

CV Francesco Musumeci MD, FECTS

Name: Francesco Musumeci MD, FECTS

Office Cardiac Center

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Via Tricomi 5

00127 Palermo, Italy

Education

1977	MBBS	Medicine, Surgery	Palermo University Medical School, Italy
1982	Specialist	General Surgery	Catania University Medical School, Italy
1987	Specialist	Cardiac Surgery	Catania University Medical School, Italy

Postdoctoral Training

1977-1979	House Surgeon	General Surgery	Department of Pediatric Surgery, University Hospital, Palermo, I
1980	Clinical Fellow	Pediatric Cardiac Surgery	Royal Liverpool Children's Hospital, Liverpool, UK
1981-1982	Senior House Officer	Cardiac Surgery	Ospedale Molinette, Torino, I
1/1983	Registrar	Cardiac Surgery	Ospedale Civico, Palermo, I
11/1983	Senior House Officer to Mr J. Stark	Cardiac Surgery	Sick Children's Hospital, London, UK

5/1984	Registrar to Mr D. Ross and Mr M Yacoub	Cardiac Surgery	National Heart Hospital, London, UK
1/1986	Clinical Fellow/ Registrar to Mr C. Lincoln	Cardiac Surgery	Brompton Hospital, London, UK
10/1986	Senior Registrar to Mr J. Wright	Cardiac Surgery	London Chest Hospital, London, UK
8/1987	Senior Registrar to Prof. Magdi Yacoub	Cardiac Surgery	Harefield Hospital, London, UK
9/1990	Senior Registrar to Mr M. DeLeval	Cardiac Surgery	Sick Children's Hospital, London, UK
1/1991	Clinical Fellow to Dr R. Mee	Cardiac Surgery	Royal Children's Hospital, Melbourne, Australia

Academic Appointments

1998-2004	Teacher	Cardiac Surgery	Palermo Medical School, Degree in Cardiology, Palermo, I
2011-2016	Teacher	Cardiac Surgery	Campus Bio-Medico Medical School, Degree in Cardiology Rome, I
2016-2023	Assistant Professor	Cardiac Surgery	Campus Bio-Medico Medical School, Degree in Cardiac Surgery, Rome, I

Appointments at Hospitals/Affiliated Institutions

4/1991-8/1998	Consultant Cardiac Surgeon	University Hospital of Wales, Cardiff, Wales, UK
9/1998-8/2023	Head and Director of Cardiac Surgery and Cardiac Transplantation, Director of Minimally Invasive, Robotic	Osedale S. Camillo, Rome, I

and Trans-catheter surgery program

9/2023-Present	Senior Consultant in Cardiac Surgery	UPMC – ISMETT, Palermo, I
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Other Professional Positions

2010-2016	Consultant Minimally Invasive Cardiac Surgery	Campus Bio-Medico Medical School, Rome, I
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Major Administrative Leadership Positions

1999-2023	Director Department of Cardio-Thoraco-Vascular Medicine	Ospedale S. Camillo, Rome, I
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2015-2016	Vice-President SICCH	SICCH (Società Italiana di Cardiochirurgia)
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2017-2018	President SICCH	SICCH (Società Italiana di Cardiochirurgia)
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2018-2022	Vice-President Foundation	Fondazione Cuore Domani (SICCH)
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2023-2025	President Foundation	Fondazione Cuore Domani (SICCH)
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Committee Service

2008-2009	Member Committee for “Criteri di appropriatezza clinica, tecnologica e strutturale nell'assistenza alle malattie del sistema cardiovascolare”	Italian Ministry of Health
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2008-2102	Member Scientific Committee Lazio Sanità	Agency for Public Health, Lazio
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2011-2012	Member Scientific Committee	Transplantation Agency, Lazio
2011-2012	Member Scientific Committee for Updating Guidelines on the organization on the treatment of Acute Cardiac Emergencies	Agency for Public Health, Lazio
2011-2012	Member Surgical Committee ANMCO	ANMCO (Associazione Nazionale Medici Cardiologi Ospedalieri)
2012-2014	Member Directive Committee of SICCH	SICCH (Società Italiana di Cardiochirurgia)
2013-2019	Member Techno-Scientific Committee	Lazio Health Service
2020	Member Techno-Scientific Committee on Surgical Activities post Covid-19	Italian Ministry of Health
2024	Member Committee for “Commissione per lo studio e l’approfondimento delle varie e complesse problematiche relative alla colpa professionale medica”	Italian Ministry of Justice

Professional Societies

Active Member	SICCH (Società Italiana di Cardiochirurgia)
Active Member	ANMCO (Associazione Nazionale Medici Cardiologi Ospedalieri)
Active Member and Fellow	EACTS (European Association for cardiothoracic Surgery)
Active Member	SCTS (Society for Cardiothoracic Surgery in Great Britain & Ireland)

Narrative Report

I started my training in cardiac surgery in Liverpool, UK in 1980. At that time my major interest and my clinical practice were in Paediatric Congenital Heart Disease. I am honored to count among my mentors, to whom I am greatly indebted, Mr. David Hamilton, Consultant Paediatric Cardiac Surgeon at the Royal Liverpool Children’s Hospital, Mr. Jaroslav Stark and Mr. Mark

DeLeval Consultant Paediatric Cardiac Surgeons at the Hospital for Sick Children in London and Mr. Christopher Lincoln, Consultant Paediatric Cardiac Surgeon at Brompton Hospital in London, all noted paediatric cardiac pioneers; Mr. Donald Ross, Consultant Cardiac Surgeon at the National Heart Hospital and Sir Magdi Yacoub, Professor of Cardiothoracic Surgery, National Heart Lung Institute, Imperial College Faculty of Medicine, London, a heart transplantation and pulmonary autograft pioneer. Subsequently I build up my competence and practice in Paediatric and Adult Cardiac Surgery for Acquired and Congenital Heart Disease.

In 1991 I was appointed Consultant Cardiac Surgeon at the University Hospital of Wales with the specific intention to open a Paediatric Cardiac Surgical Unit. The project was successful and the all range of paediatric cardiac surgical procedures were performed with excellent clinical results. I had also a large Adult Cardiac practice with a special interest in Reparative Mitral Valve Surgery and Aortic Surgery. In 1996 I introduced normo-thermic Cardio-Pulmonary By-pass. In 1997 I started a program of Minimally Invasive Cardiac Surgery.

In September 1998 I was appointed as Director of Cardiac Surgery at the S. Camillo Hospital in Rome, one of the leading cardiac institutions in Italy and in 1999 I was nominated Director of the Department of Cardiovascular Medicine at the same Hospital. In 2001 I started the Cardiac Transplant Program and two years later the MCS Program.

In August 2023 I left the S. Camillo Hospital and among a number of Job opportunities I was offered, I accepted the position of Senior Consultant in Cardiac Surgery at the UPMC – ISMETT Hospital starting from the 1st September 2023. My main commitment has been to strengthen the Minimally Invasive Valve Program and start Robot Assisted Mitral Valve Surgery

Surgery for acquired adult cardiac disease and heart failure surgery defines the primary scope of my clinical practice since I moved to the S. Camillo Hospital. The bulk of my caseload involves complex procedures, such as coronary artery bypass surgery (CABG), valve surgery, thoracic aortic surgery and complex combined procedures including complex reoperative procedures. These operations require extensive knowledge, experience, and a high level of intricate technical skill.

I am particularly regarded for my expertise and innovations in aortic and mitral surgery, particularly in reconstructive Mitral Valve surgery, Minimally Invasive Heart Valve Surgery and TAVI.

Over 90% of all valve surgery procedures are performed through a minimally invasive approach. The right lateral mini-thoracotomy is used for mitral valve surgery, tricuspid valve surgery and combined valve surgery including triple valve surgery (aortic, mitral and tricuspid). The right anterior mini-thoracotomy, the right lateral mini-thoracotomy or the mini-sternotomy are used for aortic valve surgery, including root replacement. Within my large practice in Minimally Invasive Valve Surgery, in 2011 I started the Robotic Assisted Mitral Valve Repair program with the DaVinci.

According to the standards for a Mitral Valve Center, over 95% patients with degenerative mitral valve regurgitation undergo valve repair.

Surgery for Heart Failure is another area where I am particularly active. The S. Camillo Hospital is the regional Center for Heart Transplantation and for long and short term Mechanical Circulatory Support. I developed the concept of temporary RV assistance in patients who receive an LVAD and have experience with the RV-VAD implantation in patients who require Bi-VAD implantation. I implanted in Italy in March 2002 the first HeartMate II and in November 2015 the first HeartMate III. In 2011 I did the first cardiac transplantation in a patient with a CardioWest Total Artificial Heart and in July 2023 I implanted first in Italy the new Aeson CARMAT Total Artificial Heart.

My Institution, together with The Berlin Heart Center edited the book “Mechanical Circulatory Support in End-Stage Heart Failure: A Practical Guide”.

I have been actively involved in training residents and fellows, in this specialty. Since 2010 I have been Consultant and Assistant Professor in Minimally Invasive Cardiac Surgery at the Campus Bio-medico Medical School, in Rome. I have been running international courses on Minimally Invasive Cardiac Surgery, and I have been invited in many international meetings to present my

experience in this field. Over the years, I have traveled extensively as an invited lecturer in Norway, China, the United Arab Emirates, India and Japan.

Palermo 8-01-2025