

Intelligent Simulation Environment (ISE) Integrating Sensors, Mixed Reality (MR) and Artificial Intelligence (AI) to Escalate and Validate Complex Adaptive Competencies (CAC)

Clinical Learning Activity

Beatrice Sanders, an older adult female, admitted to a hospital for a surgical procedure, is complaining of stomach pain and nausea. In this scenario, IV fluids



are running at half the ordered rate and the patient's nasogastric (NG) tube is clamped. It is the task of the student nurse to identify these issues and correct them by following the established protocols.

Project Roadmap

Team Assembly & Kick off



Clinical Activity & Experience Design

College of Nursing (CON)

- Janine Hinton, PhD, RN, CHSE
- David Celaya-Gonzalez, MS
- Tarnia Newton, DNP, FNP-C
- Steve Machtley
- Connie Miller, DNP, RN, CNE

Simulation





Systems & Industrial Engineering (SIE)

- Young-Jun Son, PhD
- Yijie Chen, Doctoral Student
- Tarig Islam, Doctoral Student
- Kamelia Sepanloo, Doctoral Student

Center for Digital Humanities (CDH)

- Bryan Carter, PhD
- Gabrielle Lampner, Undergraduate Student
- Ishika Patel, Undergraduate Student
- Daniel Shevelev, Undergraduate Student
- Nate Teku, Undergraduate Student



Learn more at https://www.nursing.arizona.edu/cacl