



The Medical Simulation Center

Harnessing Medical Technologies to Advance Excellence in Patient Care Education

Israel's healthcare system is entering a defining decade. Surging demand and an acute nationwide shortage of physicians and nurses, projected to worsen dramatically by 2030, are putting hospitals and clinics under unprecedented strain.

The University of Haifa's new Herta and Paul Amir School of Medicine and its leading Cheryl Spencer Department of Nursing are joining forces to meet the growing need for skilled professionals in the north. Central to this vision is **The Medical Simulation Center**, a state-of-the-art facility that will be housed within the School of Medicine building. Within this highly realistic environment, students will move through in a wide range of clinical scenarios, from routine checkups to complex diagnoses and critical care. Through immersive, experiential learning, they will develop essential skills in teamwork, decision-making, and communication while preparing for both traditional and emerging models of care, including telehealth, remote services, and community-based healthcare, which are particularly critical in underserved areas. **The evidence is compelling. Teams that rehearse together in high-fidelity simulations perform with greater confidence and precision when seconds count. In specialties such as cardiac surgery, this training has been shown to reduce patient mortality.**

By bridging theory and practice in a controlled setting, the Center will cultivate confidence, clinical competence, and real-world readiness. With your support, Haifa will become home to Israel's first integrated model where physicians and nurses train side by side, sharing resources, and learning to collaborate from day one.



This fall, the School of Medicine welcomed its inaugural class of 74 outstanding students, chosen from over 1,000 applicants and reflecting Israel's rich diversity, with women making up more than half the cohort. Within six years, the School will grow to 450 students, dramatically expanding the pipeline of trained physicians serving northern Israel. Beginning their studies with hands-on clinical training from day one makes the establishment of the Medical Simulation Center all the more urgent and essential.



Academic Leadership

"As in other fields, medical education has evolved from mastery guided by apprenticeship to precision honed through simulation. In today's digital era, the classroom is a virtual clinical setting, where mistakes teach without harm and expertise is sculpted by pixels and practice."

- Prof. Haim Bitterman (MD)

Dean of the Herta and Paul Amir School of Medicine

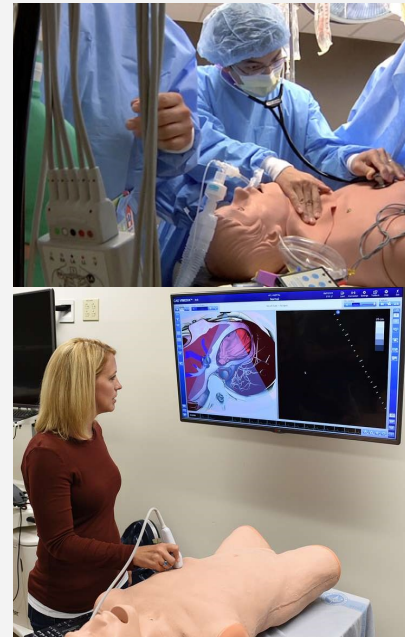
Healthcare Simulation: *Smarter Training, Better Outcomes*

To bring medical training to life, the Simulation Center uses state-of-the-art tools that immerse students in realistic clinical environments — from basic procedures to high-stakes emergencies.

1) High-Fidelity Patient Simulators: Advanced computer-controlled mannequins that simulate real patient responses across a range of clinical scenarios. These simulators provide immersive, hands-on training in trauma care, emergency response, and team resuscitation. The Center will require at least four simulators to fully support the School of Medicine's curriculum.

2) Clinical Skills Task Trainers: Partial-body models that allow students to practice specific procedures – such as airway management, venipuncture, and lumbar puncture – in a controlled, low-risk environment. These trainers promote step-by-step skill development and build confidence before transitioning to advanced simulation or clinical settings.

3) Virtual/Augmented Reality & Digital Simulation Platforms: VR headsets, AR overlays and interactive software that create realistic clinical environments for hands-on learning. Through case-based scenarios in anatomy, surgery, and radiology, students will strengthen diagnostic reasoning and procedural training. By extending learning beyond the limits of physical simulators, these cutting-edge tools will deliver flexible, high-impact experiences that prepare future physicians for real-world practice.



For Your Consideration:

We invite you to partner with us in establishing the Medical Simulation Center. **A gift of \$1.84 million** will name the Center in your honor, fully outfit it with advanced equipment, and support its operation for the first three years. This transformative investment in clinical training will empower the next generation of physicians to meet today's healthcare challenges with confidence and skill.

ITEM	COST (USD\$)
EQUIPMENT	
1) High-Fidelity Patient Simulators	500,000
2) Clinical Skills Task Trainers	50,000
3) Virtual/Augmented Reality & Digital Simulation Platforms	300,000
OPERATIONAL SUPPORT (for three years)	
Simulation Center Medical Director	330,000
Simulation Center Technicians (two positions)	420,000
Maintenance and Expendables	240,000
TOTAL	\$ 1,840,000