Curriculum Vitae

Filippo Castrucci, MD, PhD
ESA/EAC Space Medicine Team (HRE-OM)

Name

Filippo Castrucci

Education

- High School Diploma, Davis Senior High School, Davis California, United States of America, ***1976***.
- Maturita' Classica, Liceo Classico A. Mariotti, Perugia, Italy, ***1977***.
- Medical Doctor Degree, Univ. of Perugia, Italy – ***1985***.
- Doctorate (PhD) in Cardiovascular Pathophysiology, University of Rome "Tor Vergata", Rome, Italy – ***1995***.

Medical Certifications

- State Board Certified in General Medicine, Italy –***1985***.
- ISS Certified Flight Surgeon, ISS Multilateral Space Medicine Board (MSMB) - ***March 2001 to present***

Professional Experience

- Clinical activities at the Center for Hypertension and non-invasive cardio respiratory diagnostics, University of Rome "Tor Vergata", ***1989-1997***.
- DLR (German Space Agency) Flight Surgeon at DLR Flight Clinic in Cologne, Germany, ***1999-2000***.
- Lead Flight Surgeon of the European Astronaut Centre, Integrated Team in the Space Medicine Office, of the European Space Agency (ESA) in Cologne, Germany, ***2003 to present***.
- ESA Flight Surgeon at the NASA Johnson Space Center in Houston, Texas, ***August 2000 to August 2003***
- Manager Medical Care Service ESA HRE-OM **2022 to present**

Space Medicine Experience

- Doctor Thesis in Medicine and Surgery (**1985**) - "Microgravity effects on the Cardiovascular and Endocrine systems with introduction to zero-g simulation methods on earth"(in Italian)
- Fellow of the European Space Agency in Gravitational Physiology at the Institute of Physiology, with Prof. K.A. Kirsch, Free University of Berlin, Berlin Germany – ***1987 to 1989***.
- Member of the Space Biomedicine Center, University of Rome "Tor Vergata", Italy – ***1993 to 1997***.
- Post-doctorate Fellow in Cardiovascular Pathophysiology, University of Rome "Tor Vergata", Italy, ***1995 to 1997***.
- Post-doctorate Fellow of the European Space Agency

on a Project evaluating Medical and Physical Countermeasures for long-term space flight to be proposed for European missions. European Astronaut Centre, Cologne, Germany, ***1997 to 1999***.

Research Activities

- Co-investigator in University of Rome "Tor Vergata" research team on Italian Space Agency, Italian Research Committee and Italian Ministry of Research funded research projects on Space and Clinical Medicine topics – ***1989 to 1997***.
- Co-investigator in University of Rome "Tor Vergata" research team participating to the ESA sponsored Exemsi Isolation Study at DLR in Cologne Germany, ***1992 to 1993***.
- Co-investigator in ESA/CNES Long-term Bedrest Study ***1994 to 1995***, in Toulouse, France
- Co-author in several scientific publications in International and Italian peer-reviewed Journals

Medical Operations/ Space Flight Support

- Supervision and medical care with NASA Flight Surgeons' support on all clinical issues regarding European Space Agency astronauts resident at NASA Johnson Space Center, ***August 2000 to August 2003***.
- ESA Flight Surgeon support of the ESA Crew Member on board NASA mission STS-100 – ***Aug 2000 to May 2001*** at the Johnson and Kennedy Space Centers
- First and currently sole non-Russian/American Physician to be assigned as International Space Station Deputy Crew Surgeon to an ISS Expedition. In that function performed medical training, monitoring and support of the Expedition 5 crew pre-flight, in-flight and post-flight medical activities from the Johnson Space Center, at the Gagarin Training Center, in Moscow, and at the Kennedy Space Center, ***May 2001 to June 2003***.
- Expedition 5 full-time on-duty Deputy Crew Surgeon (>1800 hours console duties) at the Johnson Space Center Mission Control Center, Surgeon Console, of the International Space Station Control Room, **June-November 2002**
- Deputy Crew Surgeon - ESA Short Duration Soyuz Mission to ISS "Cervantes" –, **September-November 2003**
- Deputy Crew Surgeon - ESA Short Duration Soyuz Mission to ISS "Delta" –, **November 2003 – June 2004**
- Crew Surgeon - ESA Short Duration Soyuz Mission to ISS "Eneide" –, **July 2004 – July 2005**
- Deputy Crew Surgeon - ESA Long Duration Mission to ISS "Astrolab" –, **May 2005 – to Feb 2007**
- Crew Surgeon – ESA Long-Duration Mission to ISS (ISS Increment 16) - **Jan 2007 to Dec 2009**
- Support Flight Surgeon – ESA Long-Duration Mission to ISS E-2 (ISS Inc 20-21) – **June 2009 – Dec 2009**

- Crew Surgeon – ESA Long Duration Mission to ISS (ISS Inc 24 Back-up Inc 26-27 Prime) **July 2009 – May 2012**
- Deputy Crew Surgeon – ESA Long Duration Mission to ISS (ISS Inc 36-37) – **May 2013 – January 2014**
- Deputy and Crew Surgeon – ESA Long Duration Mission to ISS (ISS Inc 41-42) **January 2014 – April 2015**
- Crew Surgeon - ESA Long Duration Mission to ISS (ISS Inc 46-47) – **Sept 2014 – to Sept 2016**
- Crew Surgeon - ESA Long Duration Mission to ISS (ISS Inc 52-53) – **Jan 2017 – to June 2018**
- ESA Lead Crew Surgeon mission support activities coordinator – **current activity**

Space Medical Operations Specific Training

- Flight Surgeon training at the European Astronaut Centre – ***1999 to 2000***.
- United Space Alliance Training Academy, Part 1 and 2, ***October-November 2000***
- ISS International Partner Flight Surgeon Certification since **May 2001 to present**
- Training at NASA Johnson Space Center for ISS Partner and Lead Crew Surgeon certifications since ***August 2000 to August 2003***
- ISS Crew Surgeon Certification maintenance - Proficiency training **August 2003 – to present**
- Provides ISS Surgeon on the job counseling to the ESA Surgeons in-training (**2005 – to present**)

Representation in International Boards

- ESA permanent voting member of the ISS Multilateral Medical Operations Panel (MMOP) **October 2003 to present**
- Chair of the ISS Multilateral Medical Operations Panel (MMOP) **June 2010 to May 2011** and **June 2015 to May 2016 and July 2020 to May 2021**
- ESA Flight Surgeon representative and coordinator in the ISS MMOP Environmental Working Group – **Sep 2008 to present**
- ESA representative and voting member in the ISS Space Medicine Operations Team (SMOT) – **October 2003 to present**
- Ad-hoc Member of the ESA Medical Board on operational space medicine – **current activity**

Outreach

- Lecturing on Operational Space Medicine at Universities and ESA Educational events – **current activity**