



Teaching at the ILC



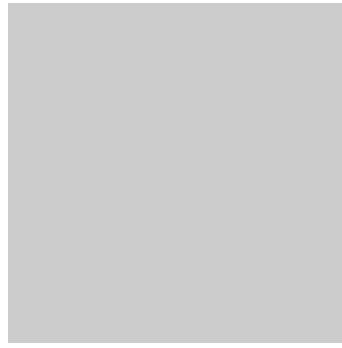
Develop an immersive learning program with us!

Address practice or training gaps in your area of specialty with advanced immersive and simulation-based techniques. ILC staff are available to work with you to design and implement innovative, dynamic, and effective educational programs for students, residents, fellows, and practicing physicians.



CENTER FOR
IMMERSIVE AND
SIMULATION-BASED
LEARNING

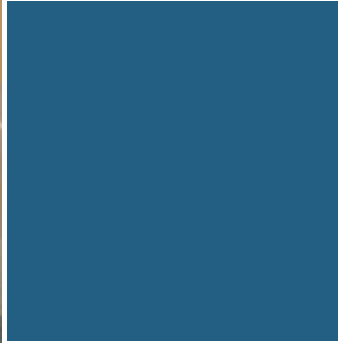
STANFORD SCHOOL OF MEDICINE



+ The future of medical education is here.

Immersive and simulation-based learning

Simulation techniques provide a safe environment for the learning of appropriate diagnostic, therapeutic, and interpersonal responses to clinical scenarios. Not only are immersive and simulation-based learning programs effective for teaching clinical knowledge and technical ability, but they also provide an opportunity for participants to develop teamwork, communication, and dynamic decision-making skills in a realistic but controlled setting. Combined with moderated debriefing and formative assessment, immersive learning programs can produce substantial improvements in clinical performance and patient safety.



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Immersive Learning Center

Resources for educational programs

- ❖ Full-scale simulation suites with computerized mannequin- based simulators:
 - Operating room
 - 3-bay emergency room/ICU
 - Acute care hospital rooms
- ❖ Clinic/patient examination rooms
- ❖ Classroom space and conference rooms

Faculty and program participants can observe exercises in our learning spaces from dedicated control rooms, or via audio/video feeds to debriefing areas.



Practice for low-volume, high-risk situations.

- ❖ Teach appropriate clinical responses and apply principles of crisis resource management (CRM) to stressful, high stakes situations
- ❖ Analyze and develop communication, leadership, and teamwork skills in multidisciplinary groups
- ❖ Prepare participants to respond effectively, accurately, and professionally

Code Scenarios and Clinical Emergencies



Examples:

Adult and Pediatric Code Team Sim

Stroke Code

Anesthesia Crisis Resource Management



Procedural Skills

Part-task physical trainers allow participants to practice key elements of procedures and develop technical skills.

Encourage learners to develop familiarity and fluency with the logistical and technical aspects of procedures, such as central line placement, catheterization, or intubation.



Available Resources

- ❖ Airway management trainers
- ❖ Nasogastric tube and tracheostomy tube trainer
- ❖ Breast exam model
- ❖ Catheterization and enema trainer
- ❖ Testicular and prostate exam models
- ❖ Central line trainer
- ❖ Femoral line trainer
- ❖ Lumbar puncture trainer
- ❖ Otoscope and ophthalmoscope trainers
- ❖ Ultrasound simulator
- ❖ Laparoscopic simulator
- ❖ Endovascular simulator



Bedside Technique

Standardized patient actors



Develop

- ❖ Cultural and linguistic competency
- ❖ Patient communication and education skills
- ❖ Comfort level in challenging interpersonal interactions

Examples:

Delivering bad news to patients

Working with medical interpreters

Did you know? Hybrid programs can combine the use of standardized patients with mannequins or other equipment and techniques. Standardized patients can also help you to create trigger videos that can be used to generate discussion about a particular issue.



How to get started.

Our doors are always open to clinicians, educators, and other health care professionals interested in developing educational programs utilizing the resources available at the Immersive Learning Center. Here is how our process works:

1

Decide what you want to teach and who you want to teach it to.

Identify the knowledge, competency, or practice gaps you wish to address. Determine whether your audience will be students, housestaff, experienced practitioners, allied health professionals, or a multidisciplinary team. Develop **learning objectives** to remedy the identified gaps.

2

Determine the immersive and simulation-based learning techniques that will help learners meet your objectives.

Once you have an idea for your educational program, **schedule a consultation** with ILC team members to explore our resources and decide upon the optimal techniques for delivery of your content.

3

Develop your program curriculum using proven, effective tools.

Whether you create a full-scale simulation session with mannequins, develop scenarios using standardized patients, or work with part-task trainers, we can help you hone your program design to ensure your learning objectives are met. Utilize our **scenario design templates and debriefing workshops** to maximize educational value.

4

Run your program and evaluate your outcomes.

Depending on your needs, ILC staff can assist you with delivery of your program, including providing simulationist support during your course. Debrief your program with participants afterward to provide formative assessment and reflect on the learning experience. At the conclusion of your program, ILC staff will meet with you to discuss how the course ran and **strategies for improving** the program further.



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