

CAMBRIAN COLLEGE

College, Sudbury, Ontario, Canada









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Key Takeaways

- ✓ Networking and collaboration improve innovation
- √ Virtual/video simulation development by faculty is feasible
- ✓ Ongoing evaluation of student learning is needed



Breaking Down Silos: Collaboration and Innovation in Simulation

• 2005-2012: Simulation in Silos

• 2013: Ontario MTCU Grant

• 2014: Ontario Simulation Alliance (OSA)

• 2016: eCampus Ontario Grant

 2017 Canadian Alliance of Nurse Educators using Simulation (CAN-Sim)

www.can-sim.ca



Canadian Alliance of Nurse Educators Using Simulation



The Opportunity LEARNING 2



Challenges included:

- Finding a suitable family;
- Arranging visits;
- Poor consistency;
- Coordinating schedules;
- Limited student skills;
- High stakes





CAN-Sim VSG Design Process

- Learning outcomes and competency indicators
- Decision-point map with rationale
- Filming script
- Peer review
- Filming
- Game assembly

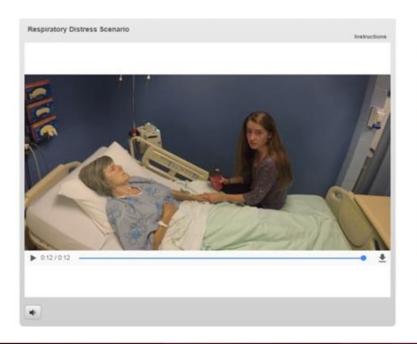


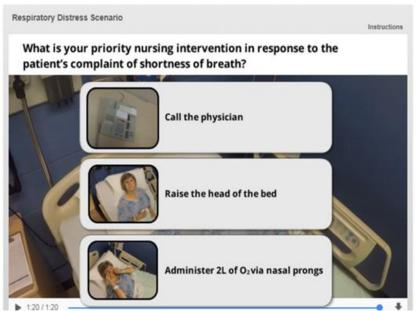


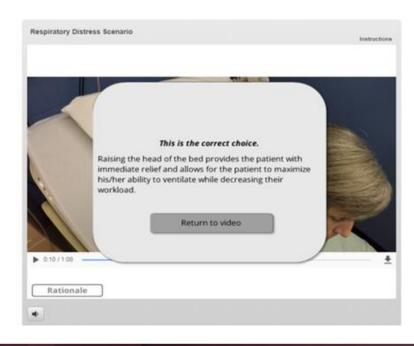


CAN-Sim Video-Based VSGs

- video clip of clinical situation followed by a critical thinking question
- learners select the best of three potential nursing actions
- learners receive immediate feedback











Innovation

Welcome to this fictional scenario. For each question, choose the most appropriate response. Take note of any questions you wanted to ask that were not asked.

What brings you here today?

Three scenarios

Two simulations each

- One branching
- One linear
- + an in-class role play and debrief
- H5P Technology
 - Free and open-source
 - Integrated into Moodle

Who is in your family?

Tell me about your diagnosis of diabetes.

What was it like when you were first diagnosed with diabetes?

Welcome to this fictional scenario. For each question, choose the most appropriate response. Take note of any questions you wanted to ask that were not asked.

What brings you here today?

This is the best option as it allows the client to direct the conversation.



Welcome to this fictional scenario. For each question, choose the most appropriate response. Take note of any questions you wanted to ask that were not asked.

What was it like when you were first diagnosed with diabetes?

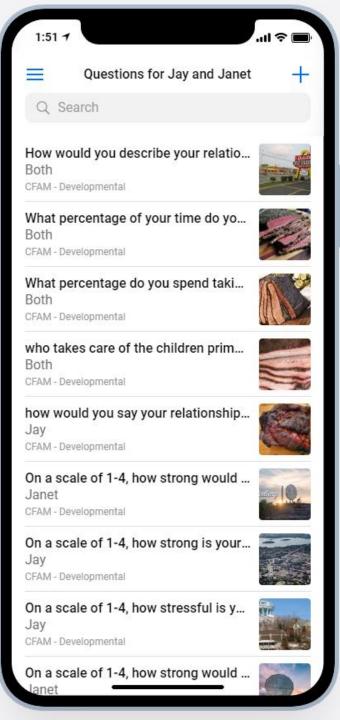
This is a good question to ask during the assessment, but opening with it does not allow the client to tell you what is most important to them.





Innovation Demo

⊚ Jay and Janet Simulation and Open Book Quizzes (10%) Jay and Janet: Obesity, diabetes and hypertension The scenario below is intended to be started in the lab. If you try it before lab you may need to restart if edits are made to improve the functionality of the scenario after you have started it. Hap Jay and Janet Chronicity Assessment (2020 Simulation Part 1) ✓ QUIZ 1: ASSESSMENT OF CHRONICITY (5%) Jay and Janet Har Jay & Janet CFAM Assessment (2020 Simulation Part 2) HSP Old Part 1 and 2: Jay and Janet: Obesity, diabetes and hypertension QUIZ 2: CFAM ASSESSMENT (5%) Jay and Janet





Outcomes

Students

- Immediately accessible
- More in-class support
- Enabled replay
- Discussion with others
- Improved learning
- Less stress

Faculty / Department

- Could guide and debrief students more effectively
- Met learning outcomes
- Renewable
- Cost savings
- Less stress

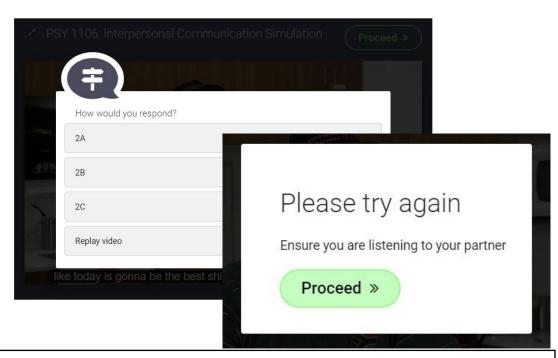


Challenges	Enhancements
Time-consuming development	Co-creation with studentsCollaboration with Can-Sim
Technical challenges	Use of on-campus computer labsH5P branching technology
Guidance	 Completion during labs Pre-brief, in-class guidance, debrief Quizzes to ensure understanding
Tracking	 Assess based on assignments
Variety	 Need more with actors



In-Class Potential





Interpersonal Communication Simulation

Paramedic, Police, Fire, Security, and Corrections.

Cynthia Booth & Micheline Lavallee, Cambrian College



Potential

- Ongoing use
- Variety of H5P tools
- Co-creation
- PhD focus



Collage

Create a collage of multiple images



Column

Column layout for H5P Content



Course Presentation

Create a presentation with interactive slides



Dialog Cards

Create text-based turning cards



Drag and Drop

Create drag and drop tasks with images



Drag the Words

Create text-based drag and drop tasks



Essay

Create essay with instant feedback



Fill in the Blanks

Create a task with missing words in a text





Potential

- Increasing demand
- Cross-institutional collaborations
- Interprofessional collaborations
- Collaborations with vulnerable populations
 - Co-creation with students

Assessment And Prioritized Care Of The Patient Diagnosed With COVID-19



Geriatric Fluid Volume Deficiency

Minni Frost is an 87-year oid adult who is being transferred to the Emergency Department (ED) for assessment. She currently lives retirement centre with her spouse. She has experienced nausea vomiting x 24 hours with associated decreased oral intake. Minn increasingly lethargic today and her spouse states she has been confused for the past 12 hours.



Respiratory Deterioration

Robert Caron is a 57-year-old male who was admitted to the med with shortness of breath, mild chest pain that increases with dee breaths, and a mild feer. He had an ECGI in the Emergency Depa that shows sinus tachycardia. Lab values: Creative Kinase (MS) cardiac troponium were within normal lamits. He had an asopharyr awab for COVID-19, results pending. He is currently receiving on nasal prongs.



Care Of The Ventilated Pati

Robert Caron is a 57-year old male admitted to the medical unit t morning with shortness of breath, mild chest pain which increase deep breaths, and mild fever. Symptoms increased in severity re instalation. Has last set of vitals post-vitulation were T 38.2, HB 101/62, and 9507.95 FIGO 250. The RT will provide the vent se Hris currently sedated with fentanyl and midazoism. He also net coursonum dringlin joutcition. He had an assophamyinged wasto for 19, results pending. He is a full code. Hist past medical history in RTN, BPH, and Figor Galabetes. His wife is a thome and the highly calling he right now to update her on the patient's condition and to the ICU.



Multiple Organ Dysfunctio

Demetri Inanvicch is a 23 year-old male (pronount he/him) migra worker from Belauxi. He was informed by Public Health Her to positive for COVID-10 after screening by his employer. He was poisulation and followed by Public Health in the community of solution was the loss of taste and smell. Over the course of the pastent began experiencing increased shortness of breast called 911 and was brought to the ER for assessment. He was and is now being transferred to the tensive Care Unit (Civil) and is now being transferred to the tensive Care Unit (Civil).



Running A Code

A middle-aged (54 yrs) male, George Doulle arrived in the Emerge Department of a rural hospital for shortness of breath, non-produ cough, decreased appetite, and fever. He has a past medical hist smoking (35 packs per year) and hypertension. He is awaiting ar assessment from the ER nurse and physician.

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Q and A





CAN

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Educators Using Simulation

