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Paul-Adrian Călburean

Nationality: Romanian | **Gender:** Male | paul.calburean@umfst.ro | calbureanpaul@gmail.com | Târgu Mureș, Romania

WORK EXPERIENCE

01/01/2018 – CURRENT
CARDIOLOGY SPECIALTY TRAINING – EMERGENCY INSTITUTE FOR CARDIOVASCULAR DISEASES AND TRANSPLANTATION OF TÂRGU MUREȘ, ROMANIA

01/10/2019 – CURRENT – Târgu Mureș, Romania
ASSISTANT PROFESSOR – GEORGE EMIL PALADE UNIVERSITY OF MEDICINE, PHARMACY, SCIENCE, AND TECHNOLOGY OF TÂRGU MUREȘ

Departament of Biostatistics and Medical Informatics

01/03/2021 – 31/10/2021 – Brussels, Belgium
RESEARCH FELLOW – HEART RHYTHM MANAGEMENT CENTRE, UNIVERSITAIR ZEKENHUIS BRUSSEL, BELGIUM

02/05/2019 – 28/06/2019 – Brussels, Belgium
RESEARCH FELLOW – HEART RHYTHM MANAGEMENT CENTRE, UNIVERSITAIR ZEKENHUIS BRUSSEL, BELGIUM

EDUCATION AND TRAINING

01/10/2019 – CURRENT
DOCTORAL STUDIES – George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Târgu Mureș

Thesis Evaluation of correlation between advanced electrocardiographic parameters of sudden cardiac death and complexity of coronary lesions

01/10/2018 – CURRENT
MASTER OF ADVANCED MEDICO-PHARMACEUTICAL SCIENTIFIC RESEARCH – Doctoral School of University of Medicine and Pharmacy of Târgu Mureș

Thesis The impact of autonomic nervous system on atrial fibrillation recurrence after repeated transcatheter ablation procedure

30/06/2018 – 07/07/2018
YOUNG CARDIOLOGISTS' SUMMER SCHOOL – Romanian Society of Cardiology

10/2011 – 09/2017
MEDICAL DOCTOR – Faculty of Medicine, University of Medicine and Pharmacy of Tîrgu Mureș

Thesis The impact of beta-blocker treatment on risk of sudden cardiac death in acute phase of ST-elevated myocardial infarction

11/07/2016 – 16/07/2016
SUMMER CARDIOLOGY SCHOOL "THE HEART - FROM FUNCTION TO DYSFUNCTION" – University of Medicine and Pharmacy Victor Babeș, Timișoara, Romania

2014 – 2016
UNDERGRADUATE TEACHING ASSISTANT – Pharmacology Department, University of Medicine and Pharmacy of Târgu Mureș

01/07/2014 – 25/07/2014
HEMATOLOGY CLINICAL PRACTICE – Ankara University, School of Medicine, Ankara, Turkey

LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

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

DIGITAL SKILLS

My Digital Skills

Matlab | Python | R

PUBLISHED ARTICLES

Extenso ISI articles

1. **Călburean P-A,** Grebenișan P, et al.: Prediction of 3-year all-cause and cardiovascular cause mortality in a prospective percutaneous coronary intervention registry: Machine learning model outperforms conventional clinical risk scores. Atherosclerosis 2022; 350:33–40. IF 2021:6,847, Q1.
2. **Călburean P-A,** Hadadi L, Rudzik R, Dobreanu D: Coronary fibromuscular dysplasia with three-vessel involvement: a rare cause of ischaemic dilated cardiomyopathy in a very young male. Cardiol Young Cambridge University Press, 2022; :1–4. IF 2021:1,093, Q4.
3. **Călburean P-A,** Osório TG, et al.: High parasympathetic activity as reflected by deceleration capacity predicts atrial fibrillation recurrence after repeated catheter ablation procedure. J Interv Card Electrophysiol 2021; 60:21–29. IF 2021:1,759, Q4.

4. **Călburean P-A,** Sorgente A, et al.: High vagal tone predicts pulmonary vein reconnection after cryoballoon ablation for paroxysmal atrial fibrillation. Pacing Clin Electrophysiol 2021; 44:2075–2083. IF 2021:1,912, Q4.
5. Stroe VI, **Calburean PA**, et al. Cardiac mesenchymal hamartoma associated with transposition of the great arteries in a neonate. Rev Romana Med Lab. 2019;27(1):85-8. IF 2019:0,493, Q4, corresponding author.
6. Pannone L, Monaco C, **Calburean P,** et al.: High-density epicardial mapping in Brugada syndrome: Depolarization and repolarization abnormalities. Heart Rhythm 2022; 19:397–404. IF 2021:6,779, Q2.
7. Pannone L, **Calburean P,** et al.: Ajmaline-Induced Abnormalities in Brugada Syndrome: Evaluation With ECG Imaging. J Am Heart Assoc American Heart Association, 2022; 11e024001. IF 2021:6,106, Q2.
8. Pannone L, Monaco C, **Calburean P,** et al.: SCN5A mutation in Brugada syndrome is associated with substrate severity detected by electrocardiographic imaging and high-density electroanatomic mapping. Heart Rhythm 2022; S1547-5271(22)00108-4. IF2021:6,779, Q2.
9. Monaco C, Galli A, **Călburean P-A**, et al: Hybrid-Approach Ablation in Drug-Refractory Arrhythmogenic Right Ventricular Cardiomyopathy. American Journal of Cardiology. IF 2021:3.133, Q3.
10. Iacopino S, Osório TG, **Calburean P,** et al.: Safety and feasibility of electrical isolation of the superior vena cava in addition to pulmonary vein ablation for paroxysmal atrial fibrillation using the cryoballoon: lessons from a prospective study. J Interv Card Electrophysiol 2021; 60:255–260. IF 2021:1,759, Q4.
11. Overeinder I, **Călburean P-A,** et al.: Comparison between superior vena cava ablation in addition to pulmonary vein isolation and standard pulmonary vein isolation in patients with paroxysmal atrial fibrillation with the cryoballoon technique. J Interv Card Electrophysiol 2021; 62:579–586. IF 2021:1,759, Q4.
12. Bisignani A, Pannone L, **Calburean P,** et al.: Repeat procedures for recurrent persistent atrial fibrillation: A propensity-matched score comparison between left atrial linear ablation with radiofrequency and posterior wall isolation with the cryoballoon. J Arrhythmia 2021; 37:1287–1294.

Extenso BDI papers

1. Goia CM, **Calburean PA**, Stroe VI, Lates GA, Al-Akel CF, Mathe Z, et al. Fighting for life - complicated outcome after arterial switch operation. Acta Medica Transilvanica. December 2018;23(4):41-43, corresponding author.
2. Osório TG, Chierchia G-B, Maj R, **Calburean P,** et al.: Standardized Quantification of Vagal Denervation by Extracardiac Vagal Stimulation during Second Generation Cryoballoon ablation: a Vein per Vein Analysis. J Atr Fibrillation 2019; 12:2223. DOI: 10.4022/jafib.2223.
3. Hadadi L, **Calburean P,** Grebenisan P, et al.: Mortality predictors after percutaneous coronary intervention-a prospective single-center registry study. Romanian J Cardiol 2020; 30. DOI: 10.47803/rjc.2020.30.3.413
4. Stroe VI, Goia CM, **Calburean PA**, Mathe Z, Lates GA, Al-Akel CF, et al. Delayed sternum closure after arterial switch procedure. Acta Medica Transilvanica. December 2018;23(4):38-40.

OTHER SCIENTIFIC ACTIVITY

Prizes for scientific activity

1. ”Premierea excelenței în cercetare” a Societății Române de Cardiologie, secțiunea ”Articole cotate ISI” pentru articolul cu titlul ” Prediction of 3-year all-cause and cardiovascular cause mortality in a prospective percutaneous coronary intervention registry: Machine learning model outperforms conventional clinical risk scores”.
2. Premiul I în cadrul sesiunii “Cele mai bune lucrări ale cardiologilor tineri” pentru lucrarea “Tonusul parasimpatic crescut se asociază cu reconectarea venelor pulmonare documentată la ablații transcateter repetate pentru recurența fibrilației atriale”, Congresul Național de Cardiologie 16-19 Septembrie 2020.
3. Premiul MONICA MĂRĂȘOIU pentru cea mai bună lucrare prezentată de un tânăr cercetător in Informatică Medicală pentru lucrarea „Prediction of 3-Year All-Cause Death in a Percutaneous Coronary Intervention Registry using Machine Learning: A Comparison Between Random Forest and CatBoost Algorithms”, RoMedINF 2021 - Digital Technology and Healthcare conference 16-17 Septembrie 2021, Cluj-Napoca.
4. Premiul ROMEDINF pentru cea mai bună lucrare ce contribuie la dezvoltarea Informaticii Medicale pentru lucrarea „Implementation of deceleration capacity measurement algorithm in MatLab”, RoMedINF 2019 - Digital Technology and Healthcare conference 19-20 Septembrie 2019, Cluj-Napoca.

Other

Peer-review for:

1. European Heart Journal
2. Frontiers in Cardiovascular Medicine
3. Journal of Interventional Cardiac Electrophysiology

Member of:

1. Romanian Society of Cardiolgy
2. European Society of Cardiology
3. European Heart Rhythm Association