



MEDICINE AND SURGERY DEPARTMENT

Master's General Information

Master Title	Interventional Electrophysiology
Level	2° Level
Director	Professor Carlo Pappone
Academic Year	2025/2026
Duration	12 months
CFU (ECTS)	60 CFU
Language	English/Italian
Admission Requirements	Master's Degree in Medicine and Surgery, with qualification to practice the profession.
Preferred Titles	Best suited candidates hold a specialization in Cardiology or similar fields and they hold a <u>basic knowledge of Electrophysiology and Pacing.</u>
Learning Objectives	<p>The management and treatment of atrial and ventricular arrhythmias represent a complex area of cardiac electrophysiology.</p> <p>Some atrial arrhythmias, particularly atrial fibrillation (paroxysmal or persistent) and atrial flutter, are the most frequently observed arrhythmias in the adult population. In younger individuals, the most common arrhythmias are reentrant circuits (atrioventricular and atrioventricular node). Medical therapy often fails to control arrhythmic episodes and, for this reason, intervention with electrical therapy (transcatheter ablation) is required.</p> <p>Ventricular arrhythmias, on the other hand, are less common in the young population and are mainly characterized by automaticity phenomena. In adults, these ventricular arrhythmias are mostly due to reentrant mechanisms, especially in patients with preexisting heart diseases. These arrhythmias require prompt intervention because they may pose a danger to the individual. Intensive care may be necessary before and after the procedure.</p> <p>The procedural model for advanced treatment of patients with ventricular tachycardia involves a complex organization together with other specialists such as cardiac anesthetists, imaging support (radiology), and in some cases also cardiac surgeons. Therefore, the treatment of ventricular arrhythmias includes both a pharmacological approach and, in specific cases, an interventional approach.</p> <p>This interventional approach, for both atrial and ventricular arrhythmias, is the prerogative of major hospital centers as it requires high expertise from the entire team as well as dedicated equipment such as mapping systems and, in specific cases, hemodynamic support. The complexity of the</p>

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	<p>procedure is therefore significant and requires both technical and cultural training in electrophysiology.</p> <p>The Master's program trains professionals to perform complete management and best practice care for patients with arrhythmias, ranging from correct interpretation of electrocardiograms to interrogation and programming of devices such as defibrillators, as well as management of the electrophysiology lab. The electrophysiologist must be able to select the best materials for the procedure, plan the strategy to perform ablation treatment, and skillfully interpret information from intracardiac signals.</p> <p>This Master's program is intended as a hyper-specialized continuation after the training path of the Cardiology Residency, capable of providing adequate technical and clinical training for professionals who may become key figures in Interventional Cardiology Centers both in Italy and abroad.</p> <p>The activation of this Master arises from the need to adapt academic training and maintain high quality in healthcare services nationally as well as internationally.</p>
Employment Sector of reference	The Master is aimed at doctors, with particular attention to specialists in Cardiology and similar fields, which hold a proven experience in electrophysiology.
Delivery Mode	Blended (full-time)
Learning Activities' Structure	<p><u>Frontal Teaching</u> activities (23 ECTS) include a combination of theoretical-practical lessons, journal clubs, and joint interventional meetings; these will be conducted in person, full-time, according to a schedule that will be defined by the Director at the start of the Master's program.</p> <p><u>Practical</u> activities and <u>internship</u> (for a total of 27 ECTS) will be conducted in person, following the methods and timing agreed upon with the Master's Director and tutors, and will include activities in the lab, ward, and outpatient clinic.</p> <p>At the end of the program, a theoretical/practical exam is planned in order to comprehensively assess the candidate, both theoretically and practically, using material from acquired case studies. Additionally, students will be required to prepare a written thesis (10 ECTS).</p>
Attendance	Mandatory
Available Spots	2
Minimum enrolled students to activate the master	1
Selection modality	<p>Admission to the Master will depend on both an Academic and Professional Title evaluation.</p> <p>Professional evaluation will pertain to the candidate's skills on electrophysiological procedures. The candidate must be autonomous in performing studies on the left sections of the heart.</p> <p>Each candidate can be awarded a <u>maximum score of 20 points</u>, distributed as follows:</p>



	<ul style="list-style-type: none">• Academic and professional curriculum (including specialization in Cardiology and related fields): up to 10 points;• Logbook proving > 25 electrophysiological studies and/or 30 pacemaker implants: up to 5 points;• Relevant scientific publications: up to 5 points. <p>For the evaluation of qualifications, a <u>minimum score of 10 points</u> is set, below which the candidate may be deemed unsuitable for attending the Master's program.</p> <p>If the number of candidates deemed suitable based on the evaluation exceeds the number of available spots (2), an interview will be conducted. In this case, the maximum score assignable for the individual interview will be <u>10 points</u>.</p> <p>The maximum score including the interview is <u>30 points</u>.</p> <p>A <u>minimum score of 15 points</u> (including the interview) is set, below which the candidate may be deemed unsuitable for attending the Master's program. Based on the evaluation and the possible interview, a merit ranking will be published.</p> <p>Candidates who do not attend the interview will not be included in the ranking.</p>
Admission deadline	February 1st, 2026
Enrollment fee	15.000 Euros <ul style="list-style-type: none">- The amount can be paid in a single payment upon enrollment or in two installments, divided as follows: 10,000 euros upon registration; 5,000 euros within 6 months since the beginning of the Master.
Master kick off	Starting from March 9th, 2026
Administrative HQ	Università Vita-Salute San Raffaele, Via Olgettina, 58, Milano
Venue	Teaching activities will take place at the Arrhythmology Department of San Raffaele Hospital – Auditorium Hall and Electrophysiology Rooms (ground floor, sector Q).