



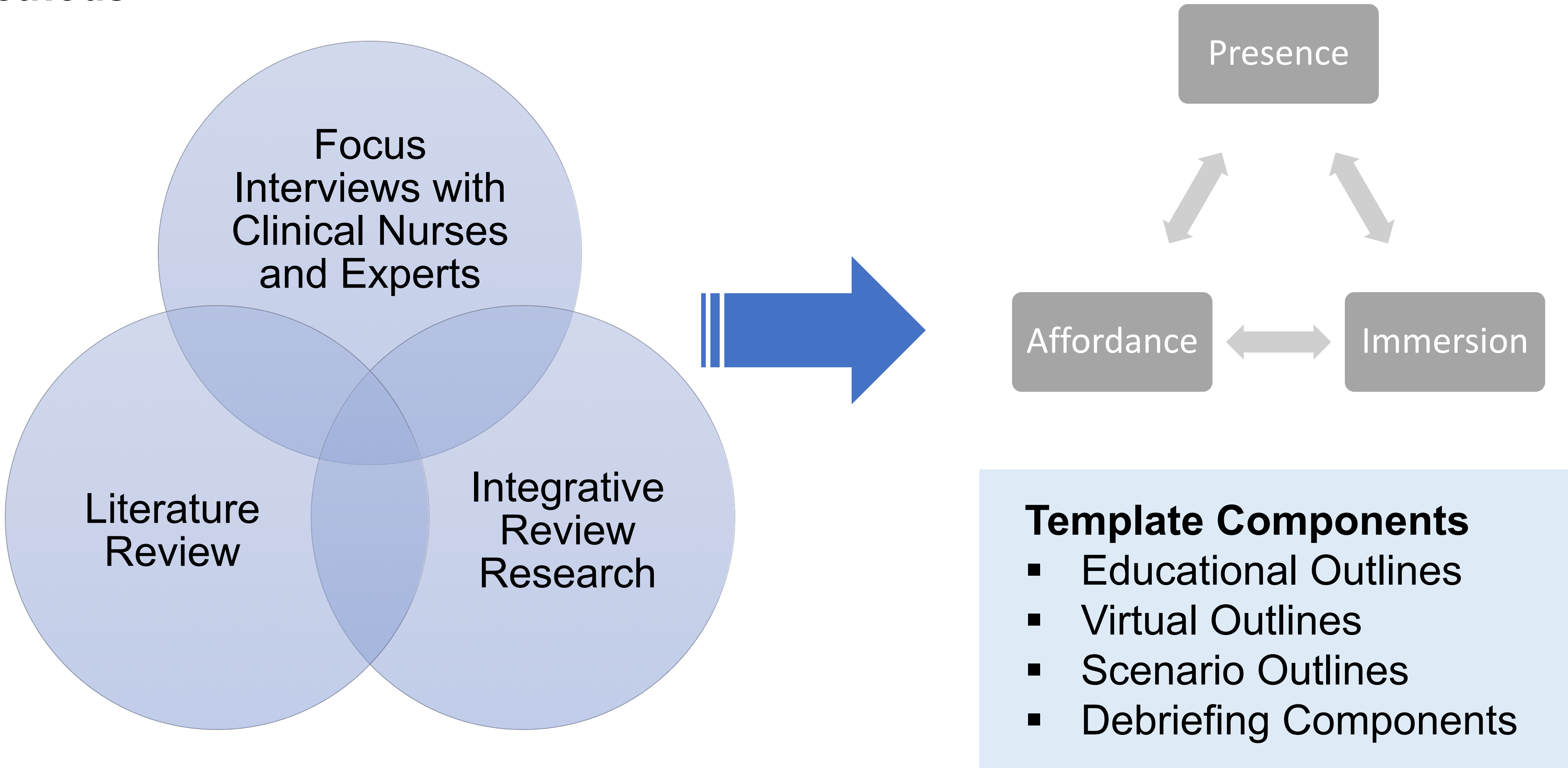
Effective Design Characteristics of Virtual Simulation in Nursing

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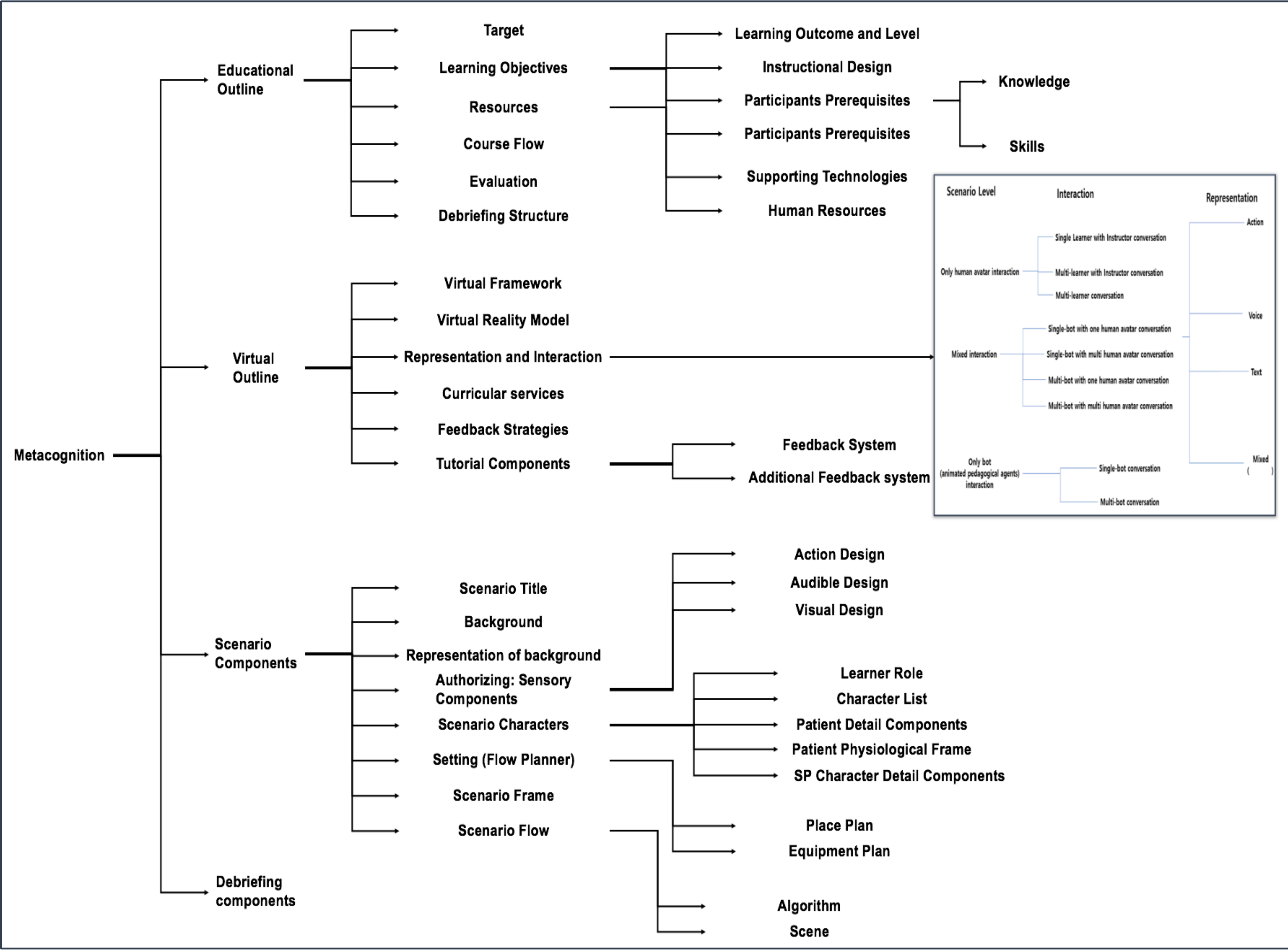
Introduction

- An educational strategy has to be advanced as technology evolves. Virtual nursing simulation is one of the attempts for a transition of the nursing education method[1].
- Virtual simulation scenarios for nursing education should be developed based on the effective design characteristics of virtual simulation.

Methods



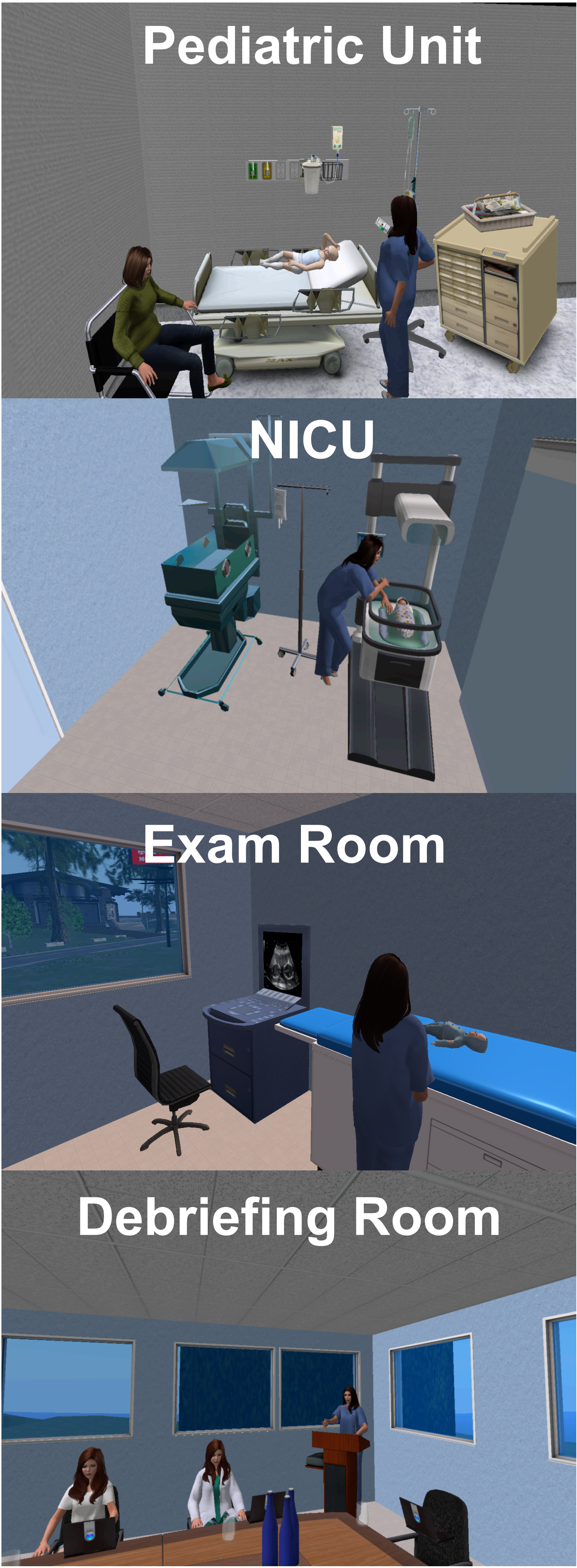
Results



Final Nursing Multi-User Virtual Environments Simulation Template

Purpose

- To develop a template with design characteristics for virtual simulation.
- To build a sample scenario of virtual simulation using the developed template.
- To test the validity of the virtual simulation using the developed scenario in a multi-user virtual environment.



Nursing Multi-User Virtual Environments Sample Scenarios

Conclusions

- Effective design characteristics for virtual simulation include virtual specific components such as presence, immersion, and affordance.
- The findings of this study showed the design characteristics of the developed template could allow nurse educators to build more structured virtual simulation strategies for nursing education.
- Further study focused on evaluating the effectiveness of the virtual simulation is warranted.

Acknowledgement

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Reference

- [1] Farra, S., Miller, E. T., Hodgson, E., Cosgrove, E., Brady, W., Gneuchs, M., Baute, B. Storyboard Development for Virtual Reality Simulation. Clinical Simulation in Nursing. 2016 June 13;12(9): 392-399.