



UNIVERSITÀ DEGLI STUDI
DELLA REPUBBLICA DI SAN MARINO

DIPARTIMENTO DI ECONOMIA,
SCIENZE E DIRITTO
CENTRO DI RICERCA E DIDATTICA
IN STUDI BIOMEDICI

UNIVERSITÀ CATTOLICA
DEL SACRO CUORE

**Make the difference and improve quality of care
in a challenging field:**

Master in Perioperative Care of Older Patients

**Geriatric medicine, anaesthesiology, surgery,
nursing, and organizational sciences**

2nd Level University Master in Perioperative Geriatric Medicine

<http://www.unirsm.sm/it/2724.htm>

UNIVERSITÀ DEGLI STUDI DELLA REPUBBLICA DI SAN MARINO USMARADIO ENGLISH CERCA COVID-19

HOME MASTER A.A. 2021-2022 ENGLISH PRESENTAZIONE OBIETTIVI SBOCCHI OCCUPAZIONALI DIDATTICA ORGANI DEL CORSO ISCRIZIONI CONTATTI E SEDI

MEDICINA PERIOPERATORIA DELL'ANZIANO

UNIVERSITÀ DEGLI STUDI DELLA REPUBBLICA DI SAN MARINO UNIVERSITÀ CATTOLICA DEL SACRO CUORE

Medicina Perioperatoria dell'anziano DURATA 1 anno ACCESSO Titoli richiesti



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This Master is under the patronage of:

SIC: Società Italiana di Chirurgia

SICG: Società Italiana di Chirurgia Geriatrica

SIGG: Società Italiana di Gerontologia e Geriatria

SIGOT: Società Italiana Geriatria, Ospedale e Territorio

SICGe: Società Italiana di Cardiologia Geriatrica

TIISO: Tavolo Interdisciplinare Intersocietario per la Sicurezza in Sala Operatoria

The University of the Republic of San Marino, in collaboration with Università Cattolica del Sacro Cuore (Roma), establishes for the academic year 2021/2022 the second-level University Master in Perioperative Medicine of the Elderly.

Presentation:

Demographic changes and the consequent expansion in the number of older patients who need surgical care have induced a growing need of specific education among surgeons and anaesthetists. At the same time geriatricians, whose competences are more and more frequently enrolled in preoperative assessment and preparation to surgery, may be not familiar with the pathophysiology of surgical aggression and principles of perioperative medicine. At the same time, nurses education is not routinely extended to geriatric care, mostly in the field of surgery.

Attending this course will allow to obtain high-quality public policy objectives, such as:

- preventing and reducing age-related postoperative complications, with reduced hospital stay, improved outcome and increased patient satisfaction
- reducing cost associated with in-hospital and after-discharge care of geriatric surgical patients, including admission rates to nursing homes or institutionalization after surgery
- offering an innovative, team-based education to be shared among anaesthetists, surgeons, geriatricians and nurses, as mandated by principles of interdisciplinarity, team-based approach, patient-centered care, comprehensiveness and olistic approach.



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Aim

Providing a multispecialty, multidisciplinary education on Perioperative Geriatric Medicine, in the light of the datum that geriatric surgical patients represent more than 40% of the global surgical population and in accordance with educational standards adopted at University level in advanced countries¹.

The course is aimed to offer:

- basal knowledge of geriatric medicine (aging processes, impact of aging on healthcare systems, epidemiological aspects, Comprehensive Geriatric Assessment, functional status, frailty, risk of falls, associated conditions, poly-pathology and poly-medication, principles of medication reconciliation and safe perioperative deprescribing)
- specific knowledge about the elderly surgical patient; decision-making strategies; preoperative assessment; patient information, education and empowerment; preparation to surgery
- advanced knowledge on intraoperative management; endocrine and metabolic stress response to surgery in the elderly; principles of safety in the operating room applied to the elderly patient; surgical and anaesthesiological techniques; postoperative triage
- specific knowledge about postoperative recovery (ERAS and fast-track surgery); impact of prolonged bed resting and perioperative malnutrition
- discharge planning and organization; care transition and continuity of care
- basal knowledge on perioperative management, with special focus on quality assurance, cost/effectiveness, patient satisfaction and clinical risk management.

General structure and educational contents:

The course lasts 20 days, for 10 hours a day, distributed over an Academic Year (10 months) and includes theoretical and practical teaching.

Compulsory course attendance is required.

Educational credits (ECTS) are 60, as in the followings:

- frontal and group teaching
- individual study (36 ECTS)
- training activities (20 ECTS)

¹ cfr: UCL – University College of London – Centre for Anaesthesia, Critical Care and Pain Medicine: <https://www.ucl.ac.uk/prospective-students/graduate/taught/degrees/perioperative-medicine-msc>



- thesis preparation and dissertation (4 ECTS)

Educational sessions 1-5 will focus on fundamentals in geriatrics and include:

- aging processes and its effects on functional reserves; impact of aging on healthcare systems, with special focus on the surgical setting
- concept of functional status
- comprehensive geriatric assessment as a method to assess patients' needs and age-related risk factors
- epidemiology of associated conditions among the elderly, concept of poly-pathology and poly-pharmacy; medication reconciliation principles
- frailty and methods to assess it
- medico-legal principles applied to geriatric care

Educational sessions 6-10 will focus on perioperative care and will include

- preoperatively:
 - how to manage preoperative evaluation in the elderly, from clinical and functional assessment to sensorial and cognitive assessment; possible obstacles in communication and comprehension
 - decision-making about surgery in the respect of patients' preference and existential perspective
 - limits of the traditional preoperative consultation based on physical examination and clinical history; need for functional evaluation and individuation of age-related risk factors
 - preoperative multidisciplinary discussion about patients risk factors and team-organized preventive strategies
 - preoperative optimization including management of risk factors for postoperative delirium and prevention of adverse drug events
 - increase in functional reserves through physical prehabilitation, correction of malnutrition and psychological support (mostly in case of depression and major surgery)
 - criteria for decision-making about surgery, patient information, communication and informed consent in cognitively impaired patients, preoperative optimization and preparation to surgery
- intraoperatively:
 - measures aimed to reduce anxiety at the entrance in the operating room
 - risk related to patients positioning on the operating table



- techniques of anaesthesia and surgery in the elderly
- optimal intraoperative care, prevention of hypothermia, haemodynamic management and principles of Goal Directed Therapy
- measures aimed to reduce surgical stress response
- safety in the operative room
- immediate and intermediate postoperative recovery, delirium detection in the PACU, postoperative pain treatment
- how to individuate the optimal postoperative setting
- handover principles in transition from a setting to another one
- criteria for admission to intensive care units
- postoperatively
 - principles of enhanced recovery after surgery (early mobilization and nutrition, optimal postoperative pain control, FKT, cognitive stimulation, reduced use of urinary catheters, prevention of geriatric syndromes) and role exerted by the different specialists involved in the care
 - optimal treatment and assessment of postoperative pain
 - management of postoperative delirium
 - postoperative nurses and their role in assessing patients' unmet needs
 - measures to reduce hospital stay and criteria for safe hospital discharge
 - planning for discharge, care transition organization, hospital discharge in practice and care continuity
 - principles of organization, clinical risk management, process control and cost/benefits analysis applied to geriatric surgery.

Intermediate and final assessment

After every session, the level of learning will be assessed in accordance with accredited criteria selected by different teachers, preferably through multiple answer tests.

Clinical competence will be assessed through case study analysis and discussion. Clinical practice will take place in public or private accredited hospitals, will be judged by educational tutors and will be based on the ability to evaluate and manage a surgical geriatric patient, to



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use specific tests, scales and scores and to make the right choice about different treatment options.

Obtaining the qualification will require successful exams and discussion of a final thesis on pertinent subjects. Thesis will be in double copy and on digital support (CD) in MS Words. Unsuccessful exam will only give the certificate of attendance, not the MSc qualification.

Venue

Ospedale di Stato of San Marino, Casale “la Fiorina” (San Marino), Private Accredited Hospital Villa Laura (Bologna), Azienda Ospedaliero Universitaria (University Hospital) of Ferrara and other Italian or European facilities recognized as appropriate for the development of clinical and scientific activities, included the capability to support students in the development of the final thesis.

Provided professional abilities:

Professionals who will have succeeded in attending the course and learning assessment will develop the following abilities:

- surgical risk assessment, comprehensive geriatric assessment, frailty measurement
- critical evaluation of the patient conditions in referral to the surgical treatment, regardless of both chronological age and ageism-inspired considerations
- indications, feasibility and limits of pre-habilitation techniques
- individuation of the best treatment for a given patient, in accordance with lifespan related to surgery, life expectancy and patient preferences, and in agreement with both literature evidence and ethics principles
- organizational abilities in designing and coordinating dedicated clinical paths for the elderly surgical patient.

Expected results:

- prevention and reduction of age-related postoperative complications, such as postoperative delirium, post-hospital syndromes and many others; reduced hospital stay, improved outcome and increased patients satisfaction
- reduction of associated costs for both in-hospital and post-discharge care
- consolidation of a multidisciplinary team-based and patient-focused culture, to be shared among the operators who deal with surgical care of the elderly.



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Accessibility and costs:

The Master is mostly addressed to surgeons, anaesthesiologists, geriatricians and nurses. Medical directors who have responsibilities in the management of surgical facilities for the elderly are also welcomed.

A full Medicine degree is requested to access to the course.

Master fees are 3000 Euros.

A maximum of 12 students will be accepted. A minimum number of 8 students is required.

Faculty:

The faculty is provided by the University of San Marino in copartnership with the Catholic University Sacro Cuore of Rome.

Stable members of the faculty are:

- Master Director:
 - Prof. Niccolò Scuderi (Italy)
- Master Educational Coordinators:
 - Prof. Gabriella Bettelli, University of San Marino
 - Prof. Antonio Crucitti, Catholic University, Rome (Italy)

Prominent national and international experts in geriatric surgical care will be enrolled as teachers in referral to specific topics.

Scientific Committee:

- Prof. Francesco Landi, Università Cattolica del Sacro Cuore - Presidente SIGG
- Prof. Flavia Petrini, Università di Chieti, Presidente SIAARTI
- Prof. Gabriella Bettelli, Università di San Marino
- Prof. Antonio Crucitti, Università Cattolica del Sacro Cuore
- Prof. Stefano Volpato, Università di Ferrara
- Prof. Stefania Maggi, CNR
- Prof. Alessandro Puziello, Università di Salerno - Presidente SICG
- Prof. Paolo Carcoforo -Ordinario Geriatria Università di Ferrara
- Prof. Graziano Onder, Associato Geriatria Università Cattolica del sacro Cuore
- Dr. Salvatore Casarano, Presidente AICO

COMITATO SCIENTIFICO ONORARIO



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- Prof. Massimo Antonelli, Direttore Dip. Anestesiologia Università Cattolica del Sacro Cuore
- Prof. Roberto Bernabei, Direttore Dip. Università Cattolica del Sacro Cuore
- Prof. Olle Ljungqvist, ERAS President, University of Orebro
- Prof. Frédéric Aubrun, Université de Lyon
- Prof. Riccardo Audisio, University of Orebro
- Dr. Francesco Vetta, Osp. Israelitico, Roma
- Prof. Sara Albolino, Clinical Risk Manager Regione Toscana

The Scientific Committee will meet (also by computer) to establish the educational program, timing of educational sessions and teachers selection.

Job opportunities

Those who will complete the one year course will reach competence and skills who are required in the daily clinical practice in geriatric surgery, mostly in the following specialty areas:

- cardiac surgery
- orthopaedics and ortho-geriatrics
- oncologic surgery
- ophthalmology
- outpatient and office-based surgery

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