

FINAL PROGRAM

6th International Meeting on Aortic Diseases

New insights into an old problem

CHU Liège, APF



September 12-14

2018

Les Comtes de Méan
Liège, Belgium

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19 CREDITS

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

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Co-Director:

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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



Wednesday September 12		Thursday September 13	
		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	16.00	Distal aortic dissection
16.20	Imaging of aortic diseases		
17.40	Radiation exposure		
18.30	End of the sessions	18.00	Proximal aortic dissection
		19.10	End of the sessions
		20.00	Official dinner

Friday September 14	
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
12.15	Keynote lecture
12.45	Lunch break
13.45	EVAR & TEVAR
15.35	Coffee break Ask to expert III (Nagelmackers room, Level 2)
16.05	Associations in aortic aneurysmal disease
17.15	Management of aortic graft infections
18.15	Awards ceremony and adjournment

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13.00 **Welcome address,** Jean-Olivier Defraigne, Vincent D'Orio

| New insights in the aortic pathology

Per Eriskon, Florence Pinet

- 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

| New insights from rodent models of aortic disease

Marc Bailey, Lars Maegdefessel

- 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**

| Imaging of aortic diseases

Barry Doyle, Joy Roy

- 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

| Radiation exposure*

Anders Wanhainen, Clark J. Zeebregts

- 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**

** 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



| 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 Circulating microRNAs in bicuspid aortopathy, Evaldas Girdauskas
- 09.02 TGF- β /ENG ratio in bicuspid aortopathy, Alessandro Della Corte
- 09.10 Discussion

| 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

| 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 Lung
- 11.52 Experience from CHU Liège, Belgium, Christophe Martinez, Marc Radermecker
- 12.00 Perceval (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

| Keynote lecture

Rodolphe Durieux

- 13.30 Open reoperations for complications of endovascular aortic procedures: top of the iceberg? Nicholas Kouchoukos

| 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

| 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

I 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 Sakalihan**
- 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 How to manage acute aortic dissection in pregnancy? **John Eleftheriades**
- 17.34 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
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Official dinner

Thursday September 13, 20.00

Palais Provincial

Registration is mandatory. Seated dinner.

Participation fee: 55 € per person.



Notes



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: paraplegia, 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 femofibrate 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

- 13.53 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 paraplegia 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 Sakalihan*
- 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
- 16.37 Are abdominal aortic aneurysms different in patients with and without concurrent athero-occlusive disease? *Jonathan Golledge*
- 16.45 Cardiovascular risk management in patients with small AAA, *Matthew Bown*
- 16.53 Discussion

I Management of aortic graft infections

Friday September 14

Hans-Henning Eckstein, Rebecka Hultgren

- 17.15 Endovascular repair is effective in emergency but definitive excisional graft removal is the aim for all infected aortic grafts and endografts, **Colin Bicknell**
- 17.23 The place of allografts in the management of aortic graft infections, **Evelyne Boesmans**
- 17.31 Treatment of vascular infection with arterial homografts: 27 years of experience at European Homograft Bank (EHB) in Brussels, **Ramadan Jashari**
- 17.39 How to treat an infected aortic endograft by in-situ reconstruction with pericard tube grafts? **Hans-Henning Eckstein**
- 17.47 Discussion
- 18.15 **Awards ceremony and adjournment**

ePosters

THURSDAY, SEPTEMBER 13 - Nagelmackers room - Level 2

I 11.20 - 12.30 **FAMILIAL AND GENETIC ASPECTS OF AORTIC DISEASES**

JURY: **Bart Loeys, Dianna Milewicz**

- 11.20 SMAD2 and SMAD6: two novel genetic players in aortic aneurysm and dissection, **Melanie Perik**
- 11.28 Study of the contribution of copy number variation to the pathogenesis of bicuspid aortic valve associated aortopathy, **Ilse Luyckx**
- 11.36 New insights into fibrillinopathies and pitfalls of variant filtering in the current genomics era, **Janine Meienberg**
- 11.44 Candidate drug testing in murine models of aortic diseases using biomechanical integrity as novel read-out, **Nicolo Dubacher**
- 11.52 MicroRNA-574-5p: a circulating marker of thoracic aortic aneurysm, **Adeline Boileau**
- 12.00 Gene expression in patients with abdominal aortic aneurysm - more than immunological mechanisms involved, **Miroslav Prucha**
- 12.08 Aortic microcalcification is associated with aortopathy in Marfan Syndrome; potential marker for imaging, **Vivian de Waard**

I 16.00 - 18.00 **NEW INSIGHTS INTO AORTIC PATHOLOGY AND MANAGEMENT**

JURY: **Marc Bailey, Nicos Labropoulos, Lars Maegdefessel**

- 16.00 Plasminogen activator inhibitor type 1 promote experimental aortic dissection in mice, **Yasunori Iida**
- 16.10 Abdominal aortic aneurysm and IgG4-associated disease, **Miroslav Prucha**
- 16.20 Patients with abdominal aortic aneurysm demonstrate higher levels of non-cholesterol sterol markers of endogenous cholesterol synthesis, **Miroslav Prucha**
- 16.30 Modeling tissue re-modeling during the pathogenesis of abdominal aortic aneurysms, **Tina Cohnert**
- 16.40 Leukotriene B4 plasma levels are associated to AAA prevalence and progression, **Mónica M. Torres-Fonseca**
- 16.50 Investigating the influence of aortic composition on predisposition of aneurysmal disease, **Lakmini Liyanage**
- 17.00 Endovascular treatment of abdominal aortic aneurysm: impact of diabetes on endoleaks and reintervention, **Charlotte Praca**
- 17.10 Wall-layer-specific transcriptome and finite element analysis-derived rupture risk in abdominal aortic aneurysms, **Moritz Lindquist Liljeqvist**
- 17.20 The new abdominal aortic stent graft- personal experience with ovation and aorfix stent graft, **Stevó Duvnjak**
- 17.30 Hybrid approach for aortic arch diseases: single center experience, **Vitalii Kravchenko**
- 17.40 Aneurysms - as complication after coarctation of the aorta correction. Frequency, methods and result of treatment, **Yurii Tarasenko**
- 17.50 Treatment of blunt aortic isthmus rupture : 16-year single center experience, **Pierre-Arnaud Wuidar**



18.10 Back to basics – Increasing the use of posteroanterior chestradiograph to aid assessment of chest pain for aortic dissection, **Sachintha Perera**

18.48 The images behind intramural haematoma, Christoph Nienaber

- 09.18 Blood glucose, diabetes and abdominal aortic aneurysm among 2 million screened individuals, **Dylan Morris**
- 09.22 Should we screen women for abdominal aortic aneurysm? **Ulug Pinar**
- 09.26 The TAGA study: a new family study for the genetic analysis of aortic abdominal aneurysm, **Maria Sabater-Lleal**
- 11.55 Final findings of the Fenofibrate in the management of AbdoMinal aortic aneurysm (FAME)-2 trial, **Joseph Moxon**

General information

MEETING VENUE

Les Comtes de Méan

Mont Saint Martin 9-11

Liège, Belgium

www.lescomtesdemean.be



HOTELS

1. Les Comtes de Méan***** (congress venue)

Mont Saint Martin 9-11

www.lescomtesdemean.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

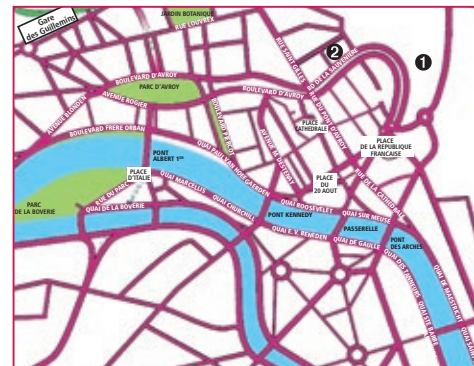
Palais Provincial

Thursday, September 13, 20.00

Registration is mandatory.

Participation fee: 55€ per person.

Seated dinner.



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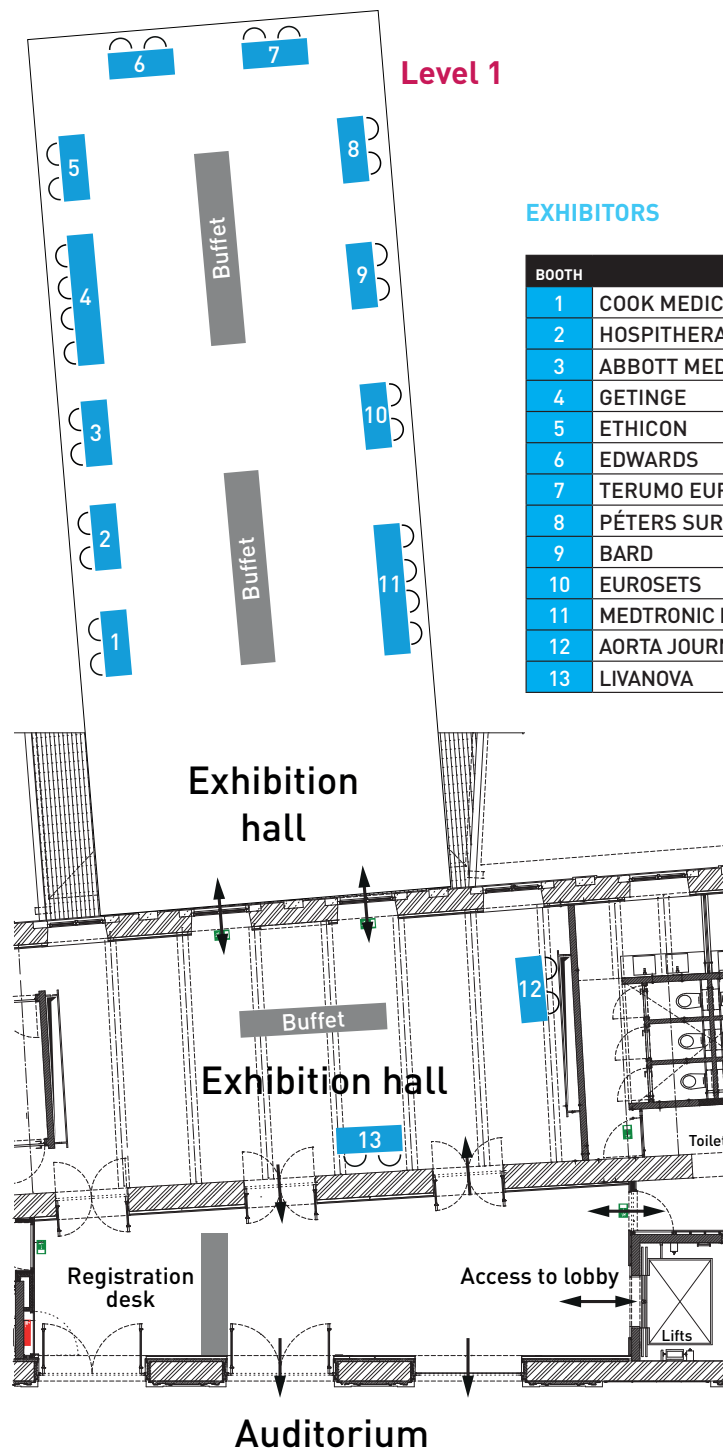
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IMAD 2018 is compliant with the Eucomed Code of Ethical Business Practice



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 EBCCP recertification points



Mdeon Visa number: 18/V2/10562/005967

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