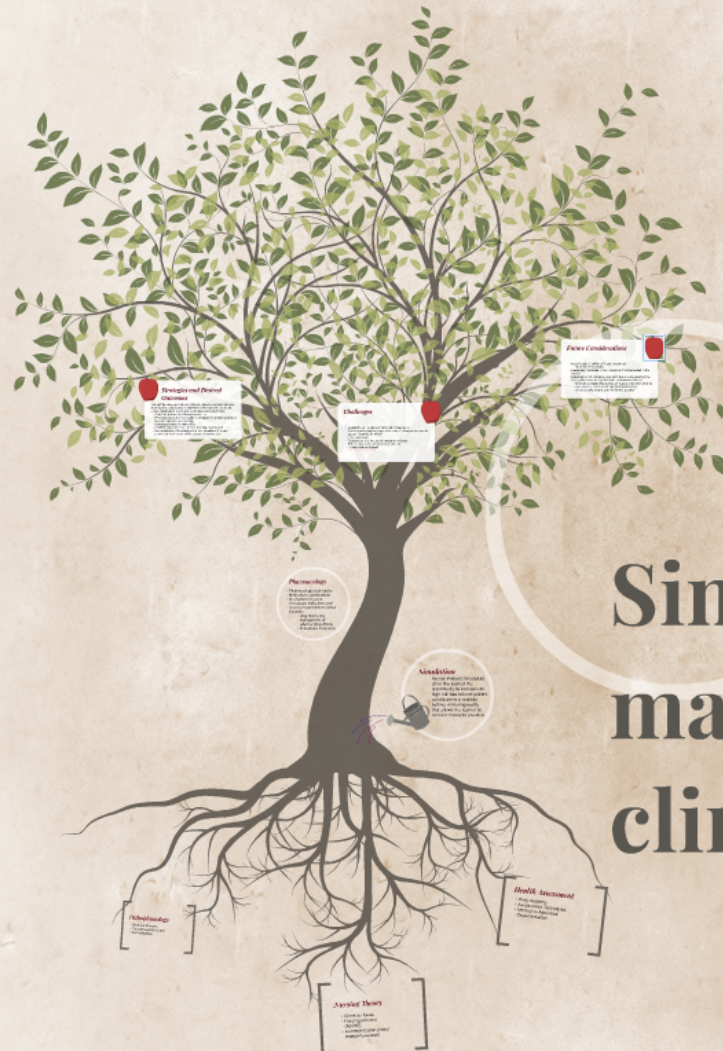


Questions?

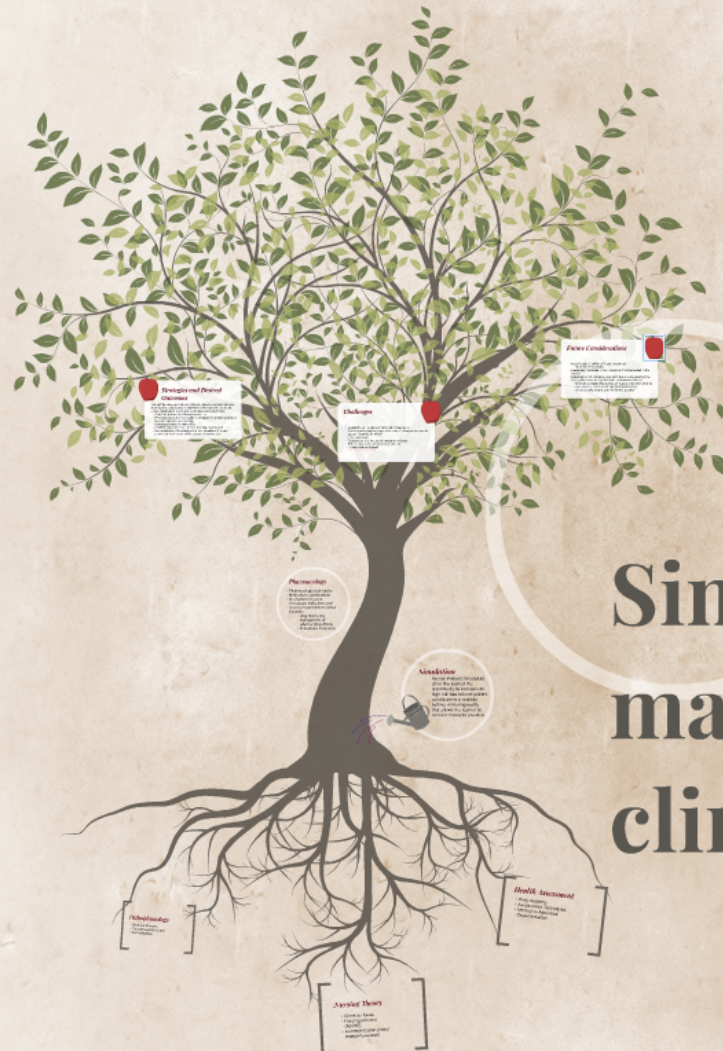


We have no financial or personal relationships to disclose.
Presenters:
Andrew Metcalfe, Nicky Kerr,
Liz Ibbald, and Angela Hyden

Simulation is the use of a computer or other device to create a virtual environment that mimics the real world. It is used to train people in a variety of skills, from basic life support to advanced medical procedures. Simulation is a powerful tool for learning and assessment, and it is becoming increasingly important in the healthcare industry.

Simulation; Helping make the pieces fit in clinical pharmacology

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In preparation for the clinical setting the idea was to create an experience that would enable nursing students to apply pharmacological concepts as they relate to health assessment, nursing theory, and pathophysiology.

This opportunity was also designed to allow students the ability to further develop their critical thinking skills and assist with the transfer of theory to practice.

Health Assessment

- Body Systems
- Assessment Techniques
- Normal vs Abnormal
- Documentation



Nursing Theory

- Client as focus
- Nursing process (ADPIE)
- Communication (Intra/ Interprofessional)



Pathophysiology

- Disease Process
- Compensatory factors
- Comorbidities

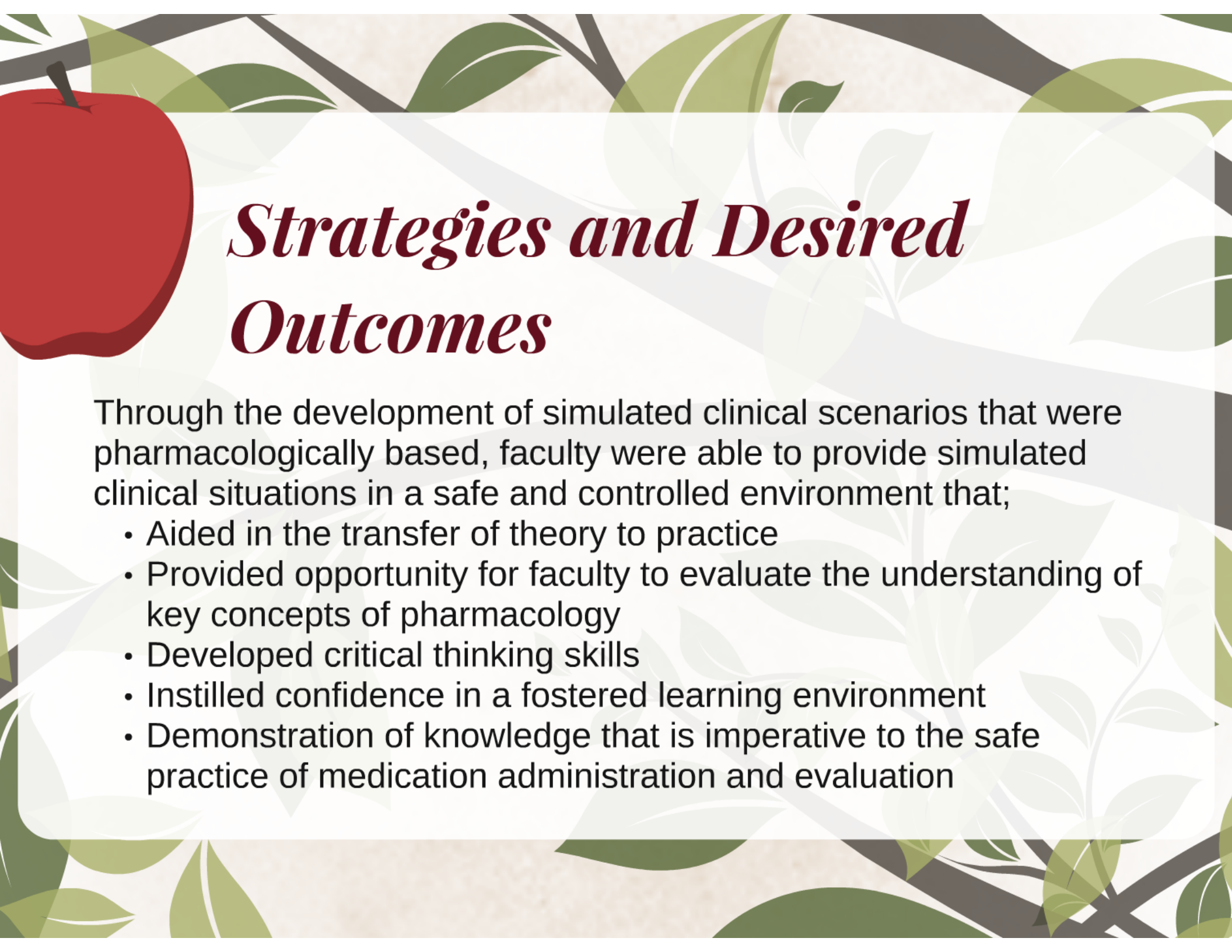
Simulation

Human Patient Simulators allow the learner the opportunity to interact with high risk low volume patient conditions in a realistic setting, mirroring reality that allows the learner to connect theory to practice.



Pharmacology

- Pharmacological principles
- Medication classifications
- Mechanism of action, therapeutic indications and nursing responsibilities which includes;
 - drug monitoring
 - management of adverse drug effects
 - therapeutic evaluation



Strategies and Desired Outcomes

Through the development of simulated clinical scenarios that were pharmacologically based, faculty were able to provide simulated clinical situations in a safe and controlled environment that;

- Aided in the transfer of theory to practice
- Provided opportunity for faculty to evaluate the understanding of key concepts of pharmacology
- Developed critical thinking skills
- Instilled confidence in a fostered learning environment
- Demonstration of knowledge that is imperative to the safe practice of medication administration and evaluation

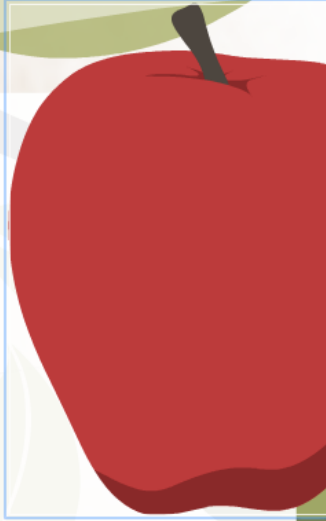
Challenges

- Availability of Faculty with Simulation Experience
- Faculty portraying/carrying out the roles of other professions ie Doctor, Pharmacist, PT/OT
- Time and space
- Faculty buy in to the use of simulation in theory
- Prior exposure to simulation in curriculum
- *Administration Support

** may be an issue depending on situation*



Future Considerations



- Best Practice Guidelines/Measurement tool
 - Transfer of knowledge
- Developing simulated clinical scenarios that are leveled to the learner
- Development of simulation scenarios that are designed for the inter-professional/intra-professional environment that will;
 - promote collegial relationships of respect and understanding
 - awareness of roles (overlapping/complimentary)
 - enhance collaboration prior to entry to practice

Questions?