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Università Vita-Salute
San Raffaele

MASTER DI II LIVELLO

Valvular Heart Disease: Decision-Making, Multimodality Imaging, and Surgical and Interventional Approaches

STUDY PLAN

Aortic Valve and Aorta

TEACHING	HOURS	ECTS
Functional Anatomy of the Aorta and Aortic Root	3	1
Aortic Valve Disease: Diagnosis, Timing, Strategy	3	1
Multimodality Imaging of the Aorta	3	1
Surgical Treatment of Aortic Valve Disease: Contemporary Strategies for Aortic Valve and Root Management	3	1
TAVI: Patient Selection and Limitations	3	1
TAVI: alternative access, aortic dissection, aortopathy, perivalvular leak	3	1
Coronary disease and aortic stenosis	3	1

Mitral Valve

TEACHING	HOURS	ECTS
Functional Anatomy of the Mitral Valve and Mitral Apparatus	3	1
Degenerative Mitral Regurgitation: Diagnosis, Mechanisms, and Surgical Repairability	3	1
Functional Mitral Regurgitation: Medical Therapy, Surgical Options, and Transcatheter Approaches	3	1
Surgical Mitral Repair Techniques	3	1
Transcatheter Mitral Therapies	3	1
Heart Failure: Pathophysiology, Diagnosis, Phenotyping, and Risk Stratification	3	1
Heart Failure: Evidence-Based Therapy, Advanced Treatments, and Long-Term Management	3	1
Failed Mitral Therapy	3	1

Tricuspid Valve

TEACHING	HOURS	ECTS
Functional Anatomy of the Tricuspid Valve and Tricuspid Apparatus	3	1
Tricuspid Valve Disease: Current Relevance, Diagnosis and Therapy	3	1



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Right Ventricle Function and Pulmonary Circulation	3	1
Surgical Tricuspid Valve Therapy	3	1
Transcatheter Tricuspid Interventions	3	1

Imaging core

TEACHING	HOURS	ECTS
Advanced Echocardiography for Structural Disease	3	1
Cardiac CT for Structural Planning	3	1
Cardiac MRI: When It Changes Management	3	1

Management e innovazione

TEACHING	HOURS	ECTS
Integrated care and strategies in the Heart Team	3	1
Real-World Heart Team Dynamics	3	1
Risk Stratification Beyond Scores	3	1
Artificial Intelligence in Valvular Disease	6	2
Innovation in Medtech: doctors, engineers and industry	3	1
A day with a corporate (Edwards)	3	1
A day with a corporate (Medtronic)	3	1
A day with a corporate (Siemens)	3	1
A day with a corporate (Abbott)	3	1
A day with a start up	3	1
Business and management models	3	1
Totale docenza frontale	105	35

Other activities	ECTS
Clinical case discussions	5
Practical training	10
Final Project	10