

Comprehensive Centre for Advanced Simulation

Universitat Internacional
de Catalunya

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Our aim at the Comprehensive Centre for Advanced Simulation (CISA) at UIC Barcelona is to promote health related education, with knowledge and innovation. research and innovation through leaning and simulated practice, in efforts to ensure care quality and patient safety in cooperation with institutions and companies.

We provide tailored solutions for healthcare and educational institutions, emergency services, ambulance teams, emergency care units and businesses.

We are experts in simulation. We work with a wide range of simulators, covering various levels of physiological functions and highly realistic scenarios. We also use up-to-date, real medical equipment and have a team of professionals who act as standardised patients*.

Thanks to the cross-disciplinary nature of our team and the versatility of our facilities, we are able to tailor programmes to different health fields and specialities: general medicine, emergency and urgent care, intensive care, nursing, physiotherapy, clinical psychology, and more.

We simulate and conceptualise scenarios at all levels of care: primary care, prehospital care, hospital care, long-term and social care, home care and mental health.

In both advanced robotic simulation and simulations with standardised patients, we recreate real-life scenarios for the following purposes:

- To teach and improve both technical healthcare-related skills and interpersonal skills such as leadership, coordination, communication, decision-making and, ultimately, teamwork.
- To improve care pathways and continuity of care.
- To test new procedures and protocols before implementation.
- To assess and develop professional competences.

Tutored discussion helps round off the teaching experience in a controlled, safe environment, where it is possible to learn from mistakes without compromising patient safety.

*Our standardised patients are actors or healthcare professionals who simulate a wide range of conditions depending on the clinical case, making it possible to create high-fidelity simulations.

A team of professionals and specialised advisers from different areas of health is at your disposal.

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

Facilities

Home care area, designed to simulate patient care in the home environment.

Primary care unit, which includes two visiting rooms and a waiting area.

Hospitalisation unit, with 16 beds divided between two hospital wards.

Specialisation unit, comprised of a surgery, emergency room and intensive care unit.

Additional spaces adapted for the simulation of prehospital **clinical cases**.

Training Unit, with three multi-purpose rooms for technical skill training.

Control room, which allows instructors to observe the scenarios live, through one-way mirrors.

All spaces are equipped with a **video recording** system, allowing for both live streaming and playback for joint analysis and evaluation of the learning process.

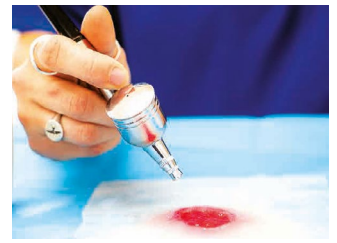
There is also a **viewing and briefing room** where participants can watch the different spaces live or recorded, so that the instructor can analyse and evaluate the actions carried out in each simulated scenario with all the participants.

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 also provide mannequins ranging from: basic anatomical trainers for carrying out diagnostic and/or therapeutic techniques or procedures and exploration techniques to highly sophisticated simulators that are ideal for recreating real situations and gaining experience with clinical management, decision-making, monitoring and life support on critical patients. In addition, to enhance the realism of each simulation, we have all the necessary materials to replicate injuries of varying severity, along with simulated medication, ensuring a safe learning environment for participants.





BUSINESS SERVICES

Over 15 years of simulation experience

Staff

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

All projects are supported by a teaching coordinator who is an expert in simulation. Additionally, we provide you with technical experts capable of recreating clinical case scenarios and role playing of actors and mannequins, standardised patients and specialised instructors.

Areas of knowledge, 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.
- Doctor/patient communication.
- Work in cross-disciplinary teams.
- Skills assessment.
- Decision-making under pressure.
- Time management and prioritising.
- Assessment of care pathways and protocols.
- Patient education for enhanced knowledge and the self-control of chronic diseases.
- Recognition of emergency situations and immediate action (first aid) for non-healthcare professionals and schools.
- Education on health and healthy lifestyles.
- Accredited customised training, product usability tests, product demonstrations, 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 of over 100 nationalities across its two campuses – in Barcelona and Sant Cugat del Vallès – offering sixteen undergraduate degrees, seventeen double degrees, forty-nine international double degrees, and more than seventy master's degrees and postgraduate programmes. We are connected to 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, constant contact 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.

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