



Experience and future of clinical simulation

10
YEARS

CISA
Comprehensive
Centre for Advanced
Simulation

Excellence in clinical education through simulation

The Comprehensive Centre for Advanced Simulation (CISA) at UIC Barcelona is a **leading reference in the education and training of health professionals**. With over 28 years of experience in clinical simulation and 10 years as one of the **pioneering centres** in Spain, it promotes an innovative educational model grounded in **academic excellence, cutting-edge technology** and a distinctive humanistic ethos.

Located on the Sant Cugat Campus and serving the Faculty of Medicine and Health Sciences, CISA is a fully integrated care and learning ecosystem within the university. Its advanced clinical simulation facilities recreate **operating theatres, intensive care units, outpatient clinics, hospital wards and emergency scenarios** with the highest level of realism. These environments enable students of Medicine, Nursing, Physiotherapy and Psychology to train in a **safe, realistic and collaborative setting**.



Discover CISA and explore our simulation facilities

Innovation and experience in the service of healthcare

The affective–effective model, a hallmark of the Faculty.

The Faculty's distinctive affective–effective model, based on the **humanisation of patient care**, is embedded in the simulation-based learning activities delivered at CISA. Within this framework, students engage safely with a wide range of real clinical situations before encountering patients in clinical practice.

Through the use of high-fidelity manikins, simulated patients and virtual and augmented reality technologies, students develop technical, clinical and human competencies. CISA is part of an innovative educational project that prepares professionals to address the real challenges of the healthcare and care delivery system from a multidisciplinary perspective.

Collaboration with the Faculty's **affiliated university hospitals** – the Consorci Sanitari de Terrassa, Hospital General de Granollers and Hospital Universitari General de Catalunya – along with partnerships with a range of healthcare centres, ensures **comprehensive training** closely connected to clinical practice, interprofessional collaboration and social commitment.

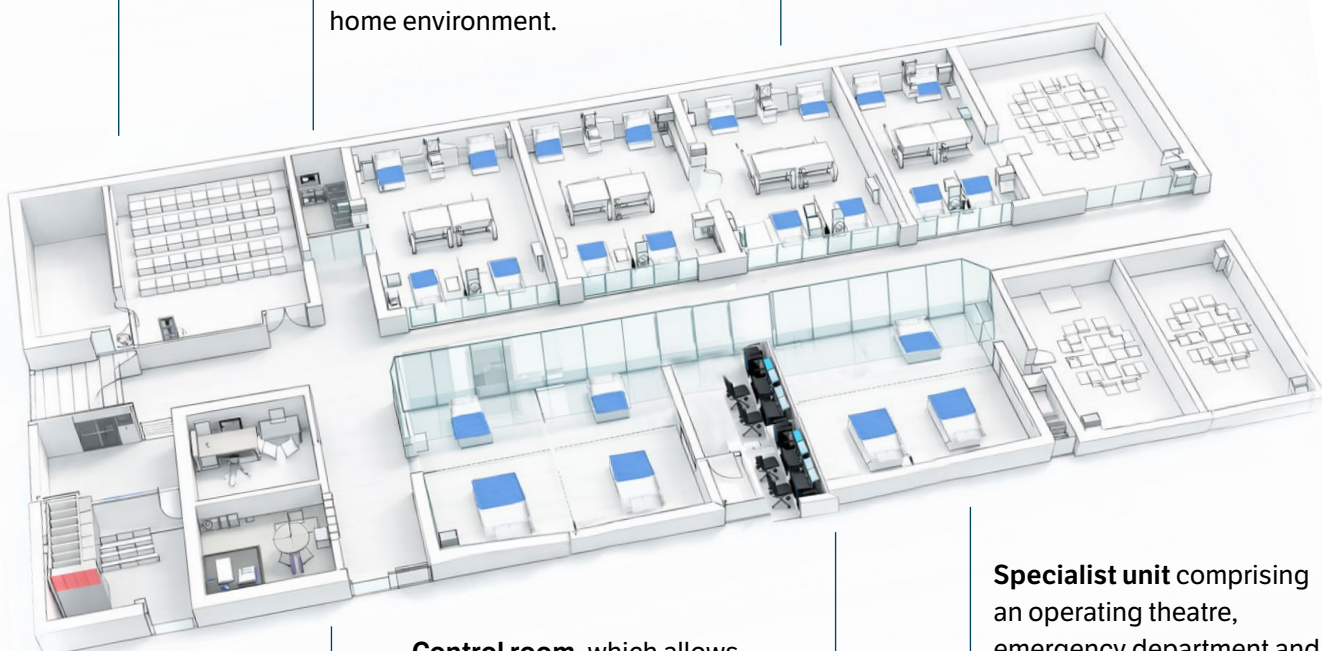
We offer cutting-edge facilities, equipment and a multidisciplinary team made up of technicians, standardised patients and specialist instructors

Observation and debriefing room, where participants can view the different spaces live or via recorded sessions, so that the instructor can analyse and evaluate the actions carried out in each simulated scenario with all the participants.

Inpatient unit with 16 beds distributed across four hospital wards.

Training unit, consisting of three multi-purpose rooms for technical skill training

Home care unit designed to simulate patient care in the home environment.



Primary care unit, comprising two consultation rooms and a waiting room.

Control room, which allows instructors to observe the scenarios live, through one-way mirrors. In addition, all areas are equipped with **video-recording systems** for live and recorded transmission, enabling joint analysis and evaluation of the learning process.

Specialist unit comprising an operating theatre, emergency department and intensive care unit, as well as spaces adapted for the development of pre-hospital clinical cases.

CISA technical team recreating clinical scenarios



Manikin preparation



Critically ill patient



Wound creation using moulage



Paediatric care



Virtual reality simulation



Advanced life support

1,000m²

- 3 multi-purpose rooms
- 1 lecture room
- 1 waiting room
- 2 primary care consultation rooms
- 1 home care room
- 4 inpatient rooms
- 1 operating theatre
- 1 scrub room
- 1 control room
- 1 video-recording system with 41 cameras capable of recording simultaneously

BUSINESS SERVICES

Staff

Our multi-disciplinary staff are specialised in simulation and guarantee an experience that will achieve all proposed objectives.

All projects benefit from the guidance of an academic coordinator with recognised expertise in simulation. We also provide technical specialists responsible for recreating clinical case scenarios and preparing standardised patients and manikins, as well as specialist instructors.

Equipment

The Comprehensive Centre for Advanced Simulation operates in exactly the same way as a normal care centre and helps students, through its structure and equipment, gain care experience.

We have a wide range of manikins, including basic anatomical part trainers for practising diagnostic and/or therapeutic techniques and examination procedures, as well as sophisticated simulators and virtual reality equipment. These resources are suitable for addressing situations involving clinical management, decision-making, monitoring and life support for critically ill patients, among others, enabling realistic replication of real-life scenarios.

In addition, to enhance the realism of each simulation, we provide all the necessary materials to replicate injuries of varying severity, along with simulated medications, ensuring a safe learning environment for participants.

Knowledge areas, skills development and ad hoc workshops

- Basic, immediate and advanced life support, certified by the Catalan Resuscitation Council
- Training in technological techniques and procedures for healthcare professionals
- Working in cross-disciplinary teams
- Skills assessment
- Decision-making under pressure
- Time management and prioritisation
- Communication between healthcare teams and patients
- Assessment of care pathways and protocols
- Patient education to enhance knowledge and self-management of chronic conditions
- Recognition of emergency situations and immediate action (first aid) for non-healthcare professionals and schools
- Health education and promotion of healthy lifestyles.
- Accredited customised training, product usability testing, product demonstrations and training for sales networks.



About us

Founded in 1997, we are a university with a mission to educate people who contribute to humanising the transformation of society through professional excellence, integrity and social commitment.

UIC Barcelona currently welcomes **around 9,000 students** from over **100 nationalities** across its **two campuses** in Barcelona and Sant Cugat del Vallès. The University offers sixteen **bachelor's degrees**, eleven **double bachelor's degrees**, fifty-two **international double degrees** and more than seventy **master's degrees and postgraduate programmes**. We work closely with society through fourteen **corporate chairs**, four **business classrooms**, six **research institutes** and three **university clinics**.

We believe in **lifelong learning**, offering personalised support, a **holistic approach** focused on each student, ongoing **engagement with the professional world** and innovation in teaching and research methods, enabling every member of our community to become the very best version of themselves.

Universitat Internacional
de Catalunya

Sant Cugat Campus

Josep Trueta, s/n
08195 Sant Cugat del Vallès
Phone: +34 935 042 000

simulacio@uic.es
uic.es/cisa

