



Dr. Edin Omerbasic, MD, FECTS

Consultant Pediatric Cardiac Surgeon
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Professional Summary

Edin Omerbasic is a Consultant Pediatric Cardiac Surgeon at Skåne University Hospital in Lund, Sweden, and a PhD student at Lund University. With over 20 years of surgical experience, he has led pioneering pediatric cardiac programs in Bosnia and Herzegovina and currently performs complex neonatal and transplant surgeries in Sweden. He is also deeply engaged in international surgical education and outreach missions.

As the founder and global leader of Heartbeat4Children, a new international initiative, he aims to advance equitable pediatric surgical care in underserved regions. The program brings top EU-based medical experts to local hospitals in non-Western countries, combining surgery, education, and sustainable development. It also supports collaborative research to drive evidence-based improvements in pediatric surgical care.

Clinical Expertise

- Neonatal and infant open-heart surgery
- Surgical palliation for single ventricle physiology
- Pediatric heart transplantation
- International surgical collaboration and program development

Academic Positions

- PhD Candidate, Lund University, Sweden (2023–present)
- Consultant Pediatric Cardiac Surgeon, Skåne University Hospital, Lund (2020–present)
- Pediatric Cardiac Surgeon, Skåne University Hospital, Lund (2017–2020)
- Chief of Pediatric Cardiac Surgery, Heart Center Sarajevo, CCUS (2014–2017)
- Consultant Pediatric Cardiac Surgeon, Institute of Heart Disease, CCUS (2013–2017)
- Fellow, Pediatric Cardiac Surgery, Skåne University Hospital, Lund (2011–2013)
- Resident in Cardiovascular Surgery, CCUS Sarajevo (2005–2011)

Education

- PhD Studies, Lund University, Sweden (2023–present)
- PhD Studies, University of Banja Luka, Bosnia and Herzegovina (2015–present)
- Specialization in Cardiothoracic Surgery, Lund University, Sweden (2020)
- Master of Medical Sciences University of Sarajevo, Bosnia and Herzegovina (2006–2014)
- Pediatric Cardiac Fellow Ship, Pediatric Cardio-surgery Center, Lund, Sweden (2011–2013)

- Specialization in Cardiovascular Surgery, University of Sarajevo, Bosnia and Herzegovina (2005-2011)
- Doctor of Medicine, University of Sarajevo, Bosnia and Herzegovina (2004)

Languages

- Bosnian/Croatian/Serbian – Native
- English – Fluent
- Swedish – Fluent

Selected Publications

1. Stenmark M, Omerbasic E, et al. Vision-Based Tracking of Surgical Motion During Live Open-Heart Surgery. J Surg Res. 2022.
2. Omerbasic E, et al. Successful Pacemaker Implantation in Infant Post-AV Block. Acta Inform Med. 2015.
3. Omerbasic E, Pandur S, et al. Prognostic Value of Coronary Circulation Dominance. Med Arh. 2015.

Invited Lectures & Presentations

- Pediatric Heart Transplantation – Southeast Region Donation Day, Sweden (2024)
- 3D Printing in Cardiac Surgery – Jens Johansson Ramgren Symposium, University Hospital Lund (2024)
- HLHS Management from Fetus to Stage I – 8th Utrecht Sessions (2022)
- Fontan Circulation in Bosnia & Herzegovina – 1st CV Symposium, Mostar (2014)

International Experience

- Study Visit – CHOP, Philadelphia (2019), Great Ormond Street Hospital 2025, 2012
- Training – AKH Vienna, University Children's Hospital Belgrade
- Surgical Pediatric Cardiothoracic Missions –Sarajevo April 2025, Sarajevo (2011-2013) 15 times, Addis Ababa (2014) 2 times
- Surgical Adult Cardiothoracic Missions –Addis Ababa (2014)