

## **CURRICULUM VITAE**

**Antonia Sambola Ayala, M.D., Ph.D.  
Acute Cardiac Care Unit  
Department of Cardiology  
Vall d'Hebron University Hospital  
Universitat Autònoma de Barcelona**

**February, 2024**

**Name:**

**Professional management:**

Consultant in Acute Cardiac Care Unit.  
Department of Cardiology

## **A. ACADEMIC FORMATION**

### **I. Introduction**

**1975 – 1977** Extraordinary High School award

**1978 – 1983** Bachelor of Medicine and Surgery. University of Barcelona.

**1984 – 1987** Resident in Family Medicine. MIR Formation Hospital General Universitario de Dr. Peset (Valencia) and Hospital Universitario Bellvitge, Barcelona, Spain.

**1994 – 1998** Resident in Cardiology. MIR Formation. Nº 62. Hospital Clínic Universitari Barcelona.

**2016** – Specialist in acute cardiac care accredited by the European Society of Cardiology.

### **II. Ph D. Doctoral Thesis**

**October 1992 – March 1994**

Universidad Autónoma de Barcelona (1994). Doctoral thesis title: ***“Previous aspirin use may attenuate the severity of the manifestation of acute ischemic syndromes.”*** Qualification: Excellent. *“Cum laude”*.

### **III. Formative stays abroad**

**June 2000 - October 2001**

Fellow in ***“Thrombosis Cardiovascular Research”***. Department of Cardiology. Mount Sinai School of Medicine. New York, USA.

**Director fellowship and mentor: Dr. Valentín Fuster Carulla**

### **IV. Academic records**

Extraordinary High School awards. Entrance exam: 9,7/10.

**1983** Bachelor of Medicine and Surgery. University of Barcelona.

## B. TEACHING ACTIVITY

### I. AQU accreditation as investigation/professor since 2010.

#### **Chaired Doctoral thesis:**

*“Evaluation of the efficiency and the security of the direct action oral anticoagulants in patients with auricular fibrillation subjected to percutaneous coronary interventionism with stent implantation.”* **Doctoral student: Núria Casamira Ruiz.**

**Qualification: Excellent “Cum Laude”.** Read on November 19, 2020 at 4:30 p.m. in the Pharmacy Faculty.

*“Predictors in advanced cardio resonance of cardiovascular events and ventricular remodeling.”* **Doctoral student: Albert Alonso Tello.** In progress.

*Impact of gender role in cardiovascular diseases in women.* **Doctoral student: Soledad Ascoeta.** In progress.

**Master's thesis in Translational Biomedical Research. Universitat Autònoma of Barcelona.**

**2016 Student:** Sara Sansaloni *“Analysis of the antioxidant capacity and serum composition of the diabetic patients in acute phase of IAMEST. Study of the thrombus composition obtained by primary angioplasty by immunohistochemistry.”*  
**Qualification: excellent.**

**2017 Student: Guillermo Borrás.** *“Differences between sexes in the intracoronary thrombus composition in patients with acute myocardial heart attack.”* **Qualification: excellent.**

**2023. Student Gala Granero.** *“Cellular senescence and thrombogenicity in patients with STEMI”.* In progress.

### II. Teaching received with high added value

**1995 – 1997** Master's degree in the management of ischemic heart disease. University of Barcelona (38 credits).

**1988 – 1991** Master's degree in research design and statistics in health sciences. Universitat Autònoma de Barcelona (330 hours).

**2014 – 2015** Master's degree in acute cardiac care. (60 Credits). Catholic University of San Antonio Murcia.

**2016** Master's degree in acute cardiac care. European Society of Cardiology.

### III. **Experience as clinical associate professor**

**2008 – Present** Clinic associate professor in Cardiology. Faculty of Medicine. Vall d'Hebrón University Hospital. Universitat Autònoma de Barcelona.

- **921,7 hours.**

### IV. **Another accredited teaching imparted**

**2006 – Present** Teaching collaborator in resident rotations.

**2014 – Present** Coordinator and professor of the Master's degree Biomedical translational research: area of cardiovascular diseases (6 ECTS). VHI

Universitat Autònoma de Barcelona. (Module of 40 hours per year).

### **Courses taught:**

**2010** *“Echocardiography in Intensive Care.”* Vall d'Hebrón University Hospital.

- **Chair.** *“Role of echocardiography in critical situations.”*

**2010** *“Intensive care in Cardiology.”* Vall d'Hebrón University Hospital.

- **Chair.** *“Acute coronary symptoms.”*

**2010** *“VI Echocardiography course in emergency, intensive care, operating room and resuscitation.”* Vall d'Hebrón University Hospital.

- **Moderator.** *“Role of echocardiography in critical situations.”*

**2011** *“I Course on Cardiological Intensive Care in a critical patient.”* Hospital Vall d'Hebron.

- **Speaker.** *“New antithrombotics in acute coronary syndromes.”*

**2011** *“VII Echocardiography course in emergencies, intensive care, operating*

*room and resuscitation in Intensive Care.*" Vall d'Hebrón University Hospital.

- **Chair.** *"Role of echocardiography in critical situations."*

**2011** *"Workshop on valvular heart disease"*. Vall d'Hebrón University Hospital.

- **Speaker.** *"Clinical follow-up in aortic insufficiency."*

**2012** *"VIII Echocardiography course in emergencies, intensive care, operating room and resuscitation in Intensive Care."* Vall d'Hebrón University Hospital.

- **Chair.** *"Critical situations in Cardiology."*

**2013** *"IX Echocardiography course in emergencies, intensive care, operating room and resuscitation in Intensive Care."* Vall d'Hebrón University Hospital.

- **Chair.** *"Critical situations in Cardiology."*

**2014** *"X Echocardiography course in emergencies, intensive care, operating room and resuscitation in Intensive Care."* Vall d'Hebrón University Hospital.

- **Chair.** *"Critical situations in Cardiology."*

**2015** *"XI Echocardiography course in emergencies, intensive care, operating room and resuscitation in Intensive Care"*. Vall d'Hebrón University Hospital.

- **Chair.** *"Critical situations in Cardiology."*

**2016** *"XII Echocardiography course in emergencies, intensive care, operating room and resuscitation in Intensive Care"*. Vall d'Hebrón University Hospital.

- **Chair.** *"Critical situations in Cardiology."*

**2017** *"Course of excellence in Cardiology BMW"*. Gregorio Marañón University Hospita

- **Chair.** *“Anticoagulation in patients with atrial fibrillation undergoing coronary angioplasty.”*

**2018** *“Course on ischemic heart disease in women”*. Spanish Society of Cardiology.

- **Director and speaker.**

**2018** *“XXV Course on cardiac stimulation and implantable systems.”* Vall d’Hebrón University Hospital. Spanish Society of Cardiology.

- **Chair.**

**2018** *“XXX Course on cardiac stimulation and implantable systems.”* Vall d’Hebrón University Hospital. Spanish Society of Cardiology.

- **Chair.**

**2019** *“Management workshop in cardiogenic shock, not everyone is the same.”* Vall d’Hebrón University Hospital. Spanish Society of Cardiology.

- **Director and speaker.**

**2019** *“Course on cardiovascular disease in women.”* Spanish Society of Cardiology.

**-Director and speaker**

**2020** *“Course on cardiovascular disease in women.”* Spanish Society of Cardiology.

**-Director and speaker**

**2021** *“Course on cardiovascular disease in women.”* Spanish Society of Cardiology.

**-Director and speaker**

**2021** *“I Aragonese Cardiovascular Update Course”*

- **Speaker.** *“Cardiogenic shock in women.”*
- **2022 “Course on cardiovascular disease in women” Spanish Society of Cardiology**
- **Director and speaker**

**-2022** “XLI Course on echocardiography and doppler” University Hospital  
Vall “Hebron

**-Chair**

**2022** “Course on Cardiovascular prevention in women “

**-Chair and speaker**

**-2023** “Course on cardiovascular disease in women” Spanish Society of  
Cardiology

**-Director and speaker**

**2023** “Course on Addressing the entire spectrum of cardiovascular  
disease. Update from the clinic’s point of view” Spanish Society of  
Cardiology

- **-Speaker**

- **2023** “Update on pre-pregnancy counseling and pregnancy monitoring in  
heart disease women”. Spanish Society of Cardiology

**-Speaker**

**2021 Chair Webinar:** “*Cardiac emergencies in women.*” ACVC Association.  
European Society of Cardiology

**2022 Chair Webinar “**

- **Sex-related differences in acute heart failure**

**Host: Doctor A. Sambola (Barcelona, ES)**

**Speakers: Assistant Professor S. Gevaert (Gent, BE) , Doctor L. Milà (Barcelona,  
ES) , Doctor B. Vogel (New York, US)**

<https://esc365.escardio.org/event/911>

[https://www.escardio.org/Education/ESC-Education-by-Topic/Topic-of-the-  
Month/management-of-cardiovascular-disease-in-women](https://www.escardio.org/Education/ESC-Education-by-Topic/Topic-of-the-Month/management-of-cardiovascular-disease-in-women)

**Webinar American College of Cardiology**

**Moderators: Rosy Thachil MD, FACC (USA) Hannah Schaubroeck MD (Belgium).**

**Panelists: Erin Bohula MD, FACC (USA) Penelope Rampersad MD. FACC (USA)**

**Lorrel Toft MD, FACC (USA) Antonia Sambola, FESC MD (Spain) Nadia**

**Aissaoui MD (France) Sigrun Halvorsen MD (Norway)**

[https://www.acc.org/Membership/Sections-and-Councils/Critical-Care-  
Cardiology/Webinars](https://www.acc.org/Membership/Sections-and-Councils/Critical-Care-Cardiology/Webinars)

- **ESC Topic of the month: Management of Cardiovascular disease in women**

(2023-08-07)

Dr.Ronen Beerli, Dr Vijay Kunadian, Dr. Agnieszka Tycinska ,Dr. Birgit Vogel, Dr. Antonia Sambola,

<https://www.escardio.org/Education/ESC-Education-by-Topic/Topic-of-the-Month>

## RESEARCH

### V. Publications (Pub Med: Sambola A, Sambola Ayala A)

**H-index: 26; Impact factor updated in 2021.**

1. García-Dorado D, Théroux P, Tornos MP, Sambola A, Oliveras J, Santos M, Soler-Soler J. *"Previous aspirin use may attenuate the severity of the manifestation of acute ischemic syndromes"*. Circulation 1995; 92:1743-1748. IQ: 1; IF: 23.603.
2. Sitges M, Bosch X, Sanz G, Heras M, Miranda F, Anguera I, Sambola A, Betriu A. *"Improving the treatment of acute myocardial infarction through the creation of a thrombolysis unit in the Cardiology Service."* Rev Esp Cardiol 1998; 51; 732-9. IQ: 1; IF: 4.64.
3. Sambola A, Sanz G. *"Differences in the clinical presentation and prognosis of unstable angina and waveless myocardial infarction."* Q. Rev Esp Cardiol 1999; 52: 55-60. IQ: 1; IF: 4.64
4. Vacca M, Mont LI, Valentino M, Sambola A, Madariaga R, Matas M, Brugada J. *"Recurrence of arrhythmia in patients with old myocardial infarction treated with an implantable defibrillator: analysis according to the initial clinical presentation."* Rev Esp Cardiol 1999; 52: 1065-1074. IQ: 1; IF: 4.64.
5. Bosch X, Sambola A, Arós F, López-Bescós L, Mancisidor X, Illa J, Claramonte R. By the investigators of the PRIAMHO study. *"Use of thrombolysis in patients with acute myocardial infarction in Spain."* Observations of the PRIAMHO study. Rev Esp Cardiol 2000; 53: 490- 502.IQ: 1; IF: 4.64.
6. Bosch X, Sambola A. *"Thrombolysis in acute myocardial infarction in the PRIAMHO study."* Rev Soc Cat Cardiol 2000; 4: 16-22.
7. Sambola A, Fuster V, Badimon J. *"Risk factors, blood thrombogenicity and acute coronary syndromes."* Rev Esp Cardiol 2003; 56(10):1001-9. IQ: 1; IF: 4.64.
8. Sambola A, Fuster V, Badimon J. *"Cocaine as a possible emerging factor of*



- cardiovascular risk.*” Rev Esp Cardiol 2004; 57:596. IQ: 1; IF: 4.64.
9. Mont LI, Valentino M, Sambola A, Matas M, Aguinaga L, Brugada J. *“Arrhythmia recurrence in patients with a healed myocardial infarction that received an implantable defibrillator: analysis according to the clinical presentation.”* JACC 1999; 34 352-57. IQ: 1; IF: 18.633.
  10. Sambola A, Miró JM, Tornos MP, Azqueta M, Gorgui M, Torrico M. *“30 cases infectious endocarditis by streptococcus agalactiae and review literature.”* Clin Infect Dis 2002; 34: 1576-84. IQ: 1; IF: 9.117.
  11. Mont LI, Sambola A, Vacca M, Marrugat J, Elosua R, Paré C, Azqueta M, Brugada J. *“Is regular and long-lasting sport practice a risk factor for atrial fibrillation?”* Eur Heart J 2002; 23: 477-82. IQ: 1; IF: 23.239.
  12. Mont LI, Sambola A, Brugada J, Vacca M, Marrugat J et al. *“Sports and lone atrial fibrillation.”* Cardiology 2003; 20: 15- 18. IQ: 2; IF: 1.79.
  13. Sambola A, Osende J, Hathcock J, Degen M, Nemerson Y, Fuster V, Badimon JJ. *“Role of Risk Factors in the modulation of Tissue Factor Activity and Blood Thrombogenicity.”* Circulation 2003; 107; 973-7. IQ: 1; IF: 23.603.
  14. Sambola A, Heras M, Escolar G, Lozano M, Pino M, Martorell T, Torra M, Sanz G. *“A non-invasive in vitro bleeding device using very high shear rate (PFA-100) detects a high prevalence of sub-optimal aspirin responders among patients with acute coronary syndromes on low dose aspirin.”* Platelets 2004; 15:39-46. IQ: 3; IF: 3.23.
  15. Elosua R, Arquer A, Mont LI, Sambola A, Molina LI, García Morán E, Brugada J, Marrugat J. *“Sport practice and the risk of lone atrial fibrillation: a case-control study.”* Int J Cardiol; 2006;108:332-7. IQ: 1; IF: 3.471.
  16. Evangelista A, Tornos P, Sambola A, Permanyer-Miralda G, Soler-Soler J. *“Long-term vasodilator therapy in patients with chronic aortic regurgitation.”* N Eng J Med 2005; 29:353:1342-9. IQ: 1; IF: 74.699.
  17. Tornos P, Sambola A, Permanyer-Miralda G, Evangelista A, Bosch Z, Soler-Soler J. *“Long-term outcome of surgically treated aortic regurgitation: influence of guidelines adherence towards early surgery.”* JACC 2006; 7:47:1012-7. IQ: 1; IF: 18.633.
  18. Sagristà-Sauleda J, Angel J, Sambola A, Alguersuari J, Permanyer- Miralda G, Soler-Soler J. *“Low Pressure cardiac Tamponade. Clinical and hemodynamic profile.”* Circulation 2006;114:945-952 IQ: 1; IF: 23.603.

19. Evangelista A, Tornos P, Sambola A, Permanyer-Miralda G. *“Role of vasodilators in regurgitant valve disease.”* Cure Treat Options Cardiovasc Med 2006; 8:428-434 IQ: 2; IF: 1.53.
20. Elosua R, Arquer A, Mont L; Sambola A, Molina L, García-Morám E, Brugada J, Marrugat J. *“Lone atrial fibrillation and sport practice. The no gain without pain history revisited again?”* Int J Cardiol. 2007; 118:414-5. IQ: 1; IF: 3.229.
21. Sagristà-Sauleda J, Angel J, Sambola A, Permanyer-Miralda G. *“Hemodynamic effects of volume expansion in patients with cardiac tamponade.”* Circulation 2008; 227:1545-9. IQ: 1; IF: 23.603.
22. Sambola A, Tornos P, Ferreira-Gonzalez I, Evangelista A. *“Prognostic value of preoperative indexed end-systolic left ventricle diameter in the outcome after surgery in patients with chronic aortic regurgitation.”* Am Heart J 2008;155: 1114-20. IQ: 2; IF: 4.153.
23. Fernández-Hidalgo N, Almirante B, Tornos P, Pigrau C, Sambola A, Igual A, Pahissa A. *“Contemporary Epidemiology and Prognosis of Healthcare-Associated Infective Endocarditis.”* Clin Infec Dis 2008; IQ: 1; IF: 9.117.
24. Sambola A, Ferreira-González I, Angel J, Alfonso F, Maristany J, Rodríguez O, Bueno H, López-Minguez JR, Zueco J, Fernández-Avilés F, Román AS, Prendergast B, Mainar V, García-Dorado D, Tornos P. *“Therapeutic strategies after coronary stenting in chronically anticoagulated patients: the MUSICA study.”* Heart. 2009; 95:1483-8. IQ: 1; IF: 5.4.
25. Galve E, Sambola A, Saldaña G, Quispe I, Nieto E, Diaz A, Evangelista A, Candell-Riera J. *“Late benefits of dual-chamber pacing in obstructive hypertrophic cardiomyopathy: a 10-year follow-up study.”* Heart. 2010;96:352-6. IQ: 1; IF: 5.4.
26. Sambola A, Fernández-Hidalgo A, Almirante A, Roca I, Serra B, González-Alujas T, Pahissa A, García-Dorado D, Tornos P. *“Sex differences in native infective endocarditis in a single tertiary care hospital.”* Am J Cardiol 2010 106 :92-8. IQ: 2; IF: 2.57. Corresponding author: Antonia Sambola.
27. Fernández-Hidalgo N, Almirante B, Tornos P, González-Alujas MT, Planes AM, Larrosa MN, Sambola A, Igual A, Pahissa A. *“Prognosis of left-sided infective endocarditis in patients transferred to a tertiary-care hospital - prospective analysis of referral bias and influence of inadequate antimicrobial*

- treatment.*” Clin Microbiol Infect. 2011;17:769-75. IQ: 1; IF: 6.42.
28. Figueras J, Monasterio J, Lidón RM, Sambola A, Garcia-Dorado D. “*Lower tissue factor inhibition in patients with ST segment elevation than in patients with non ST elevation acute myocardial infarction.*” Thromb Res 2012; 130:458-62. IQ: 2. IF: 2.779.
29. Porta A, Barrabés JA, Figueras J, Millan X, Sambola A, Boyé R, Garcia-Dorado D. “*Transient apical ballooning complicated with left ventricular thrombus and repeated embolic events with fatal outcome despite anticoagulant therapy.*” Int J Cardiol. 2013;165:e11-2. doi: 10.1016/j.ijcard.2012.09.154. IQ: 2; IF: 3.47.
30. Sambola A, García Del Blanco B, Francisco J, Figueras J, Martí G, Roca I, Otaegui I, García-Dorado D. “*Prognostic impact of tissue factor pathway on long-term ischemic events of ST-elevated myocardial infarction treated with a primary percutaneous coronary intervention.*” Int J Cardiol. 2013;168:2916. IQ: 2; IF: 3.47. Corresponding author: Antonia Sambola.
31. Sambola A, Montoro JB, Del Blanco BG, Llaveró N, Barrabés JA, Alfonso F, Bueno H, Cequier A, Serra A, Zueco J, Sabaté M, Rodríguez-Leor O, García-Dorado D. “*Dual antiplatelet therapy versus oral anticoagulation plus dual antiplatelet therapy in patients with atrial fibrillation and low-to-moderate thromboembolic risk undergoing coronary stenting: design of the MUSICA-2 randomized trial.*” Am Heart J. 2013;166:669-75. IQ: 1; IF: 4.153. Corresponding author: Antonia Sambola.
32. Sambola A, Francisco J, García-Del Blanco B, Agudé S, Candell-Riera J, Martí G, Figueras J, Barrabés JA, Millán X, García-Dorado D. “*Tissue factor pathway inhibitor is an early biomarker of myocardial injury in patients with ST-segment elevation acute myocardial infarction.*” Int J Cardiol. 2014;172:279-81. IQ: 2; IF: 3.47. Corresponding author: Antonia Sambola.
33. Figueras J, Barrabés JA, Lidón RM, Sambola A, Bañeras J, Palomares JR, Martí G, Dorado DG. “*Predictors of moderate-to-severe pericardial effusion, cardiac tamponade, and electromechanical dissociation in patients with ST-elevation myocardial infarction.*” Am J Cardiol. 2014 Apr 15;113(8):1291-6. doi: 10.1016/j.amjcard.2013.11.071. IQ: 2; IF: 2.57.
34. Sambola A, García-Dorado D. “*Dual or triple therapy in patients with atrial fibrillation and drug-eluting stents?*” Coron Artery Dis. 2015 Aug;26(5):367.

- doi: 10.1097/MCA.0000000000000257. Editorial. No abstract available. IQ: 4; IF: 1.55.
35. Miranda B, Barrabés JA, Figueras J, Pineda V, Rodríguez-Palomares J, Lidón RM, Sambola A, Bañeras J, Otaegui I, García-Dorado D. *"Plasma bilirubin values on admission and ventricular remodeling after a first anterior ST-segment elevation acute myocardial infarction."* Ann Med. 2016;48:1-9. IQ: 1; IF: 3.049.
36. Sambola A, Mutuberría M, García Del Blanco B, Alonso A, Barrabés JA, Alfonso F, Bueno H, Cequier A, Zueco J, Rodríguez-Leor O, Bosch E, Tornos P, García-Dorado D. *"Effects of Triple Therapy in Patients With Non-Valvular Atrial Fibrillation Undergoing Percutaneous Coronary Intervention Regarding Thromboembolic Risk Stratification."* Circ J. 2016;80:354-62. IQ: 2; IF: 2.895. Corresponding author: Antonia Sambola.
37. Sambola A, Mutuberría M, García Del Blanco B, Alonso A, Barrabés JA, Bueno H, Alfonso F, Cequier A, Zueco J, Rodríguez-Leor O, Tornos P, García-Dorado D. *"Impact of Triple Therapy in Elderly Patients with Atrial Fibrillation Undergoing Percutaneous Coronary Intervention."* PLoS One. 2016 ;11(1):e0147245. doi: 10.1371/journal.pone.0147245. eCollection2016. IQ: 2; IF: 2.74. Corresponding author: Antonia Sambola.
38. Sambola A, García Del Blanco B, Ruiz-Meana M, Francisco J, Barrabés JA, Figueras J, Bañeras J, Otaegui I, Rojas A, Vilarrosa Ú, Montaner J, García-Dorado D. *"Increased von Willebrand factor, P-selectin and fibrin content in occlusive thrombus resistant to lytic therapy."* Thromb Haemost. 2016;115:6:1129-37. IQ: 1; IF: 4.733. Corresponding author: Antonia Sambola.
39. Santos A, Sambola A, Martí G, Rodríguez R, García-Dorado D. *"Giant myxoma and refractory hypoxemia: an unexpected combination."* Rev Esp de Cardiol (Engl Ed). 2016;69:1219-1220. IQ: 1; IF: 4.64. Corresponding author: Antonia Sambola.
40. Rodríguez-García J, García-Reyes ME, Sambola A, Cortés E, Fernández-Valenzuela V, García-Dorado D. *"Endovascular treatment of a complicated acute type B aortic dissection in a patient with aortic coarctation."* Rev Esp Cardiol (Engl Ed). 2016 Oct 6. pii: S1885-5857(16)30240-7. Epub head of print. IQ: 1; IF: 4.64. Corresponding author: Antonia Sambola.
41. Sambola A, Ruiz-Meana M, Barba I, García Del Blanco B, Barrabés JA, Lip

- GY, Vilarrosa U, Rello P, García-Dorado D. *"Glycative and oxidative stress are associated with altered thrombus composition in diabetic patients with St-elevation myocardial infarction."* Int J Cardiol 2017; 243:9- 14. doi: 10.1016/j.ijcard.2017.04.089. IQ: 1; IF: 3.471. Corresponding author: Antonia Sambola.
42. Arribas F; SEC Working Group for the 2016 ESC Guidelines for the Management of Atrial Fibrillation; Arribas F, Roldán I, Luis Merino J, Roldán V, Arenal Y, Tamargo J, Ruiz-Granell R, Mont L, Anguita M, Marín F; Reviewers for the 2016 ESC Guidelines for the Management of Atrial Fibrillation; Barrios Alonso V, Barón G, Esquivias, Cosín Sales J, Díaz Infante E, Escobar Cervantes C, Ferreiro Gutiérrez JL, Guerra Ramos JM, Jiménez Candil FJ, Pérez Castellano N, Sambola Ayala A, Tello Montoliu A; SEC Guidelines Committee; San Román A, Alfonso F, Arribas F, Evangelista A, Ferreira I, Jiménez M, Marín F, de Isla LP, Rodríguez Padial L, Sánchez PL, Sionis A, Vázquez R. *Comments on the 2016 ESC Guidelines for the Management of Atrial Fibrillation.* Rev Esp Cardiol (Engl Ed). 2017;70(1):2-8. doi: 10.1016/j.rec.2016.11.032. IQ: 1; IF: 4.64.
43. Casas G, Soriano T, Gil D, Sambola A, Cuellar H, García-Dorado D. *"Acute myocardial infarction, stroke, and bilateral carotid vasospasm: a rare association."* Rev Esp Cardiol (Engl Ed). 2018;71(11):980- 982. IQ:1; IF: 4.64. Corresponding author: Antonia Sambola.
44. Barrabés JA, Sambola A. *"False-positive Activations in STEMI Networks: An Unavoidable Toll."* Editorial. Rev Esp Cardiol (Engl Ed). 2018;71(4):234- 236. doi: 10.1016/j.rec.2017.10.041. IQ: 1; IF: 4.64.
45. SEC Working Group for the 2018 ESC Guidelines for Syncope, Expert Reviewers for the 2018 ESC Guidelines for Syncope, and the SEC Guidelines Committee; SEC Working Group for the 2018 ESC Guidelines for the Diagnosis and Management of Syncope; Expert Reviewers for the ESC Guidelines for the Diagnosis and Management of Syncope; SEC Guidelines Committee. *Comments on the 2018 ESC Guidelines for the Diagnosis and Management of Syncope.* Rev Esp Cardiol (Engl Ed). 2018 Oct;71(10):787- 793. doi: 10.1016/j.rec.2018.07.012. IQ: 1; IF: 4.64.
46. Sambola A, Anguita M, Guzmán G, Beltrán P, Milà L, Giné M. *"Gender Differences in the Professional Lives of Cardiologists in 70 Spanish Hospitals."* Rev Esp Cardiol (Engl Ed). 2019 Mar;72(3):272-274. doi:

- 10.1016/j.rec.2018.08.013. IQ: 1; IF: 4.64 Corresponding author: Antonia Sambola.
47. Sambola A, Anguita M, Giné M. "Is There a Gender Gap in Spanish Cardiology?" Editorial Rev Esp Cardiol (Engl Ed). 2019 Mar;72(3):195-197. doi: 10.1016/j.rec.2018.07.023. IQ: 1; IF: 4.64. Corresponding author: Antonia Sambola.
48. SEC Working Group for the 2018 ESC Fourth Universal Definition of Myocardial Infarction; Expert Reviewers for the 2018 ESC Fourth Universal Definition of Myocardial Infarction; SEC Guidelines Committee. *Comments on the 2018 ESC Fourth Universal Definition of Myocardial Infarction*. Rev Esp Cardiol (Engl Ed). 2019 Jan;72(1):10-15. doi: 10.1016/j.rec.2018.11.009. Corresponding author: Antonia Sambola IQ: 1; IF: 4.64.
49. SEC Working Group for the 2018 ESC/EACTS Guidelines for Myocardial Revascularization; Expert Reviewers for the 2018 ESC/EACTS Guidelines for Myocardial Revascularization; SEC Guidelines Committee *Comments on the 2018 ESC/EACTS Guidelines for Myocardial Revascularization*. Rev Esp Cardiol (Engl Ed). 2019 Jan;72(1):16-20. doi: 10.1016/j.rec.2018.11.010. IQ: 1; IF: 4.64.
50. Sambola A, Roca Luque I, Mercé J, Alguersuari J, Francisco-Pascual J, García-Dorado D, Sagristà-Sauleda J. "Colchicine Administered in the First Episode of Acute Idiopathic Pericarditis: A Randomized Multicenter Open-label Study." Rev Esp Cardiol (Engl Ed). 2019 Sep;72(9):709-716. doi: 10.1016/j.rec.2018.11.016. Epub 2019 Jan 22. PMID: 30683494 Clinical Trial. IQ: 1; IF: 4.64.
51. SEC Working Group for the 2018 ESC ESH Guidelines on Arterial Hypertension; Expert Reviewers for the 2018 ESC ESH Guidelines on Arterial Hypertension; SEC Guidelines Committee *Comments on the 2018 ESC/ESH Guidelines for the Management of Arterial Hypertension*. Rev Esp Cardiol (Engl Ed). 2019 Feb;72(2):104-108. doi: 10.1016/j.rec.2018.12.001. IQ: 1; IF: 4.64.
52. SEC Working Group for the 2018 ESC Guidelines for the Management of Cardiovascular Diseases During Pregnancy; Expert Reviewers for the 2018 ESC Guidelines for the Management of Cardiovascular Diseases During Pregnancy; SEC Guidelines Committee. "Comments to the 2018 ESC guideline on the treatment of cardiovascular diseases during pregnancy." Rev

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111. Tomasino M, Soriano Colomé T, Sambola Ayala A, Gordon Ramírez B. Acute pulmonary artery dissection in an adult with chronic pulmonary hypertension secondary to congenital heart disease: a case report. *Eur Heart J Case Rep.* 2023 Oct 11;7(10):ytad508. doi: 10.1093/ehjcr/ytad508. PMID: 37900663; PMCID: PMC10606221.
112. Sambola A, Lozano-Torres J, Boersma E, Olmos C, Ternacle J, Calvo F, Tribouilloy C, Reskovic-Luksic V, Separovic-Hanzevacki J, Park SW, Bekkers S, Chan KL, Almaghraby A, lung B, Lancellotti P, Habib G; ESC EORP EURO-ENDO Registry Investigator Group. Predictors of embolism and death in left-sided infective endocarditis: the European Society of Cardiology EURObservational Research Programme European Infective Endocarditis registry. *Eur Heart J.* 2023;44:4566-4575. IQ: 1; IF: 39.3

Book chapters:

1. Sambola A. “*Special situations and frequent reasons for consultation*”. In: “*Type 2 diabetes mellitus. Manual for primary care teams.*” Novo Nordisk eds. Madrid 1993, Chapter 10: 113-126. Chapter 11: 127-140. Chapter 12: 141-150.
2. Sambola A, García-Dorado D, Tornos MP, Soler-Soler J. “*Acute ischemic syndromes in patients with previous myocardial infarction: effect of chronic aspirin administration*”. *Coronary thrombosis: intracardiac thrombosis.* Pérez-Gómez F, Prentice CRM, Meyer J, eds. Raven Press. New York 1994.

3. Juncadella E, Sambola A. *Ischemic heart disease. Shared treatment*. Primary Care Collection. Euromedics 2000.
4. Corti R, Sambola A, Fuster V, Badimon JJ. "Current perspective on new antithrombotic therapies." In: "Handbook of Antiplatelet Therapy." Ed: Cohen M. Martin D. Newark, New Jersey, 2003: 1-25.
5. Sambola A, Tornos P. "Intensive care in valvular disease." In: "Cardiac intensive care: beyond acute infarction." Ed. Spanish Society of Cardiology. 2009 pages 111-124.
6. Sambola A. "Tissue factor, thrombogenesis and acute coronary syndromes". In: "Make Room". Ed. Spanish Society of Cardiology 2009.

#### VI. Grants

- IP: Antonia Sambola Ayala. Project PI06/1658, financed by Carlos III Institute, with the title "*Predictive role of active tissue factor in the extension of acute myocardial infarction treated with primary angioplasty.*" From 2007 to 2009.  
Total: 22.385€
- IP: Antonia Sambola Ayala. Project PI09/01014, financed by Carlos III Institute, with the title "*Immunohistochemical and molecular characteristics of thrombus resistant to fibrinolysis.*" From 2010 to 2014.  
Total: 57.475€
- IP: Antonia Sambola. Project **TRA-200**, financed by **Ministry of Health, Social Services and Equality**, with the title "*Efficacy and safety of dual antiplatelet therapy compared with oral anticoagulation + dual antiplatelet therapy in patients with low-moderate risk atrial fibrillation undergoing coronary stent implantation.*" From 2010 to 2014.  
**Total: 408.000€**
- IP: Antonia Sambola. Project **EC11-473**, financed by **Ministry of Health, Social Services and Equality**, with the title "*Efficacy and safety of dual antiplatelet therapy compared with the combination of oral anticoagulation + dual antiplatelet therapy in patients with low-moderate risk atrial fibrillation undergoing coronary stent implantation.*" From 2012 to 2014.

**Total: 64.900€**

- IP: Dra. Antonia Sambola Ayala. Internal project **PR(AG)44/2017** with the title *“Impact of gender differences in clinical profile and therapeutic management on clinical events after ST-elevation acute myocardial infarction according to age Substudy. “Description of the lipid profile in patients with myocardial infarction (AMI) admitted to the acute cardiac care units in Hospitals of Catalonia. LipAMI-Cat Study.”*” Industry unconditional scholarship: AMGEN

**Collaborating Researcher** of the following research projects:

1. IP: Dr. David García-Dorado García. Project EC07/90511, financed by Carlos III Health Institute, with the title *“Myocardial protection during reperfusion in ST-segment elevation acute coronary syndrome patients undergoing primary angioplasty: effect of intracoronary adenosine on infarct size and ventricular remodeling.”* From 2007 to 2012.
2. IP: Dr. Jaume Sagristá-Sauleda. Project EC08/00290, financed by Carlos III Health Institute, with the title *“Efficacy of colchicine administered in the first outbreak of pericarditis to prevent recurrences.”* From 2009 to 2012.

**Total: 26.015€**

3. IP: Dr. David García-Dorado García. Project PIE13/00027, financed by Carlos III Health Institute, with the title *“Preventing cardiovascular ischemic events and arresting their consequences in type 2 diabetic population: a multidisciplinary clinical and experimental approach.”* From 2014 to 2018.
4. IP: Héctor Bueno Zamora. Internal project PR(AG)123/2018 with the title *“Tako-tsubo - brain project. Study to identify the psychological, neuropsychological and neurophysiological mechanisms of ds. of Takotsubo.”* 2018.
5. Dr. Antonia Sambola has been National Coordinator of: National coordinator (Spain). EPA(AG)11/2016(4865), with the title *“European Infective Endocarditis Registry”* and it was approved by CEIC on May 5, 2016. European Register in infective endocarditis of European Society of Cardiology (second country recruiting patients after France, the organizer). IP: Dr. Gibert Habib.
6. IP: Dr. José Antonio Barrabés. PR(AG)290/2019 with the title *“NSTEMI*

***Registry. Non-ST-segment elevation myocardial infarction registry.***” It was approved by the CEIC on July 12, 2019.

7. IP: Dr. José Antonio Barrabés Riu. Internal project PR(AG)282/2015 with the title ***“Role of platelet activation in microvascular damage in the acute phase of infarction and in mid-term ventricular remodeling: possible determinants and pharmacological modulation.”*** It was approved by CEIC on September 28, 2015.
8. IP: Dr. David García-Dorado García. Internal project PR(AG)127/2014 with the title ***“Identification of new clinical predictors of cardiovascular disease in patients with type 2 diabetes.”*** It was approved by CEIC on June 27, 2014.
9. IP: Dra. Mireia Andres Villarreal. Internal project PR(AG)242/2011 with the title ***“Acute echocardiography and angiography of patients with a first heart attack without ST elevation and identification of emerging ACTP candidates.”*** It was approved by CEIC on February 24, 2002.
10. IP: Dr. David García-Dorado García. Network 2005SGR 00985, financed by AGAUR, with the title ***“Cardiocirculatory Pathology.”*** From 2006 to 2009.
11. IP: David García-Dorado García. IP: Network RD06/0014/0025, financed by Carlos III Health Institute, with the title ***“RECAVA - Thematic Research Network on Cardiovascular Diseases.”*** From 2007 to 2017.
12. IP: Dr. David García-Dorado García. Network 2009 SGR 802, financed by AGAUR, with the title ***“Cardiocirculatory Pathology”.*** From 2010 to 2014.
13. IP: Dr. David García-Dorado García. Network RD12/0042/0021, financed by Carlos III Health Institute, with the title ***“Cardiovascular network”.*** From 2013 to 2017.
14. IP: Dr. David García-Dorado García. Network 2014 SGR 1572, financed by AGAUR, with the title ***“Cardiocirculatory Pathology (GRC).”*** From 2014 to 2016.
15. IP: Antonia Sambola . Sociedad Española de Cardiología. ***““Diferencias entre sexos en el remodelado ventricular post-infarto agudo de miocardio. Papel de la microbiota en la respuesta inflamatoria”.*** Total: 16.000 E

**Dra. Antonia Sambola is Collaborating Researcher in the following Clinical**

## **Trials:**

1. Trial with internal registry AC/R(AG)105/2015(4511), with file reference COMBAT-MI and num. EudraCT: 2015-001000-58, with the title *“Combination therapy in myocardial infarction: The COMBAT-MI trial.”* It was approved by the CEIC on April 1, 2015. The principal investigator is Dr. Ignacio Ferreira González.
2. Trial with internal registry AC/I(AG)269/2014(4322), with the file reference BAMI-01 and num. EudraCT: 2012-001495-11, with the title *“Effect of intracoronary infusion of bone marrow-derived mononuclear stem cells (BM-MSC) on all-cause mortality in acute myocardial infarction.”* It was approved by the CEIC on November 1, 2014. The principal investigator is Dr. David García-Dorado García.
3. Trial with internal registry AC/I(AG)241/2013(3936), with the file reference CTPX01 and num. EudraCT: 2013-001358-81, with the title *“First human clinical trial, double-blind, randomized with placebo, open for the first six patients (dose escalation), to evaluate the safety and efficacy of intracoronary infusion of allogeneic human cardiac stem cells (CMC) in patients with acute myocardial infarction of myocardium and left ventricular dysfunction.”* It was approved by the CEIC on December 1, 2013. The principal investigator is Dr. David García-Dorado García.
4. Trial with internal registry AC/U(AG)153/2012(3472), with the file reference 2009.559 and num. EudraCT: 2009-013713-99, with the title *“Does cyclosporine improve outcomes in patients with ST-elevation acute myocardial infarction? STUDIO CIRCUS.”* It was approved by the CEIC on July 27, 2012. The principal investigator is Dr. David García-Dorado García.

## **VII. Abstracts to congresses (last 10 años)**

### **International congresses:**

- 1-Antonia Sambola, Jaume Figueras, Bruno García Del Blanco, Gerard Martí, Jaume Francisco, José Antonio Barrabés, Josefa Cortadellas, Enric Domingo, Jaume Candell, Ivan Roca, Xavier Millan, Dorita Quiroga, Rosa Maria Lidón, and David García-Dorado. *“Role of Tissue Factor*

*Activity, Tissue Factor Antigen and Tissue Factor Pathway Inhibitor in ST-Elevation Myocardial Infarction Undergoing Primary Angioplasty.*  
American heart Association Congress. Circulation. 2012;126: A19269.

- 2-Maria Mutuberria, Antonia Sambola, Bruno García del Blanco, Eduard Bosch, Albert Alonso, Angel Cequier, Jose Antonio Barrabés, David García-Dorado. *“Impact of guidelines recommendations in patients with atrial fibrillation undergoing coronary stent triple therapy (anticoagulation plus dualantiplatelet therapy) or anticoagulation plus clopidogrel in patients with a mechanical prosthesis undergoing a coronary stent?”* American heart Association Congress. Circulation. 2012;126:A19269.
- 3-Antonia Sambola, Jaume Francisco, Bruno García Del Blanco, Marisol Ruiz-Meana, Gerard Martí, Imanol Otaegui, Viçens Serra, Jose Antonio Barrabes, Jaume Figueras, David García-Dorado. *“Immunohistochemical and molecular characteristics of coronary thrombus resistant to fibrinolysis.”* American College of Cardiology Congress 2012. Journal of the American College of Cardiology March 27, 2012, 59 (13 Supplement) E448; DOI: 10.1016/S0735-1097(12)60449-5.
- 4-Albert Alonso, Antonia Sambola, Maria Mutuberria, Bruno Garcia, Jose A. Barrabes, David Garcia Dorado. *“Outcomes in patients with atrial fibrillation undergoing coronary artery stenting with a low-moderate CHA2DS2VASc score: do they need anticoagulation?”* American Heart Association Congress. Circulation 2013;128: A19207.
- 5-Albert Alonso, Antonia Sambola, Maria Mutuberria, Bruno Garcia, Jose A. Barrabes, David Garcia Dorado. *“Are the Guidelines Recommendations Followed in the Clinical Practice in Patients With Atrial Fibrillation Undergoing Coronary Stenting?”* American Heart Association Congress. Circulation. 2013;128: A19218.
- 6-Maria Mutuberria, Antonia Sambola, Bruno García Del Blanco, Eduard Bosch, Albert Alonso, Angel Cequier, Jose Antonio Barrabés, David García-Dorado. *“Are the guidelines recommendations followed in the clinical practice in patients with atrial fibrillation undergoing coronary*

- stenting?” American Heart Association Congress. Circulation. 2013;128: A19218.*
- 7-Maria Mutuberria, Antonia Sambola, Bruno García Del Blanco, Eduard Bosch, Albert Alonso, Angel Cequier, Jose Antonio Barrabés, David García-Dorado. *“Triple Therapy (anticoagulation Plus Dual Antiplatelet Therapy) or Anticoagulation Plus Clopidogrel in Patients With a Mechanical Prosthesis Undergoing a Coronary Stent?” American Heart Association Congress. Circulation. 2013;128:A17343.*
  - 8-Maria Mutuberria, Antonia Sambola, Albert Alonso, Gerard Oristrell, Alba Santos, Bruno García del Blanco, Pilar tornos, David García-Dorado. *“Tripletherapy for all patients with atrial fibrillation undergoing coronary stent?” American heart Association Congress Circulation. 2013;128: A17586.*
  - 9-Maria Mutuberria, Antonia Sambola, Albert Alonso, Bruno García del Blanco, Hector Bueno, Angel Cequier, Jose-Antonio Barrabés, y David García-Dorado. *“Should we recommend triple therapy in elderly patientswithatrial fibrillation undergoing coronary stent?” American heart Association Congress. Circulation. 2014;130: A18785.*
  - 10-Antonia Sambola, Alba Santos, Bruno García Del Blanco, Berta MirandamMaria Mutuberria, Javier Limeres, José Antonio Barrabés, Fernando Alfonso, Héctor Bueno, David García-Dorado. *“Is It Safe Placinga Drug Eluting Stent in Patients Requiring Long-term Anticoagulation?” American Heart Association Congress. Circulation. 2014;130: A18618.*
  - 11-N. Casamira, A. Sambola, T. Garcia, J.B. Montoro, G. Veiga, B. Garcia Del Blanco, Ch. Latorre, J.A. Barrabes, D. Garcia-Dorado. *“Use and outcomes of triple antithrombotic therapy with vitamin K antagonists versus non-vitamin Kantagonists in patients with atrial fibrillation undergoing percutaneous coronary intervention.” European Society of Cardiology CONGRESS 2017. European Heart Journal, Volume 38, Issue suppl\_1.*
  - 12-A Sambola Ayala, P Rello, T Soriano, V Pasupuleti, H Bueno, L Fauchier, J Airaksinen, W Dewilde, L Raber, J Sung-Won, D L Bhatt, M Banach, G Y Lip, A V Hernandez. *“The efficacy and safety of the use of drug-eluting stentsvs bare metal stents stratifying by antithrombotic*



- therapy in atrial fibrillation patients undergoing coronary stenting: a systematic review.*” European Society of Cardiology CONGRESS 2018. European Heart Journal 2018 Volume 39, Issue suppl\_1, , ehy566.P5505.
- 13-B. Gordon Ramirez, A. Sambola, V. Gonzalez, N. Casamira, B. Garcia DelBlanco, J.A. Barrabes, H. Bueno, F. Alonso, A. Cequier, D. Garcia Dorado. *“Increased cardiovascular death in women with non-valvular atrial fibrillation undergoing percutaneous coronary intervention compared to men.”* European Heart Journal, 2017 Volume 38, Issue suppl\_1, 1, ehx504.P4296.
  - 14-B. Gordon Ramirez, A. Sambola, V. Gonzalez Fernandez, B. Miranda, J. Limeres, A. Santos, B. Garcia Del Blanco, J.A. Barrabes, J. Bañeras, D. Garcia Dorado. *“Bleeding complications in patients with indication for oral anticoagulation and an acute coronary syndrome.”* European Heart Journal 2017, Volume 38, Issue suppl\_1, 1, ehx504.P4297.
  - 15-A Roque, M N Pizzi, N Fernandez-Hidalgo, H Cuellar-Calabria, R Rios, N Ferreira, A Sambola, B Almirante, D Garcia-Dorado, J Castell, M Escobar, PTornos, S Aguade-Bruix. *“18F-FDG-PET/CTA of prosthetic cardiac valves: postsurgical inflammatory patterns and its temporal evolution. Can we question the 3-month limit of the current guidelines?”* European Heart Journal 2018, Volume 39, Issue suppl\_1, 2018, ehy566.5249, <https://doi.org/10.1093/eurheartj/ehy566.5249>.
  - 16-Sambola Ayala (Barcelona, ES), M Anguita (Córdoba, ES), J Elola (Madrid, ES), JL Bernal (Madrid, ES), C Fernandez (Madrid, ES), JL Ferreiro (Barcelona, ES), H Bueno (Madrid, ES), F Marin (Murcia, ES), JL Bonilla (Córdoba, ES), J Nunez-Villota (Valencia, ES), M Sanmartin (Madrid, ES), SRaposeiras (Vigo, ES), MF Jimenez-Navarro (Málaga, ES), D Filgueiras (Madrid, ES), M Ruiz-Ortiz (Córdoba, ES). *“Lower benefit of women than men with ST-elevation myocardial infarction networks system in Spain: a study of 325,017 episodes over 10 years (2005-2015)”* European Society of Cardiology. European Heart Journal 2019. Volume 40, Issue Supplement\_1, October 2019, ehz745.0464.
  - 17-M Anguita, A Sambola Ayala, J Elola, J L Bernal, C Fernandez J L Ferreiro; RECALCAR STUDY GROUP; H Bueno; F Marin;; J L Bonilla;

- RECALCAR STUDY. “Female sex is an independent predictor of mortality in patients with STEMI in Spain: a study in 325,017 episodes over 11 years (2005–2015).” European Society of Cardiology Congress 2019. European Heart Journal, Volume 40, Issue Supplement\_1, October 2019, ehz748.0277.**
- **18-Jose A. Barrabes, Laia Mila, Rosa-Maria Lidon, Antonia Sambola, Jo Bañeras, Agnes Rafecas Ventosa, David Garcia-Dorado. “Low achievement of recommended low-density lipoprotein cholesterol goals for primary or secondary prevention in patients admitted with suspected acute coronary syndrome.” American College of Cardiology Congress 2020. Journal of the American College of Cardiology March 12, 2019, 73 (9 Supplement 1) 82; DOI: 10.1016/S0735-1097(19)30690-4.**
- 19. J.A Barrabes, D Aluja, L Castellote, A Rodriguez, I Otaegi, V Pineda, A Mila, J Baneras, R.M Lidon, A Sambola, J Rodriguez-Palomares, F Valente, D Beneitez, I Ferreira-Gonzalez, J Inserte, Iron deficiency is associated with larger infarcts and with adverse remodeling in STEMI patients and reduces myocardial tolerance to ischemia/reperfusion by inhibiting the eNOS/sGC/PKG pathway in mice, European Heart Journal, Volume 41, Issue Supplement\_2, November 2020, ehaa946.1578, <https://doi.org/10.1093/ehjci/ehaa946.1578>.**
- 20. Antonia Sambola, Manuel Anguita Sanchez, Cristina Fernández- Pérez, José Luis Bernal, Irene Buera, Francisco Marin, Albert Ariza, Francisco Javier Elola. “ST-segment elevation myocardial infarction and cardiogenic shock: higher incidence and mortality in women.” American College of Cardiology Congress 2020. Journal of the American College of Cardiology March 24, 2020, 75 (11 Supplement 1) 1393; DOI: 10.1016/S0735-1097(20)32020-9.**
- 21. A Sambola, J Lozano Torres, C Olmos, J Ternacle, F E Calvo-Iglesias, C Tribouilloy, V Reskovic Luksic, J Separovic-Hanzevacki, S W Park, S Bekkers, K L Chan, F Arregle, B Lung, P Lancellotti, G Habib, EURO-ENDO Investigators, Predictors of mortality in patients with left-side infective endocarditis, the ESC-EORP EURO-ENDO registry, European Heart Journal, Volume 42, Issue Supplement\_1, October 2021,**

22. J Lozano Torres, Sambola A, C Olmos, J Ternacle, F E Calvo-Iglesias, C Tribouilloy, V Reskovic Luksic, J Separovic-Hanzevacki, S W Park, S Bekkers, K L Chan, F Arregle, B Lung, P Lancellotti, G Habib, EURO-ENDO Investigators, *Systemic embolism and predictors of mortality in patients with infective endocarditis, the ESC-EORP EURO-ENDO registry*, European Heart Journal, Volume 49, Issue Supplement\_1, October 2022,

**National congresses (last 10 years):**

1. Pau Rello Sabaté, Antonia Sambola Ayala, Toni Soriano Colomé, Héctor Bueno Zamora, Juan Miguel Ruiz Nodar, Laurent Fauchier, Willem de Wilde, Lorenz Räber y Adrián V. Hernández-Díaz. *“Efficacy and safety of drug-eluting stents compared with bare metal stents in patients with atrial fibrillation receiving stenting: a systematic review and meta-analysis.”* Hospital Vall d’Hebron, Barcelona, 2. Hospital Universitario 12 de Octubre, Madrid, 3. Hospital Virgen de la Arrixaca, Murcia, 4. University Hospital de Paris, 5. University hospital Leiden, Netherlands, 6. University Hospital Berna, 7. University of Connecticut, Hartford (EE.UU.). National Congress Spanish Society of Cardiology 2019. Rev Esp Cardiol.
1. Antonia Sambola Ayala, Manuel Anguita Sánchez, Francisco Javier Elola Somoza, Cristina Fernández Caamaño, José Luis Bernal Sobrino, José Luis Ferreiro Gutiérrez, Héctor Bueno Zamora, Francisco Marín Ortuño, José Luis Bonilla, Julio Núñez-Villota, Marcelo Sanmartín Fernández, Sergio Raposeiras Roubín, Manuel Jiménez-Navarro, David Filgueiras Rama y Martín-Ortiz. *“Female gender is an independent predictor of mortality in patients with STEMI in Spain: a study of 325,017 episodes over 11 years (2005-2015).”* National Congress Spanish Society Cardiology 2019. Rev Esp Cardiol.
2. Luis Rodríguez Padial, Antonia Sambola Ayala, Cristina Fernández Pérez, José Luis Bernal Sobrino, Antonio Fernández-Ortiz, Manuel Anguita Sánchez y Francisco Javier Elola Somoza. *“Differences in*

- mortality between men and women according to the type of myocardial infarction in Spain.*” National Congress Spanish Society Cardiology 2019. Rev Esp Cardiol.
3. Joan Isaac Llaó Ferrando, Albert Ariza Solé, Jaime Aboal Viñas, Cosme García García, Jordi Sans Roselló, Antonia Sambola, Rut Andrea, Gil BonetPineda, Carlos Tomás Querol, Miquel Gual y Ángel Cequier Fillat. *“Adaptation to the recommendations on the invasive strategy adjusted to risk in patients with NSTEMI in cardiac intensive care units.”* National Congress Spanish Society Cardiology 2019. Rev Esp Cardiol.
  4. Toni Soriano Colomé, Antonia Sambola Ayala, Pau Rello Sabaté, Héctor Bueno Zamora, Vinay Pasupuleti, Deepak L. Bhatt, Gregory Y. Lip y Adrián V. Hernández Díaz. *“Efficacy and safety of drug-eluting stent use stratified by antithrombotic therapy in patients with atrial fibrillation: systematic review and meta-analysis.”* National Congress Spanish Society Cardiology 2019. Rev Esp Cardiol.
  5. Ivana Pariggiano, José A. Barrabés Riu, Víctor Pineda, Imanol Otaegui, JordiBañeras, José F. Rodríguez-Palomares, Rosa-María Lidón, Antonia Sambola, Jaume Figueras y David García-Dorado García. *“Erythrocyte distribution width at admission does not predict ventricular remodeling in patients with a first anterior acute myocardial infarction.”* National Congress Spanish Society Cardiology 2018. Rev Esp Cardiol.
  6. Toni Soriano Colomé, Antonia Sambola Ayala, Pau Rello Sabaté, Adrián V. Hernández Díaz, Héctor Bueno Zamora, Núria Casamira Ruiz, José A. Barrabés Riu, Bruno García del Blanco, David García-Dorado García. *“Long-term outcomes in patients with acute coronary syndrome and atrial fibrillation: real-world comparative analysis of drug-eluting versus conventional stenting population.”* National Congress Spanish Society Cardiology 2018. Rev Esp Cardiol.
  7. Toni Soriano Colomé, Antonia Sambola Ayala, Pau Rello Sabaté, Adrián V. Hernández Díaz, Héctor Bueno Zamora, Núria Casamira Ruiz, José A. Barrabés Riu, Bruno García del Blanco, David García-Dorado García. *“Long-term outcomes in patients with acute coronary syndrome and atrial fibrillation: real-world comparative analysis of drug-eluting stent*

- and conventional stent populations.*" National Congress Spanish Society Cardiology 2018. Rev Esp Cardiol.
8. Núria Casamira Ruiz, Antonia Sambola Ayala, Tamara García Camarero, José Bruno Montoro Ronsano, Bruno García del Blanco, José M. de la Torre Hernández, José A. Barrabés Riu, David García-Dorado. *"Effectiveness and safety of direct-acting anticoagulants versus vitamin K antagonists in patients with atrial fibrillation undergoing percutaneous coronary intervention."* National Congress Spanish Society Cardiology 2017. Rev Esp Cardiol.
  9. Antonia Sambola Ayala, Marisol Ruiz-Meana, Ignasi Barba, Bruno García del Blanco, Úrsula Vilarrosa, José Antonio Barrabés, Paru Rello y David García-Dorado from the Hospital Vall d'Hebron, Barcelona. *"Glycative and oxidative stress is associated with high thrombogenicity of the thrombus in diabetic patients with myocardial infarction."* National Congress Spanish Society Cardiology 2017. Rev Esp Cardiol.
  10. Laia Milà Pascual, José A Barrabés, Rosa-María Lidón, Antonia Sambola, Jordi Bañeras, Agnès Rafecas y David Garcia-Dorado del Hospital Vall d'Hebron, Barcelona. *"Assessment of compliance with the recommended goals of cholesterol levels linked to low-density lipoproteins in hospitalized patients with suspected acute coronary syndrome."* National Congress Spanish Society Cardiology 2017. Rev Esp Cardiol.
  11. Blanca Gordon Ramírez, Antonia Sambola, Bruno García del Blanco, Berta Miranda, Alba Santos, José Antonio Barrabés, Jordi Bañeras y David García-Dorado del Hospital Universitario Vall d'Hebron, Barcelona 2016. *"Bleeding complications associated with chronic anticoagulation in patients with acute coronary syndromes."* National Congress Spanish Society Cardiology 2016. Rev Esp Cardiol.
  12. Javier Limeres Freire, Antonia Sambola, Bruno García del Blanco, María Mutuberria, Héctor Bueno, Fernando Alfonso, José Antonio Barrabés and David García-Dorado from the Hospital Vall d'Hebron, Barcelona, Hospital Universitario 12 de Octubre, Madrid and Hospital Universitario of La Princesa, Madrid. *"Sex differences in the characteristics and clinical course of patients with non-valvular atrial fibrillation undergoing percutaneous coronary intervention."* National

- Congress Spanish Society Cardiology 2017. Rev Esp Cardiol.
13. Antonia Sambola Ayala, Javier Limeres, Berta Mirando Barrio, Bruno García del Blanco, Héctor Bueno, Fernando Alfonso, José Antonio Barrabés David García-Dorado. *"Influence of adherence to clinical guidelines on mortality in patients with atrial fibrillation undergoing percutaneous coronary intervention."* National Congress Spanish Society Cardiology 2017. Rev Esp Cardiol.
  14. Alba Santos Ortega, Juan Gabriel Acosta Vélez, Jaume Figueras Bellot, Rosa María Lidón Corbí, Antonia Sambola Ayala, Jordi Bañeras Rius, David García Dorado, José A. Barrabés Riu. *"The persistence of chest pain despite treatment: a key variable in the initial evaluation of patients with left bundle branch block and suspected acute myocardial infarction."* National Congress Spanish Society Cardiology 2015. Rev Esp Cardiol.
  15. Berta Miranda Barrio, José Antonio Barrabés, Jaume Figueres, Víctor Pineda, José Rodríguez-Palomares, Antonia Sambola, Jordi Banyeres and David García-Dorado. *"Admission bilirubin values do not predict ventricular remodeling after a first anterior acute myocardial infarction."* National Congress Spanish Society Cardiology 2015. Rev Esp Cardiol.
  16. Antonia Sambola Ayala, Javier Limeres, Alba Santos, Bruno García del Blanco, Fernando Alonso, Ángel Cequier, José Antonio Barrabes, David García Dorado. *"Safety of drug-eluting stents in patients with an indication for oral anticoagulation."* National Congress Spanish Society Cardiology 2015. Rev Esp Cardiol.
  17. Silvia Rodero, Jaime Sagristá Sauleda, Ivo Roca Luque, Antonia Sambola Ayala y David García Dorado. *"Recurrent idiopathic acute pericarditis. Predictive factors of response to colchicine."* National Congress Spanish Society Cardiology 2014. Rev Esp Cardiol.
  18. Berta Miranda Barrio, Antonia Sambola Ayala, Alba Santos Ortega, Javier Limeres Freire, María Mutuberría, Bruno García del Blanco, José A. Barrabés Riu, David García-Dorado García. *"Should we recommend triple therapy in chronically anticoagulated patients undergoing stent implantation with a HAS-BLED Score at high risk of bleeding?"* National Congress Spanish Society Cardiology 2014. Rev Esp Cardiol.

19. Alba Santos Ortega, Antonia Sambola, Berta Miranda, Javier Limeres, Bruno García del Blanco, María Mutuberría, Pilar Tornos and David García-Dorado. *“Is the implantation of drug-eluting stents safe in patients who require chronic anticoagulant treatment?”* National Congress Spanish Society Cardiology 2014. Rev Esp Cardiol.
20. María Mutuberría Urdaniz, Antonia Sambola, Bruno García del Blanco, Eduard Bosch, Albert Alonso, Ángel Cequier, José Antonio Barrabés and David García-Dorado. *“Impact of guideline recommendations in patients with atrial fibrillation undergoing coronary stenting.”* Vall d'Hebron, Barcelona and Hospital Universitario Bellvitge, Barcelona. National Congress Spanish Society Cardiology 2013. Rev Esp Cardiol.
21. Antonia Sambola, María Mutuberría, Bruno García del Blanco, José Antonio Barrabés, Fernando Alfonso, Ángel Cequier and David García-Dorado. *“Should we recommend oral anticoagulation in patients with atrial fibrillation with a CHADS<sub>2</sub>VASC<sub>2</sub> score <2 undergoing coronary stent implantation?”* National Congress Spanish Society Cardiology 2013. Rev Esp Cardiol.
22. Irene Buera Surribas, Rosa-María Lidón Corbí, Jordi Bañeras Rius, José A. Barrabés Riu, Antonia Sambola Ayala, Jaume Figueras Bellot and David García Dorado from the Hospital Universitari Vall d'Hebron, Barcelona. *“Characteristics of a cohort of patients hospitalized for sudden out-of-hospital death due to fibrillation and pulseless ventricular tachycardia. Experience of a single center.”* National Congress Spanish Society Cardiology 2012. Rev Esp Cardiol.
23. María Mutuberría Urdaniz, Antonia Sambola Ayala, Jaume Francisco Pascual, Jaume Figueras Bellot, Bruno García del Blanco, M. Ruiz Meana, José A. Barrabés Riu, David García Dorado. *“Influence of plasma hemostatic factors on the degree of myocardial reperfusion in acute ST elevation myocardial infarction.”* National Congress Spanish Society Cardiology 2012. Rev Esp Cardiol.
24. María Mutuberría Urdaniz, Antonia Sambola Ayala, Jaume Francisco Pascual, Jaume Figueras Bellot, Bruno García del Blanco, M. Ruiz Meana, José A. Barrabés Riu and David García Dorado from the Cardiology Service from the Hospital General Universitario Vall d'Hebron. *“Hemostatic profile of patients with acute myocardial*

- infarction with ST elevation resistant to fibrinolysis.*” National Congress Spanish Society Cardiology 2012. Rev Esp Cardiol.
25. Jaume Francisco Pascual, Josefa Cortadellas Ángel, José Francisco Rodríguez Palomares, Víctor Pineda Sánchez, Jaume Figueras Bellot, Rosa María Lidón Corbí, José A. Barrabés Riu. Antonia Sambola. *“Differential characteristics between patients admitted with an acute cardiac syndrome and without significant coronary lesions. Role of nuclear magnetic resonance.”* National Congress Spanish Society Cardiology 2012. Rev Esp Cardiol.
26. Antonia Sambola Ayala, Jaume Figueras Bellot, Adoración Quiroga Brañas, Bernat Serra Creus, Bruno García Del Blanco, Marisol Ruiz-Meana, Gerard Martí Agasca y David García-Dorado García. *“Immunohistochemical characteristics of coronary thrombi resistant to fibrinolysis.”* National Congress Spanish Society Cardiology 2011. Rev Esp Cardiol.
27. Ivo Roca Luque, Jaume Figueras Bellot, Domenico Gruosso, José A. Barrabés, Rosa M. Lidón Corbí, Josefina Cortadellas, Antonia Sambola Ayala and David García-Dorado García. *“Implications of ST segment elevation after fibrinolysis in acute myocardial infarction: clinical and echocardiographic follow-up.”* National Congress Spanish Society Cardiology 2011. Rev Esp Cardiol.
28. María Sanz de la Garza, Rosa María Lidón Corbí, Jordi Bañeras Rius, Josefa Cortadellas Ángel, José A. Barrabés Riu, Antonia Sambola Ayala, Jaume Figueras Bellot, David García-Dorado. *“Mortality markers in patients with recovered out-of-hospital sudden death and first shockable rhythm subjected to therapeutic moderate hypothermia.”* National Congress Spanish Society Cardiology 2011. Rev Esp Cardiol.
29. Jaume Francisco Pascual, Josefa Cortadellas Ángel, José Francisco Rodríguez Palomares, Víctor Pineda Sánchez, Jaume Figueras Bellot, Rosa María Lidón Corbí, José A. Barrabés Riu, Antonia Sambola Ayala. *“Differential characteristics between patients admitted with an acute cardiac syndrome and without significant coronary lesions. Role of nuclear magnetic resonance.”* National Congress Spanish Society Cardiology 2011. Rev Esp Cardiol.
30. María Sanz de la Garza, Rosa María Lidón Corbí, Jordi Bañeras Rius,



**Josefa Cortadellas Ángel, José A. Barrabés Riu, Antonia Sambola Ayala, Jaume Figueras Bellot and David García-Dorado. “Mortality markers in patients with recovered out-of-hospital sudden death and first shockable rhythm subjected to therapeutic moderate hypothermia.” National Congress Spanish Society Cardiology 2011. Rev Esp Cardiol.**

**I participated as Chair and speaker in > 100 national and international Congresses.**

## **PROFESSIONAL EXPERIENCE**

### **a. Professional career**

**October 2003 – Present** Acute Cardiac Care Unit. Department of Cardiology. Vall d'Hebron Hospital.

- i. Consultant- level 3 (Decision published on May 15, 2021)

### **b. Years of profesional experience**

**2006 – Present** Statuary place as Cardiologist in the Hospital Universitari Vall d'Hebron (competitive).

**1989 - 1994** Statuary place General Medical Practice (competitive).

### **c. High added value assistance**

**2016 – Present** Member of infectious endocarditis committee in the Hospital Vall Hebron.

**2018 – Present** Expert advisor on cardiovascular disease in women. Coordinator of the Working Group on Equity in Cardiovascular Health within the framework of the Cardiovascular Health Strategy of the National Health System. **Ministry of Health, Consumption and Social Welfare.**

**2021- Present.** Member of Thrombosis Committee in Hospital Vall d'Hebron.

**2023- Present.** **Chair of Clinical Comission of Gender Perspective in University Hospital Vall d'Hebron.**

## C. OTHER MERITS

### I. Editorial positions

**2002 – 2012** Associate Editor. Cardiovascular Research. **IQ: 1; IF: 8.168.2018**

- Editorial committee. Journal American College of Cardiology ed. Esp.

**2018** – Editorial committee. Cardioclinics.

**2021** – Editorial committee. *European Cardiology Review*.

**2021** – Editor ESC-ACVC Journal IF: 4.69.

### II. Positions in scientific societies

**2008** – Fellow. European Society of Cardiology (merit honor: publications and recommendation letters. Invitation to join).

**2014 – 2015** Treasurer. Catalan Society of Cardiology.

**2015 – 2017** Coordinator of the Network Research Program for Acute Cardiac Care Units in Catalonia.

**2016** – Founding member of the Women in Cardiology working group. Spanish Society of Cardiology.

**2017** – Researcher attached to the CB!6.11.00479 group at CIBER in the Cardiovascular area.

**2018 –2022** Member of the Executive Committee (by vote) in Acute CardiovascularCare Association (European Society of Cardiology: *ESC*).

**2018** – President of the “Women in Cardiology” working group, Spanish Society of Cardiology.

**2018 –2022** Member of the Clinical Practice Guidelines Committee of the Spanish Society of Cardiology.

**2018 –2022** ACVA representative on the Committee of professional members of the European Society of Cardiology (Membership Committee *ESC*).

**2020 –2022** Member Fellows’ network Committee, European Society of Cardiology.

**2021** – Chair Task Force “Cardiac emergencies in women” Acute cardiovascular Association.

### III. External reviewer

- The Lancet
- British Medical Journal
- European Heart Journal
- Circulation
- JACC
- Heart
- International Journal of Cardiology
- Am J Cardiol
- Thrombosis Research
- Coronary Artery disease
- Clinical Cardiology
- British Medical Journal open
- Cardiology
- Spanish Journal of Cardiology

IV. **2006** – Research Project reviewer for FIS and ANECA

V. **2013 – Present** Abstracts reviewer. European Society of Cardiology.

VI. **2006 – Present** Abstracts and research projects reviewer. Spanish Society of Cardiology.

### VII. Organization of academic events

**2016 – 2017** Co-director in the organization of First Update in Acute Cardiac Care. Acute cardiac care of the working group of acute cardiac care units in Catalonia.

**2016 – 2017** Regional Coordinator of the Research Program in the Network of Acute Cardiac Care Units of Catalonia.

**2017 – 2018** Co-director in the organization of Second Update in Acute Cardiac Care. Acute cardiac care of the working group of acute cardiac care units in Catalonia..

**2019** Director I International Symposium in cardiovascular disease in women. University de Barcelona. Spanish Society of Cardiology.

**2022 Director** Symposium in cardiovascular disease in women. Spanish Society of Cardiology.

## VIII. AWARDS

- **Best residency final research project. Fundación Clínico.** Hospital Clínic de Barcelona for the project entitled: "Biological markers of aspirin resistance in acute coronary syndromes." 1999.
- **First prize for the best research project. Catalan Society of Cardiology** for the project entitled: "Biological markers of resistance to aspirin in acute coronary syndromes." June 2000.
- **First prize for the international project. Fellowship. Alonso Vega. Spanish Society of Cardiology.** Post-residency scholarship for training abroad. "Role of risk factors in the modulation of tissue factor and blood thrombogenicity". Mount Sinai. Medical Center 2000.
- **First prize. "Best communication of the Congress of the Spanish Society of Cardiology"** Sambola A, Evangelista A, Tornos MP, Permanyer G, Soler-Soler J. *"Are vasodilators beneficial in severe chronic aortic regurgitation?"* Congress of the Spanish Society of Cardiology 2004, Madrid.
- **Third award. "Best Communication of the Congress of the Catalan Society of Cardiology":** *"Are vasodilators beneficial in severe chronic aortic insufficiency?"* Barcelona 2005. Second prize.
- **First prize. "Best communication of the Congress of the Spanish Society of Cardiology"** Sambola A, Tornos MP, Angel J, Valencia J, Alfonso F, Bueno H, Iraculis E, Zueco. *"Therapeutic strategies after coronary stent implantation in chronically anticoagulated patients: MUSIC STUDY"*, Málaga, 2006.
- **First prize. Long-term most cited article in the Spanish Journal of Cardiology.** *"Use of thrombolysis in patients with acute myocardial infarction in Spain: observations from the PRIAMHO study."* Bosch X, Sambola A, López-Bescós L, Mancisidor X, Illa J. 2006.
- **First prize. "Best Communication of the Congress of the Catalan Society of Cardiology":** *"Influence of the female sex in the management of*

- chronic aortic insufficiency*". Barcelona, 2007.
- **First prize. Academia of the Medic Science to the "Best Communication of the Congress of the Catalan Society of Cardiology"** *"Influence of the female sex in the management of chronic aortic insufficiency."* Barcelona, 2007.
  - **Second prize. Best research study.** *"Oxidative stress and thrombogenicity in diabetes"*. GREAT (Global research on acute condition team) X International Meeting. Barcelona, 2017.
  - **Second prize. Best article of the Spanish Journal of Cardiology 2020.** *"Colchicine Administered in the First Episode of Acute Idiopathic Pericarditis: A Randomized Multicenter Open-label Study."* **Rev Esp Cardiol (Engl Ed)**. 2019 Sep;72(9):709-716. English, Spanish. doi: 10.1016/j.rec.2018.11.016. Epub 2019 Jan 22. PMID: 30683494.  
**(IQ: 1: IF: 4.67).**