



Francesco Raffaele Spera

WORK EXPERIENCE

15/02/2021 – 28/02/2023

CARDIOLOGIST IN THE ARRHYTHMIA UNIT POLICLINICO AGOSTINO GEMELLI

I have performed as first operator in my career more > 350 AF ablation procedure, > 150 VT/PVC ablation procedure, > 50 accessory pathway procedure, > 100 Av nodal reentry procedure, > 200 EP study.

Regarding cardiac device I have performed as first operator > 300 Pacemaker, > 300 Intracardiac Defibrillator, > 150 Cardiac resynchronization therapy, > 50 His and LBB PM, > 20 extraction lead procedures.

08/04/2022 – CURRENT

CONSULTANT FOR BOSTON SCIENTIFIC FOR AF ABLATION AND LBBB PACING

- Advise and assist Boston Scientific with respect to its ongoing work; Electrophysiology and Electrostimulation
- Prepare, develop, update, review and provide scientific articles reports and/or clinical cases (i.e. summary of a case conducted by Consultant within its/his/her usual practice) related to the products distributed by Boston Scientific (within approved indications), which may be published and/or used, whether internally or externally, at Boston Scientific's discretion, including without limitation on Boston Scientific's EDUCARE platforms and websites; Electrophysiology and Electrostimulation
- Attend medical educational and/or scientific meeting(s) with person(s) or party(ies) specified by Boston Scientific at place(s) and time(s) designated by Boston Scientific, and provide written report(s) or documentation (e.g. presentation, summarize) evidencing the performed activities related to the following services Electrophysiology and Electrostimulation
- Provide live, virtual, recorded or broadcasted training course(s) for Boston Scientific employee(s) and/or fellow Health Care Professionals at the place(s) and time(s) established in advance by Boston Scientific; Electrophysiology and Electrostimulation. Training materials developed by the Consultant in collaboration between the Consultant and Boston Scientific to support these training courses may be used or published internally or externally by Boston Scientific, including on the Boston Scientific EDUCARE platform and websites, and Consultant hereby consents to these uses of the materials.
- Provide advice on available technologies on the market as well as market trends; Electrophysiology and Electrostimulation

01/11/2022 – CURRENT

CONSULTANT FOR BIOTRONIK FOR LBBB PACING

Provide live, virtual, recorded or broadcasted training course(s) for fellow Health Care Professionals at the place(s) and time(s) established in advance by Biotronik

30/11/2018 – 14/02/2021

FULLTIME FELLOWSHIP IN CARDIAC ELECTROPHYSIOLOGY UZA HOSPITAL, UNIVERSITY OF ANTWERP

Clinical Fellowship in electrophysiology at University of Antwerp under supervision of Prof. H. Heidbuchel and Prof. A. Sarkozy

15/02/2021 – CURRENT

TRAINER IN CARDIAC ELECTROPHYSIOLOGY AND DEVICE IMPLANT FOR YOUNG CARDIOLOGIST AND EP FELLOW POLICLINICO AGOSTINO GEMELLI

I'm involved in lesson about EP and Cardiac device for Cardiologist in training in our university Hospital, and I help young EP fellow to learn and improve their skills during all the EP procedures in our EP lab. Furthermore I do lesson related to the arrhythmias management during the Master in Intensive care organized by our hospital.

30/11/2014 – 30/11/2019

RESIDENCY IN CARDIOVASCULAR MEDICINE POLICLINICO AGOSTINO GEMELLI

November 2017 – November 2018: I have spent this time in the EP lab of my University (Sacred Heart, Rome – Italy) - under Dr. Gemma Pelargonio - where I have been trained in performing conventional EP studies, ventricular mapping with the entire CARTO Suite (Biosense, Diamond Bar, CA – Johnson&Johnson) and with Carto Sound TM and PPM / ICD implantation as first operator and in ablation procedures (AF, AT, SVT, VT), CRT-D/CRT-P implantation, lead extractions and endomyocardial biopsy as secondoperator.

August 2017 – November 2017: I spent this time in the cath lab of my University (Sacred Heart, Rome – Italy). I performed 50 coronary angiograms as first operator and I was involved in more than 100 angioplasty as second operator. November 2016 – July 2017: I worked as SpR in CCU and Cardiology wards at Policlinico Gemelli – Rome where I was involved in treating end stage heart failure, acute coronary syndromes and arrhythmias.

November 2015 – October 2016: I worked in the Echocardiography lab at Policlinico Gemelli - Rome, an hospital with more than 1000 beds, where I performed more than 500 transthoracic echocardiogram, and 30 transesophageal echocardiogram, and more than 1000 Exercise Electrocardiogram Treadmill Heart Test and I interpreted more than 1000 Holter EKG records

01/03/2023 – CURRENT Rome, Italy

CARDIOLOGIST IN THE ARRHYTHMIA UNIT SANT' ANDREA HOSPITAL

Performing simple and complex cardiac ablation (AF, atrial flutter and VT ablation), and cardiac device implantation (PM/ICD, CRT, LBB area pacing)

● **EDUCATION AND TRAINING**

31/08/2002 – 30/06/2007 Margherita di Savoia, Italy

HIGH SCHOOL DEGREE Liceo Scientifico “Aldo Moro”

31/08/2007 – 17/07/2013 Rome, Italy

MEDICAL SCHOOL Catholic University of the Sacred Heart

Address Largo Francesco Vito, 8, 00168, Rome, Italy | **Field of study** Medicine | **Final grade** Graduation in Medicine and Surgery |

Thesis Effect of smoking on endothelium-independent vasodilatation.

31/01/2014 – CURRENT Rome, Italy

PROFESSIONAL HABILITATION IN MEDICINE AND SURGERY Catholic University of the Sacred Heart,

Address 00168, Rome, Italy | **Field of study** Medicine | **Final grade** 18/7/2013 Graduation in Medicine |

Thesis Effect of smoking on endothelium-independent vasodilatation.

30/11/2018 – 14/02/2021 Belgium

FULLTIME FELLOWSHIP IN CARDIAC ELECTROPHYSIOLOGY UZA Hospital, University of Antwerp

30/11/2020 – CURRENT

EHRA CERTIFICATION IN ELECTROPHYSIOLOGY SPECIALIST EHRA

30/04/2021 – CURRENT

EHRA CERTIFICATION IN ELECTROPHYSIOLOGY SPECIALIST II LEVEL EHRA

10/12/2021 – 10/12/2021 Rome, Italy

4 HOUR TEACHING IN THE ITALIAN II DEGREE INTENSIVE CARE MASTER (" CARDIOVASCULAR EMERGENCY") Catholic University of Rome

15/09/2022 – 15/09/2022 Rome, Italy

4 HOUR TEACHING IN THE ITALIAN II DEGREE INTENSIVE CARE MASTER (" CARDIOVASCULAR EMERGENCY") Catholic University of Rome

● **LANGUAGE SKILLS**

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
DUTCH	B1	B1	B1	B1	B1
FRENCH	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **DIGITAL SKILLS**

Microsoft Word | Microsoft Powerpoint | Microsoft Excel | Zoom | Google Drive | SPSS11, | Graph pad for graph analysis

● **PUBLICATIONS**

2022
European Society of Cardiology guidance for the diagnosis and management of cardiovascular disease during the COVID-19 pandemic: part 1-epidemiology, pathophysiology, and diagnosis. Task Force for the management of COVID-19 of the European Society of Cardiology.

Task Force for the management of COVID-19 of the European Society of Cardiology.

10.1093/eurheartj/ehab696.

2022
ESC guidance for the diagnosis and management of cardiovascular disease during the COVID-19 pandemic: part 2-care pathways, treatment, and follow-up.

Task Force for the management of COVID-19 of the European Society of Cardiology.

10.1093/eurheartj/ehab697.

Ultra-high-resolution assessment of lesion extension after cryoballoon ablation for pulmonary vein isolation.

doi: 10.3389/fcvm.2022.985182. PMID: 36439999; PMCID: PMC9681817.

2022
Reproducibility and predictive value of a simple novel method to measure atrial fibrillation cycle length in persistent atrial fibrillation - FARS-AF study

10.1111/jce.15401

2020
[**Electrophysiology Key Reference Library Publications classified by topic in the field of cardiac pacing and electrophysiology**](#)

Add a description here...This Key Reference Library was commissioned by the EHRA Education Committee. References were selected by members of the EHRA Young EP committee, and subsequently reviewed (and partially revised) by the members of the Education Committee. As such, the selection of references and short summaries are subjective and make no claim to be complete or fully inclusive in any way.

This document is dynamic in that any EHRA Member may suggest correcting, adding or replacing references and / or descriptions. These suggestions will be reviewed on a regular basis by the EHRA Education Committee. Feel free to write to EHRA@escardio.org

This key reference library is based on the [EHRA Core Curriculum for the Heart Rhythm Specialist](#). One of its aim is to provide a guide for the ones who planned to seat the EHRA Certification Exams . It includes more than 400 references

It is the result of the collaboration of 3 EHRA Committees: the Education, the Certification- and the Young EP Committees.

2021

Sex Difference in Catheter Ablation of Idiopathic Ventricular Arrhythmias and Ventricular Arrhythmias Associated with Structural Heart Disease

NLM: 101721428

2019

Dormant Conduction: It Is Time to Wake Up.

10.1016/j.jacep.2019.02.005.

2022

Etiology and Outcome of Catheter Ablation in Patients With Onset of Atrial Fibrillation <45 Years of Age

10.1016/j.amjcard.2021.11.030

2021

Redo accessory pathway ablation in the pediatric population

10.1007/s10840-021-01064-1

2015

Effect of smoking on endothelium-independent vasodilatation.

10.1016/j.atherosclerosis.2015.03.041

2017

Primary Stable Microvascular Angina: A Long-Term Clinical Follow-Up Study.

10.1161/CIRCULATIONAHA.117.027685.

2019

Prognostic significance of non-sustained ventricular tachycardia on stored electrograms in pacemaker recipients

10.1371/journal.pone.0225059

2017

Six-Year Outcome of Subjects Without Overt Heart Disease With an Early Repolarization/J Wave Electrocardiographic Pattern.

10.1016/j.amjcard.2017.08.028

2021

The potential impact of acute coronary syndromes on automatic sensing system in Subcutaneous-ICDs.

10.1016/j.ijcha.2021.100841

2018

Microvascular ischemia in patients with successful percutaneous coronary intervention: effects of ranolazine and isosorbide-5-mononitrate.

10.26355/eurrev_201810_16070.

2022

Catheter Ablation of Atrial Fibrillation in Patients with Previous Lobectomy or Partial Lung Resection: Long-Term Results of an International Multicenter Study

<https://doi.org/10.3390/jcm11061481>

2020

Sex and Cardiac Electrophysiology Book for Elsevier

Differences in Cardiac Electrical Disorders Between Men and Women.

Chapter 58. Mapping and catheter ablation of idiopathic ventricular arrhythmias

Hardcover ISBN: 9780128177280

2022

L'ECG re-Interpretato seguendo l'ElettroCardiologia di Precisione Approccio Clinico Multidisciplinare

Chapter. Elettrocardiografia di genere

2022

Short-Term Atrioventricular Dysfunction Recovery after Post-TAVI Pacemaker Implantation

Add a description here...

doi: 10.3390/jcdd9100324. PMID: 36286276; PMCID: PMC9604573.

2022

Automated conduction velocity estimation based on isochronal activation of heart chambers.

J Interv Card Electrophysiol. 2023 Apr;66(3):647-660. doi: 10.1007/s10840-022-01339-1

Atrioventricular conduction in PM recipients after transcatheter aortic valve implantation: Implications using Wenckebach point measurement.

Add a description here...

doi: 10.3389/fcvm.2022.904828. PMID: 35935649; PMCID: PMC9353552.

2022

Successful ventricular tachycardia radioablation in a patient with previous chemical pleurodesis: A case report.

doi: 10.3389/fcvm.2022.937090. PMID: 35924213; PMCID: PMC9339650.

A new prediction model for left ventricular systolic function recovery after catheter ablation of atrial fibrillation in patients with heart failure: The ANTWOORD Study.

Int J Cardiol. 2022 Jul 1;358:45-50. doi: 10.1016/j.ijcard.2022.04.040. Epub 2022 Apr 17

2022

Characterization of Atrial Substrate to Predict the Success of Pulmonary Vein Isolation: The Prospective, Multicenter MASH-AF II Study

J Am Heart Assoc. 2022;11:e027795. DOI: 10.1161/JAHA.122.027795

2022

The Electrocardiographic Features of Exercise-Induced Arrhythmogenic Cardiomyopathy are Similar To Those in Genetic Arrhythmogenic Cardiomyopathy - A Retrospective Observational Study.

Frontiers Cardiovascular Medicine_Article in press

2022

European Society of Cardiology guidance for the diagnosis and management of cardiovascular disease during the COVID-19 pandemic: part 1-epidemiology, pathophysiology, and diagnosis.

Cardiovasc Res. 2022 May 6;118(6):1385-1412. doi: 10.1093/cvr/cvab342.

2022

ESC guidance for the diagnosis and management of cardiovascular disease during the COVID-19 pandemic: part 2-care pathways, treatment, and follow-up.

Cardiovasc Res. 2022 Jun 22;118(7):1618-1666. doi: 10.1093/cvr/cvab343.

2023

Clinical Impact of Cardiac Fibrosis on Arrhythmia Recurrence after Ablation in Adults with Congenital Heart Disease.

J Cardiovasc Dev Dis. 2023 Apr 13;10(4):168. doi: 10.3390/jcdd10040168.

2023

Anterior mitral line in patients with persistent atrial fibrillation and anterior scar: A multicenter matched comparison-The MiLine study.

Heart Rhythm. 2023 May;20(5):658-665. doi: 10.1016/j.hrthm.2023.01.009.

2023

Ventricular tachycardia ablation through radiation therapy (VT-ART) consortium: Concept description of an observational multicentric trial via matched pair analysis.

Front Cardiovasc Med. 2023 Feb 27;10:1020966. doi: 10.3389/fcvm.2023.1020966. eCollection 2023.

2023

Mechanisms, prevalence and management of cardiac arrhythmias in cancer patients: a comprehensive review

Future Cardiol . 2023 Nov;19(14):707-718. doi: 10.2217/fca-2023-0086.

2023

Atrial fibrillation ablation in patients with arrhythmia-induced cardiomyopathy: a prospective multicentre study

ESC Heart Fail . 2023 Oct;10(5):3055-3066. doi: 10.1002/ehf2.14448. Epub 2023 Aug 18.

Gender-Related Differences in Atrial Substrate in Patients with Atrial Fibrillation

Am J Cardiol . 2023 Sep 15;203:451-458.

2023

Dynamic changes of left atrial substrate over time following pulmonary vein isolation: the Progress-AF study

Europace . 2023 Nov 2;25(11):euad299.

2024

Atrial Fibrillation in Patients with Hypertrophic Cardiomyopathy and Cardiac Amyloidosis: From Clinical Management to Catheter Ablation Indication

J Clin Med . 2024 Jan 16;13(2):501. doi: 10.3390/jcm13020501.

2024

Post-COVID Postural Orthostatic Tachycardia Syndrome and Inappropriate Sinus Tachycardia in the Pediatric Population

Curr Clin Micro Rpt (2024). <https://doi.org/10.1007/s40588-024-00217-w>

● PROJECTS

14/11/2021

Co-PI in SMART registry sponsored by Boston Scientific

31/08/2021 – CURRENT

Co-PI in Socrates Study sponsored by Boston Scientific

POLYMORPHIC PREMATURE ATRIAL CONTRACTIONS (PACs) MAPPING, ABLATION AND TERMINATION: INSIGHTS FROM ITALIAN EXPERIENCE

White paper marketing proposal for Boston Scientific

**Use of the novel PolarX™ Cryoballoon combined with the Rhythmia HDx™ mapping system in the
Context of Paroxysmal Atrial Fibrillation: Safety and efficacy**

White paper marketing proposal for Boston Scientific

Roma 18/03/2025

A handwritten signature in black ink, appearing to read "Sp. Sc. A/A", is positioned below the date.