



Tomaž Podlesnikar

[Redacted contact information]

WORK EXPERIENCE

Cardiologist

Department of Cardiac Surgery, UMC Maribor; Department of Cardiology, UMC Ljubljana [09/2018 – Current]

City: Maribor, Ljubljana | Country: Slovenia

Main responsibilities:

- Cardiac imaging at the Clinical Department of Cardiac Surgery, University Medical Centre (UMC) Maribor, including periprocedural transesophageal echocardiography
- Multimodality cardiac imaging team (UMC Ljubljana)
- Transthoracic and transesophageal echocardiography in a high-volume echocardiography lab (Department for Non-invasive Cardiac Imaging, UMC Ljubljana)
- CMR at the Center for clinical physiology, Faculty of medicine, University of Ljubljana
- Research

CMR

Medical Centre Fontana [2023 – Current]

City: Maribor | Country: Slovenia

CMR service once a week

Assistant Professor (Docent)

Faculty of Medicine, University of Maribor [05/2023 – Current]

City: Maribor | Country: Slovenia

Field: Internal medicine

Assistant lecturer (Asistent)

Faculty of Medicine, University of Maribor [09/2014 – 05/2023]

City: Maribor | Country: Slovenia

Field: Internal medicine

Sports Cardiology

Institute of Sports Medicine, Faculty of Medicine, University of Maribor [2014 – Current]

City: Maribor | Country: Slovenia

Working with athletes in Sports Cardiology division. Main tasks:

- screening for cardiovascular diseases

- assessing exercise performance
- providing feedback on medical, nutritional and training issues

Training and Research in Multimodality Cardiovascular Imaging

Heart Lung Center, Leiden University Medical Center [09/2016 – 08/2018]

City: Leiden | Country: Netherlands

Mentors: Prof Jeroen J Bax, MD, PhD; Victoria Delgado, MD, PhD

Training objectives:

- Advanced echocardiography (3D, periprocedural echo, strain imaging, stress echo)
- Cardiovascular Magnetic Resonance
- Cardiac CT

Research in Multimodality Cardiovascular Imaging in Valvular Heart Disease, Ischemic Heart Disease and Heart Failure

Training in Cardiovascular Magnetic Resonance

Bristol Heart Institute, University Hospitals Bristol NHS Foundation Trust [01/2016 – 06/2016]

City: Bristol | Country: United Kingdom

Mentor: Chiara Bucciarelli-Ducci, MD, PhD

Resident in Cardiology and Vascular Medicine

UMC Maribor, UMC Ljubljana [08/2014 – 08/2018]

Country: Slovenia

Resident in Internal Medicine

UMC Maribor, UMC Ljubljana [03/2009 – 06/2014]

Country: Slovenia

Internship

UMC Maribor [10/2007 – 02/2009]

City: Maribor | Country: Slovenia

Humanitarian Work in Uganda

[06/2008 – 08/2008]

Country: Uganda

As a member of medical humanitarian expedition I worked as a physician in Kabale Regional Referral Hospital and principally in a self-established outpatient clinic in the village Bufuka.

The project was supervised by Section of Tropical Medicine, Faculty of Medicine, University of Ljubljana.

EDUCATION AND TRAINING

PhD

Leiden University Medical Center [06/2022]

City: Leiden | Country: Netherlands | Thesis: Multimodality Imaging for Myocardial Injury in Acute Myocardial Infarction and the Assessment of Valvular Heart Disease

Cardiology and Vascular Medicine Specialist

Medical Chamber of Slovenia [08/2018]

City: Ljubljana | Country: Slovenia | Final grade: Cum laude

Internal Medicine Specialist

Medical Chamber of Slovenia [06/2014]

City: Maribor | Country: Slovenia | Final grade: Cum laude

State Exam for Physician

Ministry of Health, Republic of Slovenia [03/2008]

City: Ljubljana | Country: Slovenia

Doctor of Medicine (M.D.)

Faculty of Medicine, University of Ljubljana [06/2007]

City: Ljubljana | Country: Slovenia | Final grade: Average grade: 9,4; Dean's "Special Award for Excellent Study Success"

Diploma of the International Baccalaureate (Bilingual Diploma)

Druga Gimnazija Maribor [08/2000]

City: Maribor | Country: Slovenia | Final grade: Minister of Education and Sport's Praise for Exceptional Success at International Baccalaureate

LANGUAGE SKILLS

Mother tongue(s): Slovenian

Other language(s):

English

LISTENING C2 READING C2 WRITING C1

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

German

LISTENING B2 READING B2 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Croatian and Serbian

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Spanish

LISTENING A2 READING A2 WRITING A1

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

NETWORKS AND MEMBERSHIPS

Memberships 1. European Association of CardioVascular Imaging (EACVI)

- EACVI - Research - Scientific Initiatives Committee (Deputy Chair) - 2022-2024
- EACVI - Research - Scientific Initiatives Committee (Committee Member) - 2018-2022
- EACVI - Membership - Heart Imagers of Tomorrow (HIT) Committee (Committee Member) - 2016-2022
- EACVI - Education - Certification and Accreditation Committee (Lab Accreditation CMR Sub-Committee Member) - 2018-2022
- EACVI - Membership - International Communities and Membership Committee (Committee Member) - 2018-2020
- EACVI HIT National Ambassador of Slovenia for CMR - 2019-2022
- EACVI HIT National Ambassador of Slovenia - 2015-2019

3. Slovenian Society of Cardiology

- Working Group on Cardiovascular Imaging - Chair - 2024-ongoing
- Working Group on Cardiovascular Imaging - Member - 2015-ongoing

4. Medical Chamber of Slovenia

AWARDS

Awards

1. ESC Training Grant 2016

- Training in Multimodality Cardiovascular Imaging
- Host institution: Heart Lung Center, Leiden University Medical Center, Leiden (Netherlands)

- Supervisor: Victoria Delgado, MD, PhD; Prof Jeroen J Bax, MD, PhD
2. EACVI Training Grant 2015
 - Training in Cardiovascular Magnetic Resonance
 - Host institution: Bristol Heart Institute, University Hospitals Bristol NHS Foundation Trust, Bristol, UK
 - Supervisor: Chiara Bucciarelli-Ducci, MD, PhD

MENTORSHIP

Student research theses

1. Diagnostična obravnava bolnikov s sumom na stabilno koronarno arterijsko bolezen (Diagnostic management of patients with suspected stable coronary artery disease)
 - Prešeren prize 2021 (prize for excellence in research by the Faculty of Medicine, University of Ljubljana)
 - Role: co-mentor
2. Spremljanje bolnikov po diagnostični obravnavi zaradi suma na stabilno koronarno arterijsko bolezen (Follow-up after diagnostic management of patients with suspected stable coronary artery disease)
 - The Prešeren prize 2022 (prize for excellence in research by the Faculty of Medicine, University of Ljubljana)
 - Role: co-mentor

ADDITIONAL MEDICAL EDUCATION AND SKILLS

Additional Medical Education and Skills

- EACVI Leaders of Tomorrow Academy (2022-ongoing)
- EACVI Adult Transthoracic Echocardiography certification (2022)
- EACVI Cardiovascular Magnetic Resonance Level 2 certification (2018) - in the process of upgrade to Level 3
- Basic methods and reasoning in Biostatistics (LUMC, Leiden, The Netherlands, January 2017)
- 3D TEE acquisition and analysis (LUMC, Leiden, The Netherlands, October 2015)
- Clinical Exercise Testing (European Respiratory Society Course, Rome, Italy, February 2015)
- Preventing Sudden Cardiac Death in Elite Athletes (International Olympic Committee Sports Cardiology Course, Doha, Qatar, October 2014)

MEDICAL JOURNALS

Medical Journals

1. European Heart Journal – Imaging Methods and Practice (EHJ-IMP) - Editorial Board Member (2023-ongoing)
2. JACC: Cardiovascular Imaging - Emerging Editorial Consultant - 2017-ongoing
3. JACC: Case Reports - Editorial Consultant - 2019-ongoing
4. Journal of Clinical Medicine - Guest Editor on a Special Issue "Complications, Diagnosis and Treatment of Angina" - 2021-ongoing
5. Abstract grader for the ESC, Euroecho, EuroCMR congresses
6. Reviewer
 - European Heart Journal
 - Circulation
 - JACC
 - European Heart Journal of Cardiovascular Imaging
 - JACC Imaging
 - Journal of the American Society of Echocardiography
 - Journal of Cardiovascular Magnetic Resonance
 - Frontiers in Cardiovascular Imaging

ORGANISATION OF SCIENTIFIC MEETINGS

Organisation of Scientific Meetings

- Co-director of the EACVI endorsed "Cardiac Magnetic Resonance Hands-on Course", Bled (Slovenia), March 2024
- Co-director of the "Cardiac CT and MR Hands-on Course", Bled (Slovenia), May 2022
- Co-director of the EACVI endorsed "Slovenian CMR Level 1 course", Bled (Slovenia), October 2018
- Co-director of the "Echocardiographic strain imaging in clinical practice, Symposium with international participation", Ljubljana (Slovenia), November 2019
- Scientific committee member of the "Contemporary cardiology 2022; Annual scientific-professional meeting of the Slovenian Society of Cardiology with international participation", Ljubljana (Slovenia), May 2022
- Scientific committee member of the "Contemporary cardiology 2019; Annual scientific-professional meeting of the Slovenian Society of Cardiology with international participation", Ljubljana (Slovenia), May 2019
- Organising committee member of the "Slovenian transthoracic echocardiography school", 2016-ongoing (bennial teaching course)

INTERNATIONAL RESEARCH PROJECTS

International Research Projects

1. iMODERN (Instantaneous wave-free ratio guided Multi-vessel revascularization During percutaneous coronary intervention for acute myocardial infarction: iMODERN); ClinicalTrials.gov Identifier: NCT03298659.
 - Principal Investigator in UMC Ljubljana - 2019-ongoing
2. EURECA (EUropean REgistry on Cardiovascular Imaging);
 - National coordinator and Principal Investigator in UMC Ljubljana - 2019-ongoing

INVITED LECTURES AT INTERNATIONAL CONFERENCES

Most Important Invited Lectures at International Conferences

1. EACVI Congress 2023, Barcelona, Spain: Optimal timing of intervention in asymptomatic aortic regurgitation
2. Best of Imaging 2022, online: *EACVI survey on hypertrophic cardiomyopathy*
3. Euroecho 2021, online: *Updates in MINOCA: Does CT play a role?*
4. EuroEcho-Imaging 2019, Vienna, Austria: *VHD and heart failure: disease of the valve or the ventricle?*
5. EuroEcho-Imaging 2018, Milano, Italy: *Challenging Aortic Regurgitation - Difficult cases in valvular heart disease: which imaging technique helps me?*
6. EuroEcho-Imaging 2017, Lisbon, Portugal: *CMR Evaluation of Myocardial Fibrosis in Valvular Heart Disease*
7. EuroEcho-Imaging 2016, Leipzig, Germany: *Cardiac Magnetic Resonance.*
8. CMR 2024 (The joint EuroCMR / SCMR Meeting), London, UK: *Global Challenges In Early Career Practice of CMR- Perspectives From Across The World: Challenges in Advocacy*
9. CMR 2018 (The joint EuroCMR / SCMR Meeting), Barcelona, Spain: *Aortic regurgitation – when echo may not be sufficient for the timing of surgery*
10. EuroCMR 2017, Prague, Czech Republic: *EACVI Training Grant for CMR route to success*
11. International Congress of Cardiology 2022, Athens, Greece: *Hot topics in multimodality imaging*
12. XXIII Congress of Cardiology Society of Serbia with international participation, 2021, online: *Arrhythmic mitral valve prolapse - insights from CMR.*
13. Highlights in cardiovascular diseases, Symposium with international participation organized by The Macedonian Society of Cardiology, 2021, online: *Arrhythmogenic mitral valve prolapse*
14. CroEcho 2021, 11th Croatian Biennial Echocardiography Congress with International Participation, 2021, online: *Patient requiring a valve intervention*
15. Cardiovascular Imaging and experience with COVID 19, Symposium with international participation organized by The Macedonian Society of Cardiology, 2020, online: *The role of Cardiac magnetic resonance in cardiac diseases*
16. Cardiovascular magnetic resonance on Balkan - clinical correlations and CMR, 2019, Belgrade, Serbia: *CMR in Sarcoidosis, Amyloidosis and Iron Infiltration*

17. Treći kongres kardiovaskularnog imidžinga Srbije (KIS 2019), 2019, Belgrade, Serbia: *Myocarditis and pericarditis: the role of CMR*
18. CroEcho 2019, 10th Croatian Echocardiography Congress with International Participation, 2019, Poreč, Croatia: *Pitfalls in shunt and flow assessment by CMR; CMR assessment of flow and/or fibrosis – what is more relevant in valvular heart disease?*
19. Sodobna kardiologija 2021, Ljubljana, Slovenia: *Percutaneous versus surgical closing of paravalvular leak*
20. Sodobna kardiologija 2020, Ljubljana, Slovenia: *Vloga EKG obremenitvenega testiranja, stresne ehokardiografije in scintigrafije ter stresne (obremenitvene) magnetne resonance srca v primerjavi z računalniško tomografsko angiografijo koronarnih arterij (primerjava funkcionalne s slikovno diagnostiko)*
21. Alpe Adria Association of Cardiology 2018, Ljubljana, Slovenia: *Multimodality Imaging in Valvular Heart Disease*

RESEARCH PRESENTED AT INTERNATIONAL CONFERENCES

Main Research Presented at International Conferences

1. EACVI Congress 2023, Barcelona, Spain (accepted oral presentation): *Early effect of contemporary radiotherapy protocol on myocardium in patients with breast cancer assessed with cardiac magnetic resonance*
2. EuroCMR 2019, Venice, Italy. *Hypertrophic cardiomyopathy or athlete's heart?*
3. European Society of Cardiology Congress 2018. Munich, Germany (Oral presentation). *Prognostic value of left ventricular global circumferential and longitudinal strain with feature tracking cardiovascular magnetic resonance after ST-segment elevation myocardial infarction.*
4. American College of Cardiology 67th Annual Scientific Session 2018 (ACC.18), Orlando, FL, USA. *Left Ventricular Global Circumferential and Longitudinal Strain with Feature Tracking Cardiovascular Magnetic Resonance Assessment after ST-Segment Elevation Myocardial Infarction: Prognostic Implications.*
5. American Heart Association Scientific Sessions 2017. Anaheim, CA, USA. *Effect of Early Metoprolol on Left Ventricular Functional Recovery of Infarcted and Remote Myocardium after ST-Segment Elevation Myocardial Infarction: Feature Tracking Cardiovascular Magnetic Resonance Assessment.*
6. European Society of Cardiology Congress 2017. Barcelona, Spain (Oral presentation). *Feature Tracking Cardiovascular Magnetic Resonance Assessment of Left Ventricular Global Circumferential and Longitudinal Strain After ST-Segment Elevation Myocardial Infarction: Effect of Early Metoprolol on Left Ventricular Functional Recovery.*
7. American College of Cardiology 66th Annual Scientific Session 2017 (ACC.17), Washington DC, USA. *Sizing Aortic Valve Annulus for Transcatheter Aortic Valve Prosthesis Selection: Impact of Aortic Valve Calcification Burden on the Agreement between Automated 3-Dimensional Transesophageal Echocardiography and Multidetector Row Computed Tomography.*
8. European Society of Cardiology Congress 2016, Rome, Italy. *Head-to-head comparison of novel automated 3-dimensional TEE analysis and multi-detector row computed tomography of aortic annulus dimensions: impact of aortic valve calcification burden.*

PUBLICATIONS

Main Publications

1. **Podlesnikar T**, et al. Radiotherapy-induced cardiotoxicity: the role of multimodality cardiovascular imaging. *Front Cardiovasc Med* 2022 (in press).
2. **Podlesnikar T**, et al. EACVI survey on hypertrophic cardiomyopathy. *Eur Heart J Cardiovasc Imaging*. 2022;23(5): 590-7.
3. **Podlesnikar T**, et al. Five-Year Outcomes and Prognostic Value of Feature-Tracking Cardiovascular Magnetic Resonance in Patients Receiving Early Prereperfusion Metoprolol in Acute Myocardial Infarction. *Am J Cardiol*. 2020;133:39-47.
4. **Podlesnikar T**, et al. Left ventricular functional recovery of infarcted and remote myocardium after ST-segment elevation myocardial infarction (METOCARD-CNIC randomized clinical trial substudy). *J Cardiovasc Magn Reson*. 2020;22:44.

5. **Podlesnikar T**, et al. Effect of Early Metoprolol During ST-Segment Elevation Myocardial Infarction on Left Ventricular Strain: Feature-Tracking Cardiovascular Magnetic Resonance Substudy From the METOCARD-CNIC Trial. *JACC Cardiovasc Imaging*. 2019;12:1188-1198.
6. **Podlesnikar T**, Lapinskas T. Cardiac Involvement in Connective Tissue Disorders: Terra Incognita. *JACC: Case Reports* 2019. DOI: 10.1016/j.jaccas.2019.07.009
7. **Podlesnikar T**, et al. Influence of the Quantity of Aortic Valve Calcium on the Agreement Between Automated 3-Dimensional Transesophageal Echocardiography and Multidetector Row Computed Tomography for Aortic Annulus Sizing. *Am J Cardiol*. 2018;121:86-93.
8. **Podlesnikar T**, Delgado V, Bax JJ. Imaging of Valvular Heart Disease in Heart Failure. *Card Fail Rev*. 2018;4:78-86.
9. **Podlesnikar T**, Delgado V, Bax JJ. Cardiovascular magnetic resonance imaging to assess myocardial fibrosis in valvular heart disease. *Int J Cardiovasc Imaging*. 2017.
10. **Podlesnikar T**, Delgado V. Update: Cardiac Imaging (II). Transcatheter Aortic Valve Replacement: Advantages and Limitations of Different Cardiac Imaging Techniques. *Rev Esp Cardiol (Engl Ed)*. 2016;69:310-321.
11. Delgado V, **Podlesnikar T**. Focal Replacement and Diffuse Fibrosis in Primary Mitral Regurgitation: A New Piece to the Puzzle. *JACC Cardiovasc Imaging* 2021;14(6):1161-3.
12. Neglia D, Liga R, Gimelli A, **Podlesnikar T**, et al. Use of cardiac imaging in chronic coronary syndromes: the EURECA Imaging registry. *Eur Heart J* 2023;44(2):142-58.
13. Bunc M, ... **Podlesnikar T**, et al. Valve-in-valve transcatheter aortic valve implantation with fracturing of a failed small surgical aortic bioprosthesis: a case report. *Eur Heart J Case Rep* 2020;4(6):1-5.
14. Haugaa KH, ... **Podlesnikar T**, et al. Criteria for surveys: from the European Association of Cardiovascular Imaging Scientific Initiatives Committee. *Eur Heart J Cardiovasc Imaging* 2019;20(9):963-6.
15. van der Bijl P, **Podlesnikar T**, Bax JJ, Delgado V. Sudden Cardiac Death Risk Prediction: The Role of Cardiac Magnetic Resonance Imaging. *Rev Esp Cardiol (Engl Ed)* 2018;71(11):961-70.
16. Yoon SH, ... **Podlesnikar T** et al. Transcatheter Mitral Valve Replacement for Degenerated Bioprosthetic Valves and Failed Annuloplasty Rings. *J Am Coll Cardiol* 2017;70(9):1121-31.