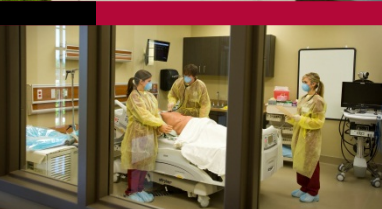**Role Modeling in Simulation**

Dr. Ashleigh Woods, Dr. Betty Key, & Mr. Brian Dickson

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Objectives

- Discuss instructor led role modeling in simulation.
- Identify the teaching and learning strategies used in instructor led role modeling.

Background

- Technology in the classroom
- Human Patient Simulation (HPS)
- Skills and Cognition

Types of Simulation Manikins

Low Fidelity Manikin

High Fidelity Manikin

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High Fidelity Simulation

- Tetherless
- Wireless
- Moveable parts

Role Modeling & Simulation

Role modeling: the act of playing a role so that an observer is able to imitate those behaviors

Methods

- Recorded scenario in the simulation center at the Capstone College of Nursing.

- Three experienced nurses played the role of students.

- Course instructor played role of doctor and patient.

- Use of iStan technology and classroom media.

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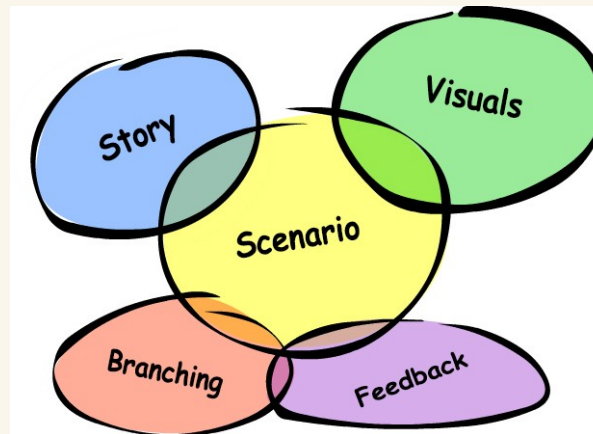CAPSTONE COLLEGE OF NURSING

Same Scenario Performed Twice

Unorganized Scenario

- Multiple errors
- Chaos
- Poor Communication

Organized Scenario

- Minimal errors
- Controlled situation
- Great communication

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Group Discussions

- What went well?
- What could be done better?
- What did you see and hear?
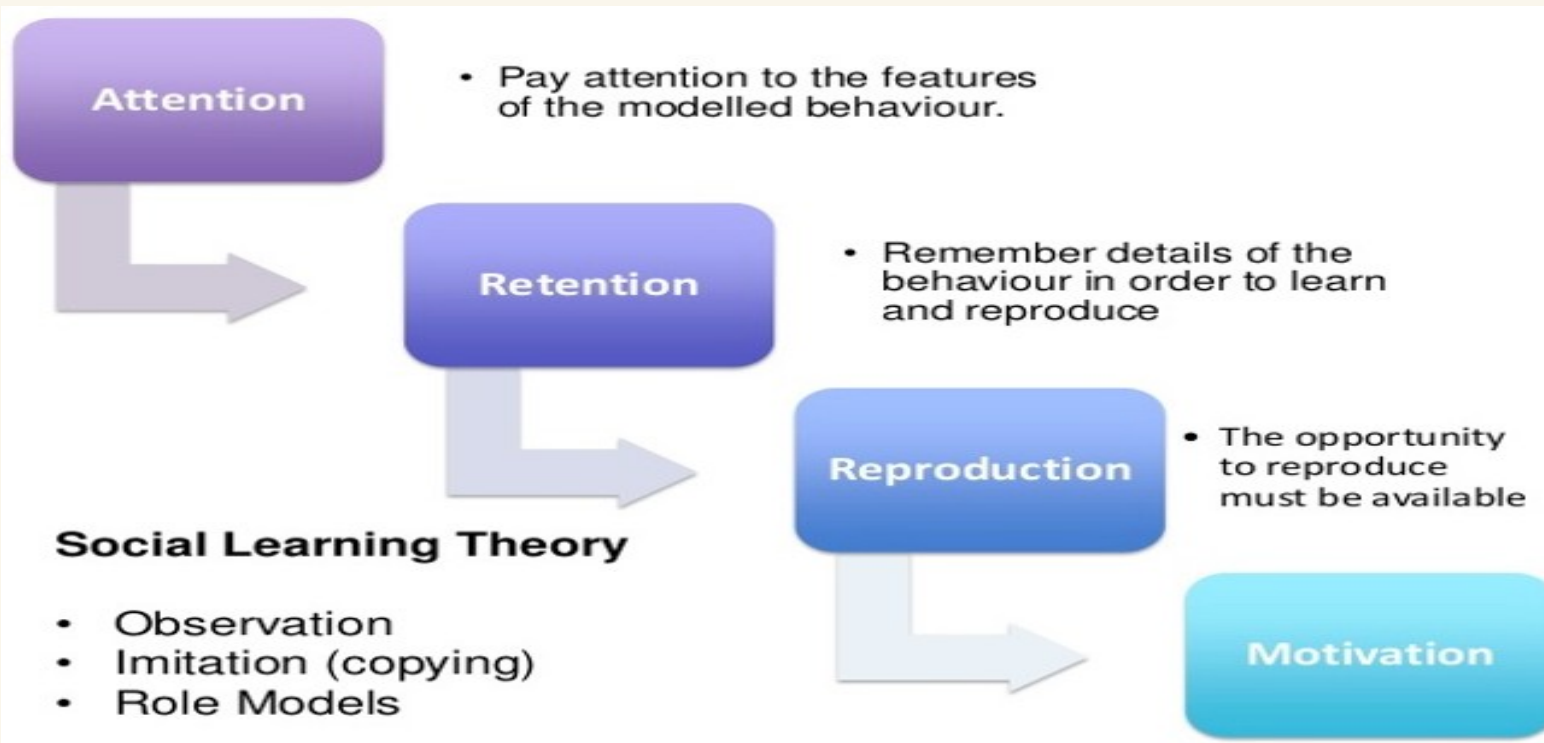- Open Discussion

Results

- Active student engagement
- Identification of errors
- Identification of treatments
- Reflective Learning Experience

Learning Strategies

- Inductive Learning
- Reflective Learning

Student Feedback

- Requested future role modeling videos
- Eagerness to participate in role modeling videos
- Assisted with learning process

Conclusion

- Role modeling in simulation…
  - Improves students' clinical judgment
  - Improves simulation competency
  - Improves classroom interaction
  - Improves student learning
  - Uses inductive learning

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Future Directions

- Future Research
  - Impact on students' clinical judgment
  - Impact on students' learning
  - Impact of students' anxiety during simulation

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References

- Aebersold, M., & Tschannen, D. (2013). Simulation in nursing practice: the impact on patient care. *Online journal of issues in nursing*, *18*(2), 6.

- Aronson, B., Glynn, B., & Squires, T. (2013). Effectiveness of role-modeling intervention on student nurse simulation competency. *Clinical Simulation in Nursing*, 9(4), e121-e126.

- Dunnington, R. M. (2014), The nature of reality represented in high fidelity human patient simulation: philosophical perspectives and implications for nursing education. *Nursing Philosophy*, 15: 14–22. doi:10.1111/nup.12034

- Gavriel, J. (2015). Tips on inductive learning and building resilience. *Education for Primary Care*, 26(5), 332-334.

- Johnson, E.A., Lasater, K., Hodson-Carltom, K., Siktberg, L., Sideras, S., & Dillard, N. (2012). Geriatrics in simulation: Role modeling and clinical judgment effect. *Nursing Education Perspectives, 33(3)*, 176-180.

- Myung-Nam, L., Kyung-Dong, N., & Hyeon-Young, K. (2017). Effects of simulation with problem-based learning program on metacognition, team efficacy, and learning attitude in nursing students. *CIN: Computers, Informatics, Nursing*, *35*(3), 145-151.

- Wayne, D., & Lotz, K. (2013). The simulated clinical environment as a platform for refining critical thinking in nursing students: A pilot program. *Nursing Education Research, 34(3)*, 163-166.

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Questions?

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