Virtual Training in an Artificial Intelligence Environment
Omar Ejaz, Dan Dunning, Andrew Boyd
Advisor: Dr. Enyue (Annie) Lu

Abstract
Virtual Simulations provide several advantages such as allowing students to practice with less stress and risk than if they were performing the actual process. Students are also able to practice at any time as opposed to scheduled clinical hours, saving both time and money. In this project, we’ve created a health care environment with an artificial intelligence that allows students to practice making health care decisions.

Purpose
Create a supplemental learning tool for nursing students that provides:
• Problem solving scenarios
• Review questions
• Editable patient charts with full history and symptoms

Methods (software)
• Opensim – Engine used for the simulation
• Hamachi – VPN
• Windows Server 2008 – Operating system to run all software
• MySql – Backend and data storage

Conclusion
A simulated artificial intelligence enable health care environment has been created. A simulation with a home based scenario similar to one encountered by nurses working for a social agency has been tested. The future work includes creating additional healthcare and nursing scenarios by collaborating with nursing faculty and students.