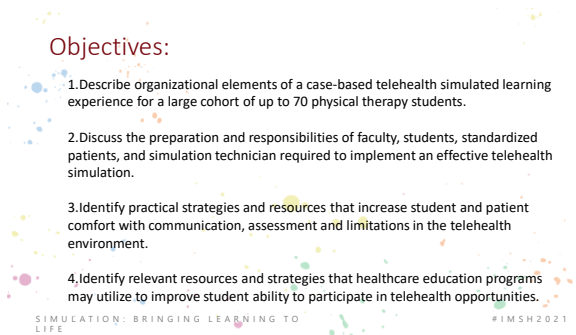




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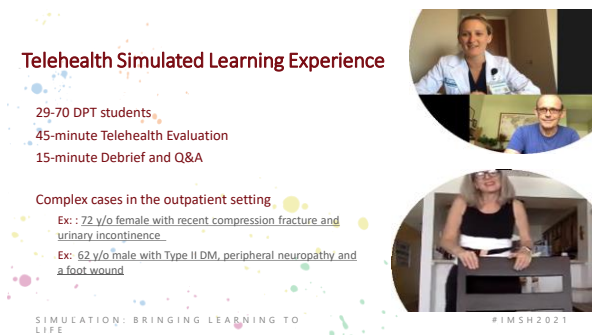
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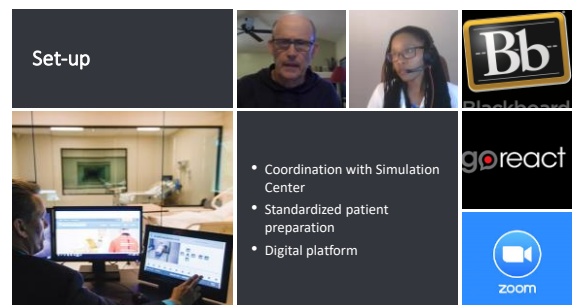
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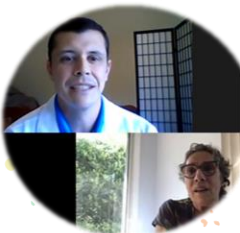
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Telehealth Simulation Flow / Outline

- Prior to Simulation:**
 - Pre-brief on all potential patient cases
 - Lecture and online material relevant pathophysiology
 - Students were notified of exact case 48 hours in advance and provided with patient intake forms.
- Telehealth Simulation**
 - 10-15 min Subjective Exam
 - 10-15 min Objective Exam/virtual T&M
 - 10-15 min Treatment, Patient Education and POC discussion
- After Simulation**
 - 10-15 min debrief and Q&A with grader
 - All students were provided with video of simulation and completed a guided written self-reflection



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Assessment of Simulation

What was used?

- Simulated Grading Rubric
- Self-Reflection

Category and Criteria	Beginner (0-1.5 points per category) 0-20%	Advanced Beginner (1.5-3.0 points per category) 20-39%	Intermediate (3.0-4.5 points per category) 40-59%	Advanced Intermediate (4.5-5.0 points per category) 60-100%
Safety	1. Performs safe nursing assessment 2. Recognizes and reports to patient's response 3. Performs patient safety measures 4. Uses safe handling techniques (body mechanics, lifting, moving of equipment)	1. Adverse Event 2. Adverse Event 3. Adverse Event	1. Adverse Event 2. Adverse Event 3. Adverse Event	1. Adverse Event 2. Adverse Event 3. Adverse Event
Faculty Comments:				
Professional Behavior	1. Demonstrates initiative 2. Is self-reflective 3. Demonstrates empathy 4. Demonstrates integrity 5. Demonstrates positive attitude, relationship with patient and caregiver 6. Demonstrates respect for patient autonomy	1. Adverse Event 2. Adverse Event 3. Adverse Event	1. Adverse Event 2. Adverse Event 3. Adverse Event	1. Adverse Event 2. Adverse Event 3. Adverse Event

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Performance Category	Beginner (0-1.5 points per category) 0-20%	Advanced Beginner (1.5-3.0 points per category) 20-39%	Intermediate (3.0-4.5 points per category) 40-59%	Advanced Intermediate (4.5-5.0 points per category) 60-100%
Safety	1. Performs safe nursing assessment 2. Recognizes and reports to patient's response 3. Performs patient safety measures 4. Uses safe handling techniques (body mechanics, lifting, moving of equipment)	1. Adverse Event 2. Adverse Event 3. Adverse Event	1. Adverse Event 2. Adverse Event 3. Adverse Event	1. Adverse Event 2. Adverse Event 3. Adverse Event
Professional Behavior	1. Demonstrates initiative 2. Is self-reflective 3. Demonstrates empathy 4. Demonstrates integrity 5. Demonstrates positive attitude, relationship with patient and caregiver 6. Demonstrates respect for patient autonomy	1. Adverse Event 2. Adverse Event 3. Adverse Event	1. Adverse Event 2. Adverse Event 3. Adverse Event	1. Adverse Event 2. Adverse Event 3. Adverse Event
Communication	1. Demonstrates effective verbal and nonverbal communication 2. Establishes rapport and rapport with patient 3. Establishes rapport and rapport with patient 4. Establishes rapport and rapport with patient 5. Establishes rapport and rapport with patient 6. Establishes rapport and rapport with patient	1. Adverse Event 2. Adverse Event 3. Adverse Event	1. Adverse Event 2. Adverse Event 3. Adverse Event	1. Adverse Event 2. Adverse Event 3. Adverse Event
Clinical Reasoning	1. Demonstrates effective verbal and nonverbal communication 2. Establishes rapport and rapport with patient 3. Establishes rapport and rapport with patient 4. Establishes rapport and rapport with patient 5. Establishes rapport and rapport with patient 6. Establishes rapport and rapport with patient	1. Adverse Event 2. Adverse Event 3. Adverse Event	1. Adverse Event 2. Adverse Event 3. Adverse Event	1. Adverse Event 2. Adverse Event 3. Adverse Event
Examination	1. Demonstrates effective verbal and nonverbal communication 2. Establishes rapport and rapport with patient 3. Establishes rapport and rapport with patient 4. Establishes rapport and rapport with patient 5. Establishes rapport and rapport with patient 6. Establishes rapport and rapport with patient	1. Adverse Event 2. Adverse Event 3. Adverse Event	1. Adverse Event 2. Adverse Event 3. Adverse Event	1. Adverse Event 2. Adverse Event 3. Adverse Event
Educational Intervention	1. Demonstrates effective verbal and nonverbal communication 2. Establishes rapport and rapport with patient 3. Establishes rapport and rapport with patient 4. Establishes rapport and rapport with patient 5. Establishes rapport and rapport with patient 6. Establishes rapport and rapport with patient	1. Adverse Event 2. Adverse Event 3. Adverse Event	1. Adverse Event 2. Adverse Event 3. Adverse Event	1. Adverse Event 2. Adverse Event 3. Adverse Event

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Trends: Student Performance

Comparable Factors	Traditional Face-To-Face Simulations	Telehealth Simulations
Simulation Grade Average	95%	95%
Course Learning Objectives (Patients with chronic conditions)	Objective 1: Demonstrate effective professional practice behaviors. Objective 2: Demonstrate effective patient management. Objective 3: Exhibit clinical reasoning to formulate therapeutic management. Objective 4: Demonstrate effective communication and education skills, using empathetic, professional, and culturally competent interpersonal behaviors.	Same Objectives Expected & Successfully Demonstrated
Clinical Experience Preparation	Adequate for traditional settings.	Students better prepared for settings using telehealth.

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Trends: Student Feedback



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Strategies to Improve Student and Patient Performance

STANDARDIZED PATIENT	STUDENT THERAPIST
Preference to use phone/computer/tablet	Patients are unique; education to move beyond medical diagnoses
Practice/Dry Run	Openness to change, focus on function
Face-to-Face vs. Telehealth Options	Practice, practice, practice
More sessions with less time commitment	Professional environment
Supporting research	Verbal/non-verbal communication
	Use of apps and pre-recorded videos
	External cues and demonstrations

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Faculty Strategies For Success/Limitations

Faculty Strategies	Limitations
Plan Ahead	Technology compatibility
Practice student testing method	Patient's home environment
Allow practice time	
Use of university resources	
Telehealth resources	

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Summary

- Simulated Learning Experiences can be virtual!
- Telehealth is here to stay in rehabilitation; we must adapt our education delivery to reflect the current clinical environment



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QUESTIONS?

Thank you for viewing our presentation. Please contact us with any questions.

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Integration of Telehealth Simulated Learning Experiences in Rehabilitation Education

THANK YOU!



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References:

- Guidance for Outpatient and Ambulatory Care Settings. Centers for Disease Control and Prevention. <https://www.cdc.gov/coronavirus/2019-ncov/hcp/ambulatory-care-settings.html>. Published April 7, 2020. Accessed April 8, 2020.
- Aetna Now Covers Telehealth Delivered by PTs. *PT in Motion News*. April 2020.
- UnitedHealthcare Allows Telehealth for Physical Therapy. *PT in Motion News*. March 2020.
- Interim Guidance for Administrators of US Institutions of Higher Education. Centers for Disease Control and Prevention. <https://www.cdc.gov/coronavirus/2019-ncov/community/guidance-ihe-response.html>. Published March 18, 2020. Accessed April 15, 2020.
- Sabus, C. & Macauley, K. (2016). Simulation in physical therapy education and practice: Opportunities and evidence-based instruction to achieve meaningful learning outcomes learning experiences. *Journal of Physical Therapy Education*, 30(1), 3-13.
- Taylor, M. S., Tucker, J., Donehower, C., Pabian, P., Dieker, L. A., Hynes, M. C., & Hughes C. (2017). Impact of virtual simulation on the interprofessional communication skills of physical therapy students: A pilot study. *Journal of Physical Therapy Education*, 31(3), 83-90.

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References:

- Blackford J, McAllister L, Alison J. Simulated learning in the clinical education of novice physiotherapy students. *International Journal of Practice-based Learning in Health and Social Care*, 2015;3, 7-93.
- Physical Therapist Clinical Performance Instrument Web. Alexandria, VA: American Physical Therapy Association. <http://www.apta.org/PTCPI/>. Published 2008. Accessed April, 16, 2020.
- Johnston CL, Wilson JC, Wakely L, et al. Simulation as a component of introductory physiotherapy clinical placements. *NZ J Physiother*, 2018; 46(3): 95-104.
- Hansen J, Bratt M. Competence Acquisition Using Simulated Learning Experiences: A Concept Analysis. *Nursing Education Perspectives (National League for Nursing)*. 2015;36(2):102-107. doi:10.5480/13-1198.

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