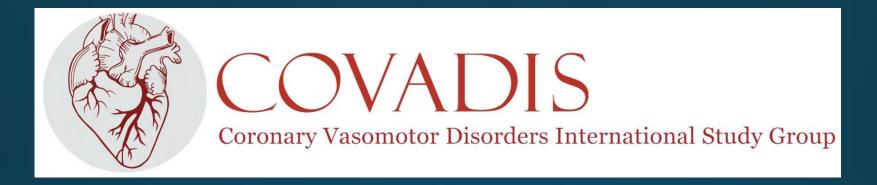
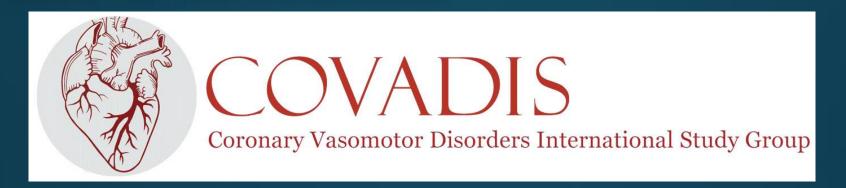
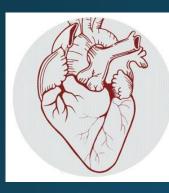
The COVADIS Website



- Changes in format?
- Members only section?
- Links?
- Opinion Forum?

COVADIS Logo – Animation Screenshots





COVADIS

Coronary Vasomotor Disorders International Study Group



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Coronary Vasomotor Disorders International Study Group

COVADIS Website Screenshots – Desktop View

Current website link: www.covadis.online/wordpress

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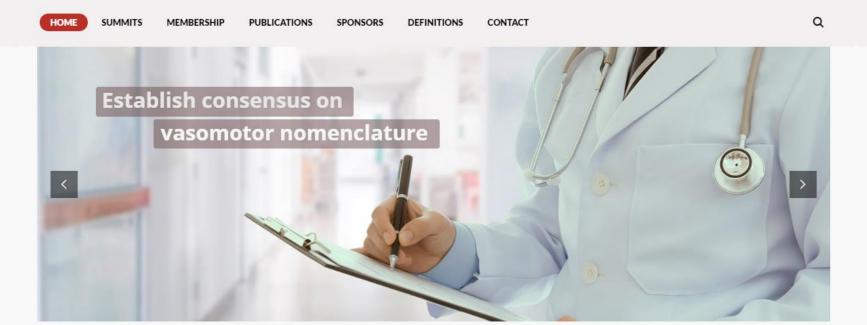
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Much research is needed to investigate and understand the causes, and the management of these disorders. A key step to advance this is to internationally unify the classification of these cardiac conditions. Important steps have already been made by COVADIS who have established the first standardised guidelines for the diagnosis of coronary artery spasm, which is an often underdiagnosed and potentially life threatening heart condition.

Mission Statement

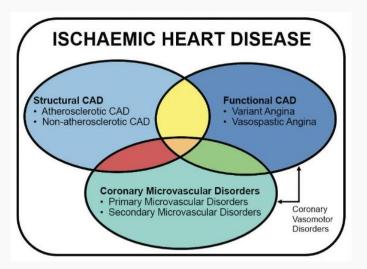
- . Establish consensus on vasomotor nomenclature
- · Raise awareness of coronary vasomotor disorders
- · Promote international collaborative research

Attributes

- · Collegiality and goodwill
- · International representation
- · Knowledge exchange
- · Focused Summits
- · Building a future for vasomotor research

Future Directions

- · Establish nomenclature for coronary microvascular disorders
- · Expand the COVADIS Microvascular Registry
- · Promote international collaborative research
 - o International Registries
 - o International Clinical Trial Network



Landmark Events		
2012	Inugural Steering Committee	Los Angeles
2013	COVADIST	Amsterdam
2014	COVADISII	Barcelona
2015	COVADIS III	London
2016	COVADIS IV	Rome
2016	COVADIS Microvascular Registry	Sendai
2017	Steering Committee Strategic Planning Day	Barcelona

Link opens registry once clicked, as shown on next slide

COVADIS Members Registry

Access Database Link

International Registry Studies

- · Japanese Coronary Spasm Association(JCS...
- Coronary Vasomotor Disorder Study Group Summit(COVADIS)

username	
password	
Logi	n

Ver. 2016/11/09-00

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COVADIS Summit I, September 4th - 5th 2013, Amsterdam



Schedule: Wednesday September 4th, 2013, 15:00 - 21:30		Print	
1. Introduction to Coronary Artery Vasospastic Disorders Summit (10min presentations)		nin presentations)	Th ab
ГІМЕ	ТОРІС	SPEAKER	Pr ta
1500 - 1510	Welcome & Introductions	Noel Bairey Merz, Los Angeles, US	be
510 - <mark>1</mark> 520	Summit Objectives	John Beltrame, Adelaide, AU	
. Basic Concepts of	Vasospastic Angina (15min presentation + 5min Q	&A)	
520 - 1540	What is coronary vasospasm?	Attilio Maseri, Milan, IT	
540 - 1600	Prevalence of vasospastic angina	Hisao Ogawa, Kumamoto JP	
600 - 1620	Prognosis of vasospastic angina	Filippo Crea, Rome, IT	
620 - 1640	Pathophysiological mechanisms	Hiroaki Shimokawa, Sendai, JP	
640 - 1700	BREAK		
. Vasospastic angir	na – a global perspective of assessment & treatmer	nt (10min present + 5min Q&A)	
700 - 1715	US perspective	Richard Conti, Gainesville, US	
715 - 1730	English perspective	Juan Carlos Kaski, London, GB	
1730 - 1 745	Australian perspective	John Beltrame, Adelaide, AU	

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"Additional Documents" can either be placed here in the sidebar, or in the main navigation

1600 - 1615

1615 - 1630

US perspective

English perspective

COVADIS Summit II, September 3th - 4th 2013, Barcelona



Schedule: Wednesday Sep 3, 2014 13:30 - 20:30

1. Introduction to Coronary Vasomotion Disorders International Study Group (COVADIS) Summit

TIME	TOPIC	SPEAKER
1330 - 1340	Welcome & Introductions	Noel Bairey Merz, Los Angeles, US
1340 - 1350	Summit Objectives	John Beltrame, Adelaide, AU

1350 - 1405	Coronary Microvascular Dysfunction	Filippo Crea, Rome, IT
1405 - 1420	Syndrome X – dead or alive in 2014?	Attilio Maseri, Florence, IT
1420 - 1435	Microvascular angina – a new or old term?	Gaetano Lanza, IT
1435 - 1450	Microvascular spasm – one test fits all?	Udo Sechtem, DE
1450 - 1505	Angina, normal angiography and coronary endothelial dysfunction in women – a WISE syndrome?	Noel Bairey Merz, Los Angeles, US
1505 - 1520	Coronary slow flow or Syndrome Y?	John Beltrame, Adelaide, AU
1520 - 1545	Nomenclature of Microvascular Disorders - Panel	Noel Bairey Merz, Los Angeles, US
1545 - 1600	BREAK	

Puja Mehta, Los Angeles, US

Juan Carlos Kaski, London, UK

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Wednesday Sep 2, 2015 13:30 - 20:30

1. Introduction to Coronary Vasomotion Disorders International Study Group (COVADIS) Third Summit

TIME	TOPIC	SPEAKER
1330 - 1335	Welcome & Introductions	Noel Bairey Merz, Los Angeles, US
1335 - 1340	Summit Objectives	John Beltrame, Adelaide, AU
2. Coronary Micro	vascular Dysfunction (CMD) Nomenclature	
1340 - 1355	CMD: Clinical and Pathogenetic Classifications	Paolo G Camici, Milan, IT
1355 - 1410	Primary Microvascular Disorders	Gaetano Lanza, Rome, IT
1410 - 1440	Panel Discussion: CMD Nomenclature	Juan Carlos Kaski, London, UK
3. Coronary Micro	vascular Dysfunction (CMD) Assessment	
1440 - 1455	Non-invasive Methods of CMD Assessment Eva Prescott, Copenha	
1455 - 1510	Invasive Methods of CMD Assessment	Filippo Crea, Rome, IT
1510 - 1540	Panel Discussion: CMD Assessment Flowchart	Udo Sechtem, Stuttgart, DE
1540 - 1600	BREAK	
4. Coronary Micro	vascular Dysfunction Registry	
1600 - 1610	Overview and Demonstration of the CMD Registry	Hiroaki Shimokawa, Sendai, JP

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Thursday Sep 1, 2016 8:00 - 12:00

Wednesday August	Wednesday August 31, 2016 13:30 – 20:30		
1. Introduction to Coronary Vasomotion Disorders International Study Group (COVADIS) Third Summit			
TIME	торіс	SPEAKER	
1330 - 1335	Welcome & Introductions	Noel Bairey Merz, US (confirmed)	
1335 - 1340	Summit Objectives	John Beltrame, AU (confirmed)	
2. Japanese Coron	ary Spasm Association Registry		
1340 - 1410	Overview, JCS Abstract, and Planned Analyses/Publications	Hiroaki Shimokawa, JP (confirmed)	
1410 - 1430	Discussion	Juan Carlos Kaski, UK (confirmed)	
3. Coronary Microv	vascular Dysfunction Registry		
1430 - 1445	Overview and Demonstration of the CMD Registry. Registry Data Quality Review (initial 150-300 subjects)	Peter Ong, DE and Hiroaki Shimokawa, JP (confirmed)	
1445 - 1545	(each Steering Committee member submits 50)	Hiroaki Shimokawa, JP and Steering Committee (confirmed)	
1545 - 1615	BREAK		
1615 - 1700	CMD Registry Funding	Hiroaki Shimokawa, JP and Ornella Rimoldi, IT (confirmed)	
1700 - 1730	CMD Registry Policy and Procedures	Noel Bairey Merz, US (confirmed)	
1730 - 1800	Panel Discussion: CMD Policy & Procedures	Udo Sechtem, DE (confirmed)	
4. Coronary Microv	vascular Dysfunction in Heart Failure		
1800 - 1830	Tako-tsubo Cardiomyopathy and CMD	Abhiram Prasad, UK (confirmed)	
1830 - 1900	HFpEF and CMD	Noel Bairey Merz, US (confirmed)	
1900 - 2030	Dinner		

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Slide notes: Rome group photo to come

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5. Coronary Microvascular Dysfunction Therapies (includes 5 min discussion) 0800 - 0815 Aerobic Exercise Eileen Handberg, US (confirmed) 0815 - 0830 Endothelial Modulating Agents - Statins, L-Arg, ACE-I Juan Carlos Kaski, UK (confirmed) 0830 - 0845 Nitrates, Calcium Channel Blockers, Ivabradine Gaetano Lanza, IT (confirmed)

1745-1800

1915-2000

2000-2145

Wednesday August	30, 2017 13:30 - 22:00	
Introduction to Con	onary Vasomotion Disorders Internatio	onal Study Group (COVADIS) - Fifth Summit
TIME TOPIC SPEAKER		SPEAKER

13:30 – 14:00 Lunch

14:00 – 14:15 Welcome Noel Bairey Merz, US

Introduction & Objectives John Beltrame, AU

1415-1445 COVADIS Mission Discussion Juan Carols Kaski, UK and

Steering Committee

1445-1515 Registry Update Hiroaki Shimokawa, JP

1. COVADIS Policy

Noel Bairey Merz, US.

John Beltrame, AU

2. COVADIS Microvascular Registry Policy and Procedures John Beltrame, AU, and

3. COVADIS Research Proposal Request Hiroaki Shimokawa, JP

2. COVADIS Microvascular Registry Policy and Procedures

3. COVADIS Research Proposal Request Hiroaki Shimokawa, JP

Hiroaki Shimokawa, JP

1615-1645 Publications Peter Ong, DE and Steering Committee

1645-1715 Joint Research Projects Filippo Crea, IT and Steering Committee

Website - Goals-Structure - Web Editor

Working Dinner

1715-1745 Society John Beltrame, AU and Steering Committee

1800-1845 Talk - "MVA- New Directions in Diagnosis" Colin Berry, UK

Talk – "A computable phenotype for an international pragmatic trial in coronary microvascular disease".

Carl Pepine, US

Talk – "MVA- New Direction in Therapy" Paolo Camici, IT and Hiroaki Shimokawa,
JP

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Steering Committee

Noel Bairey Merz (USA), John Beltrame (Australia), Paolo Camici (Italy), Filippo Crea (Italy), Juan Carlos Kaski (UK), Peter Ong (Germany), Udo Sechtem (Germany), Hiro Shimokawa (Japan)

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Summit Attendees

- · Australia: D DiFiore, B Freedman, A Sheikh
- · Canada: M Friedrich
- · Denmark: Eva Prescott
- Italy: R Bugiardini, G Lanza, M Marzilli, A Maseri,
- · Japan: K Kaikita, Y Matsumoto, K Nishimiya, T Nihei, Y Odaka, S Sueda, H Uzuka
- Norway: S Agewall
- · Spain: Javier Escaned, J Figueras
- · South Korea: SH Baek
- · Sweden: P Tornvall
- United States: R Conti, T Gori, E Handberg, A Lerman, P Mehta, C Pepine, H Reynolds, B Sharif, J Tremmel, J Wei
- United Kingdom: S Plein



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Beltrame JF, Crea F, Kaski JC, Ogawa H, Ong P, Sechtem U, Shimokawa H, Bairey Merz CN, Coronary Vasomotion Disorders International Study G: International standardization of diagnostic criteria for vasospastic angina. European Heart Journal 2015.

Beltrame JF, Crea F, Kaski JC, Ogawa H, Ong P, Sechtem U, Shimokawa H, Bairey Merz CN: **The Who, What, Why, When, How and Where of Vasospastic Angina.** *Circulation Journal* 2016.

Crea F, Bairey Merz CN, Beltrame JF, Kaski JC, Ogawa H, Ong P, Sechtem U, Shimokawa H, Camici PG: The parallel tales of microvascular angina and heart failure with preserved ejection fraction: a paradigm shift. European Heart Journal 2016.

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Germany



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Coronary Artery Vasospastic Disorders Summit diagnostic criteria for vasospastic angina^a

Vasospastic angina diagnostic criteria elements:

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- (1) Nitrate-responsive angina-during spontaneous episode, with at least one of the following:
 - (a) Rest angina-especially between night and early morning
 - (b) Marked diurnal variation in exercise tolerance-reduced in morning
 - (c) Hyperventilation can precipitate an episode
 - (d) Calcium channel blockers (but not P-blockers) suppress episodes
- (2) Transient ischaemic ECG charges—during spontaneous episode, including any of the following in at least two contiguous
 - (a) ST segment elevation 20.1 mV
 - (b) ST segment depression mV
 - (c) New negative IJ waves
- (3) Coronary artery spasm—defined as transient total or subtotal coronary artery occlusion (»90% constriction) with angina and ischaemic ECG changes either spontaneously or in response to a provocative stimulus (typically acetylcholine ergot, or hyperventilation)
 - a Definitive vasospastic angina is diagnosed if nitrate-responsive angina is evident during spontaneous episodes and either transient ischaemic ECG changes during the spontaneous episodes or coronary artery spasm criteria are fulfilled. 'Suspected vasospasic angina' is diagnosed if nitrate-responsive angina is evident during spontaneous episodes but transient

ischaemic ECG changes are equivocal or unavailable and coronary artery spasm criteria are equivocal.

Microvascular Angina (MVA)* - Clinical Criteria

- 1. Symptoms of myocardial ischemia
 - a) Effort and/or rest angina
 - b) Angina equivalents (i.e. shortness of breath)
- 2. Absence of obstructive CAD (<50% diameter reduction or FFR by
 - a) Coronary CTA
 - b) Invasive coronary angiography
- 2. Objective evidence of myocardial ischemia
 - a) Ischemic ECG changes during an episode of chest pain
 - b) Stress-induced chest pain and/or ischemic ECG changes in the presence or absence of transient/reversible abnormal myocardial perfusion and/or wall motion abnormality
- 3. Evidence of impaired coronary microvascular function
 - a) Impaired coronary flow reserve (cut-off values depending on methodology use between and 2-5)
 - b) Abnormal coronary microvascular resistance indices (e.g. INR 25)
 - c) Coronary microvascular spasm, defined as reproduction of symptoms, ischemic ECG shins but no epicardial spasm during acetylcholine testing. Coronary slow flow defined as TINI frame count >25

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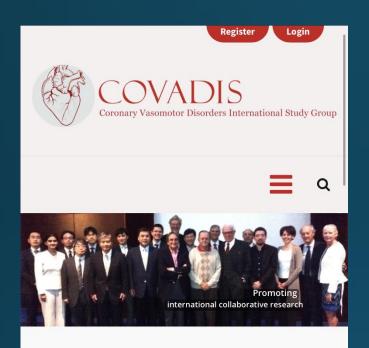
Subject

Your Message

Send

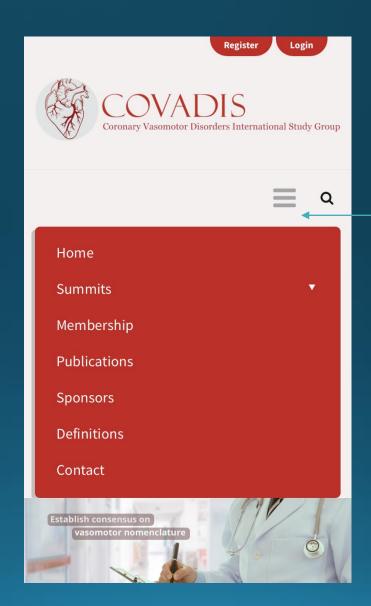
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COVADIS Website Screenshots – Mobile View Examples



The Coronary Vasomotion Disorders International Study Group (COVADIS) was established by an international group of cardiologists in order to develop global standards in the diagnosis of cardiac conditions. The conditions involve the spasm of the large vessels, or the coronary microvessels within the heart. These cardiac conditions are called coronary vasomotor disorders and they are dissimilar in nature.

Much research is needed to investigate and understand the causes, and the management of these



Drop down navigation menu

Website Keywords for Search Engines

- Coronary vasomotor disorders
- Coronary vasomotor disorders study group
- Coronary vasomotor
- Coronary microvascular
- Coronary spasm
- Syndrome X
- Microvascular Angina
- Microvascular slow flow
- Slow flow
- Steering committee names

Website – Future Work

- The option to download Summit slides from the tables
- The ability for members to log in and access members only information, such as, the Summit slides or private documents
 - A unique username and password would be set up for each member
- Set up website tracking automatically keep track on how many visit the site, and from which location in the world