Simulation Learning System with Virtual Reality
Best Practices

Understanding Simulation Learning System with Virtual Reality

Simulation Learning System with Virtual Reality (SLS with VR) is the easiest and most effective way to integrate simulation into your nursing curriculum. Filled with evidence-based scenarios, an electronic health record, and teaching support for facilitating each step of simulation. SLS with VR leverages the latest virtual reality technology to provide students with a safe, ultra-realistic virtual environment where they can gain valuable hands-on patient care experiences and enhance their clinical judgment skills.

- The **pre-simulation** stage features instructions, student performance objectives and learning resources.
- Faculty-managed virtual reality scenarios using the Sim-X moderator while students interact in the virtual patient room.
- The **debriefing** stage has a complete debriefing guide and additional skills for review, along with an observer rubric, performance checklist, and post simulation learning resources.

Implementing SLS with VR

Considerations for success

- Faculty should build comfort with the equipment to ensure a smooth simulation experience. This includes the moderator actions in the SimX moderator app as well as the student experience in use of the VR headset & equipment.
- Simulations should begin early in the program. We suggest students spend time in sandbox practice to gain comfort navigating the VR equipment functions.
- Provide multiple VR simulation opportunities for students throughout the semester and program (research supports increased satisfaction with continued exposure to VR simulations)
- Simulations (in immersion) should last 10-15 min and no longer than 20 min in length.
- Ensure students understand the simulation objectives up front. SLS VR scenarios offer great opportunities for students make decisions, prioritize care, communicate with patients/families and interprofessional care providers as well as to ensure patient safety.
- Simulations should be completed with using the full components of the SLS product including pre-simulation and post simulation activities (See SLS Best practice document).

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Pre-Simulation Activities

- Students can complete pre-simulation activities including assigned readings, pre-simulation quizzes/exercises, and skills review.
- Students can complete the pre-simulation manager in the EHR to prepare for the simulation experience. Faculty can guide activities as needed to meet course objectives. Encourage and model the use of Clinical Key and Clinical Pharmacology resources in the pre-clinical experience.

SLS VR in the Classroom

Simulations can occur in the classroom as a group activity with 1-3 students "in sim" and the rest of the students participating as observers.

- Just as in the simulation lab, establish ground rules which may include collaboration, teamwork, patient privacy, and a supportive environment.
- Consider doing the pre-sim quiz as a class assignment. You might also have the students complete the pre-sim manager prior to class.
- Before the simulation begins, give students 15 min to review the simulation chart. Have students develop their plan of care, either individually or in groups. Sharing of these plans can be a part of post-simulation discussion/debrief.
- Provide ample debriefing time to allow for discussion and reflection. Consider posing some of the Guided Discussion Questions from the SLS Implementation Guide. Students can work in groups then share.