

# Centre for Research on Syncope, Fainting and Falls

Director: Dr.sa Antonella Gropelli (Scientific and Clinical Advisor:  
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Specialised Research Centre afferent to the Cardiology Research  
Laboratory

## Members of the Research Group

- Dr. Antonella Gropelli
- Prof. Gianfranco Parati
- Prof Michele Brignole

## RESEARCH ACTIVITIES

- Diagnosis and treatment of syncope, fainting and unexplained falls
- Diagnosis and treatment of hypotensive syndromes and orthostatic intolerance
- Study of the biochemical, hemodynamic and autonomic mechanisms responsible of the above syndromes

## RESULTS OF PARTICULAR IMPORTANCE ACHIEVED

A) Adenosine and syncope:

1. Plasma adenosine and neurally mediated syncope: Europace 2020  
doi: 10.1093/europace/euaa070
2. Adenosine concentration in patients with neurally mediated syncope. Front  
Cardiovasc Med 2022  
doi: 103389/fcvm.2022.900023

B) Hemodynamic of blood pressure in patients with reflex syncope

3. Blood pressure management in hypertensive patients with syncope. J Hypertens  
2020 doi:10.1097/HJH.0000000000002555
4. Low-blood pressure phenotype underpins the tendency to reflex syncope. J  
Hypertens 2021  
DOI: 10.1097/HJH.0000000000002800
5. Underlying hemodynamic differences are associated with response to tilt testing.  
Sci Rep 2021  
doi: 10.1038/s41598-021-97503-0
6. Association between hypertension during 24 h ambulatory blood pressure  
monitoring and reflex syncope: the SynABPM 1 study. Eur Heart J 2022  
Doi.org/10.10093/eurheartj/ehac347
7. Feasibility of blood pressure measurement with a wearable (watch-type) monitor  
during impending syncopal episodes. J Am Heart Ass 2022  
DOI: 10.1161/JAHA.122.026420

8. Test for the identification of reflex syncope mechanism. Expert Rev Med Devices 2023  
Doi.org/10.1080/17434440.2023.2174428

C) Syncope in patients with inherited cardiopathies

- 9) Brugada syndrome and syncope: a practical approach for diagnosis and treatment. Europace 2021  
Doi:10.1093/europace/euaa370
- 10) Syncope in hypertrophic cardiomyopathy (Part I): an updated systematic review and meta-analysis. Int J Cardiol 2021  
DOI: 10.1016/j.ijcard.2022.03.028
- 11) Syncope in hypertrophic cardiomyopathy (Part II): an expert consensus statement on the diagnosis and management. Int J Cardiol 2022  
DOI: 10.1016/j.ijcard.2022.10.153

## **MAIN COLLABORATIONS IN NATIONAL AND INTERNATIONAL RESEARCH NETWORKS**

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