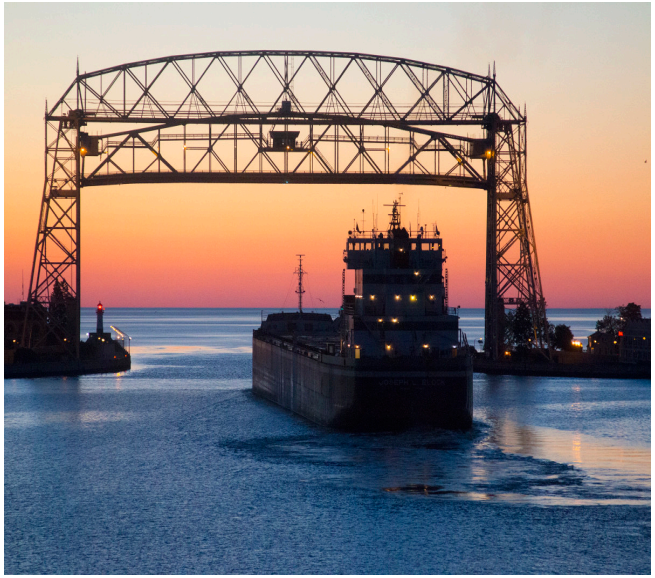


Implementing Telehealth & Remote Patient Monitoring in a Doctor of Nursing Practice Program

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- Maureen Ideker, Sara McCumber, and JoAnn Tingum have no financial disclosures.

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Introduction/Background

- 2019-2023 HRSA ANEW Grant with $750,000 per year with focus on telehealth, integrating behavioral health and opioid treatment, and cultural competence.
- Existing Academic Practice Partnership
- Telehealth had been included in curriculum for several years.

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Outline

-History & Telehealth Basics, Telehealth Learning Module

-Equipment Selection; Video Conferencing Selection, RPM Monitoring

-Sim Center

-ANEW Grant Outcomes

-Successes & Hurdles

-Summary

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Objectives

At the conclusion of the presentation the participant will be able to :

1. Describe the faculty lead, sim center and telehealth consultant roles.
2. Design strategies to implement telehealth & RPM into nursing curriculum.
3. Discuss methods for implementing telehealth & RPM scenarios into curriculum.

History of the CSS journey into the world of telehealth

- Propelled by rural focus of DNP program, scarce provider resources and patient access challenges
- Consultant taught Telehealth Basics for 5 years to DNP students on campuses at Duluth and St. Cloud: included examples of services, stats, use cases, equipment demos.
- Why did specialist NP choose to use Telehealth in their practice? Payer and billing information, legislative activity.
- Then HRSA ANEW Grant receive by CSS, 4 years…Covid hit in Year 2, Qtr.3
- Engaged and educated graduate nursing and Sim Center faculty
- Developed the Telehealth Learning Module for faculty and student use: resources, 3 ring binder, video sessions.

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Telehealth Learning Module Index

Telehealth Web Etiquette

Video Tutorial- Video carts and peripherals demo with

Administrative Pre-work for program development with checklist, and Workflow Process Maps

CSS Workflow Process Maps (8)

Workflow Process Map example- Diabetic Foot Ulcer

CSS Sim Center debriefing video-Db foot Ulcer

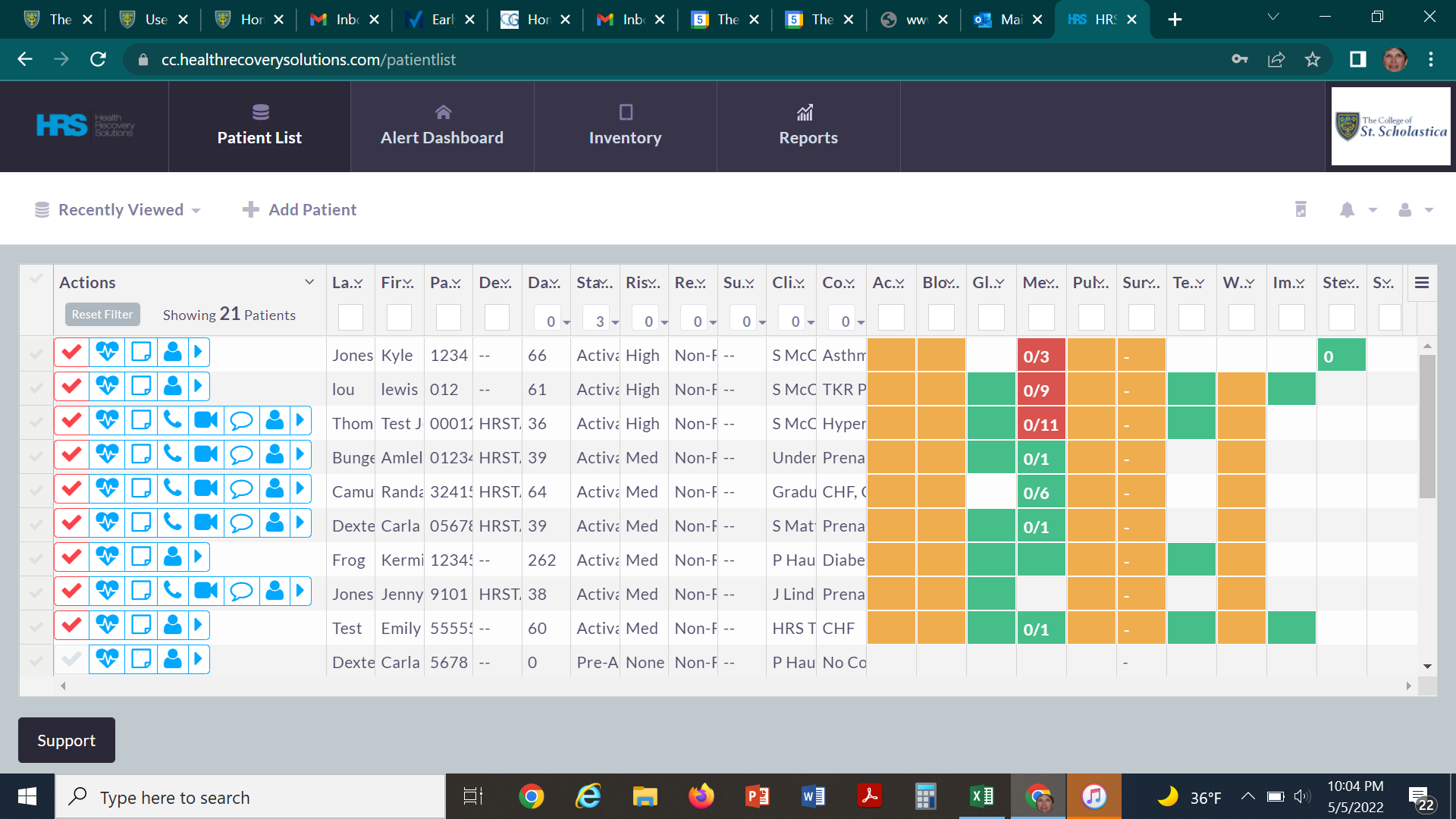
Telehealth Resource and Research references

Sim Center

- Outcome - Successes and barriers (hesitant vendor interfaces, college vs. health facility approaches…partnership with EH helped overcome this)
- Standardizing choices
- Learning operation of equipment, students came into program with more and more telehealth experience
- Time needed but not available for faculty to practice






cc.healthrecoverysolutions.com/patientlist
HRS Health Recovery Solutions
Patient List
Alert Dashboard
Inventory
Reports
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Recently Viewed
Add Patient
Actions
Reset Filter
Showing 21 Patients
La.. Fir.. Pa.. De.. Da.. Sta.. Ris.. Re.. Su.. Cli.. Co.. Ac.. Blo.. Gl.. Me.. Pul.. Sur.. Te.. W.. Im.. Ste.. Sy..
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Thom Test J 00012 HRST. 36 Activa High Non-F -- S McC Hyper 0/11 -
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Dexte Carla 05678 HRST. 39 Activa Med Non-F -- S Mat Prena 0/1 -
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Jones Jenny 9101 HRST. 38 Activa Med Non-F -- J Lind Prena -
Test Emily 55555 -- 60 Activa Med Non-F -- HRS T CHF 0/1 -
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Support
Type here to search
36°F
10:04 PM
5/5/2022

Remote Patient Monitoring Evaluation and selection of vendors

- Barrier: Small Scale of Project
- Essentia Health relationships were key to vendor access and interest
- Technical expertise of experienced telehealth IT consultants necessary for quick learning
- Unique ongoing needs from a vendor relationship: problem solving, understanding an educational setting,
- Collaborating for adjusting due to effects of pandemic on campus closures - shift to a virtual learning environment

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Technology and Equipment

Videoconferencing and Remote Patient Monitoring



Partnership Clinical Partner & Simulation Center

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Technology and Equipment

Remote Patient Monitoring

Product Identification

- Stand alone product
  - Cell-based patient tablet
  - Web-based provider portal
- User friendly
- Monitoring adjuncts
- Consumer support and partnership
- Product utilized in local healthcare agencies



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Technology and Equipment

Remote Patient Monitoring

Product Identification

- 20 units total split across two campuses
  - 4 advanced units with Eko and thermometer
  - 16 standard units



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Technology and Equipment

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Simulation Center

Partnership

- Faculty
- Simulation Specialists
- HRS solutions

- Superuser Training
- Simulation Committee
- Targeted Course and Curriculum needs



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Simulation Center Additional Supports

- Dedicated simulation Graduate Student Assistant to learn technology
- Simulation center staff did the interface with vendors
- Simulation center staff helped with trouble shooting
- Simulation center staff developed Standardized Patient resources

Integrate into curriculum

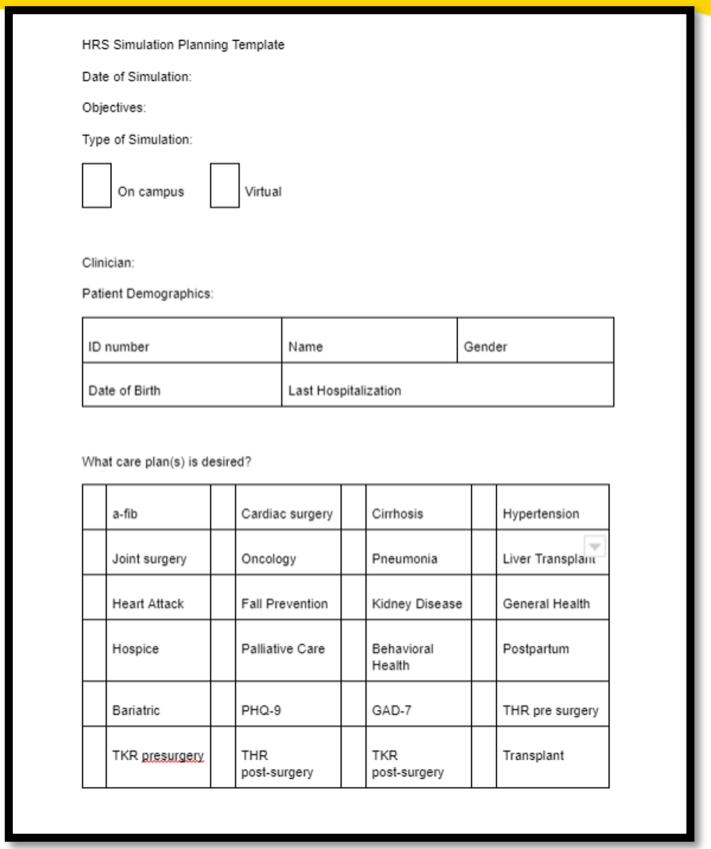
- Determine needs and objectives
- Simulation design Standards of Best Practices
- Patient Discharge with RPM
- Monitoring patient board (one or multiple patients)
- Standardized patient telehealth visit
- Documentation

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Simulation Center

Making it happen

- Template
- Standardized Patient process



HRS Simulation Planning Template

Date of Simulation:

Objectives:

Type of Simulation:

☐ On campus ☐ Virtual

Clinician:

Patient Demographics:

ID number	Name	Gender
Date of Birth	Last Hospitalization	

What care plan(s) is desired?

☐	a-fib	☐	Cardiac surgery	☐	Cirrhosis	☐	Hypertension
☐	Joint surgery	☐	Oncology	☐	Pneumonia	☐	Liver Transplant
☐	Heart Attack	☐	Fall Prevention	☐	Kidney Disease	☐	General Health
☐	Hospice	☐	Palliative Care	☐	Behavioral Health	☐	Postpartum
☐	Bariatric	☐	PHQ-9	☐	GAD-7	☐	THR pre surgery
☐	TKR presurgery	☐	THR post-surgery	☐	TKR post-surgery	☐	Transplant

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Placement in Curriculum

- Started with faculty super user classes, common conditions seen in Telehealth & RPM
  - Diabetic Foot Ulcer
  - Cognitive Assessment
  - Medicare Annual Wellness Visit
  - Falls Monitoring,
- Curriculum overview opportunities & scaffolding

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Curriculum Classes

- Rural Health Course
- Advanced Health Assessment
- Primary Care 1 Management
- Primary Care 2 More Complex Management
- Pediatric Management Courses
- Women's Health
- Geriatric Specialty Course

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Working With Faculty

- Super-user initially implemented into assigned classes
- Super-user identified opportunities and appropriate course objectives
- Super-user developed student and faculty planners
- Super-user lead initial sessions with students

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Types of Cases

- Telehealth Basics, Skin Rash, Cough
- Diabetic Patient Evaluation, Follow-up with RPM
- Domestic Violence Case
- Heart Failure
- Falls Follow-up & Monitoring
- Pediatric Asthma

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Type of Cases

- Complicated Hospital Follow-up COPD, pneumonia, DM, Substance Abuse & Mental Health
- Skilled Nursing Facility-Heart Failure Exacerbation
- Pre-natal Patient with Hypertension
- Post surgical patient visit with infected surgical wound

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RPM Results

- 40% of students participating in this activity had signified minimal to no experience with RPM prior to this experience with an additional 40% of students signifying a moderate exposure to RPM prior to this experience.
- .

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RPM Results

- 92% of students felt the experience increased their confidence and skills to use remote patient monitoring in the future.

- 93 % of students felt RMP can be an effective tool to provide patient care with the remainder of students signifying neither agree/or disagree.

- Students identified numerous opportunities to apply RPM to care of patients experiencing various conditions including mental health, anxiety, depression, diabetes, hypertension, diabetes mellitus, heart failure, COPD, and other chronic conditions.

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Sustainability

- Academic Practice Partnership—

- Doing RPM or telehealth on a limited budget
  - RPM use excel sheets for dashboard & utilize tablets & zoom to replicate RPM technology
- Need for diffusion within faculty group
- Partner with Simulation Center Staff

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Successes and Hurdles

- Faculty developed interest, became proficient, became users and super-users and weaved uses into curriculum. Made it real, no longer a “what if.”
- Faculty depended on super-user to implement & case development
- Importance of Sim Center engagement, student assistants
- Expansion to the undergraduate nursing program

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Successes & Hurdles

- Interest from interdisciplinary programs, PT, OT, Speech and Physician Assistant program
- Hurdle: More limited IT resources as compared to a health care setting expertise and availability. Developed it at CSS for telehealth equipment

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Summary

- Successful project design, consultant experience and CSS super-user faculty maximized the ANEW funded opportunity
- Tip: Can always use additional contracted hours
- Shared experiences and student outcomes through 5 Poster Session exhibits, including North Atlantic TRAC and AACN Honorable Mention and in conference presentations

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Questions