

Curriculum Vitae

Esther Pérez David, MD, PhD

Application for the position of:

Nominating Committee member



Personal Information:

Place and Date of Birth: Malaga (Spain), May 14th 1971

Nationality: Spanish

Current Position and Professional Address

Valve Heart Disease Unit Coordinator. Cardiology Department. Hospital Universitario La Paz
Paseo de la Castellana, 261, 28046 Madrid.

Education and Postgraduate Training

- Graduate in Medicine and Surgery by the Universidad Autónoma de Madrid (1988-94).
- Specialist in Cardiology. Board Certification in Cardiology in 1999. Hospital General Universitario Gregorio Marañón (1995-1999).
- PhD Degree by the Universidad Autónoma de Madrid (2004).
- Accreditation as Contracted Doctoral Lecturer and Private University Professor by the ANECA (National Agency for Quality Assessment and Accreditation) in 2022

European Society of Cardiology Activities

- Member of the ESC Valvular Heart Disease Guideline Task Force issued in august 2025 (2023-2025)
- ESC Professional Member. Application for Fellow of the ESC currently under review
- EACVI Silver Member. Active certifications: Cardiovascular Magnetic Resonance Certification (CMR) - Level 3, Adult Transthoracic Echocardiography (TTE)
- Councils and Working groups: Council on Valvular Heart Disease , WG on Adult Congenital Heart Disease
- ESC Congress Abstract Grader

Participation in Other International Scientific Committees

- Member of the EuroHeartPath consortium, focused on cross-country comparisons to better understand how care is organized and delivered, identify best practices, and promote integrated, patient-centered solutions.
- Member of the Scientific Committee of the MINICOR [Multi-Modal International Cardiovascular Outcomes Registry] Consortium.

- Member of the Scientific Committee of the MAGERIT Consortium - Medical AuGmentEd Reality and Digital Twins

Editorial Boards

- Member of the Editorial Board of the Spanish Journal of Cardiology
- Member of the Editorial Board of European Cardiology Review (ECR)

Leadership and Management Experience

Current institution (Hospital Universitario La Paz):

- Coordinator of the Valve Heart Disease Unit at Hospital Universitario La Paz (March 2025-ongoing). Her responsibilities include multidisciplinary team coordination, development of care standards, integration of imaging and interventional decision-making, and ensuring alignment with european clinical guidelines.
- Head of the Cardiac Imaging Section at Hospital Universitario La Paz (2020-February 2025). Responsible of service organisation, resource allocation, protocol development, and quality assurance across advanced cardiovascular imaging modalities..
- Coordination of competitive national projects funded by the Instituto de Salud Carlos III, the Spanish Society of Cardiology, and other research institutions. As Principal Investigator in several multicenter translational and clinical studies, she is responsible for scientific planning, team leadership, regulatory compliance, and budget management. Main ongoing projects: PI22/00707 Instituto de Salud Carlos III 2023-2027. Founding: 94.985 €; Clinical Investigation Projects, Spanish Society of Cardiology. Founding: 15000 €. 2025-2027.
- Coordination of the Work Package 7 (SCALE-UP) from the EuroHeartPath project, funded by Innovative Health Initiative-European Union
- Member of the Internal Scientific Committee of the Research Institute of La Paz University Hospital (IdiPAZ), contributing to strategic research planning and evaluation.

Prior institution (Hospital Gregorio Marañón, 2004-2020):

- In her previous position as Cardiac Imaging cardiologist at Hospital Gregorio Marañón (2004-2020), she played a central role in the establishment and growth of the clinical and research CMR program. He was also responsible for coordinating the CMR research core lab between 2010 and 2020
- Coordination of the Cardiac MRI Working Group of the Spanish Society of Cardiology (2008-2012)

Fellowships and Honours

1. Fellowships / Training Stay:

- Cardiac MRI Fellowship, Deutsches Herz Zentrum Berlin (Germany) March–July 2003, under the supervision of Dr Eike Nagel, for advanced training in Cardiac Magnetic Resonance

2. Awards, Prizes and Distinctions

- Young Investigator Award, in recognition of the original scientific work presented for Euroecho 7 in 2003. Awarding body: European Society of Echocardiography. Awarded work: Quantitative myocardial contrast echo improves accuracy for prediction of ventricular recovery compared to qualitative assessment in patients with acute myocardial infarction treated with primary angioplasty
- Premio Doctor Cardeñosa, awarded by the Real Academia Nacional de Medicina (Madrid, Spain), 2004
- Doctoral Distinction: PhD Extraordinary Award, Universidad Autónoma de Madrid. Awarded for her doctoral thesis on the use of contrast echocardiography for myocardial blood flow assessment in 2005.

- Prize for Best Communication – Echocardiography Section Meeting (2002). Awarding Body: Echocardiography Working Group, Spanish Society of Cardiology. Awarded Work: “Intramyocardial heterogeneity of age-related changes in diastolic function in normal subjects”

Honorary Memberships

Honorary Professorship, Department of Medicine, Universidad Autónoma de Madrid (UAM)

Top 10 Most Relevant Publications

1. ESC/EACTS Guidelines for the management of valvular heart disease. Praz F, Borger MA, Lanz J, Marin-Cuartas M, Abreu A, Adamo M, Ajmone Marsan N, Barili F, Bonaros N, Cosyns B, De Paulis R, Gamra H, Jahangiri M, Jeppsson A, Klautz RJM, Mores B, Pérez-David E, Pöss J, Prendergast BD, Rocca B, Rossello X, Suzuki M, Thiele H, Tribouilloy CM, Wojakowski W; ESC/EACTS Scientific Document Group.. *Eur Heart J*. 2025 Aug 29;ehaf194. doi: 10.1093/eurheartj/ehaf194
2. Postigo A, Pérez-David E et al. A comparison of the clinical efficacy of echocardiography and CMR for chronic aortic regurgitation. *European heart journal cardiovascular Imaging* 2022 Feb, 23 (3), 392 - 401
3. Arteagoitia Bolumburu A, Monteagudo Ruiz JM, Mahia P, Pérez David E et al. Determinants of Tricuspid Regurgitation Progression. *JACC Cardiovasc Imaging*. 2024 Jun;17(6):579-591
4. Arenal Á, Ríos-Muñoz GR, Carta-Bergaz A, Ruiz-Hernández PM, Pérez-David E, Crisóstomo V, et al. Effects of Cardiac Stem Cell on Postinfarction Arrhythmogenic Substrate. *Int J Mol Sci*. 2022 Dec 19;23(24):16211
5. Ávila P, Pérez-David E, Izquierdo M et al. Scar extension measured by magnetic resonance–based signal intensity mapping predicts ventricular tachycardia recurrence after substrate ablation in patients with previous myocardial infarction. *Clinical Electrophysiology* 2015 Oct ; 1 (5): 353 – 65
6. Arenal A, Pérez-David E et al. Non-invasive Identification of Epicardial Ventricular Tachycardia Substrate by Magnetic Resonance-Based Signal Intensity Mapping *Heart Rhythm*. 2014 Aug;11(8):1456-64
7. Perez-David E, Arenal A, Rubio-Guivernau JL et al. Noninvasive identification of ventricular tachycardia-related conducting channels using contrast-enhanced magnetic resonance imaging in patients with chronic myocardial infarction. *J Am Coll Cardiol*. 2011 Jan 11;57(2):184-94.
8. Arenal A, Hernández J, Pérez-David E et al. Do the spatial characteristics of myocardial scar tissue determine the risk of ventricular arrhythmias? *Cardiovasc Res*. 2012 May 1;94(2):324-32
9. Bueno H, Martinez-Selles M, Pérez-David et al. Effect of thrombolytic therapy on the risk of cardiac rupture and mortality in older patients with myocardial infarction. *Eur Heart J*. 2005 Sep; 26(17): 1705-11
10. MA García Fernández, Pérez-David E et al. The role of left atrial appendage obliteration in stroke reduction in patients with mitral prosthesis. *J Am Coll Cardiol* 2003;42:1253-1258

Major Research Interest

Dr Esther Pérez David’s research activity is centred on the advanced characterization of myocardial disease using cardiovascular imaging, with a particular emphasis on CMR. Her work integrates imaging and translational research to improve diagnostic accuracy, risk stratification, and therapeutic planning in structural heart disease.

Her interests also extend to advanced post-processing techniques and image-analysis tools, developed through a longstanding collaboration with the Biomedical Imaging Technologies Group (BIT) Polytechnic University of Madrid. This multidisciplinary collaboration—ongoing since 2001—has enabled the creation of innovative algorithms and computational methods for myocardial deformation, tissue characterization, and arrhythmogenic substrate analysis.