6th International Meeting on Aortic Diseases

New insights into an old problem

CHU Liège, APF

FINAL PROGRAM

September 12-14 2018

Les Comtes de Méan Liège, Belgium

www.chuliege-imaa.be
6th International Meeting on Aortic Diseases
New insights into an old problem
September 12-14, 2018 • Liège • Belgium

We are really honored to welcome you to the sixth edition of the International Meeting on Aortic Diseases that is organized from September 12 to 14, 2018 in Liège, Belgium. Once again, the main goal of the International Meeting on Aortic Diseases (IMAD) is to gather all cardiovascular clinicians and scientists to share their experiences on basic research, genetic aspects of aortic aneurysms, aortic dissections, aortic graft infection and their treatment as well as on the new pathophysiological concepts in bicuspid aortic valve, TAVI indications and surgical treatment of aortic valve diseases and also, to provide information about the latest innovations in spinal cord protection.

You are a vascular or a cardiac surgeon, you are a radiologist, a cardiologist, a geneticist, a biologist, an epidemiologist and/or any scientist, you are welcome in Liège where you’ll have the opportunity to share the experiences of the most renowned experts on aortic diseases. During our “Ask to experts” sessions, you can discuss your challenging cases and also receive answers from them to any question you would have. We are pleased to welcome you in Liège and to share with you another exciting conference on aortic diseases!

Natzi Sakalihasan and Jean-Olivier Defraigne

Under the patronage of:
• University of Liège
• Cardiovascular Surgery Department of CHU of Liège
• Province of Liège
• APF (Aneurysmal Pathology Foundation)
• Faculty of Medicine, ULg

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Amsterdam, Netherlands

Koichi YOSHIMURA
Tsuchiyu, Japan

Clark J. ZEEBREGTS
Groningen, Netherlands

Bulat ZGANSHIN
New Haven, USA
Wednesday September 12

08.30 What’s new in research on bicuspid aortopathy?
09.35 What’s new in management of bicuspid aortopathy?
10.50 Coffee break
Ask to expert I (Nagelmackers room, Level 2)
11.20 TAVI
12.00 Keynote lecture
12.30 Lunch break
13.00 Welcome address
13.10 New insights in the aortic pathology
13.30 Keynote lecture
13.45 Experts panels
14.40 New insights from rodent models of aortic disease
14.15 The revised ascending aorta and aortic arch
15.30 Coffee break
15.50 Coffee break
16.20 Imaging of aortic diseases
16.00 Distal aortic dissection
17.40 Radiation exposure
18.00 Proximal aortic dissection
18.30 End of the sessions
19.10 End of the sessions
20.00 Official dinner

Thursday September 13

08.30 Epidemiology and natural history of AAA
09.50 Honorary lecture
10.05 Coffee break
Ask to expert II (Nagelmackers room, Level 2)
10.35 Medical treatment of AAA
10.50 Coffee break
Ask to expert I (Nagelmackers room, Level 2)
11.20 TAVI
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Friday September 14

08.30 ePosters
09.50 Honorary lecture
10.05 Coffee break
Ask to expert II (Nagelmackers room, Level 2)
10.35 Medical treatment of AAA
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Ask to expert III (Nagelmackers room, Level 2)
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Wednesday September 12

13.00  Welcome address, Jean-Olivier Defraigne, Vincent D’Orio

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<td>Per Eriskon, Florence Pinet</td>
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13.10  Insights from transcriptomic and proteomic analysis of human aneurysmal cells, Florence Pinet

13.18  A mechanistic link between mechanical stress and inflammation in the progression of aortic diseases, Koichi Yoshimura

13.26  Predicting AAA growth and rupture with a skin biopsy, Kakkhee Yeung

13.34  A novel diagnostic score for AAA based on plasma D-dimer and myeloperoxidase, Wolf-Hans Eilenberg

13.42  Functional implications and therapeutic relevance of neutrophil extracellular traps in AAA, Christine Brostjan

13.50  Pathological remodeling of vascular smooth muscle in AAA: a therapeutic target?, Marc Bailey

13.58  Novel biomarkers of AAA derived from genetic and epigenetic studies, Gregory Jones

14.06  Advanced glycation end products measured by skin autofluorescence are increased in patients with AAA, Clark J. Zeebregts

14.14  Precision medicine in thoracic aortic disease, Julie De Backer

14.22  Discussion

<table>
<thead>
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<th>New insights from rodent models of aortic disease</th>
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<td>Marc Bailey, Lars Maegdefessel</td>
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14.40  Critical review of the murine AAA models for 2018, Raphaël Coscas

14.48  3D ultrasound imaging of murine AAA, Marc Bailey

14.56  Anatomical modifications of the PPE model in mice, Albert Busch

15.04  Lessons learnt from the Guinea pig rat transplantation model of AAA, Eric Allaire

15.12  Therapeutic applications of prostaglandins and thromboxane A2 inhibitors in AAA, Audrey Courtois

15.20  Molecular pathways driving aortic disease in mouse models of ACTA2, MYLK, and MYH11 mutations, Dianna Milewicz

15.28  Discussion

15.50  Coffee break

16.00  Imaging of aortic diseases

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<td>Barry Doyle, Joy Roy</td>
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16.20  Quantification of abdominal aortic calcification: inherent measurement errors in current computed tomography imaging, Clark J. Zeebregts

16.28  The discrepancy between the non-automatic and semiautomatic measurement—does it influence outcome? Joy Roy

16.36  Biomechanical wall stress and rupture potential in AAA – data from the MA3RS Trial, Barry Doyle

16.44  Different AAA biomechanical rupture risk assessment approaches. Model fidelity versus diagnostic predictability, Christian Gasser

16.52  Computational biomechanics and morphology of small rAAA – a report from the STAR database, Rebecka Hultgren

17.00  IVUS and CO2 angiogram for aortic disease: strategy to minimize the use of contrast, Igor Sincos

17.08  Discussion

<table>
<thead>
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<td>Anders Wanhainen, Clark J. Zeebregts</td>
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17.40  Strategies for optimal occupational radiation protection during vascular intervention, Bijan Modarai

17.50  Effect of MRI on human lymphocyte DNA: myth or reality? Alain Nchimi

18.00  Radiation protection in the endosuite and the importance of correct use of shields, Anders Wanhainen

18.10  Short communication: back to basics, increasing the use of posteroanterior chest radiograph to aid assessment of chest pain for aortic dissection, Sacintha Perera

18.15  Discussion

18.30  End of the sessions

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* BELGIAN ATTENDEES – Radiologists, cardiologists and vascular surgeons

Thanks to our partnership with the AFCN (Agence Fédérale de Contrôle Nucléaire), the session on Radiation exposure on Wednesday September 12 at 17.40 can be valued as 1 hour of continuing education.
Thursday September 13

I What’s new in research on bicuspid aortopathy?
Simon Body, Bart Loeys
08.30 The complex genetic architecture of bicuspid aortic valve related aortopathy, Bart Loeys
08.38 Protein-altering and regulatory genetic variants near GATA4 implicated in BAV, Simon Body
08.46 New insights in the genetics of aortopathy and BAV in Turner syndrome, Aline Verstraeten
08.54 The current understanding about aortic wall disease mechanisms in BAV, Nimrat Grewal
09.02 Circulating microRNAs in bicuspid aortopathy, Evaldas Girdauskas
09.10 TGF-b/ENG ratio in bicuspid aortopathy, Alessandro Della Corte
09.18 Discussion

I What’s new in management of bicuspid aortopathy?
Alessandro Della Corte, Hector Michelena
09.35 Fluid dynamics simulations to understand BAV aortopathy mechanisms and risks, Luca Koechlin
09.43 Searching for early biomechanically-driven indexes of aortic remodeling: where are we at? Emiliano Votta
09.51 Advanced imaging biomarkers in bicuspid aortic valve disease surveillance, Malenka Bissell
09.59 Gender-related differences in bicuspid aortopathy history and outcomes, Hector Michelena
10.07 How does the current knowledge on BAV aortopathy impact valve repair? Alessandro Della Corte
10.15 Phenotype-guided surgical treatment of bicuspid aortopathy, Ruggero De Paulis
10.23 Discussion
10.50 Coffee break
Ask to expert I (Nagelmackers room – Level 2)
Place of the laparoscopy in the management of the Type 2 endoleaks, Eric Allaire, Franco Grego, Jean-Paul Lavigne
Short communication: unusual complication of IMA embolisation for type 2 endoleaks, Arnaud Kerzmann

I TAVI
Patrizio Lancellotti, Thomas Modine
11.20 Overview on ongoing randomized clinical trials in TAVI, Patrizio Lancellotti
11.28 Is TAVR already arguable in low and moderate risk patients? Thomas Modine
11.36 Aortic regurgitation after TAVI - Can we do better? Joëlle Kefer
11.44 TAVI endocarditis, Bernard Jung
11.52 Experience from CHU Liège, Belgium, Christophe Martinez, Marc Radermecker
12.00 Percival (sutureless valve) indications at CHU Liège; a booster of the mini invasive aortic valve replacement program, Marc Radermecker
Keynote lecture
12.08 Aortic valve reconstruction using the Ozaki technique, when and in whom? Cesare Quarto
12.18 Discussion
12.30 Lunch break

I Keynote lecture
Rodolphe Durieux
13.30 Open reoperations for complications of endovascular aortic procedures: top of the iceberg? Nicholas Kouchoukos

I Experts panels
What is the aortic size threshold for TAA intervention?
Natzi Sakalihasan
Panelists: John Elefteriades, Nicholas Kouchoukos, Patrizio Lancellotti, Dianna Milewicz, Christoph Nienaber
13.45 Should the criterion for surgical intervention for thoracic aortic aneurysm be moved “leftward” (earlier)? John Elefteriades
13.55 Lesson learned from local experiences in Liège with type A dissection, Natzi Sakalihasan
14.00 Discussion

I The revised ascending aorta and aortic arch
Jean-Olivier Defraigne, John Elefteriades, Nicholas Kouchoukos
14.15 Genetic basis of thoracic aortic disease and impact of altered gene on patient management, Dianna Milewicz
14.23 The z-score-misleading clinical science? John Elefteriades
14.31 Arch variants, Tilo Kölbel
14.39 Surgery of the aortic arch nowadays, Nicholas Kouchoukos
14.47 Arch hybrid procedures are effective and durable for arch aneurysms, Colin Bicknell
14.55 Endo-treatment of arch and ascending aorta, Tilo Kölbel
15.03 Discussion
15.30 Coffee break
Thursday September 13

**Distal aortic dissection**
Bijan Modarai, Christoph Nienaber
16.00 The conundrum about complicated and uncomplicated type B dissection - new concepts! Christoph Nienaber
16.08 When is a dissection to be called chronic and why? Firas Mussa
16.16 What is the role of tissue inflammation in dissection and how do we diagnose it? Natzi Sakalihasan
16.24 How can imaging tell us about the plasticity of a dissection? Biomechanical modelling and PET/CT in type B aortic dissection: development of the Perth-Liege risk score for TBAD, Barry Doyle
16.32 Temporal and morphological patterns predict outcome of endovascular repair in acute complicated type B aortic dissection, Rebecka Hultgren
16.40 Critical aortic dissections: benefit of surgical creativity out of any guidelines, Parla Astarci
16.48 Discussion

**Distal aortic dissection**
Dianna Milewicz, Toru Suzuki
17.10 The role of biomarkers in the setting of acute aortic syndrome? Toru Suzuki
17.18 The integration of genetic testing in the work-up of a patient with aortic dissection, Bulat Ziganshin
17.26 Is pregnancy a risk for acute aortic dissection? Anselm Uebing
17.34 How to manage acute aortic dissection in pregnancy? John Elefteriades
17.42 Discussion

**Proximal aortic dissection**
Colin Bicknell, John Elefteriades
18.00 The role of false lumen intervention to promote remodeling via induced thrombosis, Christoph Nienaber
18.08 How much is arch reconstruction needed in type A aortic dissection? Ulrich Rosendahl
18.16 Inching toward an endovascular solution for proximal dissection - will an Endo-Bentall see the light of day? Christoph Nienaber
18.24 Open surgery for aortic dissections, Nimesh Desai
18.32 Abdominal aortic open fenestration and other open surgical tricks: usefulness in type B dissections, Fabien Koskas
18.40 Optimised management of type A aortic dissection with visceral malperfusion - concept to reconsider, Mathias Thielmann
18.48 Short communication: the images behind intramural haematoma, Andreas Mitsis
18.53 Discussion
19.15 End of the sessions
20.00 Official dinner
Friday September 14

I Epidemiology and natural history of AAA
Hans-Henning Eckstein, Rebecka Hultgren

08.30 When is the prevalence too low to motivate continued screening? Sverker Svensjö
08.38 The New Zealand AAA-specific risk scoring tool, Gregory Jones
08.46 Aneurysm rupture is not simply a mechanical event: how so and what are the implications? Rao Vallabhaneni
08.54 Female sex is not an independent risk factor for higher periprocedural mortality rates of AAAs – the nationwide Swedish DRG microdata from 2000-2016 on >50,000 cases, including socioeconomical aspects, Rebecka Hultgren
09.02 Why do women have higher operative mortality than men for aortic aneurysm repair? Janet Powell
09.10 Do all 25-29 mm ectatic aortas progress to AAAs actually needing repair? Sverker Svensjö
09.18 Short communication: blood glucose, diabetes and abdominal aortic aneurysm among 2 millions screened individuals, Dylan Morris
09.22 Short communication: should we screen women for abdominal aortic aneurysm? Pinar Ulug
09.26 Short communication: the TAGA study: a new family study for the genetic analysis of aortic abdominal aneurysm, Maria Sabater-Lleal
09.30 Discussion
09.45 Frank Lederle lectures, Ronald Dalman

10.05 Coffee break
Ask to expert II (Nagelmackers room – Level 2)

How can we avoid spinal cord ischemia during TEVAR/EVAR for Aortic aneurysms? John Elefteriades
Case presentation: paraplesia, a rare complication of EVAR for AAA, Vincent Tchana-Sato

I Medical treatment of AAA
Ronald Dalman, Anders Wanhainen

10.35 AAA: is there a role for the prevention and therapy using antioxidants? Joël Pincemail
10.45 Could metformin be a drug effective in limiting AAA growth and requirement for surgery: data from a large group of cohorts, Jonathan Golledge
10.55 Ticagrelor and the inhibition of growth in small AAAs – results from a RCT, Anders Wanhainen
11.05 The role of fish oil in the natural history of AAA, Jes Lindholt
11.15 Hormone replacement therapy and AAA - A HUNT study based on 20,000 women, Rebecka Hultgren
11.25 Role of resveratrol and the bone protein sclerostin in protection from AAA, Jonathan Golledge
11.35 Cipro and the aorta - Fluoroquinolone attack? Bulat Ziganshin

11.45 What diabetes can teach us about AAA? Ronald Dalman
11.55 Short communication: final findings of the femorofibrate in the management of abdominal aortic aneurysm (FAME)-2 trial, Joseph Moxon
12.00 Discussion
12.30 Lunch break

I EVAR & TEVAR
Colin Bicknell, Kakkhee Yeung

13.45 EVAR or open: what is the best option for patients and society? Jan Lindeman
13.53 The role of open surgery for AAA in the endovascular era, Franco Grego
14.01 The effect of clinical, psychosocial and socio-demographic variables on mental and physical functioning after vascular surgery, Colin Bicknell
14.09 The UK Complex Aneurysm study: an overview, Rao Vallabhaneni
14.17 Endoleaks in EVAR, risk factors and prevention, Eric Allaire
14.25 Wide proximal aortic neck in the outcome of EVAR, Athanasios Giannoukas
14.33 Acute kidney injury after endovascular surgery: results from a pilot randomized controlled trial and a cohort study, Athanasios Saratzis
14.41 Importance of changes in thoracic and abdominal aortic stiffness following stent graft implantation, Christos Liapis
14.49 Prevention of stent graft migration after TEVAR: mathematical model, Milos Sladojevic
14.57 Results of endurant study (follow-up and comparison with Ace study), Jean-Pierre Becquemin
15.05 What do we know about AD risk factors for later problems? Jan Brunkwall
15.13 Discussion

15.30 Coffee break
Ask to expert III (Nagelmackers room – Level 2)

Spinal cooling catheter: new concept in paraplesia prevention, John Elefteriades

I Associations in aortic aneurysmal disease
Thomas Bilfinger, Nicos Labropoulos

16.05 Arterial aneurysms associated with the aorta, Nicos Labropoulos
16.13 Is AAA a risk factor for neoplasia? Natzi Sakalihasan
16.21 What is the association between AAA, hernia and simple renal cyst? Apostolos Tassiopoulos
16.29 Incidence of AAA is higher in the patients with COPD and smoking - why? Thomas Bilfinger
16.45 Cardiovascular risk management in patients with small AAA, Matthew Bown
16.53 Discussion
Management of aortic graft infections
Hans-Henning Eckstein, Rebecka Hultgren

Endovascular repair is effective in emergency but definitive excisional graft removal is the aim for all infected aortic grafts and endografts, Colin Bicknell

The place of allografts in the management of aortic graft infections, Evelyne Boesmans

Treatment of vascular infection with arterial homografts: 27 years of experience at European Homograft Bank (EHB) in Brussels, Ramadan Jashari

How to treat an infected aortic endograft by in-situ reconstruction with pericard tube grafts? Hans-Henning Eckstein

Discussion

Awards ceremony and adjournment
17.50 Outcomes of aortic surgery in a tertiary care hospital: our experience, Java Amit
18.00 Treatment of blunt aortic isthmus rupture: 16-year single center experience, Pierre-Arnaud Wuidar

E-POSTERS TO BE PRESENTED IN THE MAIN SESSION

<table>
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<tr>
<th>WEDNESDAY, SEPTEMBER 12</th>
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<tr>
<td>18.10 Back to basics – Increasing the use of posteroanterior chest radiograph to aid assessment of chest pain for aortic dissection, Sachintha Perera</td>
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<td>18.48 The images behind intramural haematoma, Andreas Mitsis</td>
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<td>09.18 Blood glucose, diabetes and abdominal aortic aneurysm among 2 million screened individuals, Dylan Morris</td>
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<td>09.22 Should we screen women for abdominal aortic aneurysm? Ulug Pinar</td>
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<td>11.55 Final findings of the Fenofibrate in the management of AbdoMinal aortic aneurysm (FAME)-2 trial, Joseph Moxon</td>
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**General information**

**MEETING VENUE**
Les Comtes de Méan
Mont Saint Martin 9-11
Liège, Belgium
www.lescomtedemean.be

**HOTELS**
1. Les Comtes de Méan**** (congress venue)
   Mont Saint Martin 9-11
   www.lescomtedemean.be

2. Pentahotel Liège**** (5 min. walk)
   100, bd de la Sauvenière
   www.pentahotels.com

**REGISTRATION & INFORMATION DESK**
Wednesday .................. 12.00 - 19.00
Thursday .................... 08.00 - 19.30
Friday ....................... 08.00 - 18.30

**EXHIBITION HOURS**
Wednesday ................. 12.00 - 19.00
Thursday ................. 08.00 - 19.30
Friday ................. 08.00 - 16.30

**SOCIAL EVENT**
IMAD Official dinner
Palais Provincial
Thursday, September 13, 20.00
Registration is mandatory.
Participation fee: 55€ per person.
Seated dinner.

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l.smits@chu.ulg.ac.be

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**EXHIBITORS**

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Other

IMAD 2018 is compliant with the Eucomed Code of Ethical Business Practice

IMAD 2018, Liège, Belgium, 12/09/2018-14/09/2018 has been granted 19 European CME credits (ECMEC®s) by the European Accreditation Council for Continuing Medical Education

8 EBCP recertification points

Mdeon Visa number: 18/V2/10562/005967

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