

FRANCESCO ONORATI

Born in Naples, Italy, April 22, 1975

Current Address (work):

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Current Position

- Associate Professor in Cardiac Surgery, University Hospitals and Medical School of Verona
- Chief, Cardiac Transplant and Ventricular Assisting Device Unit, Division of Cardiac Surgery at University Hospitals and Medical School of Verona
- Managing Director of Minimally Invasive Surgical Programmes, Division of Cardiac Surgery at University Hospitals and Medical School of Verona
- Managing Director of Clinical Research Programmes, Division of Cardiac Surgery at University Hospitals and Medical School of Verona
- Examiner, Level 1 Panel, European Board of Cardiothoracic Surgery
- Member, Aortic Dissection Task Force, EACTS

Education

- October 2007- Dec 10* **Second University of Naples, Faculty of Medicine**
PhD New Therapeutic Strategies with Stem Cells, Bioengineering, and Informatics
Experimental thesis "Off-pump vs standard linear or pulsatile cardiopulmonary bypass in cardiac surgery: biocompatibility and clinical results", recommended for publication
- Sept. 99 - Oct. 04* **Second University of Naples, Faculty of Medicine**
Residency in Cardiac Surgery, final grade: 70/70 cum laude
Experimental thesis "Troponin I as a marker of myocardial protection in cardiac surgical practice", recommended for publication
- Oct. 93 - July 99* **Second University of Naples, Faculty of Medicine**
Medical Degree final grade: 110/110 cum laude
Experimental thesis "The Fontan operation ", recommended for publication

Professional Experience

More than 1300 adult cardiac surgery interventions as first surgeon (including on-pump and off-pump myocardial revascularization, heart valve repair and replacement with/without minimally invasive accesses and technologies, redo interventions, complex endocarditis, major aortic surgery including acute and chronic aortic dissections, valve sparing/non-valve sparing aortic operations; heart transplantation, ventricular assisting device implantation, mechanical life support procedures, arrhythmia surgery, elective/urgent/emergent/salvage operations); more than 1000 interventions as first assistant.

- Dec 18 – current* **Division of Cardiac Surgery, University Hospitals and Medical School; Verona, Italy**
Associate Professor (Director: Prof. Giuseppe Faggian)
- August 2017* **Herzchirurgie, Herzzentrum Leipzig, Helios Gesundheit; Leipzig, Germany**

<i>Jan 2015</i>	<i>Visiting fellow; LVAD, RVAD, BIVAD and transplant program (Supervisor: Prof. J. Garbade)</i> Division of Cardiac Surgery, Universitat Klinikum Eppendorf, Hamburg, Germany <i>Visiting fellow; Minimally Invasive Surgery (Supervisor: Prof. H. Reichensperner)</i>
<i>Jan 2012</i>	Department of Cardiac Surgery, University Hospital of Hradec Kralove; Hradec Kralove, Czech Republic <i>Visiting Fellow; Minimally invasive atrial fibrillation program (Supervisor: Prof. J. Vojacek)</i>
<i>Mar. 10 – Dec 18</i>	Division of Cardiac Surgery, University Hospitals and Medical School; Verona, Italy <i>Consultant (Director: Prof. Giuseppe Faggian)</i>
<i>Mar. 05 – Mar. 10</i>	Cardiac Surgery Unit, Magna Graecia University; Catanzaro, Italy <i>Consultant (Director: Prof. Attilio Renzulli)</i>
<i>Jan. 03 - Oct.04</i>	Cardiac Surgery Unit, Magna Graecia University; Catanzaro, Italy <i>Cardiac Surgery Residency (Director: Prof. Attilio Renzulli)</i>
<i>Mar. 00 - Dec. 02</i>	Division of Adult Cardiac Surgery; Department of Cardiothoracic and Respiratory Sciences, Second University of Naples; Naples, Italy <i>Cardiac Surgery Residency, member of the "Heart Transplant" team</i>
<i>Jan. 00 - Dec. 02</i>	Division of Adult Cardiac Surgery; Department of Cardiothoracic and Respiratory Sciences, Second University of Naples; Naples, Italy <i>Cardiac Surgery Residency (Director: Prof. Maurizio Cotrufo)</i>
<i>1997 - 1999</i>	Institute of Paediatric Cardiac Surgery, Ospedale Monaldi; Second University of Naples; Naples, Italy <i>Internship</i>
<i>1995 - 1996</i>	Institute of Haematology, Second University of Naples; Naples, Italy <i>Internship</i>

Licence

Medical Licensure and Certification of practice for Italian Ministry of Health (2000)

UK medical licence certified (2007)

Research Experience & Academic practice

- Associate Professor with 150 yearly teaching hours in Cardiac Surgery Residency Program, PhD Program in Cardiovascular Sciences - Graduate School of Life and Health Sciences, and Medical School of University of Verona (*since 2018*).
- Faculty Board of the PhD Program in Cardiovascular Sciences - Graduate School of Life and Health Sciences at University of Verona Medical School (*since January 2019*)
- Director of Clinical Research Programmes, Division of Cardiac Surgery at University Hospital and Medical School of Verona
- Lecturer with frontal didactics (20 hours/year) and responsibility of internal course in “Bioengineering and Medical Technology” at BSc Degree in Cardiovascular Perfusion of the University of Verona Medical School (*years 2011-2018*)
- Lecturer with frontal didactics (10 hours/year) in cardiac and vascular surgery at BSc Degree in Cardiovascular Perfusion, BSc in Nursing, and Medical School at University Magna Graecia in Catanzaro, Italy (*years 2003-2005; 2009*)
- Director, Clinical and Experimental Research Programmes, Cardiac Surgery Unit, Magna Graecia University; Catanzaro, Italy (*Jan. 2003 – March 2010*)

Publications

203 papers published in PubMed, with more than 2200 citations and an H-index of 24 in Scopus and a RG score of 44,04 in Researchgate (last consult: August 2019).

Chapters in book:

3 chapters in international books

12 chapters in national books

Conferences

Invited speaker/Moderator at 13 International Congresses/Courses, 41 speeches at International Meetings; more than 140 speeches at National Meetings

EACTS Academy

Teacher at 2015 EACTS Academy Fundamentals in Cardiac Surgery, Windsor , June 22-23 (“Acute Circulatory Support: intravascular methods”)

Reviewer:

Indexed Journals on PubMed with Impact Factor:

Journal of the American College of Cardiology

Circulation

Circulation: Cardiovascular Interventions

American Heart Journal

American Journal of Cardiology

Cochrane Library (Heart Group)

Journal Thoracic and Cardiovascular Surgery

Annals of Thoracic Surgery

European Journal of Cardiothoracic Surgery

Interactive Cardiovascular and Thoracic Surgery

Chest

Catheter and Cardiovascular Interventions

International Journal of Cardiology

Journal of Heart Valve Disease

American Journal of Cardiovascular Drugs

Artificial Organs

Heart & Vessels

Journal of Cardiovascular Medicine

Thorax

Indexed Journals on PubMed without Impact Factor:

Italian Heart Journal

Anatolian Journal of Cardiology

Clinical Immunology

Journal of Women’s Health

Archives of Medical Science

Frontiers: Surgery

Editorial Boards:

Indexed Journals on PubMed with Impact Factor:

Indexed Journals on PubMed without Impact Factor:

Frontiers: Surgery

Heart Health

Journal of Neuro-cardiovascular Disease

Principal Investigator of International Studies

RECORD Registry (REdo Cardiac Operatuions Research Database; P.I.)

E-AVR (European Aortic Valve Replacement Registry; co-PI)

CRAGS (Coronary aRtery diseAse in younG adultS study; co-PI)

Steering Committee & Executive Working Group of International Studies

OBSERVANT Study (OBservational Study of Effectiveness of AVR-TAVI procedures for severe Aortic steNosis Treatment)

RECORD (REdo Cardiac Operatuions Research Database)

CRAGS (Coronary aRtery diseAse in younG adultS study)

E-CABG (European multicenter registry of CABG)

E-AVR (European multicenter registry of AVR)

Commitments in Scientific Societies:

Italian Society of Cardiac Surgery (SICCH), Councilor (*years 2008 - 2010*),

Aortic Dissection Task Force of the European Association for Cardiothoracic Surgery (EACTS), Member (*2018 - date*)

European Board of Cardiothoracic Surgery (EBCTS), Level 1 Examiner and Member of the writing panel (*2016 - date*)

Research Area

Area of interests biocompatibility of cardiopulmonary bypass; myocardial protection techniques; minimally invasive surgery; transcatheter techniques; aortic surgery; heart transplant and VADs; arrhythmia surgery, prosthetic valve performance, coronary surgery, redo surgery; fibro-intimal hyperplasia in animal models; multicenter studies

Grants

Public:

1. “Prosthetic thrombosis: pathogenesis, diagnosis and therapy” - Investigator (financed by Italian Ministry of University and Scientific Reaserch 2003-2004 – COFIN 2003);
2. “Clinical applications of an experimental model of post-surgical fibro-intimal hyperplasia of cardiovascular diseased rats” - Invesitgator (financed by Italian Ministry of University and Scientific Reaserch 2003-2004 – COFIN 2003);
3. “Biomolecular basis of dilative ascending aortic disease: role of statin treatment on differentiation, cellular/matrix interaction and vascular remodelling” (financed by Italian Ministry of University and Scientific Reaserch 2007-2008- COFIN 2007);

Private:

1. New concepts in aortic counterpulsation (Datascope Grant 2007): P.I.
2. New applications of hemostats in cardiac surgery (Nycomed Grant 2007): P.I.
3. Use of fenoldopam for kidney protection during cardiac surgery (Cephalon Grant 2007): P-I-

4. Pulmonary vasodilators in cardiac surgery (Actelion Grant 2008): P.I.
5. Use of leukocyte filters during cardiopulmonary bypass (Multicenter Trial Terumo 2009): P.I.

Awards

1999 and 2004, Second University of Naples, Outstanding Thesis Award

2008: Best Poster Presentation Award, XXXV Congress of European Society of Artificial Organs, Geneva, Switzerland

Professional Memberships

European Association of Cardiothoracic Surgery

Italian Society of Cardiac Surgery

Cardiothoracic Surgery Network

Verona, August 11th, 2019

A handwritten signature in black ink, appearing to read "Francesco Quarello". The signature is fluid and cursive, with the first name "Francesco" and the last name "Quarello" clearly distinguishable.