

Artificial Intelligence

in Cardiovascular Disease

21
LONDON

Event endorsed by



**Artificial Intelligence in
Cardiovascular Disease –
What every clinician needs
to know**

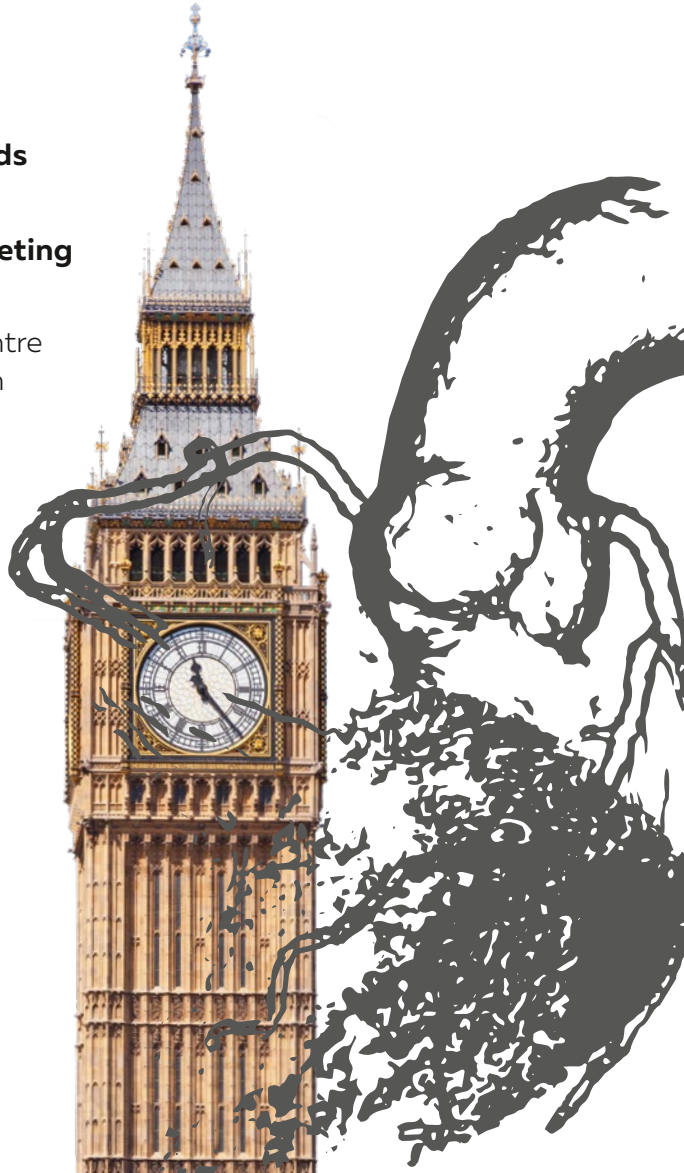
**A Cardiology Update Meeting
May 26th – 27th, 2021**

Cavendish Conference Centre
22 Duchess Mews, London

Course Directors

Alan Maisel
Alexander Lyon
Thomas F. Lüscher

Under the auspices of



Dear Colleagues

Artificial intelligence and digital health are rapidly evolving disciplines and will be transforming healthcare. Applications of AI in cardiovascular medicine are machine learning techniques for diagnostic procedures including imaging modalities and biomarkers and predictive analytics for personalised therapies and improved outcomes. Fields of application include genetics, cardiomyopathy, valve disease, GUCH, cardiac pathology and many more.

We have brought together key opinion leaders and recognised experts in the field of AI to provide an insight on their experience, new applications and the impact of AI on future clinical decision making.

The target audience are cardiologists, oncologists, cardiac surgeons, internists, endocrinologists as well as imaging and device specialists from clinics and industry.

We would be happy to welcome you on May 26th–27th, 2021 at the Cavendish Conference Centre in London and look forward to seeing you.

With best regards. Yours sincerely,



Alain Maisel



Alexander Lyon



Thomas F. Lüscher

Wednesday, May 26th, 2021

17:30 – 18:00	REGISTRATION	
18:00 – 20:00	OPENING SESSION Artificial Intelligence/Big Data – Background Chairs: A. Maisel and A. Lyon	
18:00 – 18:15	Welcome and introduction	T.F. Lüscher
18:15 – 18:45	Role of digital technologies in the Covid-19 crisis	P. Friedman
18:45 – 19:15	Biomarkers and machine learning in cardiology – a marriage long overdue	A. Maisel
19:15 – 20:00	Panel Discussion: AI in cardiovascular medicine – strengths and pitfalls Panellists: P. Friedman, T.F. Lüscher, A. Lyon, A. Maisel, A. Ziegler (Roche), A. Beshiri (Abbott)	

Thursday, May 27th, 2021

07:30 – 08:00	REGISTRATION & COFFEE	
08:00 – 10:15	SESSION 1 Applying AI to the Specific Subspecialties in Cardiology Chairs: T.F. Lüscher and C. Antoniades	
08:00 – 08:30	Multimarker approach to predict risk and outcome	L. Wallentin
08:30 – 09:00	Finding the patient with transthyretin cardiomyopathy	A. Wechalekar
09:00 – 09:30	Cardio- Oncology- an example where AI can improve patient care	A. Lyon / T. Ramalingam
09:30 – 10:00	Using machine learning to separate type one and two MI	A. Beshiri
10:00 – 10:15	Panel discussion	
10:15 – 10:45	COFFEE	
10:45 – 12:30	SESSION 2 Imaging, Genetics Chairs: A. Lyon and M. Gatzoulis	
10:45 – 11:05	Machine learning and imaging in cardiology	P. Leeson
11:05 – 11:25	AI and coronary CT angiography	C. Antoniades
11:25 – 11:55	AI for valve disease- who what when for TAVI, Mitral clip, etc.	J.J. Bax
11:55 – 12:15	AI in genetics	J. Erdmann
12:15 – 12:30	Panel discussion	
12:30 – 13:30	LUNCH	
13:30 – 15:00	SESSION 3 Clinical Cardiology Chairs: J.J. Bax and M. Cowie	
13:30 – 13:50	Big data in GUCH	M. Gatzoulis
13:50 – 14:10	AI in cardiac pathology	J.L. Robertus
14:10 – 14:30	AI to crack secondary prevention	F. Asselbergs

Programme Overview/Faculty

14:30 – 14:50	A shortness of breath algorithm in the ED	A. Maisel
14:50 – 15:10	Machine learning tool for risk prediction in acute coronary syndrome	F. D'Ascenzo
15:10 – 15:30	Panel discussion	
15:30 – 16:00 COFFEE		
SESSION 4 The Future of Artificial Intelligence in Medicine		
Chairs: A. Maisel, A. Lyon, T.F. Lüscher		
16:00 – 16:20	AI in cardiology: The future is now	M. Cowie
16:20 – 16:40	Digital tools for detecting cardiovascular diseases and monitoring patients: Knowns and unknowns	P. Kirchhof
16:40 – 17:00	The potential of high sensitivity troponin testing at the point of care with AI	P. Lopez-Ayala
17:00 – 17:20	AI in medicine – where are we going?	R. Illing
17:20 – 17:30	Panel discussion	
17:30 – 17:45 CLOSING REMARKS		
17:45 COCKTAIL RECEPTION		

Teaching Faculty

Charalampos Antoniades University of Oxford Oxford, UK	Michael A. Gatzoulis Royal Brompton & Harefield Hospitals London, UK	Alan S. Maisel VA San Diego Healthcare Systems San Diego, US
Folkert Asselbergs UMC Utrecht Utrecht, NL	Rowland Illing Director & Chief Medical Officer International Public Sector Health Amazon Web Services Washington, US	Tharshini Ramalingam Royal Brompton & Harefield Hospitals London, UK
Jeroen J. Bax Leiden University Medical Center Leiden, NL	Paulus Kirchhof UKE Hamburg Hamburg, Germany	Jan Lukas Robertus Royal Brompton & Harefield Hospitals London, UK
Agim Beshiri Senior Medical Director, Abbott Diagnostics Abbott Park, US	Paul Leeson University of Oxford Oxford, UK	Lars Wallentin Uppsala University Hospital Uppsala, S
Martin Cowie Imperial College London London, UK	Pedro Lopez-Ayala University Hospital Basel and Cardiovascular Research Institute Basel (CRIB), Basel Switzerland	Ashutosh Wechalekar Royal Free Hospital London, UK
Fabrizio D'Ascenzo University of Turin Turin, Italy	Thomas F. Lüscher Royal Brompton & Harefield Hospitals London, UK	André Ziegler Global Clinical Leader Cardiology Roche Diagnostics International Ltd. Rotkreuz, Switzerland
Jeanette Erdmann University of Lübeck Lübeck, Germany	Alex Lyon Royal Brompton & Harefield Hospitals London, UK	
Paul A. Friedman Mayo Clinic Rochester, US		

General Information

Registration

Registrations can be made exclusively online on our website:
zhh.ch/ai

Early registration fee (until March 31, 2021)		Virtual
Regular fee	GBP 160	GBP 105
ESC associated members (please provide ESC-ID number)	GBP 140	GBP 95
Residents, students (age < 35)	GBP 80	GBP 50
Registration fee from April 1, 2021		
Regular fee	GBP 200	GBP 115
ESC associated members (please provide ESC-ID number)	GBP 180	GBP 105
Residents, students (age < 35)	GBP 100	GBP 50

Registration will be confirmed upon receipt of payment.

Modification & Cancellation

All modifications or cancellations must be notified in writing (by mail, fax or e-mail to the Zurich Heart House. For each modification requested by the participant, GBP 15 will be charged for administrative costs. In case of cancellation up to 30th of April 2021, deposits will be refunded less 35% for administrative costs. After this date, no refund will be possible.

Venue

Cavendish Conference Centre
22 Duchess Mews, LONDON, W1G 9DT
www.cavendishvenues.co.uk/

Accreditation

Artificial Intelligence in Cardiovascular Disease 2021 has been accredited by the: European Accreditation Council for Continuing Medical Education (EACCME®) with 8 European CME credits (ECMEC®s).

Federation of the Royal College of Physicians of the United Kingdom (CPD credits) with 9 category 1 (external) CPD credits.

Organisation

Zurich Heart House, Foundation for Cardiovascular Research

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