



# Virtual Collaboration

## Using a Telehealth Simulation to Prepare Nurses for Intraprofessional Collaboration

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# Acknowledgements

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# Background



## Virtual Healthcare Settings

- Telehealth Technology
- Access to Care
- Satisfaction
- Positive Outcomes
- Collaboration

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## Purpose

To measure the effect of a school-based clinic telehealth simulation on prelicensure (BSN) and nurse practitioner (NP) students' readiness for intraprofessional collaboration

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# Framework

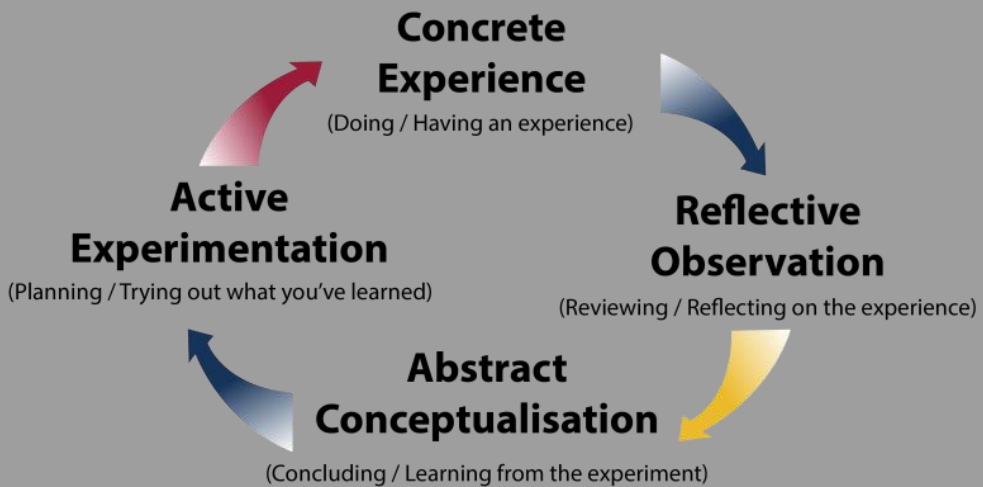
- Kolb's Experiential Learning Theory
- iSOAP for Telehealth Simulation

(Rutledge et al., 2017)

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# Kolb's Experiential Learning Cycle



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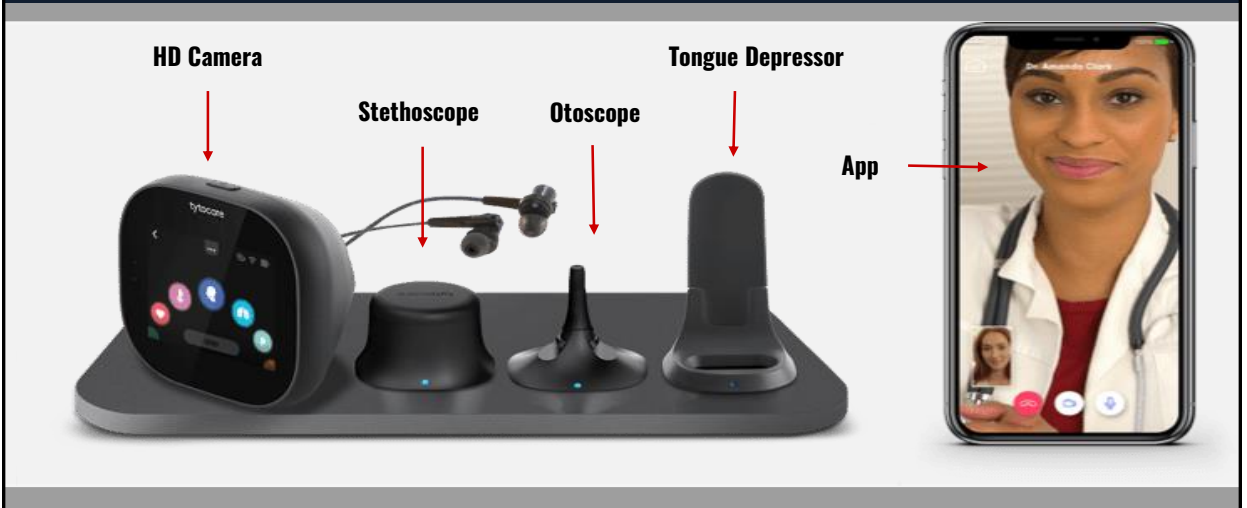
## Experiential Learning



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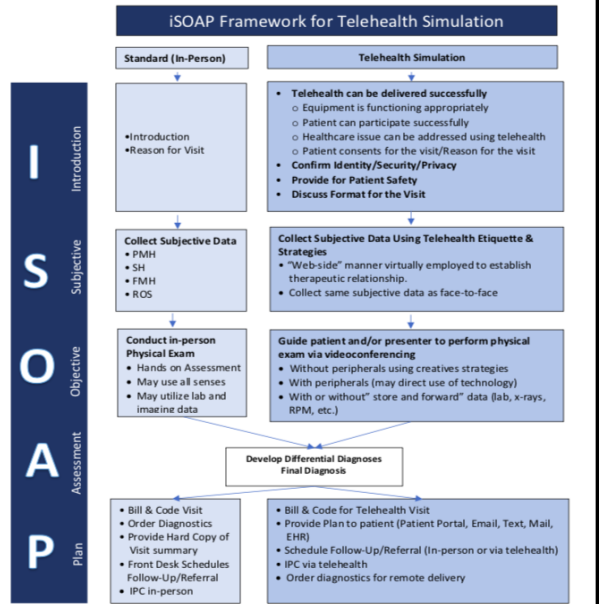
## Telehealth Peripherals



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# iSOAP Framework



# Methods



## Setting

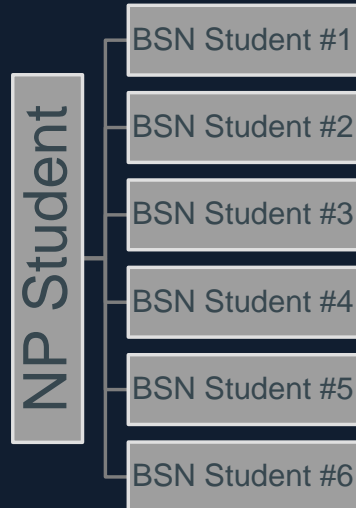
- Simulation Center
- INACSL Standards of Best Practice for Simulation

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## Sample

- On-Campus BSN Students
- Online NP Students



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# Simulation

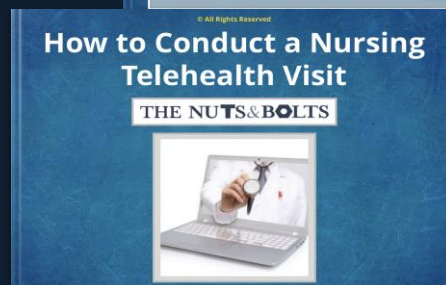
- Prebrief
- Simulated Telehealth Visit
- Debrief

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# Prebrief

- Asynchronous
  - Electronic (ebooks)
  - School-based Clinic Video Overview
  - SBAR Template
- Synchronous



(Rutledge et al., 2017)

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## Simulated Visit - School-Based Health Clinic

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## Debrief

- Faculty-Guided
- BSN Students:  
On-Site
- NP Students:  
iPad Robots



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# Results



## Evaluation Tool

### Readiness for interprofessional Learning Scale (RIPLS) - Teamwork and Collaboration Subscale (TCS)

*Teamwork and Collaboration Subscale of Readiness for Interprofessional Learning Scale (RIPLS)*

Item	Strongly Disagree (1)	Disagree (2)	Neutral (3)	Agree (4)	Strongly Agree (5)
1. Learning with other healthcare students will help me become a more effective member of a healthcare team.					
2. Patients would ultimately benefit if healthcare students worked together to solve patient problems.					
3. Shared learning with other healthcare students will increase my ability to understand clinical problems.					
4. Learning with healthcare students before graduation would improve relationships after graduation.					
5. Communication skills should be learned with other healthcare students.					
6. Shared learning will help me to think positively about other healthcare professionals.					
7. For small group learning to work, students need to trust and respect each other.					
8. Team-working skills are essential for all healthcare students to learn.					
9. Shared learning will help me to understand my own limitations.					

*Note.* Adapted from Readiness for Interprofessional Learning Scale (McFadyen et al., 2005)



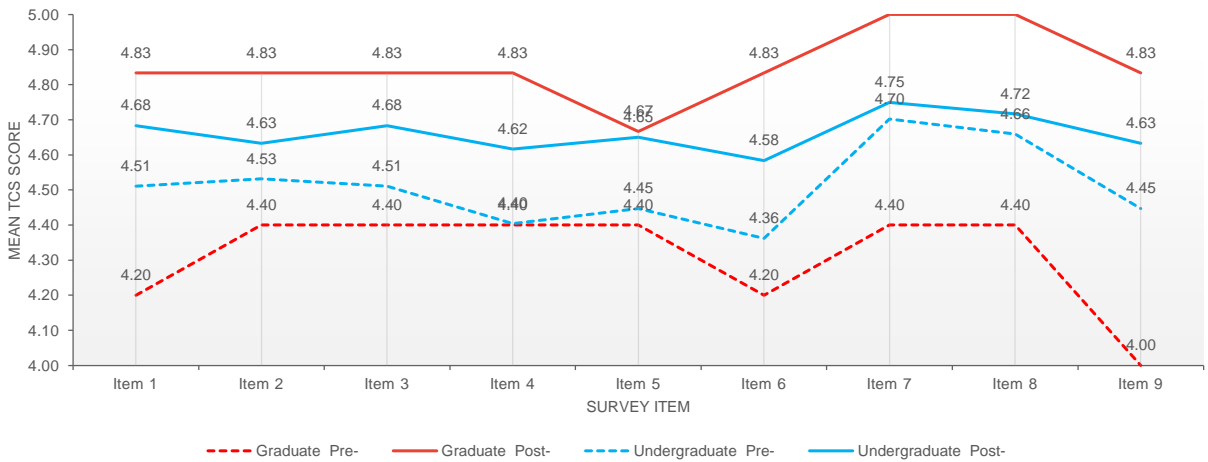
# Respondents

- Pre - Simulation
  - 71% of BSN Students
  - 63% of NP Students
- Post - Simulation
  - 100% of BSN and NP Students



# Quantitative Results

Mean TCS Scores Pre- and Post-Intraprofessional Telehealth Simulation for Undergraduate and Graduate Nursing Students





# Qualitative Results

Intraprofessional Collaboration Themes	Student Responses
Roles & Responsibilities	"It was clear how our roles differ in the clinical setting."
Professional Communication	"The NP student's ability to communicate clearly and with confidence eased my nerves and we were able to engage fully with one another and the patient very well."
Teamwork	"I enjoyed being able to practice working on a healthcare team."
Values/Ethics	"Collaboration is key when caring for our patients and producing optimal outcomes."

Additional Themes	Student Responses
Role Complementarity	"The RNs had their clear role of collecting information and the NP did a great job of taking that information and deciding what tests she wanted and how best to treat the patient. Worked very well together."
Patient Benefit	"It gave the patient the ability to be seen by two healthcare providers at once without having to travel or coordinate a collaborative visit."
Reflexivity	"She filled in knowledge that I forgot."



## Discussion

Results provide preliminary support for using telehealth clinical simulations to develop nursing students' intraprofessional virtual collaboration skills

## Conclusions

Intraprofessional telehealth simulation can:

- Meet nursing program curricular goals
- Introduce pre-licensure students to the NP role
- Engage online students in simulation



# References

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