

ICELAND REYKJAVIK HILTON NORDICA

Vulnerable Patient Meeting

A Cardialysis Event

**JUNE** 2016

**VPM2016 PROGRAM** 



#### OUTLINE

#### DAY 1

#### **Basics**

- Key note lectures
- Who is at risk of developing atherosclerosis? from Framingham to 'Omics'
- Mechanisms of Atherogenesis
- Targets for molecular imaging
- Interventions to prevent coronary disease development
- Non-traditional risk factors
- Who will become vulnerable and when will it happen?
- How do we identify vulnerable myocardium, imaging or functionality test?
- "Grey" cases discussion: with or without clinical consequences

#### DAY 2

#### **Mechanisms and Imaging**

- Intracoronary Imaging
- TECHNICAL CORNER
- Non-invasive imaging
- Biomechanical modelling
- Vulnerability: What to do after the event

#### DAY 3

#### **Treatment**

- Mechanisms of plaque instability
- Thrombosis and antithrombotic therapies
- Treatment options for vulnerable plagues/patients
- TRIAL CORNER on PCSK-9
- Anti-inflammatory drug strategies
- Treatments to reduce patient vulnerability
- FINAL DEBATE Vulnerable Plaque Simply a Myth or is the Requiem premature?

# Sunday **June 26**, 2016





Welcome remarks
Prof. Patrick W. Serruys and
guest director Prof. Bernard Gersh



© 08:05 What have I learned from VPM 2015? A 10,000 feet view Patrick W. Serruys (NL)

O8:25 The vulnerable population. The epidemic of CVD in the developing world: Global implications.

Bernard Gersh (USA)

08:45

Burning questions (5min)

Who is at risk of developing Atherosclerosis?

- from Framingham to 'Omics'
Chairmen: Eric Peterson and Bernard Gersh

© 08:50 Precision medicine initiative- Dream or reality?

Eric Peterson (USA)

One burning question (3min)

© 09:03 From genome wide association to whole genome sequencing and epigenetics in CAD - What has been delivered and what can we expect?

Kari Stefansson (IS)
One burning question (3min)

© 09:16 Cardiovascular phenotyping in population studies - reclassification of CV risk in moderate/low risk individuals.

Vilmundur Gudnason (IS)

One burning question (3min)

(10 min.)

# **DAY 1** SUNDAY JUNE 26, 2016



Mechanisms of Atherogenesis
Chairmen: Ramzi Khamis and Kari Stefansson

Ageing and the Biology of Atherosclerosis
Toren Finkel (USA)
One burning question (3min)

© 09:58 Effect of DNA damage and repair on Atherosclerosis – a clinical perspective

Martin Bennett (UK)
One burning question (3min)

Assessing oxidative stress, its impact on atherogenesis and predicting clinical outcomes

Ramzi Khamis (UK)

One burning question (3min)

(10 min)

(30 min)

Targets for molecular imaging
Chairmen: Marc Dweck and Rob Krams

Macrophages
Farouc Jaffer (USA)
One burning question (3min)

haemorrhage

Potential clinical imaging targets: hypoxia and

Joe Boyle (UK)

11:28 One burning question (3min)

(Legisland) Anti-oxidised LDL antibodies from predicting risk in blood to imaging atherosclerosis.

Ramzi Khamis (UK)
One burning question (3min)

(10 min)





		Interventions to Prevent Coronary Disease Development Chairmen: Farouc Jaffer and Martin Bennett
11:54	<b>1</b>	Focus on families and peer pressure- it works! <b>Juan Alvira (ES)</b> One burning question (3min)
12:07 12:17	<b>3</b>	Hypertension – Impact of Under-treatment on Global CVD burden implications of SPRINT. <b>Eric Peterson (USA)</b> One burning question (3min)
12:20	4	Cardiotoxicity of Tyrosine Kinase Inhibitors: Novel mechanisms and implications for atherosclerosis  Ori Ben-Yehuda (USA)  One burning question (3min)
12:33	0	Discussion (10 min)
12:45		Lunch Break
12:45		Lunch Break  Non-traditional risk factors Chairmen: Vilmundur Gudnason and Eric Peterson
12:45 14:15 14:25		Non-traditional risk factors
14:15		Non-traditional risk factors Chairmen: Vilmundur Gudnason and Eric Peterson Endothelial dysfunction and vasomotion Amir Lerman (USA)

# DAY 1 SUNDAY JUNE 26, 2016 VPM2016 A Cardialysis Event 6

14:53	4	Patients with chronic kidney disease Lilach Lerman (USA)
15:03		One burning question (3min)

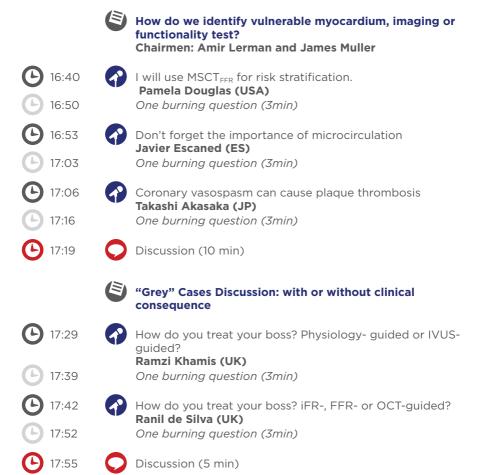
- Discussion (15 min)
  - Who will become vulnerable and when will it happen? Chairmen: Wolfgang Koenig and James Muller
- Circulating biomarkers for predicting future cardiovascular risk do we need more that high sensitivity troponin and BNP?
- Stefan Blankenberg (DE)
  15:31 One burning question (3min)
- Beyond circulating biomarkers: In situ biomarkers assessment is essential to identify the vulnerable patients.

  Nick West (UK)
- Die burning question (3min)
- MSCT vs. PET-CT for identification of vulnerable patient what PREFFIR will tell us.
- Marc Dweck (UK)

  15:57 One burning question (3min)
- (10 min)







## **DAY 2** MONDAY JUNE 27, 2016



8

Intracoronary Imaging	
Chairmen: Ton van der Steen and Gregg	Stone

O8:00 New development in intravascular ultrasound Gary Mintz (USA)

(3min) One burning question

O8:13 New development in intravascular optical coherence tomography. (ESCORT Trial update )

Takashi Akasaka (JP)
One burning question (3min)

Multimodality catheter development: OCT-NIRS, OCT-NIRF and IVUS-NIRF

Farouc Jaffer (USA)

One burning question (3 min)

O8:39 NIRS-IVUS for detection of vulnerable plaque.

David Erlinge (SE )

08:49 One burning question (3min)

© 08:52 Serial (5yrs) analysis of fused OCT IVUS GS and IVUS VH. What does multimodality imaging add?

Patrick W. Serruys (NL)
O9:02
One burning question (3min)

(15 min)

O9:20 ETECHNICAL CORNER (5 slides - 5 min.)

NIRS as a possible tool to detect erosion sites

James Muller (USA)

James Muller (USA)

Combined catheter of OCT-IVUS

Yoshi Onuma (NL)

Heartbeat OCT

Ton van der Steen (NL)

Photo-acoustic imaging
Ton van der Steen (NL)

(10 min)



10:10

11:00

11:10

11:13

11:23

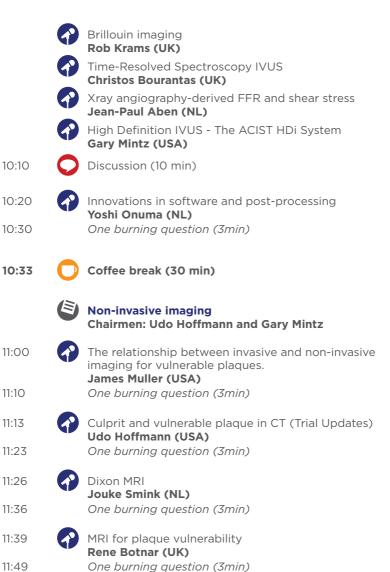
11:26

11:36

11:39

11:49





## **DAY 2** MONDAY JUNE 27, 2016



10





One burning question (3min)

12:05

- Panel discussion (20 min)
  - Will we ever solve the problem of vulnerable plaque with intravascular imaging?
  - We will solve the problem with non-invasive imaging.
  - No imaging needed.

#### 12:25



## Biomechanical modelling Chairmen: Peter Stone and Ton van der Steen

13:45

Haemodynamic determinants of advanced coronary plaque formation

#### Ranil de Silva (UK)

One burning question (3min)

13:58

13:55

Shear stress is the determinant of neoatherosclerosis and stent failure

#### **Christos Bourantas (UK)**

(3min) 14:08 One burning question

14:11

What influences plaque progression and vulnerability most: High shear stress, low shear stress, or oscillatory shear stress?

#### Jolanda Wentzel (NL)

(3min) 14:21 One burning question

14:24

Linking haemodynamics with biology - systems biology of advanced atherosclerotic plaque formation

Rob Krams (UK)
One burning question (3min)

14:37

14:34

Applying shear stress to PROSPECT Peter Stone (USA)

(3min) 14:47 One burning question







Is shear stress ready for prime time? Feasibility of on-line analysis and what decision could be made based on shear stress.

Academic Pespective: Frank Gijsen (NL)
What we need from industry: Christos Bourantas (UK)
One burning question (3min)

15:13

15:10

Discussion (20 min)

Vulnerability: What to do after the event Chairmen: Ramzi Khamis and James Muller

15:33

Cardioprotection after reperfusion - it works in animals but why not in patients?

Bernard Gersh (USA)

One burning question (3min)

15:46

15:56

Intracoronary infusion of Adenosine perfusion in preclinical model

Dirk-Jan Duncker (NL)
One burning question (3min)

15:59

Cooling for myocardial infarction: How much, how soon?

Marko Noč (SL)

16:09 One burning question (3min)

16:12

Discussion (10 min)

## **DAY 3** TUESDAY JUNE 28, 2016



12

Mechanisms of plaque instability
<b>Chairmen: Rob Krams and Martin Bennett</b>

Observations from sudden cardiac death patients – how do they relate to our patients presenting with ACS?

Michael Joner (DE)
One burning question (3min)

© 08:13 The temporal shift in plaque characteristics underlying clinically manifest of atherosclerotic disease.

Gerard Pasterkamp (NL)
One burning question (3min)

O8:26 Porcine models of vulnerable plaque: Apo E knockout minipigs

Jacob Fog Bentzon (ES)
One burning question (3min)

O8:39 Humoral immunity and plaque vulnerability Ramzi Khamis (UK)

One burning question (3min)

O8:52 Intra-plaque haemorrhage and hypoxia - potential diagnostic and therapeutic targets

Joe Boyle (UK)
One burning question (3min)

**O**9:05 Discussion (15 min)

# Tuesday **June 28**, 2016

11:17





Discussion (15 min)

## **DAY 3** | TUESDAY | JUNE 28, 2016



14

11:32	TRIAL CORNER on PCSK-9	(5 slides - 5 min)
	FOURIER trial ODYSSEY outcomes trial	Ricardo Dent Timothée Sourdille James Revkin

- Panel discussion of trialists
  Gregg Stone, Bernard Gersh, Wolfgang Koenig,
  Amir Lerman, Patrick W. Serruys ,......
- Lunch Break
  - Anti-inflammatory drug strategies
    Chairmen: Ramzi Khamis and Bernard Gersh
- Targeting CD40-CD40L

  Esther Lutgens (NL)

  One burning question (3min)
- Lessons learned from biomarker analysis of STABILITY. Wolfgang Koenig (DE)
- 13:58 One burning question (3min)
- CIRT, CANTOS and COLCOT Trials Rationale and Progress
  Wolfgang Koenig (DE)
- (a) 14:11 One burning question (3min)
- (10 min)
  - Treatments to reduce patient vulnerability
    Chairmen: James Muller and John Ambrose
- Why do we need the ISCHEMIA trial?

  Gregg Stone (USA)

  One burning question (3min)
- How vulnerable are patients with refractory angina?

  Ranil de Silva (UK)
- 14:48 One burning question (3min)

# **Tuesday June 28, 2016**



(L) 14:51 (1) 15:01	Biomarkers and IVUS for risk prediction – what did we learn from ATHEROREMO and BIOMArCS study?  Eric Boersma (NL)  One burning question (3 min)
(L) 15:04 (1) 15:14	IBIS-4: Effects of high-intensity statin therapy on OCT and VH-IVUS derived vulnerability parameters  Lorenz Räber (CH)  One burning question (3min)
(L) 15:17	Treatment of Vulnerable Plaque From PROSPECT: ABSORB to PREVENT (with case examples) Gregg Stone (USA) One burning question (3min)
(L) 15:30	Discussion (15 min)
	FINAL DEBATE: Vulnerable Plaque- Simply a Myth or is the Requiem premature?
<b>(</b> ) 15:45	Vulnerable plaque does not exist. Stop wasting your time and our money. A clinician's view.  John Ambrose (USA)
15:55	Thirteen years of VPM and the search for the vulnerable plaque - Now we are getting somewhere!!  James Muller (USA)
16:05	Discussion (10 min)
(L) 16:15	Closing remarks: Board of directors (Patrick W. Serruys, Gregg Stone,

Ton van der Steen, Wolfgang Koenig, Amir Lerman,

James Muller and Gerrit-Anne van Es) Guest director: Bernard Gersh





#### **GENERAL INFORMATION**

The Meeting will be held from June 26th - June 28th, 2016, at the Hilton Revkjavik Nordica Hotel.

#### **CONGRESS LOCATION & VENUE**

#### HILTON REYKJAVIK NORDICA HOTEL

Sudurlandsbraut 2, Reykjavik, 108, Iceland Tel.: +354-444-5000 Fax: +354-444-5001

Set in the city center, the stylish Hilton Revkjavik Nordica hotel is one of the city's most popular destinations for tourists, business travelers and locals alike. Its central location provides a great base from which to discover the capital, and makes it easy to travel further afield and explore Iceland's unspoiled natural landscapes.

#### SCIENTIFIC PRESENTATIONS

The Meeting rooms will be equipped with Screen, Data Video Projector for Microsoft Power Point presentations, Note pads, pens and laser pointers.

Please download your presentation at the meeting secretariat before your session starts.

#### TRANSFER SERVICES FROM/ TO AIRPORT

Transfer services will be available to/from the Hilton Nordica Reykjavik Hotel, according to your flight itinerary. Kindly note, that there will be a transfer service arranged for you upon your arrival and departure. Please note that the pick-up time regarding your departure will be 3hrs & 30mns prior your flight.

#### **SPECIAL THANKS TO**



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#### **MEETING SECRETARIAT & OFFICIAL TRAVEL AGENCY**

The Meeting's Secretariat will operate during meeting hours.



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