



Le fil rouge

The fil rouge of atherosclerosis: from brain to heart imaging

CAGLIARI
HOTEL REGINA MARGHERITA
OCTOBER 17-18, 2019

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www.frathero.com



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Nowadays it is widely accepted that the rupture of the atherosclerotic plaque in coronary and carotid arteries plays a fundamental role in the development of acute myocardial infarctions or cerebrovascular events.

Atherosclerotic disease is the underlying process of the two most important causes of death worldwide: ischemic stroke and myocardial infarction. Atherosclerosis has a high prevalence in western countries with values up to 75% of men and 62% of women aged 65 years and older. Despite advances in treatment, available routinely used screening and diagnostic methods are insufficient to identify the victims before the event occurs even if in the last years the recognition of the role of the vulnerable plaque has opened new avenues of opportunity in the field of cardiovascular medicine.

In the last years, imaging techniques have explored, with a new level of detail, the atherosclerotic disease of the vessels by offering new evidences that some plaque characteristics are significantly associated to the risk of rupture and subsequent thrombosis or embolization. Moreover, the recent evidence of the anti-atherosclerotic effects determined by lipid-lowering and anti-inflammatory therapies poses a challenge for the choice of therapeutic approaches (best medical treatment – revascularization), maximized by the evidence that coronary and carotid atherosclerosis share common patterns but diverge for some important features. In this conference, we will discuss with worldwide class speakers from Europe and United States the similarities and differences between coronary and carotid artery plaque from the imaging point of view and the potential implications for systemic therapies according to the emerging evidences.

Our purpose is to present the more recent innovations in terms of early imaging of atherosclerosis and how to identify the best therapies for avoiding myocardial infarctions or cerebrovascular events.

L'aterosclerosi è il processo alla base delle due più importanti cause di morte a livello mondiale: l'ictus ischemico e l'infarto del miocardio. L'aterosclerosi ha un'alta prevalenza nei paesi occidentali con valori che raggiungono il 75% degli uomini e il 62% delle donne di età pari o superiore a 65 anni. Nonostante i progressi nel trattamento, i metodi di screening e diagnostici disponibili come routine sono attualmente insufficienti per identificare le vittime prima che l'evento si verifichi. Per l'identificazione della stratificazione del rischio fino si continua a considerare come parametro di riferimento il grado di stenosi carotidea sebbene negli ultimi anni il riconoscimento del ruolo della vulnerabilità della placca abbia aperto nuove opportunità nel campo della medicina preventiva cardiovascolare.

Negli ultimi anni, le tecniche di imaging hanno esplorato, con un nuovo livello di dettaglio, la malattia aterosclerotica offrendo forti evidenze di come alcune caratteristiche della placca siano significativamente associate al rischio di rottura e conseguente trombosi o embolizzazione distale. Inoltre, la recente evidenza degli effetti anti-aterosclerotici determinati dalle terapie ipolipemizzanti e antinfiammatorie pone una sfida per la scelta degli approcci terapeutici (miglior trattamento medico - rivascolarizzazione), massimizzata dall'evidenza che l'aterosclerosi coronarica e carotidea condividono modelli comuni sebbene divergano per alcune caratteristiche importanti. In questa conferenza discuteremo con i maggiori esperti al mondo, provenienti da Europa e Stati Uniti, Australia e Asia le somiglianze e le differenze tra la placca coronarica e carotidea dal punto di vista dell'imaging e le potenziali implicazioni per le terapie sistemiche secondo le emergenti evidenze.

Il nostro scopo è presentare le più recenti innovazioni in termini di imaging precoce dell'aterosclerosi e come identificare le migliori terapie per evitare infarti miocardici o eventi cerebrovascolari.

FACULTY

Anne Abbot, Melbourne
Nicoletta Anzalone, Milan
Pierpaolo Bassareo, Cagliari
Gavin Blake, Dublin
Alberto Boi, Cagliari
Christian Cadeddu, Cagliari
Filippo Cademartiri, Monselice
Paolo Camici, Milan
Alessandro Carriero, Novara
Gavino Casu, Nuoro
Carlo Catalano, Rome
Cesare Colosimo, Rome
Simone Comelli, Cagliari
Maurizio Conti, Sassari
Marco Corda, Cagliari
Maria Assunta Cova, Trieste
Giovanni De Fazio, Cagliari
Kevin DeMarco, Bethesda
Antonio Esposito, Milan
Gavino Faa, Cagliari
Andrea Falini, Milan
Marco Francone, Rome
Clara Gerosa, Cagliari
Jonathan Gillard, Cambridge
Claudia Godi, Rome
Giuseppe Guglielmi, Foglia
Ajay Gupta, New York
Eline Kooi, Maastricht

Giuseppe Lanzino, Rochester
Tim Leiner, Maastricht
Christian Loewe, Vienne
Bruno Loi, Cagliari
Riccardo Marano, Rome
Stefano Marcia, Cagliari
Maurizio Melis, Cagliari
Luigi Meloni, Cagliari
Giuseppe Mercuro, Cagliari
Roberto Montisci, Cagliari
Alan R. Moody, Toronto
Gianluca Pontone, Milan
Maurizio Porcu, Cagliari
Francesco Prati, Rome
Stefano Profili, Sassari
Yang Qi, Beijing
Tobias Saam, Munich
Luca Saba, Cagliari
Rodrigo Salgado, Antwerp
David Saloner, San Francisco
Roberto Sanfilippo, Cagliari
Sara Seitun, Genoa
Paolo Siotto, Cagliari
Daniel Staub, Basel
Aad Van Der Lugt, Rotterdam
Bruce Allan Wasserman, Baltimore
Max Wintermark, Stanford

PROGRAM

OCTOBER 17, 2019

Intra and extracranial

- 08.00 Registration
08.45 Authorities
08.50 Welcome from the conference directors
Luca Saba, Marco Francone, Ajay Gupta, Max Wintermark
- SESSION 1 · Intra-cranial Imaging**
Max Wintermark, Maurizio Conti, Andrea Falini, Cesare Colosimo
- 09.00 Insights into Intracranial Vasculopathies Using Vessel Wall Imaging
Bruce A. Wasserman
- 09.30 Computed Tomography (with DECT and dose): is it possible to go beyond the lumen?
Aad Van Der Lugt
- 10.00 Magnetic Resonance (no functional imaging); intra-cranial plaque imaging
Nicoletta Anzalone
- 10.30 Round Table and Discussion: intracranial wall imaging:
is possible at the current level of technology?
David Saloner, Bruce A. Wasserman, Tobias Saam, Kevin De Marco
- 10.45 Break
- SESSION 2 · Extra-cranial Imaging**
Ajay Gupta, Alessandro Carriero, Maria Cova, Paolo Siotto, Stefano Marcia
- 11.00 Ultrasound: role and potentialities in carotid artery imaging
Daniel Staub
- 11.30 Computed Tomography (with DECT and dose) and plaque imaging: limits and potentialities
Ajay Gupta
- 12.00 Magnetic Reasonance (no functional imaging): how to image the targets of
plaque's Vulnerability
Tobias Saam
- 12.30 Advanced imaging of inflammation and microvasculature
Eline Kooi
- 13.00 Discussion
- 13.30 Lunch

**SESSION 3 · Regression and plaque variation after pharmacological therapy
(atherosclerosis monitoring) with imaging**

Nicoletta Anzalone, Cesare Colosimo, Giuseppe Guglielmi, Daniel Staub, Tobias Saam

14.40 Monitoring with Ultrasound

Daniel Staub

15.00 Monitoring with Computed Tomography

Aad Van Der Lugt

15.20 Monitoring with Magnetic Resonance

Alan R. Moody

Round Table

Limits and potentialities in monitoring plaque regression and progression with imaging. Expert panel

Yang Qi, Alan R. Moody, Kevin De Marco, Roberto Montisci

16.20 Break

SESSION 4 · Imaging and therapies: guidelines and current insights.

What is the correct therapeutical approach best medical treatment, interventional radiology, carotid endarterectomy?

Giovanni De Fazio, Maurizio Melis, Simone Comelli, Alan R. Moody, Roberto Sanfilippo

16.40 Best Medical Treatment - current Guidelines and future options

Anne Abbott

17.00 Endovascular Therapy

Simone Comelli

17.20 Carotid Endarterectomy

Giuseppe Lanzino

Round Table

Guidelines, potentialities and information from imaging and advanced imaging.

What is the right strategy ?

Cesare Colosimo, Maurizio Melis, Giuseppe Lanzino, Stefano Profili, Giovanni Defazio, Roberto Montisci, Jonathan Gillard

Main Lecture Day 1:

From NASCET to vulnerable plaque. The evolution of supra-aortic imaging

Jonathan Gillard

18.30 Stop

OCTOBER 18, 2019

Coronary

SESSION 5 · Coronary plaque assessment: imaging predicting histology

Christian Cadeddu, Riccardo Marano, Bruno Loi, Alessandro Carriero

09.00 Coronary Atherosclerosis pathology revisited: what's new from clinical research?

Gavino Faa, Clara Gerosa

09.30 Selective coronary angiography beyond vessel "luminography"

Gavin Blake

10.00 CT: non-invasive evaluation of coronary atherosclerosis "in vivo"

Christian Loewe

10.30 CT Perfusion and FFR: how far from effective invasive measurements?

Gianluca Pontone

Round Table

Marco Corda, Bruno Loi, Gavino Casu, Giuseppe Mercuro, Marco Francone

11.30 Break

SESSION 6 · From vulnerable plaque to vulnerable patient

Giuseppe Mercuro, Sara Seitun, Maurizio Porcu, Carlo Catalano

11.40 Concept of "patient's vulnerability" in modern cardiology: what is relevant to know?

Paolo Camici

12.00 Lights and shadows of CT for vulnerable plaque imaging

Riccardo Marano

12.20 Imaging of acute chest pain: rationale use of non-invasive diagnostic tools

Tim Leiner

12.40 From diagnosis to prognosis: which imaging biomarker?

Antonio Esposito

Round Table

Stenosis, lesion load, vulnerability: which impact on patient's management

Pierpaolo Bassareo, Francesco Prati, Christian Loewe, Gavin Blake, Stefano Profili

13.30 Break



SESSION 7 · Imaging and therapies: guidelines and current insights

Luigi Meloni, Gianluca Pontone, Gavino Casu, Roberto Montisci

- 14.40 Coronary atherosclerosis progression: what is important to know
Pierpaolo Bassareo
- 15.00 Use of invasive imaging tools to guide therapy and monitor pharmacological response
Francesco Prati
- 15.20 Cardiac CT to monitor coronary plaque changes before and after therapy:
is there a rationale?
Riccardo Marano
- 15.40 Coronary calcium score: pros and cons
Sara Seitun
- 16.00 **Round Table**
Is there a future for imaging-based targeted therapy?
Alberto Boi, Marco Francone, Filippo Cademartiri, Paolo Camici
- 16.40 Best clinical poster (first, second and third) will be awarded (To be confirmed)
- 16.50 **Main Lecture Day 2**
Imaging of Coronary arteries: current trial and future prospectives
Rodrigo Salgado
- 17.15 Remarks - summary - final points and next meeting information (October 2021)
- 17.30 Stop

GENERAL INFORMATIONS

Registration Fee

Physicians: € 150,00 (VAT 22% included).

Student: € 50,00 (VAT 22% included)

The registration fee includes:

admission to all scientific sessions, access to sponsor exhibition area, a conference bag, a name badge, a certificate of attendance, simultaneous translation (Italian – English), coffee break, light lunch.

ECM (only italian physicians)

Il corso è stato accreditato presso il Sistema ECM Nazionale per n. 100 partecipanti appartenenti alle seguenti categorie:

Medici Chirurghi appartenenti alle seguenti discipline

Anatomia Patologica - Anestesia e Rianimazione – Cardiochirurgia – Cardiologia
Chirurgia Generale - Ematologia – Medicina Interna – NeuroChirurgia - Neurologia – Oncologia
Radiodiagnostica – Radioterapia

Id evento: 4582-268711

Ore formative: 10

Crediti previsti: 10

Obiettivi Formativi: LINEE GUIDA - PROTOCOLLI - PROCEDURE

Responsabile Scientifico: Prof. Luca Saba

Badge

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

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.

POSTER AND ORAL PRESENTATION SUBMISSION

Deadline September 15th

Communication of Abstract Acceptation September 15th

For detailed information: www.frathero.com

Submission

Participants interested in making a poster presentation are invited to submit an abstract.

To submit your abstracts you will need to send contact a word file to the following email:

frathersclerosis@gmail.com

Accepted abstracts will be invited for presentation in one of the following formats:

- as an oral presentation in a workshop session
- as a discussed poster in the poster exhibition
- as a poster presentation in the poster exhibition

All abstracts must be submitted and presented in clear English with accurate grammar and spelling of a quality suitable for publication.

Presentation at Congress

For each abstract, an author is expected to attend the congress and make the poster or oral presentation. Presenting authors must register by the registration deadline September 1st, 2019.

Instructions for preparation of oral or poster presentations will be sent together with acceptance notifications.

Abstract title – Limited to 25 words / **Abstract text** – Limited to 250 words

All the accepted abstracts will be indexed by indexreference.org

Best Research Poster Presentation Awards

These awards recognize the scientific merit of poster presentations given at the conference

The top 10% of scores given by the Contributed Research Review Committee at the time of submission are considered for the award

A certificate with an inscription stating the award name, name of the presenting author, and title of the presentation shall be sent to the award recipient after the conference when the conditions of acceptance are met.

Official announcement of the recipients will occur after the conference via the website, and via email to conference attendees.

UNDER THE AUSPICES



F NOMCeO

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dei Medici Chirurghi e degli Odontoiatri



società Italiana di Neuroradiologia

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President and Chair

Luca Saba

Scientific Directos

Marco Francone, Ajay Gupta

Luca Saba, Max Wintermark

Scientific committee

Antonella Balestrerieri, Alberto Boi, Pierpaolo Bassareo,

Valeria Cherchi, Luigi Meloni, Giuseppe Mercuro,

Maurizio Porcu, Pierleone Lucatelli

Conference Organizer Secretariat

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