



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

Master in Perioperative Perioperative Medicine of the Elderly Academic Year 2021-2022

Educational program and class schedule

Classes are held on Friday and Saturday, at the following times (CET): Friday: 10-13; 14-18; Saturday: 8-13

Starting from February, the first 10 minutes of the Friday teaching time will be reserved to the discussion of the learning evaluation tests

NB. Please note: Schedules may be altered in accordance with extemporary demands

Teaching Unit 1	Time and place	Educational targets	Teaching	Teachers	Time/day
Introduction to the Master	January 21-22	<ul style="list-style-type: none"> • Aging in the world • Aging and surgery • The aged patient: patho-physiological and clinical profile • Concept of multimorbidity, poly medication and frailty • An essential tool in geriatric medicine: Comprehensive Geriatric Assessment • Key concepts to take home 	Introduction to the master and welcome to participants	Scuderi Bettelli Crucitti Short interview to attenders	Friday 10-11
			Population ageing: demographic and epidemiological aspects in the different areas of the world	Onder	Friday 11-13
			Current state of geriatric surgery in Italy and other European and non-European countries	Crucitti	Friday 14-16
			Ageing processes and their impact on surgical treatment	Bettelli	Friday 16-18
			Comprehensive Geriatric Assessment: clinical and organizational aspects, possible obstacles, main aims	Bettelli	Saturday 8-9
			Associated conditions and multi-morbidity	Cucinotta	Saturday 9-11
			Frailty: diagnosis and implications on the surgical process	Aceto	Saturday 11-12.30
			Synthesis of the educational message	Aceto	Saturday 12.30-13



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Teaching Unit 2	Time and place	Educational targets	Teaching	Teachers	Time/day
Preliminary investigations and organizational measures	February 11-12	<ul style="list-style-type: none"> Pre-hospital admission: surgical evaluation and inputs to the care team Organization of the preoperative anaesthesia consultation Inputs on how and when to plan further consultations (geriatrician? others?) Medication reconciliation Team discussion and decision-making about surgery First care planning Key concepts to take home 	Role of surgeons, geriatricians, anaesthetists and nurses in taking charge of the older surgical patient	Crucitti Giarratano Onder Porretti	Monday 10.10-11
			Perioperative anaesthesia consultation and medication reconciliation: current European guidelines and quality indicators from the Coalition for Quality in Geriatric Surgery	Betelli/Aceto/Vetta/Bizzarro	Friday 11-13
			Evaluation of functional reserves and prehabilitation plan	Volpato	Friday 14-16
			Cognitive and emotional evaluation: clinical assessment and legal implications	Onder	Friday 16-18
			Sensorial evaluation and targeted communication strategies	Volpato	Saturday 8-9
			Preoperative tests and scores for surgical risk evaluation	Teacher to be defined	Saturday 9-11
			Team discussion, decision making about surgery, informed consent, first care plan	Crucitti Volpato Betelli	Saturday 11-12.30
			Synthesis of the educational message	Betelli	Saturday 12.30-13

Teaching Unit 3	Time and place	Educational targets	Teaching	Teachers	Time/day
Preparation to surgery	March 11-12	<ul style="list-style-type: none"> Pillars of preoperative optimization Cardiac, respiratory and nutritional prehabilitation Management of cognitively impaired patients Psychological and social support 	Cardiac and respiratory prehabilitation	Scapigliati	Friday 10.10-12
			Diagnosis and treatment of malnutrition	Volpato	Friday 12-13 14-15
			Cognitive complications prevention	Betelli	Friday 15-17
			Emotional status evaluation and perioperative psychological and social support	Trabucchi	Friday 17-18
			Preoperative nursing	Porretti	Saturday 8-10
			Emergency surgery: abdominal trauma, bowel obstruction, peritonitis	Sganga	Saturday 10-12.30



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	<ul style="list-style-type: none"> Management of emergency surgery in the elderly Key concepts to take home 	Musculo-skeletal traumatic lesions	Ortopaedist to be defined	Saturday 12.30-13
		Synthesis of the educational message	Bettelli	

Teaching Unit 4	Time and place	Educational targets	Teaching	Teachers	Time/day
General aspects of geriatric surgery and principles for appropriate Intraoperative management	April 8-9	<ul style="list-style-type: none"> How to support and safely treat an older patient entering the OR What older patients can reasonably expect from surgery at the beginning of the third millennium How to monitor vital functions in the aim of preventing postoperative complications How to reduce surgical stress response Key concepts to take home 	Entering the operative theatre: practical implications of WHO Safety Checklist and methods to reduce emotional discomfort	Bettelli	Friday 10.10-12
			Surgery in the elderly: feasibility, future perspectives, alternative options, palliative care, patients' empowerment	Avenia	Friday 12-13
			Anesthesia techniques for the older patient: drugs, methods, techniques, myths and fakes	Teacher to be defined	Friday 14-17
			Nursing measures aimed to ensure patients' comfort and safety	Casarano	Friday 17-18
			Intraoperative fluids administration and haemodynamic equilibrium	Bettelli	Saturday 8-9
			Targeted intraoperative cerebral, haemodynamic and thermometric monitoring	Aceto	Saturday 9-11
			Pathophysiology of surgical stress response and methods to reduce its impact	Bettelli	Saturday 11-12.30
			Synthesis of the educational message	Bettelli	12.30-13

Teaching Unit 5	Time and place	Educational targets	Teaching	Teachers	Time/day
Core topics in surgical specialties	May 13-14	<ul style="list-style-type: none"> Orthopaedics Cardiac and vascular Thoracic Abdominal Urologic Endocrine Plastic Ambulatory 	Orthopaedics surgery: from hip fracture to rehabilitative surgery	Maccauro	Monday 10.10-11
			Cardiac and vascular surgery (CABG, aortic aneurism, peripheral vessels alterations), from open to minimally invasive techniques	Massetti	Friday 11-13
			Thoracic surgery	Margaritora	Friday 14-15
			Abdominal oncologic and non-oncologic surgery	Alfieri	Friday 16-17



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	<ul style="list-style-type: none"> Key concepts to take home 	Urologic oncologic and non-oncologic surgery	Racioppi	Saturday 17-18
		Endocrine surgery	Lombardi	Saturday 8-9
		Plastic surgery	Scuderi	Saturday 9-10
		Ambulatory surgery: feasibility and limits in older patients	Palumbo/Bettelli	Saturday 11-12.30
		Synthesis of the educational message	Crucitti	12.30-13

Teaching Unit 6	Time and place	Educational targets	Teaching	Teachers	Time/day
Postoperative management	June 17-18	<ul style="list-style-type: none"> PACU: a critical step to understand how to manage postoperative care Keys to succeed in postoperative analgesia in older patients Team-based strategies to prevent postoperative complications Septic postoperative complications in the elderly A silent revolution named ERAS Key concepts to take home 	The older patient in the Post Anesthesia Care Unit	Della Sala	Friday 10.10-11
			Postoperative analgesia: pain assessment, analgesia techniques	Pace	Friday 11-13
			Proactive prevention of cardiac, respiratory, cognitive and thromboembolic complications: what surgeons can do	Carcoforo	Friday 14-15
			Proactive prevention of cardiac, respiratory, cognitive and thromboembolic complications: what anesthesiologists can do	Bettelli	Friday 15-16
			Surgical sepsis in the older patient	Sganga	Friday 16-17
			Fast-track and ERAS based approach	Crucitti	Saturday 8-11
			Postoperative nursing	Porretti	Saturday 11-12.30
			Synthesis of the educational message	Crucitti	12.30-13



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Teaching Unit 7	Time and place	Educational targets	Teaching	Teachers	Time/day
Treatment and management of postoperative complications	September 16-17	<ul style="list-style-type: none"> How to manage a delirious patient: monitoring, non-pharmacological and pharmacological treatment How to treat cardiac and respiratory postoperative complications The older patient in the ICU Toward the hospital discharge: how to reduce postoperative functional impairment and postoperative geriatric syndromes Key concepts to take home 	Postoperative cognitive complications	Bettelli	Friday 10.10-11
			Cardiovascular complications	Boccanelli	Friday 11-13
			Respiratory complications	Antonelli	Friday 14-16
			Thromboembolic complications	De Cristofaro	Friday 16-18
			Renal and urinary postoperative complications in the older surgical patient	Panocchia	Saturday 8-9
			The older surgical patient in the ICU: indications, management, discharge, outcome	Antonelli	Saturday 9-11
			Postoperative geriatric syndromes: incidence, prevention and outcome	Volpato	Saturday 11-12.30
			Synthesis of the educational message	Bettelli	12.30-13

Teaching Unit 8	Time and place	Educational targets	Teaching	Teachers	Time/day
Hospital discharge and care continuity	October 14-15	<ul style="list-style-type: none"> How to organize hospital discharge after geriatric surgery How to plan care continuity and transitional care How to reduce the "sliding doors" phenomenon How to keep these aspects under control 	Planning for discharge and methods to keep hospital readmissions under control	Volpato	Friday 10.10-12
			Care continuity and transitional care	Landi	Friday 11-13 14-15
			Management of infectious emergencies concurrent with surgery	Sganga	Friday 15-16
			Synthesis of the educational message	Bettelli	Friday 16-16.30
			Early learning review (preliminary presentation and discussion of the master thesis projects)	Scientific coordinators and Master attenders	Friday 16.30-18



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		<ul style="list-style-type: none"> How to conceive and succeed with a master thesis Key concepts to take home 	Early learning review (preliminary presentation and discussion of the master thesis projects)	Scientific coordinators and Master attenders	Saturday 8-13
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Teaching Unit 9	Time and place	Educational targets	Teaching	Teachers	Time/day
Organizational aspects	November 11-12	<ul style="list-style-type: none"> Different organizational solutions for geriatric surgery Hospital design as key elements to ensure optimal activities flow, safety and comfort How doctors and nurses should interact with the Top Management in view of a new construction/refurbishment of existing hospitals Key concepts to take home 	Organizational models for geriatric surgery	Bettelli	Friday 10.10-12
			Building and maintaining a multidisciplinary work team	Bettelli	Friday 12-13
			Hospital design for geriatric surgery: principles, standards and examples	Costantini	Friday 14-18
			Safety, ergonomics, fall prevention and clinical risk management	Costantini	Saturday 18-10
			Quality standards and customer perceived quality in geriatric surgery	Bettelli	Saturday 10-12.30
			Synthesis of the educational message	Bettelli	Saturday 12.30-13

Teaching Unit 10	Time and place	Educational targets	Teaching	Teachers	Time/day
	December 9-10	<ul style="list-style-type: none"> How to realize a dedicated clinical path for geriatric surgery in a hospital How to plan related activities in line with advanced international quality principles 	Design and implementation of a dedicated clinical path for geriatric surgery	Crucitti	Friday 10.10-12
			Inputs from the Coalition for Quality in Geriatric Surgery	Di Lorenzo	Friday 11-13
			Learning verification tests discussion	Scientific coordinators and Master attenders	Friday 14-14.10
			Final learning review (short presentation of the master thesis projects)	Scientific coordinators and Master attenders	Friday 14.10-18



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		<ul style="list-style-type: none">• Master's thesis official discussion and graduation	Master's thesis official discussion and graduation	Scientific coordinators and Master attenders	Saturday 8-13
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