



Le fil rouge

Cagliari, October **9** | **11**, 2025

The fil rouge of atherosclerosis: from brain to heart imaging

President and Chair: **Luca Saba**

FOURTH EDITION

Hotel Regina Margherita, Cagliari

Atherosclerotic disease is the underlying process behind the two leading causes of death worldwide: ischemic stroke and myocardial infarction. Its prevalence is remarkably high in Western populations, affecting up to 75% of men and 62% of women aged 65 and older. Despite advances in therapy, current screening and diagnostic strategies remain insufficient to identify high-risk individuals before an event occurs. However, over the past decade, increasing recognition of the concept of the "vulnerable plaque" has opened new and promising perspectives in cardiovascular medicine.

It is now widely accepted that rupture of atherosclerotic plaques—particularly in the coronary and carotid arteries—plays a fundamental role in triggering acute events such as myocardial infarction and ischemic stroke. Recent progress in imaging technologies has significantly enhanced our ability to investigate plaque morphology and composition, providing compelling evidence that specific imaging features are associated with a higher risk of rupture, thrombosis, or embolization.

At the same time, the advent of lipid-lowering and anti-inflammatory therapies has introduced a new dimension to the management of atherosclerosis, raising important questions about how best to integrate medical therapy and revascularization strategies. Although coronary and carotid atherosclerosis share a common pathological basis, they differ in several key aspects—biological behavior, clinical presentation, therapeutic response—which call for a more nuanced, disease-specific approach.

This conference aims to address these complexities through a multi-specialty dialogue that brings together leading experts from Europe, Asia and the United States. Cardiologists, neurologists, vascular surgeons, radiologists, and imaging scientists will engage in an open exchange to explore both the shared principles and the distinctive features of atherosclerosis in the heart and brain.

Our primary goal is to highlight recent innovations in the early imaging of atherosclerotic disease and to understand how such imaging can guide more tailored, effective prevention strategies—ultimately aiming to reduce the burden of myocardial infarction and ischemic stroke through individualized care.

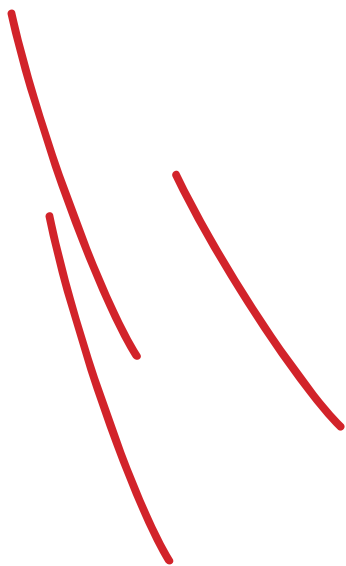
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BRUCE A. WASSERMAN
ROCCO VERGALLO
TODD VILLINES
CHUN YUAN

PROGRAM



PROGRAM DAY 1:

AFTERNOON

13.45 Welcome from the Conference Directors

SESSION 1

ADVANCEMENT IN IMAGING TECHNOLOGY IN CAROTID AND NEUROVASCULAR IMAGING

J.K. De Marco, E. Kooi, L. Politi

14.00 PCCT the impact of the resolution

N. Anzalone

14.15 Spectral Imaging and Plaque Imaging: what we know and where are we going

L. Saba

14.30 Magnetic Resonance: 4D flow?

S. McNally

14.45 US with microbubble and plaque imaging

V. Rafailidis

15.00 Expert panel challenge: What should be the target of the technological evolution?

C. Yuan, C. Godi, J. Song

SESSION 2

THE FUNDAMENTALS FOR THE STROKE

B. A. Wasserman, Q. Yang, M. Caulo

15.30 The changing landscape of epidemiology of stroke

D. Bos

15.45 Primary and secondary stroke: physiopathology and differences

J. Meschia

16.00 Near occlusion from physiopathology to imaging

E. Johnasson

16.15 The calcium mystery what we have understood

J. Song

16.30 Expert panel challenge: Old and new concepts: what are the barriers?

E. Johnasson, J. Meschia

17.00-17.15 Break

SESSION 3

STROKE AND THE TRIALS: WHERE WE ARE WHAT ARE WE PLANNING FOR THE NEXT FUTURE?

M. Mossa Basha, S. Masala, C. Cadeddu

17.15 Carotid News from the trials what are we expecting

M. Porcu

17.30 Coronary News from the trials what are we expecting

R. Cau

17.45 Expert panel: which the next trials we need in the next future

A. Kopczak, R. Vergallo, P. Siotto

18.15 Lecture of the first day:

Intraplaque Haemorrhage and Inflammation in Atherosclerosis: from Pathophysiology to Imaging

E. Kooi

18.45 Conclusion of the first day

19.00 Opening of the conference

PROGRAM DAY 2:

MORNING

08.00 Welcome second day

SESSION 4

Coronary Artery and PCCT: what is the current level of evidence

L. D'Errico, S. Marcia, R. Salgado

08.30 PCCT and coronary: CT in patients with native and revascularized CAD

F. Cademartiri

08.50 PCCT and CAD: impact on research activity and trial design

A. Esposito

09.10 Expert panel challenge:

Is PCCT mere evolution or a revolution?

F. Cademartiri, A. Esposito

SESSION 5

The Artificial Intelligence impact

S. Mc Nally, B.A. Wasserman

09.45 Use of AI in Cardiac CT and MRI: understanding the Statement from the ESCR, EuSoMII, NASCI, SCCT, SCMR, SIIM, and RSNA

D. Mastrodicasa

10.00 AI prognostication in myocardial Ischemia / infarct

R. Marano

10.15 Coronary imaging and AI information

G. Muscogiuri

10.30 Carotid imaging and AI: should new AI metric used?

M. Mossa Basha

10.45 Expert panel challenge:

How do we bridge the gap between AI development and implementation?

R. Marano, C. Yuan

11.00-11.15 Break

SESSION 6

Carotid therapy in primary and secondary stroke

G. De Rubeis, A. Falini, G. Pratesi, A. Scuteri

11.15 Carotid drug therapies: state of the art

J. Meschia

11.30 Endarterectomy indications at the level of evidence in 2025

K. Paraskevas

11.45 Moving the boundaries the Mayo Experience 2025

G. Lanzino

12.00 Carotid Artery Stenting: when and why?

P. Montorsi

12.15 Carotid based prevention: more than stroke. The impact of cognition

J. Mc Cabe

12.30 Expert panel challenge: The "cognition impact" could change the indications?

J. Meschia, J. Mc Cabe, E. Johnasson

12.45-14.00 Lunch

PROGRAM DAY 2:

AFTERNOON

14.00 Welcome second day afternoon

SESSION 7

THE CURRENT KNOWLEDGE IN PATHOLOGY AND BIOLOGY

L. Saba, G. Lanzino, M. Francone

14.30 Fundamental Pathobiology and Physiology of carotid and coronary Atherosclerosis and implications

V. Nardi

14.45 Peri-coronary fat alterations: current knowledge and potential implications for the clinical practice

M. Guglielmo

G. Ntaios

15.00 What are the missing points we do not understand in the pathobiology?

15.15 Q/A session

15.30 Lecture of the second day:

The transition from chronic to acute atherosclerosis

P. Libby

SESSION 8

FLOW - COMPOSITION - GEOMETRY

R. Salgado, S. Seitun, G. Pontone

16.00 Interaction between flow– composition and geometry in carotid artery vulnerability

G. Pontone

16.15 Wall shear stress/flow and coronary plaque

M. Francone

16.30 The relationship of FFR/flow and myocardial perfusion

N. Galea

16.45 From Research to clinical practice: what we know from research we should move to clinical practice

R. Salgado

17.00 Q/A session

17.15 - 17.30 Break

SESSION 9

PREVENTION AND THERAPY: WHAT WE NOW AND WE THINK WILL HAPPEN IN THE NEXT FUTURE

A. Esposito, A. Boi, R. Sanfilippo

17.30 Carotid artery and stroke. What is the best approach: TCAR and Revascularization when? *M. Schaller*

17.45 Carotid artery and stroke. What is the best approach: BMT when? Counterpoint *F. Romana Pezzella*

18.00 Coronary artery and ischemic heart disease: What is the best approach: invasive when? *R. Vergallo*

18.15 Coronary artery and ischemic heart disease: what is the best approach: BMT ? Counterpoint *F. Costa*

18.30 Expert panel challenge:

Following the clues

18.45 Q/A session

19.00 Conclusion of the second day

PROGRAM DAY 3:

MORNING

08.15 Welcome third day

SESSION 10

TWO YEARS AFTER THE PLAQUE-RADS: WHERE WE ARE?

J.K. de Marco – Bruce A. Wasserman - C. Yuan

08.30 Two year of Plaque-RADS introduction

L. Saba

08.45 Evidence from the published literature

A. Kopczak

09.00 Application on the road in CT

R. Cau

09.15 Expert panel challenge:

Open discussion the research lines in the next future?

SESSION 11

STROKE, INTRACRANIAL ARTERIES AND HYPERTENSION

D. Mandell, J. Song

09.30 Plaque Remodelling of Intracranial Arteries

B. A. Wasserman

10.00 Plaque Evolution of Intracranial Arteries

C. Yuan

10.10 The Concept of Cerebral Small Vessel Disease Activity

D. Mandell

10.30 Imaging of Hypertension?

G. Roditi

10.50 Q/A session

11.00 -11.30 Break

SESSION 12

CORONARY VULNERABILITY WHAT ARE THE TOP FEATURES?

L. Natale, T. D'Angelo, R. Marano

11.30 Invasive imaging of plaques (IVUS/OCT)

R. Vergallo

11.45 High risk plaque characteristic

T. Villines

12.00 Plaque Characteristic and Ischemia

T. D'Angelo

12.15 Plaque burden

S. Seitun

12.30 Q/A session

12.45 Best poster/presentation (first second and third) will be awarded

To be confirmed

13.00 Remarks – summary – final points and next meeting information

(October- 2027)

FOURTH EDITION

UNDER THE AUSPICES OF



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EUROPEAN SOCIETY OF
CARDIOVASCULAR
RADIOLOGY



FNOMCeO

Federazione Nazionale degli Ordini
dei Medici Chirurghi e degli Odontoiatri

INFO

LOCATION Hotel Regina Margherita, viale Regina Margherita, 44, Cagliari
ECM

Il congresso è accreditato, secondo normativa ECM, per le seguenti professioni/discipline:

MEDICO CHIRURGO: Tutte le discipline

TSRM

INFERMIERE

ID: 459378 crediti formativi: **11,2**

Obiettivi formativi: Linee guida - Protocolli – Procedure.

Responsabile Scientifico: Prof. Luca Saba

REGISTRATION FEE

In person "face to face"

Physicians: € 250,00 (VAT 22%
included)

BADGE

Badge will be given upon registration.
You are kindly required to wear your name
badge during all sessions

In-person details

Admission to all scientific sessions
Access to sponsor exhibition area
A name badge
A certificate of attendance (by email)
Opening aperitif 09/10
Lunch 10/10
Ticket coffee
Rates are inclusive of VAT
ECM (only italian physicians)

PROGRAMME MODIFICATIONS

The Scientific Secretariat and The Organizing Secretariat reserve the right to make any changes
to the programme that will be deemed necessary for organizational and/or scientific reasons.



Le fil rouge

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Conference Organizer Secretariat

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