



Enrico Squicciarro

CCP, MD STUDENT, PHD CANDIDATE

Profile

I am a Certified Clinical Perfusionist with 7+ years of experience earned across Europe. Driven by a strong passion, I am currently accomplishing a Master's Degree in Medicine and a Ph.D.

Employment History

Clinical Perfusionist, CIED technician, Cardiovascular Sonographer, MD trainee , Division of Cardiac Surgery, Policlinico Foggia, Foggia

JANUARY 2022 — PRESENT

Cardiopulmonary bypass in adult cardiac surgery both conventional and minimally-invasive (MICS), intraoperative cell-saving, Extracorporeal Life Supports (ECLS/ECMO/pVAD), VV-ECMO Covid-19+, Intra-Aortic Balloon Pump (IABP), advanced coagulation management (thromboelastometry, thromboelastography, platelet mapping), cardiovascular sonography, CIED technician, and remote monitoring.

Clinical Perfusionist, Cardiovascular Sonographer, MD trainee , Division of Cardiac Surgery, Policlinico Bari, Bari, Italy

MARCH 2021 — DECEMBER 2021

Cardiopulmonary bypass in adult cardiac surgery both conventional and minimally-invasive (MICS), intraoperative cell-saving, Extracorporeal Life Supports (ECLS/ECMO/pVAD), VV-ECMO Covid-19+, Intra-Aortic Balloon Pump (IABP), advanced coagulation management (thromboelastometry, thromboelastography, platelet mapping), cardiovascular sonography. Development of a DCD and Ex-Vivo organ perfusion program.

Cardiovascular Perfusionist - Researcher , Mater Dei Hospital, C.B.H., Bari, Italy

JULY 2020 — MARCH 2021

Cardiopulmonary bypass in adult cardiac surgery both conventional and minimally-invasive (MICS), intraoperative cell-saving, ECLS/ECMO, VV-ECMO Covid-19+, Intra-Aortic Balloon Pump (IABP), advanced coagulation management (thromboelastometry, thromboelastography, platelet mapping), cardiovascular sonography.

Cardiovascular Perfusionist - Researcher , Amsterdam University Medical Center, Amsterdam, The Netherlands

JANUARY 2018 — MARCH 2019

Cardiopulmonary bypass in adult cardiac surgery both conventional and minimally-invasive (MICS), minimally-invasive extracorporeal circulation (MiECC), intraoperative cell-saving, Extracorporeal Life Supports (ECLS/ECMO/Impella), IABP, ECMO/IMPELLA-assisted high-risk PCI, HIPEC procedures, ECMO training/wetlabs/troubleshooting for ICU nurses, physicians, and perfusionists, CPB-cadaveric models, advanced coagulation management (thromboelastometry, thromboelastography, platelet mapping), cardiovascular sonography.

Internships

Details



Languages

- Italian
- English
- Dutch
- French
- Croatian

Researcher, INTERSHIP as Clinical Perfusionist at Santa Maria Hospital, GVM Care & Research, Bari, Italy

JANUARY 2017 — DECEMBER 2017

Cardiopulmonary bypass in adult cardiac surgery both conventional and minimally-invasive (MICS), intraoperative cell-saving, ECLS/ECMO, IABP, cardiovascular sonography.

INTERSHIP as Clinical Perfusionist, Cardiovascular Sonographer, and Pacemaker Technician at Università degli Studi di Bari, Bari, Italy

SEPTEMBER 2014 — NOVEMBER 2017

Cardiopulmonary bypass in adult cardiac surgery both conventional and minimally-invasive (MICS), minimally-invasive extracorporeal circulation (MiECC), intraoperative cell-saving, Extracorporeal Life Supports (ECLS/ECMO/pVAD), ECLS/ECMO, IABP, advanced coagulation management (thromboelastometry, thromboelastography, platelet mapping), cardiovascular sonography, Pacemaker Technician.

Education

LM-41 DM 270/2004 Corso di Laurea Magistrale a ciclo unico in Medicina e Chirurgia (MSc in Medicine and Surgery), University of Bari, Bari, Italy

2020 — PRESENT

Doctor of Philosophy (Ph.D.), Maastricht University, Maastricht, The Netherlands

2018 — PRESENT

MSc - Cardiovascular Research, Vrije Universiteit, Amsterdam

2018 — 2018

L/SNT3 DM 270/2004 Corso di Laurea Triennale in Tecniche di Fisiopatologia cardiocircolatoria e Perfusione cardiovascolare (BSc in Cardiocirculatory Pathophysiology and Cardiopulmonary Perfusion Techniques), University of Bari, Bari, Italy

SEPTEMBER 2014 — NOVEMBER 2017

Graduated with High Honors

Publications

Prevalence and Clinical Impact of Systemic Inflammatory Reaction After Cardiac Surgery

Squicciarro E, Labriola C, Malvindi PG, Margari V, Guida P, Visicchio G, Kounakis G, Favale A, Dambruoso P, Mastrototaro G, Lorusso R, Paparella D.

J Cardiothorac Vasc Anesth. 2019 Jun;33(6):1682-1690. doi: 10.1053/j.jyca.2019.01.043. Epub 2019 Jan 17. PMID: 30772177

Extracorporeal Oxygenation and Coronavirus Disease 2019 Epidemic: Is the Membrane Fail-Safe to Cross Contamination?

Squicciarro E, Rociola R, Haumann RG, Grasso S, Lorusso R, Paparella D.

ASAIO J. 2020 Aug;66(8):841-843. doi: 10.1097/MAT.0000000000001199. PMID: 32740340; PMCID: PMC7268868

Clotting abnormalities in critically ill COVID-19 patients are inconsistent with overt disseminated intravascular coagulation

Paparella D, Colucci M, **Squicciarro E**, Raimondo P, De Palma F, Ranieri P, Mariggiò MA, Grasso S.

Thromb Res. 2020 Dec;196:272-275. doi: 10.1016/j.thromres.2020.09.015. Epub 2020 Sep 13. PMID: 32942235; PMCID: PMC7487084

Quantitative and Qualitative Platelet Derangements in Cardiac Surgery and Extracorporeal Life Support

Squicciarro E, Jiritano F, Serraino GF, Ten Cate H, Paparella D, Lorusso R.

J Clin Med. 2021 Feb 6;10(4):615. doi: 10.3390/jcm10040615. PMID: 33561947; PMCID: PMC7914426

Multifaced Roles of HDL in Sepsis and SARS-CoV-2 Infection: Renal Implications

Stasi A, Franzin R, Fiorentino M, **Squicciarro E**, Castellano G, Gesualdo L.

Int J Mol Sci. 2021;22(11):5980. Published 2021 Jun 1. doi:10.3390/ijms22115980

Narrative review of the systemic inflammatory reaction to cardiac surgery and cardiopulmonary bypass

Squicciarro E, Stasi A, Lorusso R, Paparella D. *Artif Organs*. 2022;46(4):568-577. doi:10.1111/aor.14171

Bilateral mini-thoracotomy for combined minimally invasive direct coronary artery bypass and mitral valve repair

Squicciarro E, Margari V, Paparella D. [published online ahead of print, 2022 May 12]. *Eur J Cardiothorac Surg*. 2022;ezac306. doi:10.1093/ejcts/ezac306

Quadricuspid aortic valve repair with a modified-tricuspidization technique

D'Errico Ramirez A, **Squicciarro E**, De Palo M, Acquaviva T, Milano AD. Quadricuspid aortic valve repair with a modified-tricuspidization technique. *Echocardiography*. 2022;39(10):1363-1366. doi:10.1111/echo.15448

Acute iatrogenic complications after mitral valve repair

Paparella D, **Squicciarro E**, Di Mauro M, Katsavrias K, Calafiore AM. Acute iatrogenic complications after mitral valve repair [published online ahead of print, 2022 Oct 23]. *J Card Surg*. 2022;10.1111/jocs.17055. doi:10.1111/jocs.17055

Addressing inadequate blood flow during normothermic regional perfusion for in-situ DCD grafts preservation

Squicciarro E, Colombaro C, Civita A, et al. Addressing inadequate blood flow during normothermic regional perfusion for in-situ donation after circulatory death grafts preservation [published online ahead of print, 2023 Jan 2]. *Perfusion*. 2023;2676591221150358. doi:10.1177/02676591221150358

Mid-term results of endoscopic mitral valve repair and insights in surgical techniques for isolated posterior prolapse

Squicciarro E, Margari V, Kounakis G, et al. Mid-term results of endoscopic mitral valve repair and insights in surgical techniques for isolated posterior prolapse. *J Cardiothorac Surg*. 2023;18(1):248. Published 2023 Aug 18. doi:10.1186/s13019-023-02352-9

Myocardial injury in off-pump and beating heart revascularization

Paparella D, **Squicciarro E**, Margari V, Speziale G. Myocardial injury in off-pump and beating heart revascularization. *Eur J Cardiothorac Surg*. 2023;64(3):ezad295. doi:10.1093/ejcts/ezad295

Roller pump reverse Flow-Directed dynamic occlusiveness: towards precision in perfusion

Condello I, **Squicciarro E**. Roller pump reverse Flow-Directed dynamic occlusiveness: towards precision in perfusion. *Interdiscip Cardiovasc Thorac Surg*. Published online February 24, 2024. doi:10.1093/icvts/ivae026

Sex-Related Disparities and Systemic Inflammatory Response in Cardiac Surgery

Squicciarro E, et al. SUBMITTED

Impact of Inflammation After Cardiac Surgery on 30-day Mortality and Machine Learning Risk Prediction

Squicciarro E, et al. SUBMITTED

Unsupervised Learning to Explore Adaptive and Maladaptive Systemic Inflammation Following Cardiac Surgery and Cardiopulmonary Bypass

Squicciarro E, et al. SUBMITTED

Inadequate Oxygen Delivery During Cardiopulmonary Bypass Provokes Postoperative Systemic Inflammatory Reaction Syndrome

Squicciarro E, et al. SUBMITTED

Faculty memberships

ECMO Specialist Meeting - ECMO Resource, Tampa, United States

DECEMBER 2020

Lecture *"Left ventricular unloading during venoarterial ECMO"*

68th International Congress of the European Society for Cardiovascular Endovascular Surgery - ESCVS, Groningen, The Netherlands

MAY 2019

"The inflammatory reaction in Cardiac Surgery and Perfusion: an update"

1st Dutch Society of Extracorporeal Circulation - NeSECC Post Graduate Course, Groningen, The Netherlands

NOVEMBER 2018

Lecture *"The use of intraoperative trans-esophageal echocardiography as a tool for the perfusionist"*

XXIX Italian Society of Cardiac Surgery - SICCH Meeting, Rome, Italy

NOVEMBER 2018

Oral presentation *"Prevalence and clinical impact of systemic inflammatory reaction after Cardiac Surgery"*

Squicciarro E, et al. - Journal of Cardiovascular Medicine (November 2018)
DOI: 10.2459/01.JCM.0000549892.25617.2d

Cardiac Surgery Days - Heart Failure, Policlinico Foggia, Foggia, Italy

MARCH 2022

Lecture: "Mechanical Circulatory Support"

XXXI Italian Society of Cardiology - SICCH Meeting, Rome, Italy

NOVEMBER 2022

Oral presentations:

- *Mid-term results of endoscopic mitral valve repair: insights in surgical techniques*
- *Extended Reality in Cardio-thoracic Surgery*

Stato dell'arte dell'ECMO, San Giovanni Rotondo

JUNE 2023

Lecture: "Risoluzione delle problematiche in corso di ECMO VV"

70 BATTITI – Da John Gibbon ad oggi (2nd edition) LivaNova Cardiopulmonary, Verona, Italy

OCTOBER 2023

Lectio Magistralis: "Fundamentals of Biostatistics in Perfusion"

La Rivascolarizzazione Miocardica nel 2024, Foggia, Italy

APRIL 2024 — APRIL 2024

Member of the Scientific Committee

Lecture: "ECMO e pVAD: differenze e interazioni"

ANMCO-SIC Cardio&More Puglia-Basilicata 2024, Bari, Italy

APRIL 2024 — APRIL 2024

Lecture: "MCS in Advanced Heart Failure"

55° Congresso Nazionale ANMCO, Rimini, Italy

MAY 2024 — MAY 2024

Oral Presentation: "Mid-Term Outcomes Of Endoscopic Mitral Valve Repair
Via Right AnteriorMini-Thoracotomy"

Courses

ECMO for Cardiac Arrest, University of Bari

ECMO for Respiratory Failure, University of Bari

Innovation Extra Corporeal Technology - Medtronic, Bari, Italy,

6th EuroELSO - Maastricht, The Netherlands,

18th National congress of Echocardiography - SIEC, Napoli, Italy

SIC-ANMCO 2017 Puglia-Basilicata - SIC-ANMCO, Bari, Italy

**Basic Life Support and Defibrillation - American Heart Association, Bari,
Italy**

Options and Outcome - Medtronic, Roma, Italy

7th EuroELSO - Prague, Czech Republic

Acute Care Hemochron ACT Users Meeting - Hemocron, Antwerp, Belgium

Focus meeting on Cardiac surgery and Cardiology and relevant costs in healthcare, University of Bari

XXIX Italian Society of Cardiac Surgery - SICCH Meeting, Roma, Italy

1st Dutch Society of Extracorporeal Circulation - NeSECC Post Graduate Course, Groningen, The Netherlands

Aortic MICS - Minimally Invasive Cardiac Surgery - GVM Care & Research, Bari, Italy

68th International Congress of the European Society for Cardiovascular Endovascular Surgery - ESCVS, Groningen, The Netherlands

ECMO Specialist Meeting - ECMO Resource, Tampa, Florida, United States

Cardiac Surgery Days - Myocardial revascularization, Policlinico Foggia, Foggia, Italy

DECEMBER 2021

Cardiac Surgery Days - Mitral Valve, Policlinico Foggia, Foggia, Italy

JANUARY 2022

Cardiac Surgery Days - Aorta, Policlinico Foggia, Foggia, Italy

MARCH 2022

36th EACTS Annual Meeting

OCTOBER 2022

XXXI Italian Society of Cardiology - SICCH Meeting

NOVEMBER 2022

Digital competence

Operative systems

Windows, MacOS, Linux

Microsoft Office

Microsoft Word, Microsoft Excel, Microsoft Power Point, Microsoft Access, Microsoft Outlook, Microsoft OneNote

Graphic design

Adobe Photoshop, Adobe Illustrator, Google Sketch-Up, Autodesk Sketchbook

Databases

Castor EDC, RedCap

Statistics

Microsoft Excel, SPSS, R, Python

Other

Scopus metrics

- Published documents: 13
- Citations: 162
- h-index: 6

Member of the "Short list of foreign languages experts"

Local Health Authority - ASL, Bari (BA), Italy

Member of the following scientific societies:

- AITeFEP (Italian Association of Cardiocirculatory pathophysiology and Cardiopulmonary Perfusion Technicians)
- SICCH (Italian Society of Cardiac Surgery)
- EACTS (European Association of Cardio-Thoracic Surgery)
- ESC (European Society of Cardiology) and ESC Working Group on Cardiovascular Surgery
- ITACTAIC (Italian Association Of Cardiothoracic Anaesthesiologists and Intensive Care)

GCP Certification

Good Clinical Practice, Royal College of Physicians of the United Kingdom, 2018 – NIDA Clinical Trials Network, NDAT CTN Clinical Coordinating Center, his training has been funded in whole or in part with Federal funds from the National Institute on Drug Abuse, National Institutes of Health, Department of Health and Human Services, under Contract No. HHSN27201201000024C.

AACT Certification

All About Clinical Trials (AACT), European Society of Cardiology (ESC) Working Group on Cardiovascular Pharmacotherapy, 2022

Iscrizione all'Albo TSRM PSTRP sez. BA-TA-BT

Tecnici di Fisiopatologia cardiocircolatoria e Perfusionazione cardiovascolare, N. 26


Driving licence

The undersigned is aware that, pursuant to art. 76 of Presidential Decree 445/2000, false declarations, false documents and the use of false deeds are punished according to the Penal Code and special laws. All this stated states the above detailed facts and personal qualities. I hereby authorize the use of my personal data in accordance to the GDPR 679/16 - "European regulation on the protection of personal data".

References

References available upon request

Foggia, 16 Luglio 2024

A handwritten signature in black ink, consisting of a stylized 'J' followed by a horizontal line and a vertical stroke.