

PERSONAL INFORMATION

Adrian-Sebastian Zus



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✉️ adrian.zus@umft.ro

Sex Male | Date of birth [Redacted] | Nationality [Redacted]

WORK EXPERIENCE

- January 2026 - present **Consultant Cardiologist** – Institute of Cardiovascular Diseases Timisoara – Interventional Cardiology Department
Type of activity: interventional cardiology, left and right heart catheterization, coronary angioplasty, peripheral angiography and angioplasty, outpatient medicine
- April 2023 – January 2026 **Specialist Cardiologist**– Institute of Cardiovascular Diseases Timisoara – Interventional Cardiology Department
Type of activity: interventional cardiology, left and right heart catheterization, coronary angioplasty, peripheral angiography and angioplasty, outpatient medicine
- October 2022 – present **Assistant Lecturer** – University of Medicine and Pharmacy „Victor Babeş” Timisoara – Department VI, Cardiology II Discipline
Type of activity: practical sessions, presentations
- May 2020 – June 2023 **Specialist Cardiologist** – Mişcă Medical Center Timisoara
Type of activity: outpatient medicine
- March 2020 – January 2022 **Specialist Cardiologist** – Arad County Hospital – Interventional Cardiology Laboratory
Type of activity: interventional cardiology, coronary angioplasty, emergency cardiology
- January 2015 – March 2020 **Cardiology Resident Physician** – Institute of Cardiovascular Diseases Timisoara, Arad County Hospital, Elias Hospital Bucharest, Mallow General Hospital Ireland

EDUCATION AND TRAINING

- Competency acquisition courses
- Vascular Ultrasound – University of Medicine and Pharmacy „Carol Davila” Bucharest 2025-2026
 - Vascular ultrasound – a routine investigation method – University of Medicine and Pharmacy „Victor Babeş” Timisoara 2023-2024
 - Interventional Cardiology – University of Medicine and Pharmacy „Victor Babeş” Timisoara 2020-2022

- 2022 – 2026 **PhD student**
University of Medicine and Pharmacy „Victor Babeş” Timisoara - Medicine
- 2023 – 2025 **DPPD Psycho-pedagogical Training Program, Levels I and II (Postgraduate)**
"Vasile Goldiș" Western University Arad
- 2009 – 2014 **Bachelor’s Degree - Medical Doctor**
University of Medicine and Pharmacy „Victor Babeş” Timisoara – Faculty of General Medicine
- 2004 – 2008 **Baccalaureate Diploma**
National College "C. D. Loga" Timisoara - Natural Sciences profile

PERSONAL SKILLS

Mother tongue Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Conversation participation	Oral discourse	
English	C1	C1	C1	C1	C1
Cambridge Certificate in Advanced English (2006); IELTS (2017)					
French	A2	A2	A2	A2	A2

Communication skills

Management of complex medical cases using acquired theoretical and practical medical knowledge, through communication and interaction with patients and fellow physicians. Training resident doctors, mentoring students, and delivering presentations.

Organizational/managerial skills

Contributions to the development of hospital-level work protocols, organization of department activity, optimization of the medical coding process (DRG system), and organization of courses and certification examinations.

Preparation of the technical specifications for the procurement of a monoplane angiography system for the cross-border project Interreg VI-A IPA Romania–Serbia 2021–2027, RORS00216 Neuro-Cardiology – From Prevention to Rehabilitation.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent	Independent	Independent	Independent	Independent

User of healthcare administration and management software, clinical study data management software, and medical data processing tools for scientific work (medical statistics).

Driving license

Category A, B

Affiliations	<p>Romanian College of Physicians Romanian Society of Cardiology - Interventional Cardiology Working Group European Society of Cardiology European Association of Percutaneous Cardiovascular Interventions Research Center of the Institute of Cardiovascular Diseases Timisoara</p>
Certifications	<p>Certificate of complementary studies in interventional cardiology (2022) Certificate of complementary studies in general echocardiography (2020) License to practice interventional radiology, level 2 European certification in Basic Life Support and Advanced Life Support EuroPCR Fellows Course, USMLE Step 1, MRCPI(UK) 1 și 2 CK</p>
Posters	<ul style="list-style-type: none"> • Hypertrophic Cardiomyopathy Associated with Aortic Stenosis - A Double Trouble Case Study – C. RUS, A.S. ZUS, M. LAZAR, C.T. LUCA – Hereditary Cardiovascular Diseases 2025 • Thrombophilia & Cardiovascular Risk: A Case Study – A. Carlaonț, A. S. Zus, D. D. Nișulescu, C. T. Luca – Congresul National de Cardiologie al Society Române de Cardiologie Sinaia 2024 • ARTERIAL STIFFNESS IN PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE Morgovan, A.; Buzas, R.; Ivan, V.; Zus, S.; Lighezan, D. Journal of Hypertension: June 2015 - Volume 33 - Issue - p e182 doi: 10.1097/01.hjh.0000467890.65965.b5
Presentations	<ul style="list-style-type: none"> • „Angioplastia coronariană de urgență la pacientul cu TAVI în antecedente” – CardioCulture, Timisoara 2025 • „OCT for guiding calcified LAD bifurcation stenting” – Curs „Intravascular imaging” Bucharest 24 mai 2024 • „A bifurcation and a trifurcation” – sesiunea „Cazuri clinice – tratamentul intervențional al leziunilor coronariene de bifurcație”, Conference de Primăvară a SRC Sibiu 2024 • „The Challenges of Acute Myocardial Infarction: A Case Study with Multifaceted Complications” – Borlovan Roxana Maria, Zus Sebastian – International Medical Congress for Students and Young Doctors – Timisoara 2024 • „Infarctul miocardic de tip 2 – diferențe în tratament” – Cursul „Problems in the diagnosis and treatment of acute myocardial infarction” Timisoara martie 2023 • „Sindrom coronarian acut la o pacientă cu arteră coronară unică trifurcată cu origine din sinusul coronar drept” - A.S. Zus, L.L. Matei, C.M. Georgescu, M. Melnic, A.C. Popescu, S.M. Bălănescu – National Cardiology Congress 2019, ediția 58, sesiunea „Cel mai interesant caz clinic”
H-index	<p>Google Scholar: 4 Web of Science: 3</p>

ISI Publications:

- Patru, O.; Luca, S.; Cozma, D.; Vacarescu, C.; Crisan, S.; Bena, A.; Virtosu, M.; Zus, A.S.; Luca, C.T.; Dragan, S.R. Impact of Late ARNI Initiation on Quality of Life and Functional Capacity in CRT-Treated HFrEF Patients: A Single-Centre Cohort Study. *J. Clin. Med.* **2026**, *15*(4), 1617. <https://doi.org/10.3390/jcm15041617>
- Grigorescu, A.E.; Novaconi, R.C.; Munteanu, I.R.; Manzur, A.R.; Zus, A.S.; Lazar, M.-A.; Voinescu, O.R.; Crişan, S.; Feier, H.B. Cardiac Hemangioma in the Right Atrium: Diagnostic Challenges, Imaging Clues, and a Novel Algorithm for Differential Diagnosis. *Life* **2025**, *15*, 1816. <https://doi.org/10.3390/life15121816>
- Zus, A.S.; Crişan, S.; Luca, S.; Nişulescu, D.; Valcovici, M.-D.; Pătru, O.; Lazăr, M.-A.; Văcărescu, C.; Gaiţă, D.; Luca, C.-T. Retrospective Analysis of Angiographic Radial Artery Spasm Predictors. *Life* **2025**, *15*, 1759. <https://doi.org/10.3390/life15111759>
- Pătru, O.; Luca, S.; Cozma, D.; Văcărescu, C.; Crişan, S.; Valcovici, M.D.; Virtosu, M.; Zus, A.S.; Luca, C.-T.; Drăgan, S.R. Cardiac Rehabilitation in the Era of CRT and ARNI: A Missing Link in Heart Failure with Reduced Ejection Fraction Care. *J. Clin. Med.* **2025**, *14*, 6766. <https://doi.org/10.3390/jcm14196766>
- Zus, A.S.; Crişan, S.; Luca, S.; Nişulescu, D.; Valcovici, M.; Pătru, O.; Lazăr, M.-A.; Văcărescu, C.; Gaiţă, D.; Luca, C.-T. Topical Nitroglycerin for Radial Access Optimization: Supporting Vascular Access in Patients at Risk for Acute Heart Failure. *Medicina* **2025**, *61*, 1016. <https://doi.org/10.3390/medicina61061016>
- Pătru, O.; Luca, S.; Cozma, D.; Văcărescu, C.; Crişan, S.; Valcovici, M.D.; Virtosu, M.; Zus, A.S.; Luca, C.T.; Drăgan, S.R. The Role of ARNI in Enhancing Outcomes of Cardiac Resynchronization Therapy: A Comprehensive Review. *J. Clin. Med.* **2025**, *14*, 2743. <https://doi.org/10.3390/jcm14082743>
- Zus, A.S.; Crişan, S.; Luca, S.; Nişulescu, D.; Valcovici, M.; Pătru, O.; Lazăr, M.-A.; Văcărescu, C.; Gaiţă, D.; Luca, C.-T. Radial Artery Spasm—A Review on Incidence, Prevention and Treatment. *Diagnostics* **2024**, *14*, 1897. <https://doi.org/10.3390/diagnostics14171897>
- Rosca, C.I.; Lighezan, D.F.; Cozma, G.V.; Branea, H.S.; Nisulescu, D.D.; Zus, A.S.; Morariu, S.I.; Kundnani, N.R. To Be, or Not to Be ... Pectoral Angina? The Pain Is the Same, but the Etiology Is Different—A Case Report. *Life* **2024**, *14*, 1066. <https://doi.org/10.3390/life14091066>
- Rus, A.-A.; Pescariu, S.-A.; Zus, A.-S.; Gaiţă, D.; Mornoş, C. Impact of Short-Term Exposure to Nitrogen Dioxide (NO₂) and Ozone (O₃) on Hospital Admissions for Non-ST-Segment Elevation Acute Coronary Syndrome. *Toxics* **2024**, *12*, 123. <https://doi.org/10.3390/toxics12020123>
- Militaru, A.; Zus, S.; Cimpean, A.M.; Iurciuc, S.; Matusz, P.; Iurciuc, M.; Lighezan, D.; Militaru, M. Early Diagnosis of Cardiotoxicity in Patients Undergoing Chemotherapy for Acute Lymphoblastic Leukemia. *Anticancer Res.* **2019**, *39*, 3255–3264. <https://doi.org/10.21873/anticancer.13467>

Book chapters

- Mornos, C., Zus, AS. (2024). Renal Vascular Anomalies. In: Covic, A., Burlacu, A. (eds) Contemporary Approaches to Renal Vessels Disorders. Springer, Cham. https://doi.org/10.1007/978-3-031-71930-1_3
- S. Zus, C. Mornoş, Chronic coronary syndrome - from medication to intervention; C. Mornoş, S. Zus, Acute inferior myocardial infarction revascularized by primary percutaneous angioplasty; C. Mornoş, I. Ionac, S. Zus, Acute coronary syndrome in a young woman with thrombophilia; S. Zus, C. Mornoş, Peripheral arterial disease - systemic manifestation of atherosclerosis. In: C.T. Luca (ed) Collection of Clinical Cases in Cardiology, Victor Babeş Publishing House Timisoara, **2025**, ISBN 978-606-786-481-6

Congresses, conferences and courses

- 2026
 - 15th Bulgarian Bifurcation and Complex Coronary Interventions Course (Sofia)
- 2025
 - EuroPCR (Paris), Complicated myocardial infarction (Timisoara), CardioCulture (Timisoara), Romanian & Hungarian CTO Workshop (Oradea)
- 2024
 - Updates in myocardial revascularization (Bucharest), Intravascular imaging (Bucharest), New perspectives in emergency cardiology (Timisoara), CardioCulture (Timisoara), National Cardiology Congress (Sinaia), Romanian Society of Cardiology Spring Conference (Sibiu), Prevention, therapeutic approach and communication in family medicine (Timisoara), Romanian & Hungarian CTO Workshop (Oradea)
- 2023
 - Problems in the diagnosis and treatment of acute myocardial infarction (Timisoara), CardioCulture (Timisoara), EuroPCR (Paris), Romanian Society of Cardiology Spring Conference (Sibiu)
- 2022
 - EuroPCR (Paris), Carotid Doppler ultrasound course (Sibiu), CardioCulture (Timisoara), CHIP (Bucharest), Romanian Society of Cardiology Spring Conference (Sibiu), National Cardiology Congress (Sinaia), Complications in interventional cardiology (Bucharest)
- 2021
 - Coronary intravascular imaging, Complications in interventional cardiology (Bucharest), From A to Hypertension, CardioCulture, Basic imaging notions for heart failure management, Valvular Heart Disease Forum, Provas IX, Diagnostic and treatment problems in CCS, National Cardiology Congress, Romanian Society of Cardiology Spring Conference
- 2020
 - ACS - from the emergency room to the follow-up visit, CHIP, EuroPCR, ESC Congress, Provas VII, Romanian Society of Cardiology Spring Conference
- 2019
 - Romanian Society of Cardiology Spring Conference (Sibiu), National Cardiology Congress (Sinaia)
- 2018
 - Romanian Society of Cardiology Spring Conference (Sibiu), National Cardiology Congress (Sinaia), Phlebotomy Workshop (Swords – Ireland), Cardiovascular Emergencies (Timisoara), STEMI Guideline - evidence and controversies (Timisoara)
- 2017
 - Provas 4 (Oradea), CARDIOCOAG (Arad), Complex coronary revascularization STEMI/non-STEMI/CTO (Oradea), Interventional treatment of non-coronary pathology (Bucharest)
- 2016
 - Romanian Society of Cardiology Spring Conference (Sibiu), National Cardiology Congress (Sinaia), National Interdisciplinary Medicine Conference NefroCarDia (Timisoara)
- 2015
 - National Hypertension Conference (Timisoara), Romanian Society of Cardiology Spring Conference (Sibiu), National Cardiology Congress (Sinaia)
- 2014
 - Residual risk reduction (Timisoara)
- 2012
 - Sudden cardiac death and cardioprotection (Timisoara)