APCASH 2014

LIVE CASES



5th Asia Pacific Congenital and Structural Heart Intervention Symposium 2014

10 - 12 October 2014

Hong Kong Convention & Exhibition Centre

Organizer:

Hong Kong Society of Congenital & Structural Heart Disease (HKCASH)

Supporting Organizations:

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GENERAL INFORMATION

Conference Information

Venue

Level 4, S420 series, Hong Kong Convention & Exhibition Centre (HKCEC)
1 Expo Drive, Wanchai, Hong Kong

Organizer

Hong Kong Society of Congenital & Structural Heart Disease (HKCASH)

Conference Secretariat

LLink Limited
Room 2302, 23/F, Kwai Hung Holdings Centre
89 King's Road, North Point, Hong Kong
Tel: +852 2566 2889 | Fax: +852 2570 4773
Email: apcash@llink.com.hk

Official Language

The official language of the Conference is English. No simultaneous interpretation will be provided.

Registration

Registration counter is located at 4/F, near the entrance of S420 series. Please present the official receipt at the registration counter to collect congress kit.

Date	Opening Hours
Friday 10 Oct	08:00 - 18:00
Saturday 11 Oct	07:15 - 18:00
Sunday 12 Oct	08:15 - 17:30

For on-site registration, payment can be made in cash (HK Dollars only) or local HK cheque. Official receipt will be issued and mailed to respective delegate after the Conference.

Badge

Color-coded badges will be used during the Conference for identification purpose and admission to the Opening Ceremony, scientific sessions, exhibition, lunches and coffee breaks.

Certificate of Attendance

Certificate of Attendance will be issued to each participant and available for collection at the registration counter during the Conference.

For on-site registrants, Certificates of Attendance will be available for collection by end of each conference day.

Exhibition

See page 81-86 for details about exhibitors.

Faculty Lounge and Slide Preview Room

Meeting Room S425

All speakers are requested to upload their presentation files at least 3 hours before presentation.

Date	Opening Hours
Friday 10 Oct	08:00 - 18:00
Saturday 11 Oct	07:15 - 18:00
Sunday 12 Oct	08:15 - 17:30

Photo Taking, Audio Recording & Video Shooting

No photo taking, audio recording and video shooting are allowed in the meeting rooms at the Conference unless permission is granted.

Beeping Devices

Please switch off mobile phones and beeping devices (or switch to vibrant mode) during the lectures and presentations.

Coffee & Tea

Coffee and tea will be available for the registered participants during the breaks. Badges will be checked.

Lunch

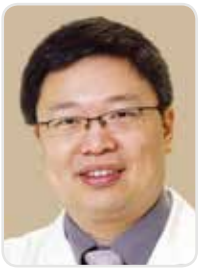
Lunch box will be served at the beginning of Lunch Symposium.

Date	Lunch Hours
Friday 10 Oct	13:00 - 14:00
Saturday 11 Oct	12:30 - 13:30
Sunday 12 Oct	12:30 - 13:30

Opening Ceremony

Meeting Room S421. *See page 43 for details.*

Welcome Message from APCASH 2014 Program Director



With great pleasure and honour, I welcome you to the fifth Asia Pacific Congenital & Structural Heart Intervention Symposium 2014 (APCASH). I am delighted to see outstanding colleagues from our community and eminent friends from abroad gathered here to share their valuable insights and expertise.

APCASH is a fast growing meeting dedicated to congenital and structural interventions in the Asia Pacific Region. This year, we are conducting a 3-day programme focusing on interventional therapeutics for both pediatric and structural heart diseases. Participants can take this opportunity to explore the latest advances in the field of cardiology.

The main theme from this year's conference is Valve for Life. With live case transmissions from four world-renowned hospitals and a series of stimulating lectures, debates, and discussions, this conference promises professionals and faculty a lively and rewarding experience.

We begin on the first day with live case demonstrations from Shanghai Children's Medical Centre (SCMC). Prof. Hijazi and Prof. Wei Gao will show a few congenital heart cases and Dr. Yun-ching Fu will join them at SCMC for discussion. Prof. Qi-ling Cao, Dr. Worakan Promphan, Dr. Xiang-bin Pan and other professional operators will follow to demonstrate operative skills in Fuwai Hospital. The Queen Elizabeth Hospital will carry the local flag on the second day, and the Opening Ceremony featuring a traditional lion dance will take place in the afternoon. This top-rated session of the event will be followed by the "APCASH Distinguished Lecture 2014" by Dr. Saibal Kar. Dr. Nguyen Lan Hieu and his team from Hanoi Medical University Hospital will bring the conference to a close with live demonstrations on Sunday.

Additional highlights include lectures on Interventional Cardiovascular Imaging, Percutaneous Left Atrial Appendage Occlusion, Transcatheter Therapies for Valvular Heart Diseases and New Catheter-based Treatment for Congenital Heart Diseases.

I would like to express my deepest gratitude to our twelve supporting organizations for their unfailing support for this year's meeting again. Their contributions to the joint sessions and the premier showcase have been invaluable.

My heartfelt thanks also go to our wonderful sponsors for their continual and generous support, without which this conference would not have been possible.

I hope you will all enjoy our programme and find it professionally satisfying.

Professor Yat-yin Lam
Program Director, 5th Asia Pacific Congenital & Structural Heart Intervention Symposium 2014 (APCASH 2014)
President, Hong Kong Society of Congenital & Structural Heart Disease (HKCASH)

Congratulatory Message from Guest-of-Honor

As the president of the PICS Foundation and the Chief Medical Officer of Sidra Medical & Research Center, I would like to take this opportunity to congratulate you all for this wonderful educational activity you put on here in Hong Kong.

Your vision and leadership in realizing the importance of congenital and structural heart interventions and establishing such a course to benefit all healthcare professionals in the region is greatly valued. This field is the fastest growing in Cardiology and your efforts in keeping all of us up to date is phenomenal.

Your leadership and commitment to science is greatly valued. We are all indebted to your efforts in bringing APCASH to life.

The PICS Foundation and Sidra Medical & Research Center wish Professor Lam and the organizing committee much success and we look forward to collaborating with you in future meetings.

Wishing you all the very best.

Professor Ziyad M. Hijazi, MD, MSCAI
PICS Foundation President
Chief Medical Officer (Acting)
Chairman, Department of Pediatrics
Director, Sidra Cardiovascular Center of Excellence
Sidra Medical & Research Center
Doha-Qatar

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Congratulatory Message from Honorable Guest

I warmly congratulate the Organizing Committee for its successful organisation of the 5th Asia Pacific Congenital & Structural Heart Intervention Symposium 2014.

Hong Kong has always been supportive in the pursuit of global health, and has constantly been contributing to the international medical research in cardiology. With the view to maintaining citizens' health, the HKSAR Government is committed to maintaining the sustainability of our healthcare system, as well as enhancing the standard of our healthcare services through keeping abreast of the latest development in medical technology, including cardiac-related ones.

For years, the Symposium has served as an invaluable platform for exchanges of ideas on treatment, researches and discoveries related to heart diseases among professionals, including cardiovascular imaging and transcatheter therapies. Furthermore, characterized by live transmissions from various renowned hospitals in the Asia-Pacific region, reputable cardiologists from all over the world could be drawn together to share their knowledge and experience on areas of common interest.

With constant advancement in technology, I am confident that the field of cardiology will continue to scale new heights and benefit more patients in the future years to come. I wish the Symposium every success and all participants an inspiring and enriching experience.

Dr. Wing-man Ko, BBS, JP
Secretary for Food and Health
The HKSAR Government

It is my pleasure to congratulate the Hong Kong Society of Congenital and Structural Heart Disease on its successful organisation of the Asia Pacific Congenital and Structural Heart Intervention Symposium 2014.

Currently the number one cause of mortality worldwide, cardiovascular disease is a growing challenge to health in Hong Kong – claiming over 5,800 lives in 2012 to rank as the territory's third leading cause of death. Encompassing a variety of serious medical conditions, cardiovascular disease affects individuals of all ages. Among the more than 50,000 babies born each year in Hong Kong, some 450 to 500 are diagnosed with congenital heart conditions. In the past two years alone, about 17,000 congenital heart disease patients were under the care of paediatric or adult cardiology units at Hospital Authority hospitals.

Working in close cooperation with cardiac professionals, researchers and academics, the Society plays an important role in helping to advance the medical technology and procedures used in diagnosing and treating congenital and structural heart conditions.

I offer my sincere appreciation to all members of the Society for their invaluable contributions in promoting and enhancing standards of practice in cardiology and wish them great success in their future endeavours.

Dr. Pak-yin Leung
Chief Executive
Hospital Authority

I am pleased to extend my warmest congratulations to the Hong Kong Society of Congenital and Structural Heart Disease on holding the Asia Pacific Congenital and Structural Heart Intervention Symposium in Hong Kong for a fifth consecutive year.

In what has become a flagship event for the regional cardiac healthcare community, this Symposium boasts the widespread support of leading heart specialists and other healthcare professionals from home and abroad. The Symposium provides both speakers and attendees with a valuable opportunity to exchange expertise and insights into developments in cardiology and to update themselves on the latest cardiac-related technology and breakthroughs. The Society must be highly commended for this important contribution to raising the standards of cardiac medicine in Hong Kong and the Asia Pacific region.

Despite continuing advancements in diagnostic capabilities and medical treatments, heart disease remains a leading cause of premature death in many countries around the world. According to World Health Organization statistics, three in every 10 deaths worldwide result from cardiovascular diseases, which killed 17.5 million people in 2012.

In this symposium, we will have lectures, presentations of research abstracts and case studies, as well as exhibitions on wide range topics (ranging from interventional cardiovascular imaging and renal denervation technologies for resistance hypertension to transcatheter therapies for valvular heart diseases and new catheter-based treatments for congenital heart diseases). With a three-day programme that includes a variety of different enlightening components, this Symposium will play a key role in efforts to combat this growing threat to global health.

I am certain this year's participants will find the Symposium an enriching and inspiring experience that leads to the development of new professional contacts and fruitful future collaborations.

Professor John Chi-yan Leong
Chairman
Hospital Authority

Congratulatory Message from Supporting Organization

Hong Kong College of Cardiology

Dear President of APCASH and colleagues,

On behalf of the Hong Kong College of Cardiology, I would like to express my sincere congratulation to the Annual meeting of the Hong Kong Society of Congenital and Structural Heart Disease. In these recent years, there have been very significant advances in the minimally-invasive ways of management of these congenital and structural heart diseases. The technological advances and development of innovative modalities have revolutionized the fate of these unfortunate patients. With the 3 days scientific programs and the dedicated efforts of our renowned oversea and local experts, we aim to advance our knowledge and acquire the latest skills in handling these challenging conditions. The ultimate benefit will definitely be transferred to our daily patient care.

The College is very honored and glad to have the opportunity to collaborate with APCASH to achieve the common goal of promoting post graduate education. We wish every one of you an enjoyable and rewardable experience in this conference.

Dr. Kam-tim Chan
President
Hong Kong College of Cardiology

I take great pleasure in sending my congratulations to the Organizing Committee of the 5th Asia Pacific Congenital & Structural Heart Intervention Symposium 2014.

Building on past successes in running this annual event, this year the Organizing Committee has worked tirelessly in drawing up a very rich and stimulating 3-day programme. Unrestrained by national boundaries, live transmission from Hong Kong and Asia Pacific regions has been ingeniously arranged to facilitate the dissemination of skills and knowledge of experts to a much larger audience of the discipline.

The symposium is to serve as a forum for fruitful exchanges amongst dedicated colleagues. In their quest for breakthroughs in research and development into the diagnosis and treatment of heart diseases, the connections made at this annual symposium are important for every participant including those who view the live broadcast.

I would like to express my gratitude to all members of the Organizing Committee for their efforts in planning such a grand event every year for colleagues. Many who have weighed in with whatever skills and knowledge they bring to make this Symposium happen also deserve our deep appreciation.

The Symposium signifies the power of having colleagues work together in the interest of an engaging cause – a cause that brings hope to patients and their families. This power has been driving the work of the discipline to scale new heights.

I trust that all of you will benefit enormously from this Symposium. More importantly, the friendship developed will enrich your professional and personal life.

Professor Francis Ka-leung Chan
Dean, Faculty of Medicine
The Chinese University of Hong Kong

On behalf of the HCMC Pediatric Cardiology and Congenital Heart Disease Society, Vietnam, I would like to send my warmest congratulations to the Fifth Asia Pacific Congenital and Structural Heart Intervention Symposium 2014, an annual event from which that we could learn the valuable skills and expertise knowledge. It is also my great pleasure to be invited to be there in the Platform Party of the Opening Ceremony. It is such a pity that I could not come, but I wholeheartedly wish the Symposium great success and I do hope that I could learn exceptionally good information from the Symposium.

Thank you so much for your invitation.

Best Regards.

Professor Vu Minh Phuc
President
Ho Chi Minh City Pediatric Cardiology and
Congenital Heart Disease Society

香港心臟護理學會有限公司
Hong Kong Cardiac Nursing Association Ltd

It is a great pleasure for me to extend my heartiest congratulations to the 5th Asia Pacific Congenital & Structural Heart Intervention Symposium 2014 – APCASH 2014.

APCASH Conference is one of the important cardiac events in Hong Kong. The APCASH organizing committee has been continuously devoted to promote the advancement of congenital & structural interventions. This year organizing committee had organized the allied health session for congenital & structural interventions. It not only can provide platform for cardiac nurses to share their experience but also can enhance our cardiac nursing knowledge for maintaining high quality of patient care. The conference's remarkable contributions to cardiac nursing professional are highly commended.

On this memorable occasion, I would like to express my gratitude on the hard work and dedication of all the committee members of the conference. I wish APCAH conference every success in all its future endeavors.

Mr. Kam-wai Lai
President
Hong Kong Cardiac Nursing Association

Hong Kong Society of Paediatric Cardiology

On behalf of the Hong Kong Society of Paediatric Cardiology, I would like to offer my congratulations to the 5th Asia Pacific Congenital and Structural Heart Intervention Symposium. The symposium has enjoyed great success and our members learnt a lot from the educational talks and the live demonstrations. I wish you every success for the conference.

Dr. Dora May-ling Wong
President
Hong Kong Society of Paediatric Cardiology

On behalf of the Hong Kong Society of Transcatheter ENdo-cardiovascular Therapeutics (HKSTENT), it gives me great honour to welcome you all to participate in the 5th Asia Pacific Congenital & Structural Heart Intervention Symposium (APCASH) 2014. I would like to congratulate the organizing committee from the Hong Kong Society of Congenital & Structural Heart Disease in hosting such meaningful and educational activity in the Asia Pacific region for 5 consecutive years.

With the improvement in medical care, many Paediatric cardiac patients can live to their adulthood and many congenital heart diseases can now be treated by catheter-based approach. At the other extreme, the proportion of the elderly population is on the increase. This has been paralleled by the increasing number of degenerative valvular heart diseases such as severe aortic stenosis and severe mitral regurgitation. A lot of these patients are at high-risk or even inoperable for open heart surgery. Percutaneous catheter therapies have provided another option to improve the symptoms and survival of this group of patients but these procedures are highly complex with a definite learning curve. Other structural interventional procedures for stroke prevention or to treat patients with resistant hypertension are also technical demanding. Only with adequate knowledge and skill of the procedures can we minimize the risks and complications.

APCASH has set a good platform for us to learn from the experts, both international and local, not only to gain the knowledge of the diseases, but also learn from them the skills and details of these interventional procedures. Throughout this symposium, there will be didactic lectures on various topics of interest, live transmissions from local and overseas centres on the different catheter-based procedures as well as special case-based symposium for us to learn from the experts and understand the different diseases and interventional procedures in great detail. You will see diseases and procedures that you rarely meet in your practice, but this is a golden opportunity to tap on the experts and share your questions and concerns with them. You will surely gain a deeper understanding of the congenital and structural heart interventions.

It is no easy task for the organizing committee to put up such complex and educational program. We hope you will find the symposium both interesting and thought-provoking and wish you a pleasant stay in this vibrant city of Hong Kong. Enjoy this learning experience.

Dr. Michael Kang-yin Lee
President
Hong Kong Society of Transcatheter ENdo-cardiovascular Therapeutics

On behalf of the Montreal Heart Institute, it is my pleasure to congratulate the organizing committee of the Asia Pacific Congenital & Structural Heart Intervention Symposium on the celebration of its 5th edition.

APCASH is truly an international meeting and has contributed significantly to increase the knowledge in the field of congenital and structural interventions.

I want to extend my sincere congratulations to everyone who has participated in the founding and continued success of this important organization. These individuals have contributed to the growth and enrichment of the entire community.

May APCASH continue to thrive and grow for many more years.

Dr. Reda Ibrahim
Interventional cardiologist
Director, Medical Intensive Care Unit and Structural Heart Program
Montreal Heart Institute
Associate Professor, University of Montreal

聖保祿醫院
St. Paul's Hospital

It is a great pleasure for me to extend again my sincere congratulations to the annual APCASH – 5th Asia Pacific Congenital & Structural Heart Intervention Symposium 2014.

With the mission of promoting, maintaining and pursuing excellence in the care of patients with congenital and structural heart diseases. The annual APCASH Symposium marks a momentous milestone every year in the advancement of knowledge and training in medical disciplines pertinent to above-mentioned diseases.

On this remarkable occasion, I would like to express my gratitude on the hard work and dedication of all the members of the Hong Kong Society of Congenital and Structure Heart Disease, and may I wish the 5th Asia Pacific Congenital & Structural Heart Intervention Symposium 2014 every success.

Sister Nancy Cheung
Managing Director
St Paul's Hospital

We sincerely congratulate the 5th APCASH held in Hong Kong. This meeting is specialized in Congenital and Structural Heart Disease (SHD) among the Asia-Pacific region, and I am very sure you will find these topics very interesting. In addition, we believed this field is fast growing and also becoming important worldwide. The Structure Club Japan, a society that specializes in SHD, has been very much honored in participating at APCASH for the past 3 years. We share the same goal with the organizer and we are dedicated to devote our biggest effort to the patients with SHD. On behalf of the society, I and my colleagues from Structure Club Japan are very honored to participate in this year again.

Besides, we gladly announce the 6th APCASH will be held in Tokyo next year in 2015! We would like to thank to the organizing committee for giving us this fabulous opportunity, and we believed this meeting will be successful with everyone involved.

Professor Hidehiko Hara
President
Structure Club Japan

The 5th APCASH, hosted by Hong Kong Society of Congenital and Structural Heart Disease, is one of the most important symposiums focusing on transcatheter interventions in congenital and structural heart disease. This symposium attracted several hundreds of participants each year. The number of participants and faculties have increased year by year. Meanwhile, the live case transmission sites have increased to 4 sites with more live cases demonstrated in 2014. I would like to congratulate the organizing committee for the great success in organizing this wonderful symposium. I am sure the great majority of participants will learn the most advanced progress in interventional treatment. We can't afford to miss this meeting. Through this meeting, I wish there will be more opportunities of collaboration between participants from each country. The PICS-AP 2015 will be held in Taipei during April 1st through 4th 2015. I would like to take this opportunity to invite you all to participate in PICS-AP 2015.

Professor Jou-kou Wang
President
Taiwan Society of Pediatric Cardiology

APCASH 2014 Organizing Committee

A Note of Appreciation from the Conference Organizing Committee

The Conference Organizing Committee would like to express its sincerest gratitude to all parties and individuals, including faculty members, delegates, sponsors, live centers and its operation teams, who have joined us in delivering the conference. The Committee hopes that all would find this Conference inspiring and educational and looks forward to your continued support in the years to come.

Program Director

Yat-yin Lam
The Chinese University of Hong Kong

Program Co-directors

Boron Cheung-wah Cheng
Specialist in Cardiology

Olaf Franzen
Klinik Im Park

Wei Gao
Shanghai Children's Medical Centre

Nguyen Lan Hieu
Hanoi Medical University Hospital

Steven Siu-lung Li
Union Hospital

Lars Sondergaard
Rigshospitalet University Hospital

Gabriel Wai-kwok Yip
Grantham Hospital

Committee Members

Anna Kin-yin Chan
Prince of Wales Hospital

Jason Leung-kwai Chan
Queen Elizabeth Hospital

Kam-tim Chan
Queen Elizabeth Hospital

Wilson Wai-man Chan
Hong Kong Baptist Hospital

Gary Shing-him Cheung
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Maurice Ping Leung
Specialist in Paediatrics

Betty Yuen-king Tang
St. Paul's Hospital

Dora May-ling Wong
Queen Elizabeth Hospital

Man-ching Yam
Prince of Wales Hospital

Francis Siu-fung Yiu
Specialist in Cardiology

About HKCASH

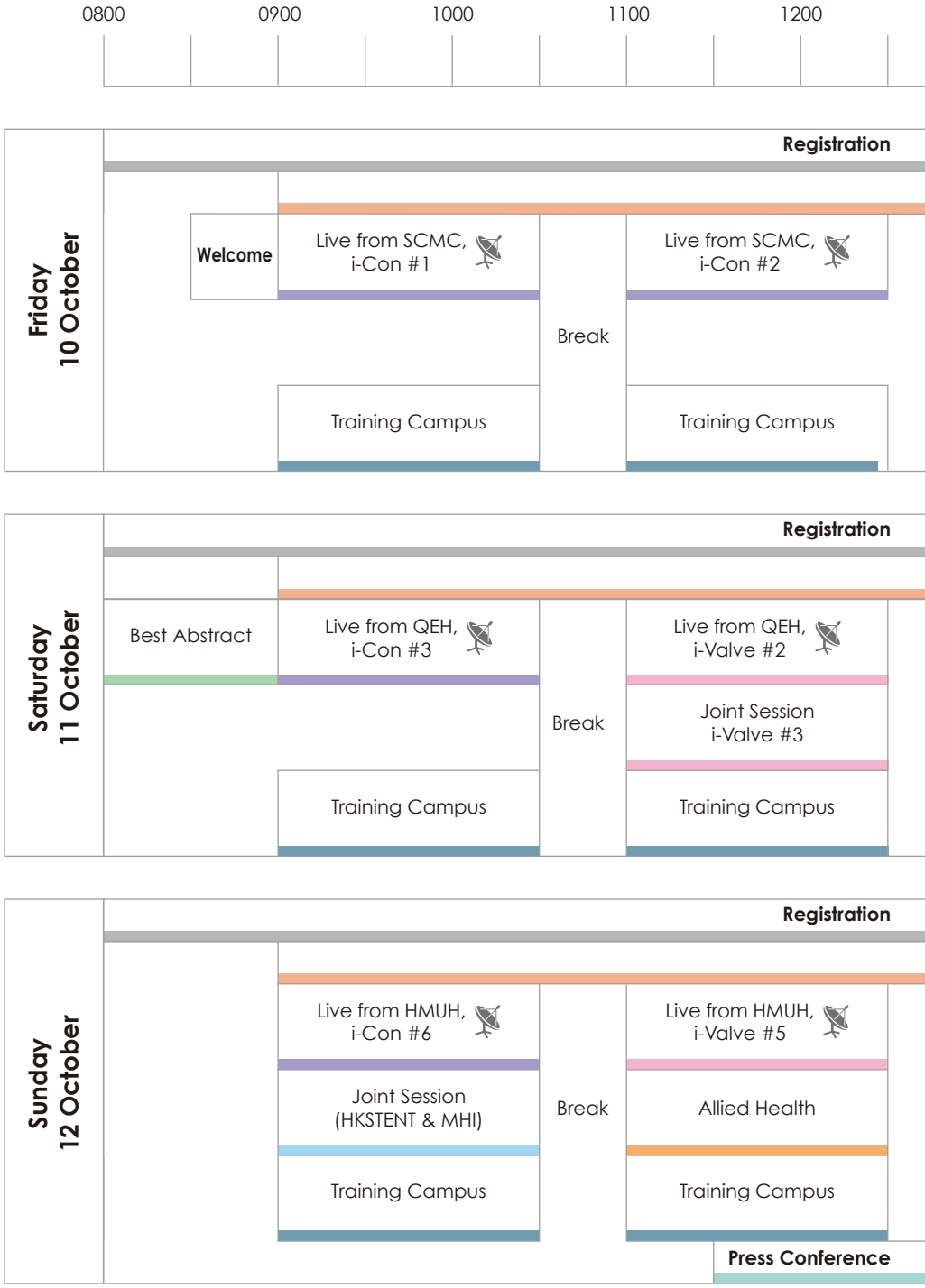
The Hong Kong Society of Congenital & Structural Heart Disease (HKCASH), found in August 2007, is an academic organization in Hong Kong that aims to promote, maintain and pursue excellence in the care of patients with congenital and structural heart diseases. The society is dedicated to the advancement of knowledge and training in medical disciplines pertinent to above-mentioned diseases. To accomplish this mission, the society hosts regular professional academic meetings to introduce education materials to the patients and the general public throughout the year.

The primary activities of the HKCASH include education forums for public and its annual meeting for healthcare professionals. The Asia Pacific Congenital & Structural Heart Intervention Symposium (APCASH) is an annual conference that is attended by dedicated healthcare professionals from Asia-Pacific and global regions.

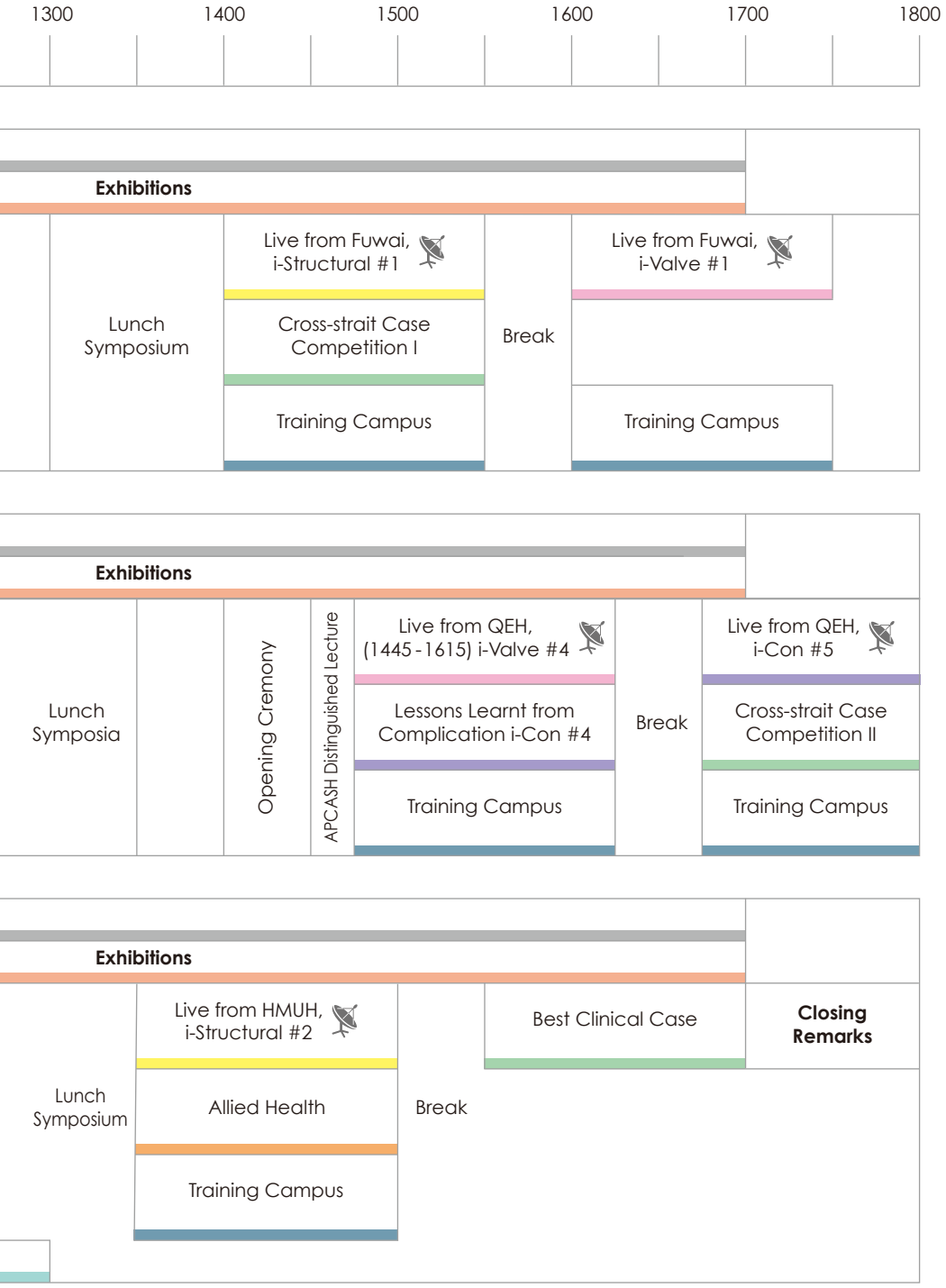
For details of HKCASH and its membership, please visit

www.hongkongcash.org

Program-at-a-Glance



SCMC = Shanghai Children's Medical Centre (PR China) Fuwai = Fuwai Hospital (PR China)



QEH = Queen Elizabeth Hospital (Hong Kong) HMUH = Hanoi Medical University Hospital (Vietnam)

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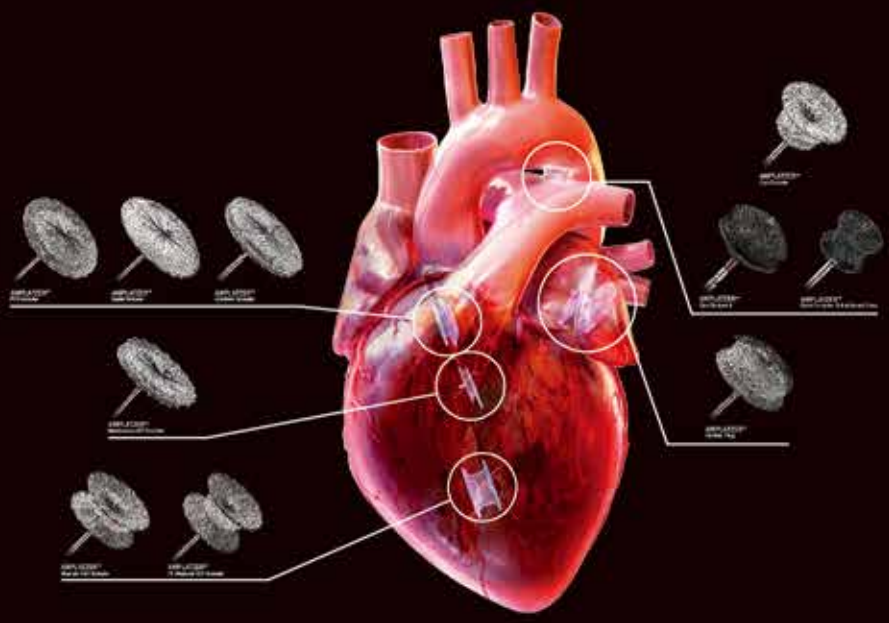

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Shanghai Children's Medical Centre (Friday, 10 October)

Shanghai, PR China

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Wei Gao (PR China)

Ziyad Hijazi (Qatar)

Ting-liang Liu (PR China)

Fuwai Hospital (Friday, 10 October)

Beijing, PR China

Qi-ling Cao (Qatar)

Ting-liang Liu (PR China)

Xiang-bin Pan (PR China)

Worakan Promphan (Thailand)

Yong-jian Wu (PR China)

Yue-jin Yang (PR China)

Ge-jun Zhang (PR China)

Queen Elizabeth Hospital (Saturday, 11 October)

Hong Kong, PR China

Alan Ka-chun Chan (HK)

Jason Leung-kwai Chan (HK)

Kam-tim Chan (HK)

Boron Cheung-wah Cheng (HK)

Hung-leong Cheung (HK)

Yu-fat Chow (HK)

Douglas King-tak Fok (HK)

Olaf Franzen (Switzerland)

Ziyad Hijazi (Qatar)

Reda Ibrahim (Canada)

Saibal Kar (USA)

Michael Kang-yin Lee (HK)

Maria Shuk-han Lee (HK)

Steven Siu-lung Li (HK)

Vincent Wing-shun Ng (HK)

Louisa Kam-ha Poon (HK)

Eric Hang-kwong So (HK)

Lars Sondergaard (Denmark)

Eric Chi-yuen Wong (HK)

Dora May-ling Wong (HK)

Gabriel Wai-kwok Yip (HK)

Francis Siu-fung Yiu (HK)

Hanoi Medical University Hospital (Sunday, 12 October)

Hanoi, Vietnam

Tran Bao Trang (Vietnam)

Doan Duc Dung (Vietnam)

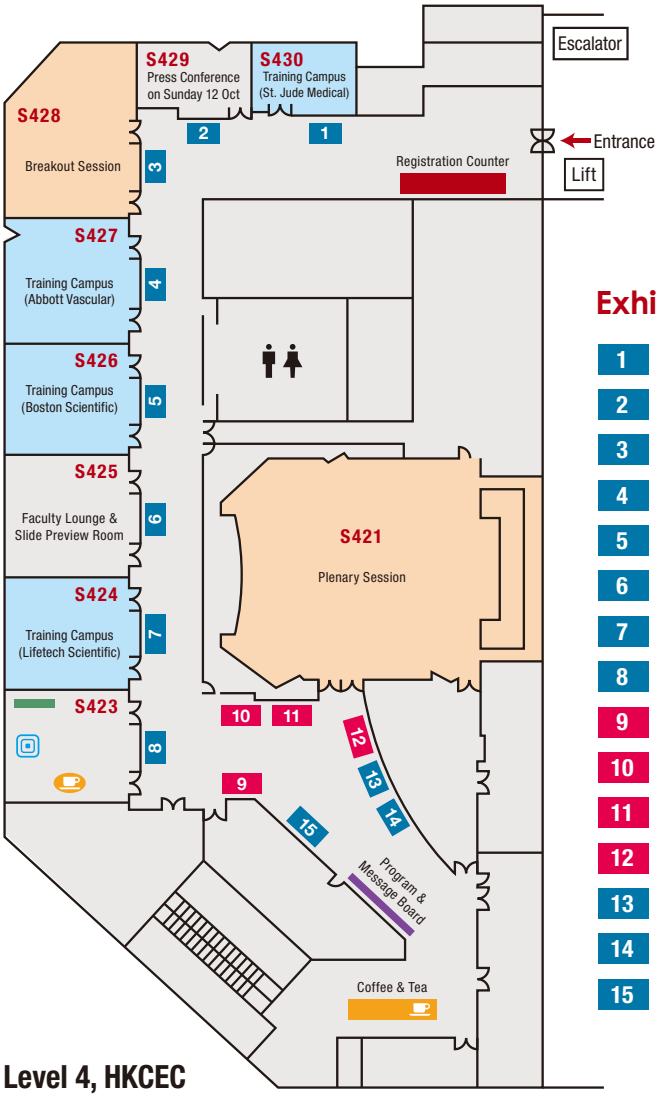
Nguyen Lan Hieu (Vietnam)

Bui Quang Thang (Vietnam)

Le Van Tu (Vietnam)

Floor Plan & Exhibition

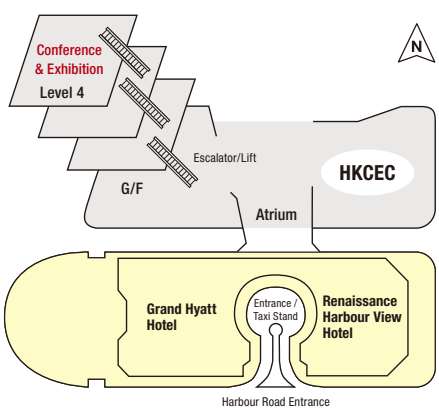
APCASH 2014: 10-12 October 2014



Level 4, HKCEC

Exhibition Booths:

1	Venus MedTech Inc
2	Vascular Innovations Co Ltd
3	Novartis Pharmaceuticals (HK) Ltd
4	Bayer HealthCare Ltd
5	Eli Lilly Asia, Inc
6	ZenoMed
7	AstraZeneca HK Ltd
8	Philips Electronics HK Ltd
9	Lifetech Scientific
10	St. Jude Medical (HK) Ltd
11	Abbott Vascular
12	Medtronic International Ltd
13	Boston Scientific HK Ltd
14	Occlutech International
15	Materialise



Scientific Program

Training Compus

Cyber Corner

Academic Accreditation

Coffee Break

Academic Accreditation

Participants are required to sign-up the attendance sheet(s) every day which will be displayed inside Room S423.

Academic Accreditation	Day 1 10 Oct	Day 2 11 Oct	Day 3 12 Oct	Cat.	Max.
Hong Kong College of Anaesthesiologists	7.5	8.25	7	Non-Ana	15
Hong Kong College of Community Medicine	6	6	6	–	10
Hong Kong College of Emergency Medicine	6	6	6	PP	12
Hong Kong College of Family Physicians	5	5	5	Cat 5.2	10
College of Otorhinolaryngologists of Hong Kong	4	4	3.5	Cat 2.2	10
Hong Kong College of Paediatricians	6	6	6	Cat A	18
Hong Kong College of Pathologists	3.5	4	3.5	PP	–
Hong Kong College of Physicians	7.5	8	7	–	–
Hong Kong College of Radiologists	7.5	8	7	Cat B	–
The College of Surgeons of Hong Kong	6	6	6	Passive	18
MCHK CME Programme	5	5	5	Passive	10
CNE for Nurses (Full Conference)	21			–	–
CNE for Nurses (Allied Health Session on 12 Oct)	–	–	2	–	–
CPD for Occupational Therapists	6	6	6	–	18
CPD for Physiotherapists	8			–	–
CPD for Radiographers	9			–	–

Acknowledgement

The APCASH 2014 wishes to sincerely thank the following sponsors, organizations and patrons for their kind support to this year's meeting:

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Linde HKO Ltd
Materialise
Novartis Pharmaceuticals (HK) Ltd
Occlutech International
OrbusNeich
Pfizer Corporation HK Ltd
Philips Electronics HK Ltd
Ultronics Enterprise Ltd
Vascular Innovations Co Ltd
Venus MedTech Inc
ZenoMed
Harry Cheung
Lo Wong Yuk Man

SPECIAL THANKS TO 2014 LIVE CENTRES

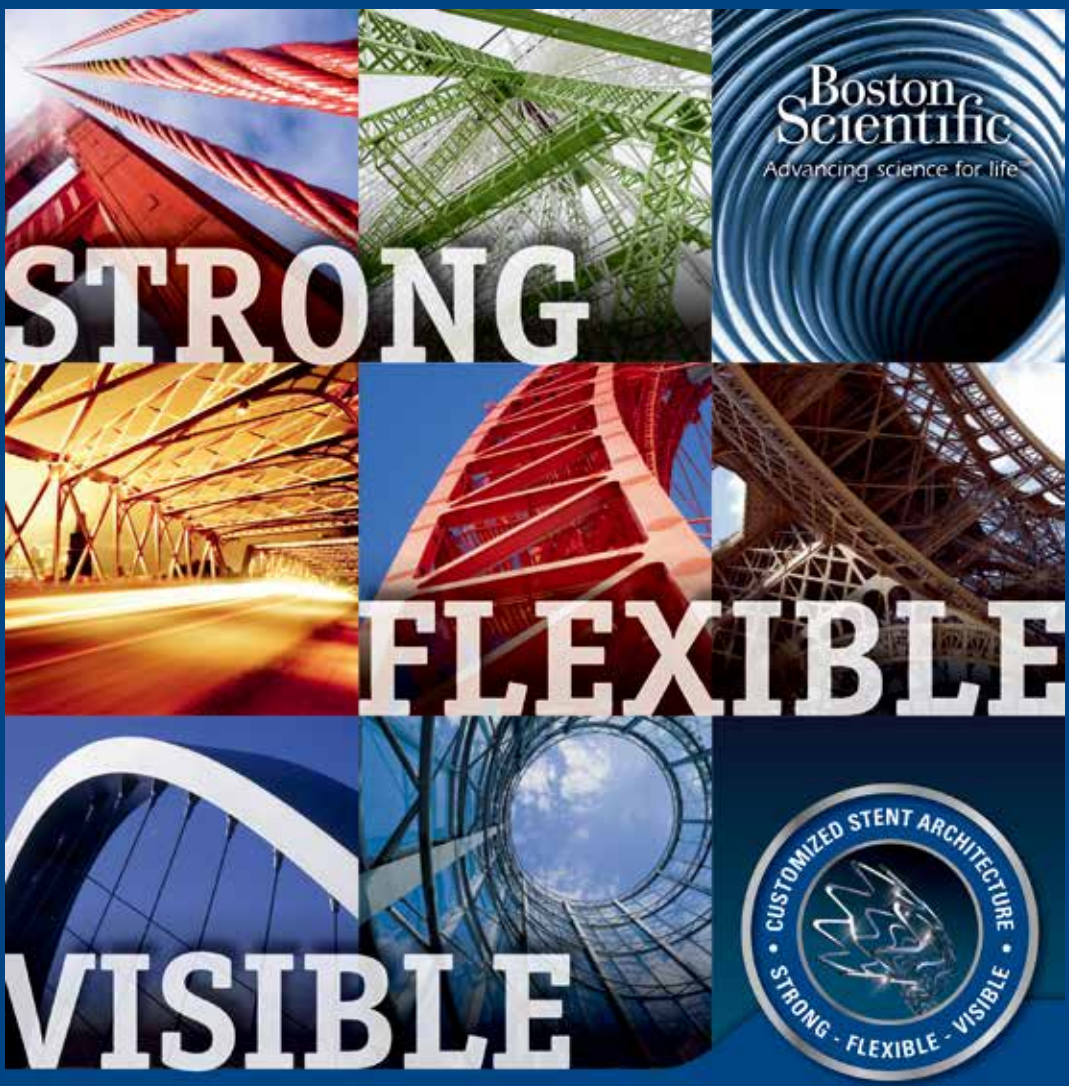
Shanghai Children's Medical Centre

Fuwai Hospital

Queen Elizabeth Hospital
Departments of Anaesthesiology, Cardiothoracic Surgery, Medicine, Paediatrics Cardiology and Radiology

Hanoi Medical University Hospital

FACULTY & PRESENTER



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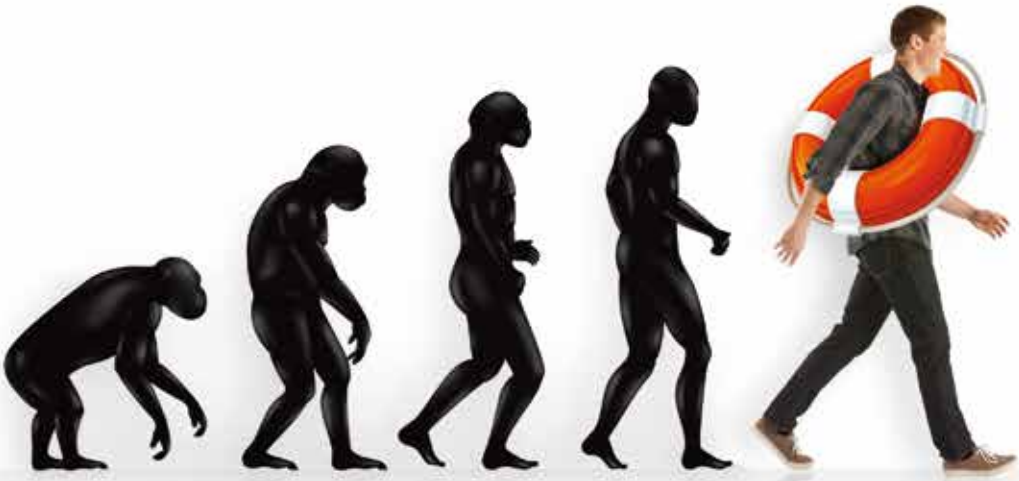

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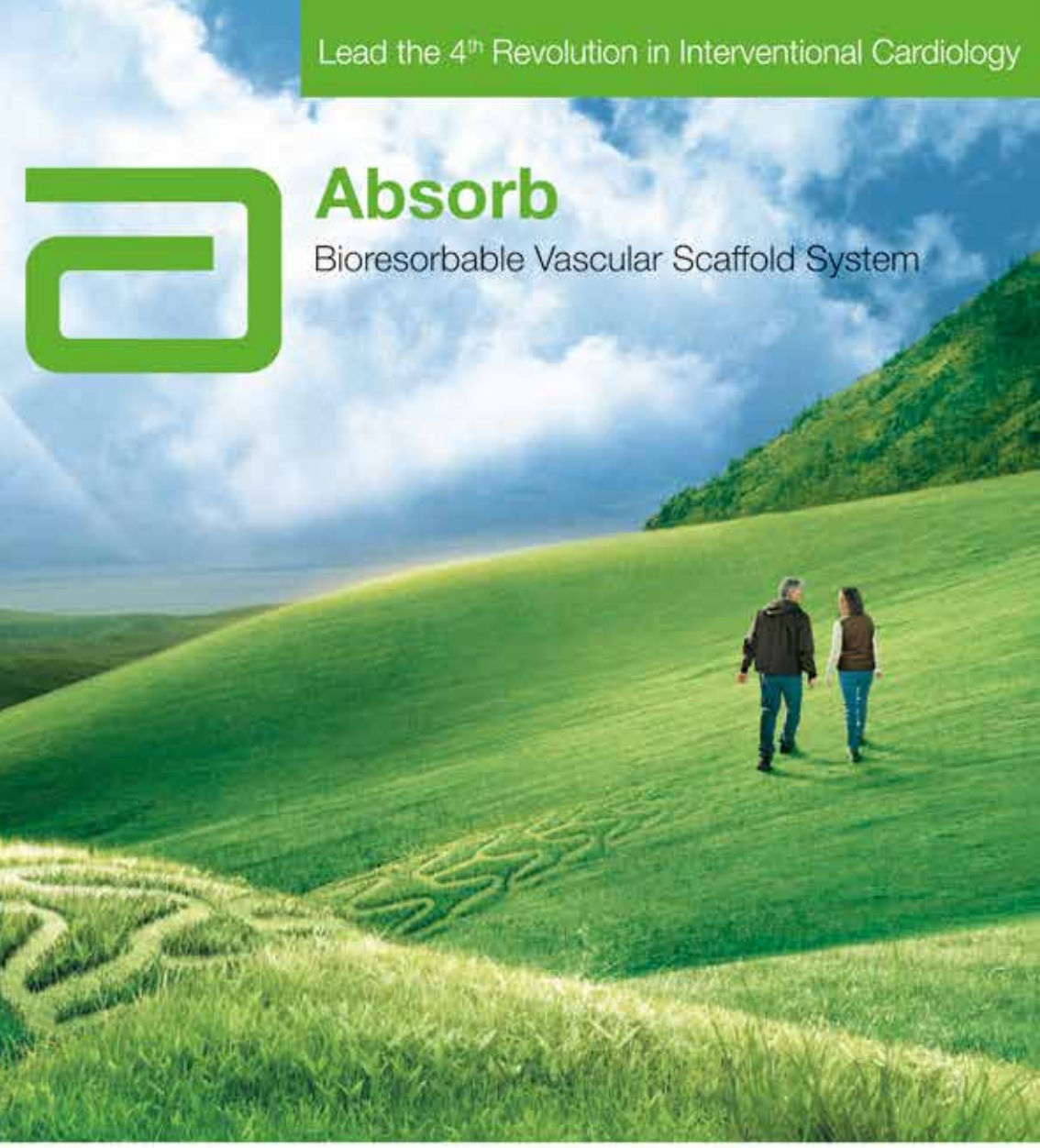

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*Medtronic data on file, comparison of CoreValve to CoreValve Evolut.

Opening Ceremony

Date: Saturday, 11 October
Time: 14:00 – 14:30
Venue: Room S421

Welcome Address

Yat-yin Lam
Program Director, 5th Asia Pacific Congenital & Structural Heart Intervention Symposium 2014 (APCASH)

President, Hong Kong Society of Congenital & Structural Heart Disease (HKCASH)

Kam-tim Chan
President, Hong Kong College of Cardiology (HKCC)

Congratulatory Address : Guest-of-Honour

Ziyad M. Hijazi, *Foundation President, PICS Foundation*

Professor Ziyad M. Hijazi (MD, MPH, MSCAI, FACC) is the Acting Chief Medical Officer and Chairman of the Department of Pediatrics at Sidra Medical and Research Center. Prof. Hijazi is also the Medical Director of the Sidra Cardiology Center of Excellence.

As Clinical Chief for Pediatrics, Prof. Hijazi drives the strategic direction of the Department of Pediatrics and integrates research and education priorities into a program of excellent clinical service delivery. He also holds the position of Chair of Pediatrics at Weill Cornell Medical College – Qatar, Sidra's partner for medical education.

Prof. Hijazi is an interventional cardiologist who specializes in treating congenital and structural heart disease in both children and adults. He is a pioneer in the non-surgical repair of congenital and structural heart defects.

His annual Pediatric & Adult Interventional Cardiac Symposium (PICS/AICS) is a four-day conference which brings together a selected international faculty who provides demonstrations, live operations and the latest research breakthroughs in interventional cardiology for congenital and structural heart disease. This symposium attracts more than 750 interventional cardiologists from more than 60 countries around the world. Based upon this model, he is currently establishing collaborative pediatric cardiology research and clinical programs in China.

On May 11, 2008, Prof. Hijazi became the 31st President of the Society for Cardiovascular Angiography and Interventions (SCAI), the major organization for interventional cardiologists that has more than 4,000 members worldwide. In 2011, Mayor Thomas Menino declared July 25, 2011 as the Ziyad Hijazi Day in Boston, MA.

The PICS Foundation has been organized exclusively for charitable, educational and scientific purposes. The focus of the Foundation is to educate physicians and healthcare professionals involved in the care of children and adults with congenital and structural heart disease in the latest advances in the field of interventional therapies for congenital and structural cardiac defects.

APCASH Distinguished Lecture 2014

Date: Saturday, 11 October
Time: 14:30 – 14:45
Venue: Room S421
Chairpersons: Yat-yin Lam (HK), Chiu-on Pun (HK), Le-feng Wang (PR China), Gabriel WK Yip (HK)

Advances in Structural Heart Disease Intervention Beyond TAVR: Mitral Valve Repair and Left Atrial Appendage Occlusion

Saibal Kar, *Cedars-Sinal Medical Center, USA*

Saibal Kar, MD, is an interventional cardiologist in the Cardiology Division of the Department of Medicine at Cedars-Sinai Medical Center, where he is also the Director of Interventional Cardiac Research.

As an astute clinician and teacher, Dr. Kar is a skilled interventional cardiologist with a special expertise in valvuloplasty and congenital heart disease. His research interests are focused on coronary restenosis, device development and the advancement of percutaneous techniques in the treatment of congenital and valvular heart diseases. Involved in both clinical and experimental research, Dr. Kar's clinical work has included publishing data on different aspects of angioplasty for the treatment of acute myocardial infarction. In the experimental lab, he has done original work on newer drug-eluting stents for the prevention of restenosis of coronary stents, and he recently developed a new drug-eluting stent, which is being used in a clinical trial in Germany.

Dr. Kar has published his clinical and experimental work in full manuscript form in peer-reviewed journals and has presented at numerous international meetings. He has written book chapters in Interventional Cardiology and General Cardiology, and he was instrumental in the startup of a special program of percutaneous closure of atrial and ventricular septal defects.

A board certified interventional cardiologist, Dr. Kar is a fellow and active member of the American College of Cardiology and American Heart Association. He is also a member of other professional organizations, including the Society of Coronary Angiography and Intervention, American College of Physicians, American Medical Association and Cardiology Society of India. He also serves on the Scientific Advisory Committee of the World Congress of Heart Failure.

Dr. Kar earned his medical degree from Nil Ratan Sircar Medical College in Calcutta, India. Following his internship, he completed his residency in medicine and his fellowship in cardiology at the Postgraduate Institute of Medical Education and Research in Chandigarh, India. After serving for a short time as Assistant Professor at this institute, he began working as an interventional cardiology fellow at the Epworth Hospital in Melbourne, Australia. Dr. Kar came to the United States and repeated his residency in medicine at the West Los Angeles Veterans Administration Hospital, and he completed his cardiology and interventional cardiology fellowship at Cedars-Sinai Medical Center. In view of his academic merits and previous accomplishments, the American Board of Medicine gave special consideration to shorten his period of residency and fellowship.

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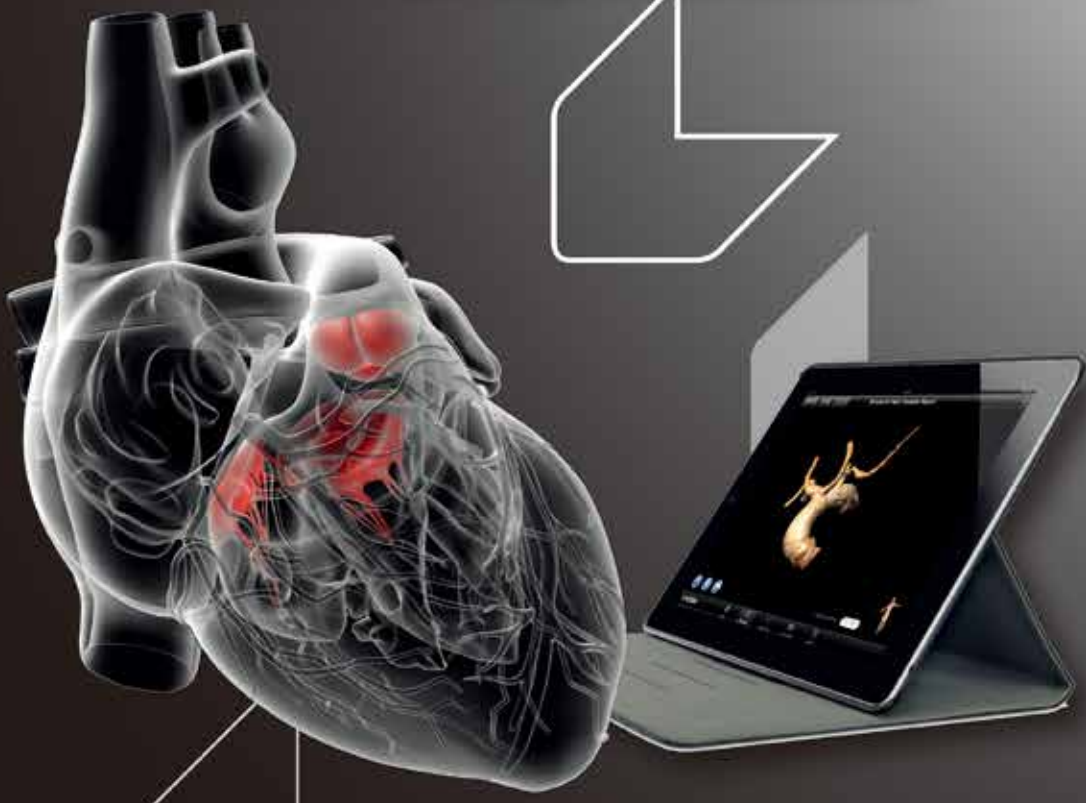

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Scientific Program

Day 1: Friday, 10 October 2014

Rm S421 **PLENARY SESSION (08:50 – 17:30)**

08:50 – 09:00

Welcome

Updating the Progress of Patients Receiving Live Demonstrations in 2013
– Yat-yin Lam (HK)

09:00 – 10:30 Live Transmission

Live Transmission From Shanghai Children's Medical Center

i-Con #1

Chairpersons: Adolphus KT Chau (HK), Tak-cheung Yung (HK)
Panelists: Jeng-sheng Chang (Taiwan), Jae-young Choi (South Korea), Jen-her Lu (Taiwan), Dora ML Wong (HK)

10 mins Surgical Treatment for Neonatal Coarctation ***– Xin Li (HK)***
10 mins How to Work in the Branch Pulmonary Arteries? ***– Ziyad Hijazi (Qatar)***
10 mins Long-term Coronary Problems in Adult Patients after Kawasaki Disease ***– Teiji Akagi (Japan)***

10:30 – 11:00

Tea Break & Visit Exhibits

11:00 – 12:30 Live Transmission

Live Transmission From Shanghai Children's Medical Center

i-Con #2

Chairpersons: Kin-shing Lun (HK), Gabriel WK Yip (HK)
Panelists: Mazeni Alwi (Malaysia), Hidehiko Hara (Japan), Jung-sun Kim (South Korea), Nguyen Lan Hieu (Vietnam), Pi-chang Lee (Taiwan)

10 mins Coronary AV Fistula – When to Close by Catheter or Surgical Approach ***– Mazeni Alwi (Malaysia)***
10 mins Coronary Fistula – Transcatheter Embolization by Coil Versus Vascula Plug Approach ***– Nguyen Lan Hieu (Vietnam)***
10 mins Device Closure of PDA in Preterm Infants ***– Yun-ching Fu (Taiwan)***

13:00 – 14:00

Lunch Symposium *sponsored by Lifetech Scientific*

Chairpersons: Xiang-qing Kong (PR China), Nageswara Rao Koneti (India), Yat-yin Lam (HK), Zhi-wei Zhang (PR China)

12 mins Sharing of LAmbre LAAO Experiences ***– Yat-yin Lam (HK)***

continued on p.49

12 mins Cera Occluders for VSD Closure
– Xiang-qing Kong (PR China)

12 mins Hybrid VSD Device Closure Using Lifetech Cera Asymmetric VSD
– Dexter D Cheng (Philippines)

12 mins Self Expanding Stents for Peripheral Arterial Disease
– Bryan PY Yan (HK)

14:00 – 15:30 Live Transmission

Live Transmission From Fuwai Hospital

i-Structural #1

Chairpersons: Leo CC Kum (HK), Maria SH Lee (HK)
Panelists: Liang-long Chen (PR China), Wei Chen (PR China), Kai-sheng Hsieh (Taiwan), Fen Li (PR China), Shinichi Shirai (Japan)

10 mins Surgical Myomectomy Still the Choice of Treatment for HOCM
– Kwok-keung Ho (HK)

10 mins Periprosthetic Leak Closure – Transapical Approach
– Xin Pan (PR China)

10 mins Periprosthetic Leak Closure – Transfemoral Approach
– Reda Ibrahim (Canada)

10 mins My Challenging LAA Case
– Wei Chen (PR China)

15:30 – 16:00

Tea Break & Visit Exhibits

16:00 – 17:30 Live Transmission

Live Transmission From Fuwai Hospital

i-Valve #1

Chairpersons: Nguyen Lan Hieu (Vietnam), Yin-ming Ng (HK)
Panelists: Xi-wei Deng (Macau), Chien-fu Huang (Taiwan), Jia-hua Pan (PR China), John TH Wong (HK), Jiunn-ren Wu (Taiwan)

10 mins How to Perform Percutaneous Balloon Aortic Valvuloplasty in Children? ***– Bharat Dalvi (India)***

10 mins Percutaneous Balloon Mitral Valvotomy (PBMV) – Pre-op Assessment
– Andrew YW Li (HK)

10 mins Percutaneous Balloon Mitral Valvotomy (PBMV) – Taped Case & Discussion ***– Raman Krishna Kumar (India)***

Breakout session continued on p.50

Rm S428 **BREAKOUT SESSION (14:00 – 15:30)**

14:00 – 15:30 Competition

Cross-strait Challenging Case Competition – Session I

Challenging Congenital Cases

Judges: Jae-young Choi (South Korea), Hidehiko Hara (Japan), Louisa KH Poon (HK), Man-ching Yam (HK), Zhi-wei Zhang (PR China)

10 mins **Invited Case Presentation – Congenital Valvular Heart Disease for Adult Cardiologist – *Hidehiko Hara (Japan)***

10 mins **Invited Case Presentation – How to Unlatch? The Key for Difficult Retrieval of an Embolized Amplatzer Septal Occluder – *Jae-young Choi (South Korea)***

10 mins **Invited Case Presentation – Occlusion of Large PDA with Severe Pulmonary Hypertension – *Zhi-wei Zhang (PR China)***

10 mins Case 1: Using the Coronary Chronic Total Occlusion (CTO) Technique to Recanulate Totally Occluded Vessels in the Congenital Heart Disease Patients **– *Jieh-neng Wang (Taiwan)***

10 mins Case 2: Experience and Lessions: Transcatheter Occlusion of Aortopulmonary Collateral Vessels **– *Mi Li (PR China)***

10 mins Case 3: Repair the Ceiling of Coronary Sinus **– *Ming-tai Lin (Taiwan)***

10 mins Case 4: Delayed Intracranial Air Embolism after Interventional Therapy of Congenital Pulmonary Arterio-venous Fistula: A Case Report **– *Wei Wang (PR China)***

HIGHLIGHTS OF TOMORROW (11 October)

- **Best Abstract Competition (S421, 08:00 – 09:00)**
- **Live Transmission from Queen Elizabeth Hospital (S421, 09:00 – 18:00)**
- **Opening Ceremony & APCASH Distinguished Lecture 2014 by *Dr. Saibal Kar* (S421, 14:00 – 14:45)**
- **Cross-straits Challenging Case Competition (S428, 16:45 – 18:00)**

Day 2: Saturday, 11 October 2014

Rm S421 **PLENARY SESSION (08:00 – 18:00)**

08:00 – 09:00 Competition

Best Abstract Competition

Judges: Jeffrey WH Fung (HK), Archie YS Lo (HK), Jou-kou Wang (Taiwan), Man-ching Yam (HK), Gabriel WK Yip (HK)

8 mins Abstract 1: New Therapeutic Strategies for Adult Patients with Atrial Septal Defect and Severe Pulmonary Atrial Hypertension; Combination of Advanced Medical Therapy and Catheter Intervention ***– Teiji Akagi (Japan)***

8 mins Abstract 2: Percutaneous Closure of Atrial Septal Defects under Transthoracic Echocardiography Guidance without Fluoroscopy ***– Kun-jing Pang (PR China)***

8 mins Abstract 3: Percutaneous Closure of Atrial Septal Defects by Devices in Patients Aged 40 Years and Older in Vietnam National Heart Institute ***– Nguyen Lan Hieu (Vietnam)***

8 mins Abstract 4: Intra-pulmonary Artery Echocardiography as a Guide of Transcatheter Occlusion of Patent Ductus Arteriosis in Adult-sized Patients ***– Kenji Suda (Japan)***

8 mins Abstract 5: Outcomes of Combined Treatments of Selective Pulmonary Vasodilators after the Trans-catheter Closure in Atrial Septal Defect with Pulmonary Arterial Hypertension ***– Lucy Eun (South Korea)***

8 mins Abstract 6: Infective Endocarditis Following Percutaneous Pulmonary Valve Replacement: Diagnostic Challenges and Application of Intra-cardiac Echocardiography ***– Gary SH Cheung (HK)***

09:00 – 10:30 Live Transmission

Live Transmission From Queen Elizabeth Hospital

i-Con #3

Chairpersons: Yiu-fai Cheung (HK), Maurice P Leung (HK)
Panelists: Yun-ching Fu (Taiwan), Raman Krishna Kumar (India), U-po Lam (Macau), Ya-wei Xu (PR China)

Debate: Should Ductal Stent Implantation be Considered for All Newborn Infants with Reduced Pulmonary Blood Flow?

10 mins Pros ***– Mazeni Alwi (Malaysia)***

10 mins Cons ***– Maurice P Leung (HK)***

Debate: All Patients with Transannular Patch Repair of TOF Should Have an Early Pulmonary Valve Replacement in Childhood?

10 mins Pros ***– Worakan Promphan (Thailand)***

10 mins Cons ***– Flora HF Tsang (HK)***

10:30 – 11:00

Tea Break & Visit Exhibits

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continued on p.52

Day 2: Saturday, 11 October 2014

11:00 – 12:30 Live Transmission

Live Transmission From Queen Elizabeth Hospital

i-Valve #2

Chairpersons: Boron CW Cheng (HK), Yuk-kong Lau (HK)

Panelists: Bharat Dalvi (India), Jason KC Ko (HK), Xiang-qing Kong (PR China), Nguyen Lan Hieu (Vietnam)

10 mins Role of 3D Modeling in Structural Heart Interventions
– Patricia Lopes (Belgium)

10 mins Role of ICE in Percutaneous Pulmonary Valve Implantation
– Qi-ling Cao (Qatar)

10 mins Taped Case for Melody Pulmonary Valve Implantation
– Lars Sondergaard (Denmark)

10 mins Forthcoming Pulmonary Valve Technology ***– Ziyad Hijazi (Qatar)***

12:30 – 13:30

Lunch Symposia sponsored by Abbott Vascular & AstraZeneca

Chairpersons: Mario Evora (Macau), Bin Liu (PR China), Le-feng Wang (PR China), Chris KY Wong (HK)

15 mins Current Status and Challenges of Broresorbable Scaffolds (BRS)
– Vincent OH Kwok (HK)

15 mins Use of MitraClip Beyond Everest Criteria ***– Takashi Matsumoto (Japan)***

15 mins MitraClip Worldwide Progress Report: A Global Perspective
– Carlos Hernandez (USA)

14:00 – 14:30

Opening Ceremony

Guest-of-Honor – *Professor Ziyad Hijazi, Foundation President, PICS Foundation*

14:30 – 14:45

APCASH Distinguished Lecture 2014

Chairperons: Yat-yin Lam (HK), Chiu-on Pun (HK), Le-feng Wang (PR China), Gabriel WK Yip (HK)

15 mins Advances in Structural Heart Disease Intervention Beyond TAVR: Mitral Valve Repair and Left Atrial Appendage Occlusion
– Saibal Kar (USA)

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continued on p.53

Day 2: Saturday, 11 October 2014

14:45 – 16:15 Live Transmission

Live Transmission From Queen Elizabeth Hospital

i-Valve #4

Chairpersons: Chung-seung Chiang (HK), Kwok-keung Ho (HK)
Panelists: Paul TL Chiam (Singapore), Gary SH Cheung (HK), Ryan LY Ko (HK), Shinichi Shirai (Japan), Li-ting Zhang (PR China)

10 mins Taped Case – Venus Aortic Valve Implantation
– Zhen-gang Zhao (PR China)

10 mins Self-expanding versus Balloon-expandable Device Implant – When and How to Choose? ***– Gerald Yong (Australia)***

10 mins Role of CT Surgeon in Complex Access for TAVR ***– Innes YP Wan (HK)***

10 mins LOTUS Valve System and the REPRISE Clinical Program
– Rui Hong (USA)

16:15 – 16:45

Tea Break & Visit Exhibits

16:45 – 18:00 Live Transmission

Live Transmission From Queen Elizabeth Hospital

i-Con #5

Chairpersons: Liang Chow (HK), Sum-kin Leung (HK)
Panelists: Hidehiko Hara (Japan), Kai-sheng Hsieh (Taiwan), Zheng Huang (PR China), U-po Lam (Macau), Jing-ming Wu (Taiwan), Ying-ling Zhou (PR China)

10 mins Percutaneous Closure of ASDs with Relatively Deficient Rims – Tips and Tricks ***– Raman Krishna Kumar (India)***

10 mins PFO: To Close or Not TO Close?
– Jung-sun Kim (South Korea)

HIGHLIGHTS OF TOMORROW (12 October)

- **Live Transmission from Hanoi Medical University Hospital (S421, 09:00 – 15:00)**
- **HKSTENT Complication Forum at APCASH 2014 (S428, 09:00 – 10:30)**
- **Allied Health Session (S428, 11:00 – 15:00)**
- **Best Clinical Case Competition (S421, 15:30 – 17:15)**

Breakout session continued on p.54

Rm S428 **BREAKOUT SESSION (11:00 – 18:00)**

11:00 – 12:30 Partner Session

Joint Session (APACS-APHA / HKCASH / HKSTENT) on TAVR
i-Valve #3

Chairpersons: Anna KY Chan (HK), Shinobu Hosokawa (Japan), Chiu-sun Yue (HK), Jin-gang Zheng (PR China)

15 mins TAVI – The Anaesthetic Prospectives ***– Simon KC Chan (HK)***
15 mins Optimal Techniques for Obtaining Large Caliber Arterial Access ***– Gerald Yong (Australia)***
15 mins Role of Cardiac CT in TAVI ***– Winnie SW Chan (HK)***
15 mins How to Minimize TAVI Related Stroke? ***– Paul TL Chiam (Singapore)***
15 mins The Evolving Indications for TAVI ***– Gary SH Cheung (HK)***

14:45 – 16:15 Breakout

Lessons Learnt from Complications
i-Con #4

Chairpersons: Teiji Akagi (Japan), Hung-tao Chung (Taiwan), Ming-chih Lin (Taiwan), Yu-mei Xie (PR China)

15 mins I Wish I Hadn't Used an VSD Occluder ***– Yu-mei Xie (PR China)***
15 mins My Worst Coarctation Case ***– Do Nguyen Tin (Vietnam)***
15 mins The ASD Occluder is Where? ***– Bharat Dalvi (India)***
15 mins My Worst Transseptal Puncture Case ***– Takashi Matsumoto (Japan)***
15 mins My Worst PDA Case ***– Jou-kou Wang (Taiwan)***

16:15 – 16:45
Tea Break & Visit Exhibits

16:45 - 18:00 Competition

Cross-strait Challenging Case Competition – Session II
Challenging Structural Cases

Judges: Mario Evora (Macau), Shu-kin Li (HK), Kin-ming Tam (HK), Ya-wei Xu (PR China)

10 mins **Invited Case Presentation - My Worst LAA Closure Case** ***– Ya-wei Xu (PR China)***
10 mins **Invited Case Presentation - My Worst TAVI Case** ***– Apostolos Tzikas (Greece)***
10 mins Case 1: Valve-in-valve-in-valve ***– Adrian Cheong (HK)***
10 mins Case 2: Usefulness of 3D Transesophageal Echocardiography in Guiding Transcatheter Closure of Ruptured Sinus of Valsalva Aneurysm Using the Amplatzer Duct Occluder ***– Chun-an Chen (Taiwan)***
10 mins Case 3: Retrieval and Management of an Embolized Aortic Valve ***– Ngai-hong Luk (HK)***
10 mins Case 4: What's Going On? A Common Complication of LAA Occlusion Appeared in a Rare Time ***– Iat-Ion Leong (Macau)***

Day 3: Sunday, 12 October 2014

Rm S421 **PLENARY SESSION (09:00 – 17:30)**

09:00 – 10:30 Live Transmission

Live Transmission From Hanoi Medical University Hospital

i-Con #6

Chairpersons: Mazeni Alwi (Malaysia), Dora ML Wong (HK)
Panelists: Hung-leong Cheung (HK), Pak-cheong Chow (HK), Fen Li (PR China), Vincent WS Ng (HK)

10 mins Perimembranous VSD Closure – When Do We Ask for a Surgical Closure? ***– Xin Li (HK)***
10 mins Transcatheter Closure of Supracristal VSD with the Amplatzer Duct Occluder ***– Yun-ching Fu (Taiwan)***
10 mins How to Close It with an Amplatzer VSD II Occluder? ***– Reda Ibrahim (Canada)***
10 mins How to Close It with a PFM VSD Coil Device? ***– Do Nguyen Tin (Vietnam)***

10:30 – 11:00

Tea Break & Visit Exhibits

11:00 – 12:30 Live Transmission

Live Transmission From Hanoi Medical University Hospital

i-Valve #5

Chairpersons: Zhi-min Du (PR China), Gabriel WK Yip (HK), Yat-yin Lam (HK)
Panelists: Cathy TF Lam (HK), Toshiro Shinke (Japan), Eric CY Wong (HK), Francis SF Yiu (HK)

10 mins CoreValve Evolut R – Technology Review, Clinical Results ***– Paul TL Chiam (Singapore)***
10 mins Outcomes of MitraClip Repair for Degenerative MR ***– Olaf Franzen (Switzerland)***
10 mins Taped Case – MitraClip from Hong Kong ***– Boron CW Cheng (HK)***
10 mins Transcather Mitral Valve Replacement: Taped Case ***– Lars Sondergaard (Denmark)***

12:30 – 13:30

Lunch Symposium *sponsored by St. Jude Medical*

Chairpersons: Steven SL Li (HK), Do Nguyen Tin (Vietnam), Nageswara Rao Koneti (India)

20 mins ACP – Recent Clinical Data ***– Apostolos Tzikas (Greece)***
20 mins ACP – Tips and Trick on Implanting ACP and How to Tackle with Complication ***– Jai-wun Park (Germany)***
20 mins ADO-II in VSD Closure ***– Ting-liang Liu (PR China)***

13:30 – 15:00 Live Transmission

Live Transmission From Hanoi Medical University Hospital

i-Structural #2

continued on p.56

Day 3: Sunday, 12 October 2014

Chairpersons: Kam-tim Chan (HK), Chi-ming Wong (HK)
Panelists: Chi-chung Choy (HK), Wilson WM Chan (HK), Jason LK Chan (HK), Li-wah Tam (HK), Kin-lam Tsui (HK)

10 mins Stent Graft for Aortic Dissection – Cases Sharing ***– Randolph HL Wong (HK)***
10 mins Amulet – A Better Device than ACP? ***– Xavier Freixa (Spain)***
10 mins A Taped Occlutech LAA Case ***– Jai-wun Park (Germany)***
10 mins LAA Closure Under Local Anaesthesia – How Often Feasible? ***– Yat-yin Lam (HK)***

15:00 – 15:30
Tea Break & Visit Exhibits

15:30 – 17:15 Competition

Best Clinical Case Competition

Judges: Reda Ibrahim (Canada), Saibal Kar (USA), Vincent OH Kwok (HK), Patrick TH Ko (HK), Maria SH Lee (HK), Shou-pang Wong (HK), Jou-kou Wang (Taiwan)

10 mins **Invited Case Presentation – My Worst Edwards TAVI Case – *Saibal Kar (USA)***
10 mins **Invited Case Presentation – My Worst ACP Case – *Reda Ibrahim (Canada)***

10 mins Case 1: Novel Minimal Invasive Approach to Close Abnormal Fistulous Connection between Right Pulmonary Artery and Left Atrium Using an Atrial Septal Occluder Device ***– Uditha Indika Hewarathna (Sri Lanka)***
10 mins Case 2: Rehabilitation of Occluded Pulmonary Artery Branch after Operation Using Radiofrequency, Cutting Balloon and Stents ***– Ali Ibrahim Elarabi (Malaysia)***
10 mins Case 3: Management of Fractured Left Pulmonary Artery Stent with Severe Residual Stenosis ***– Robin HS Chen (HK)***
10 mins Case 4: Using the Chronic Total Occlusion (CTO) Technique to Recanulate Totally Occluded Pulmonary Artery in a Patient after Fontan Operation ***– Chi-lun Wu (Taiwan)***
10 mins Case 5: Stroke Prevention with Percutaneous Left Atrial Appendage Transcatheter Occlusion in a Patient after AV and MV Replacement with Persistent Left Atrial Tachycardia, Who Underwent Two RF Ablations of Accessory Pathway and Typical Atrial Flutter ***– Andrzej Hasiec (Poland)***
10 mins Case 6: Transcatheter Atrial Septal Defect Closure with Right Aortic Arch Is it Really Difficult ? ***– Masahide Tokue (Japan)***
10 mins Case 7: Percutaneous Transvenous Mitral Commissurotomy and Atrial Septal Defect Closure using Amplatzer Septal Occlusion Device in Lutembacher's Syndrome: Philippine Heart Center Experience ***– Francis Carl L Catalan (Philippines)***
10 mins Case 8: Calcium: Nightmare in TAVI ***– Jason LK Chan (HK)***

17:15 – 17:30
Prize Presentation & Closing Remarks

Breakout session continued on p.57

Day 3: Sunday, 12 October 2014

Rm S428 **BREAKOUT SESSION (09:00 – 15:00)**

09:00 – 10:30 Partner Session

Joint Session (HKSTENT & Montreal Heart Institute) on Complication

Chairpersons: Reda Ibrahim (Canada), Michael KY Lee (HK), Ping-tim Tsui (HK), Edmond ML Wong (HK)

Panelists: Alan KC Chan (HK), Jason LK Chan (HK), Xavier Freixa (Spain), Tak-sun Tse (HK), Kin-lam Tsui (HK), Apostolos Tzikas (Greece) Simon CC Lam (HK), Yat-yin Lam (HK)

15 mins Complicated Percutaneous Repair of a Para-valvular Mitral Leak ***– Kevin KH Kam (HK)***

15 mins Tips and Tricks to Reduce Access Site Complications ***– Paul TL Chiam (Singapore)***

15 mins Emergency TAVI: Does It Exist? Is the Risk Higher? ***– Gerald Yong (Australia)***

15 mins My Difficult VSD Cases ***– Nageswara Rao Koneti (India)***

10:30 – 11:00

Tea Break & Visit Exhibits

11:00 – 12:30 Allied Heath

Allied Health Session – Part I

Chairpersons: Sek-ying Chair (HK), Ling-ling Cheung (HK)

5 mins Introduction by President of HKCNA ***– Kam-wai Lai (HK)***

30 mins Essential Cardiac Anatomy Relevant to Structural Heart Disease Intervention ***– Boron CW Cheng (HK)***

30 mins What You Need to Know for Complication Management in Structural Heart Intervention (From Instrument to Procedure) ***– Kam-wai Lai (HK)***

13:30 – 15:00 Allied Heath

Allied Health Session – Part II

Chairpersons: Sek-ying Chair (HK), Adrian Cheong (HK)

30 mins Nursing Management on LAAO ***– Bik-yi Wong (HK)***

30 mins Anaesthetic Perspective in Managing Patient Inside Cath Lab ***– Eric HK So (HK)***

15:00 – 15:30

Tea Break & Visit Exhibits

Training Campus

Various workshops will feature the latest techniques and technologies by providing interactive product demonstrations and hands-on sessions to a focused group of participants.

S427 Abbott Vascular Training Workshop

MitraClip: The only transcatheter edge-to-edge mitral valve repair concept in the world. Join the workshop for therapy introduction and heart model training.

Therapy Introduction: 15 mins
Heart Model Demonstration: 30 mins

S426 Boston Scientific Training Workshop

Come join us at the Boston Scientific Traininig Workshop for product demonstration and simulation experience with currently most advanced technologies. You may have hands-on experience with our specialists with our **Lotus™ Valve System**, **Watchman™ LAAO Device** and **Vessix™ Renal Denervation System**! Don't miss it.

Workshop: Get your hands-on on Lotus, Watchman and Vessix
Talk: Lotus - The power of control

S429 St. Jude Medical Training Workshop

Amplazter Cardiac Plug (LAAO - ACP) Stimulator Workshop

Overview of St. Jude Medical Left Atrial Appendage Occluder - ACP in terms of overall procedure with focus on echo, device sizing and in-servicing via support of portable simulator hands-on.

S424 Lifetech Scientific Training Workshop

We would like to invite you to join us at the Lifetech Scientific training workshop for the latest solution to Congenital and Structure Heart Disease.

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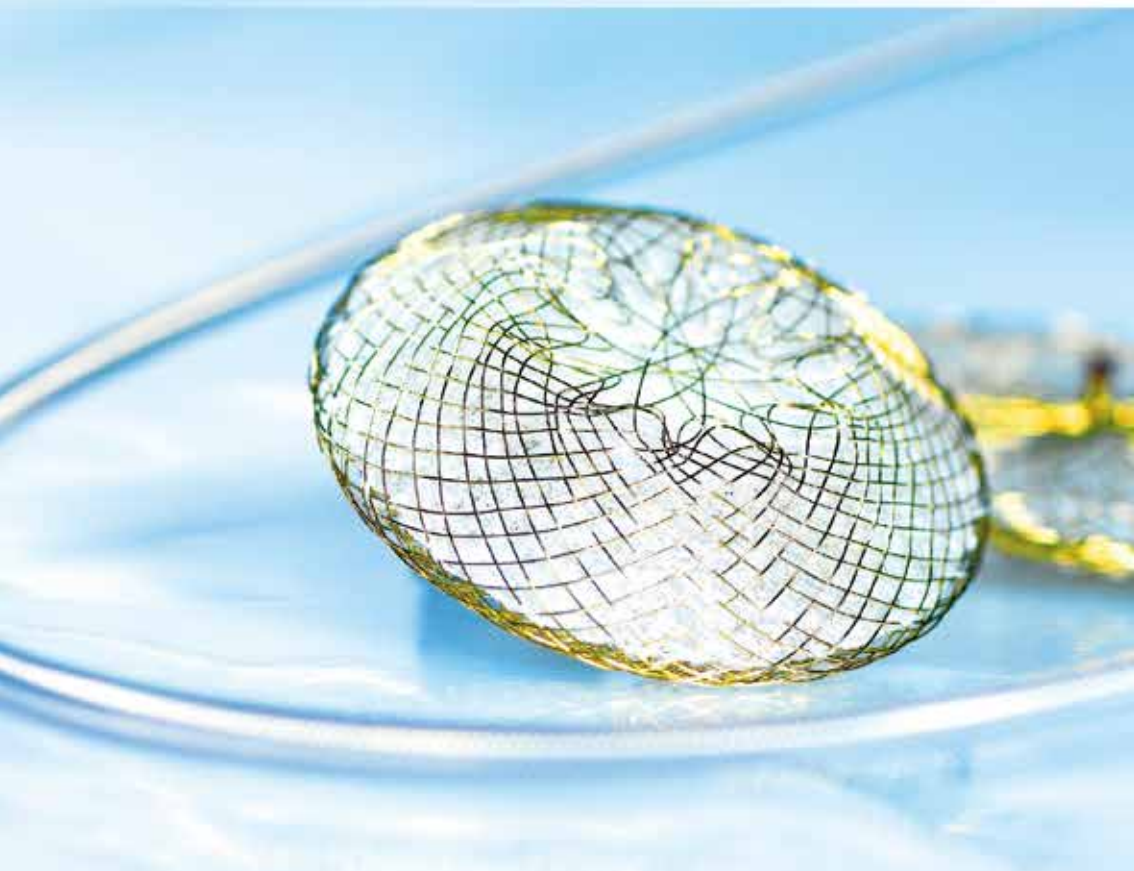

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Shanghai Children's Medical Center, Shanghai

MPA STENTING

Live Case number: #1	10 October 2014, 09:00 – 12:30

1. **Live Case Operators:**
   Wei Gao (PR China)
   Ziyad Hijazi (Qatar)

2. **History:**
   M/6 yrs, D-TGA, S/P Switch procedure 6 years ago, MPA stenosis.

3. **Physical Findings:**
   Grade 3/6 systolic murmur over 2nd-4th left sternal border.

4. **Investigations:**
   Echo (TTE/TEE):
   D-TGA, S/P Switch, Severe MPA stenosis (ΔP 82mmHg).

   MRI scan:
   MPA 7.6mm, ascending aortic dilation.

5. **Intended Intervention:**
   MPA stenting.

Shanghai Children's Medical Center, Shanghai

RPA STENTING

Live Case number: #2	10 October 2014, 09:00 – 12:30

1. **Live Case Operators:**
   Ting-liang Liu (PR China)
   Ziyad Hijazi (Qatar)

2. **History:**
   F/6 yrs, S/P PA/VSD 5 years ago, Re-Stenosis, S/P RVOT reconstruction 2 years ago, RPA stenosis.

3. **Physical Findings:**
   Grade 3/6 systolic murmur 2nd - 4th left sternal border.

4. **Investigations:**
   Echo (TTE/TEE):
   S/P PA/VSD, severe RPA stenosis (Δp 58mmHg).

   MRI scan:
   RPA stenosis: Proximal and distal diameters: 4.9 and 8.3mm respectively.

5. **Intended Intervention:**
   RPA Stenting.

Shanghai Children's Medical Center, Shanghai

RPA/LPA STENTING

Live Case number: #3 | **10 October 2014, 09:00 – 12:30**

1. **Live Case Operators:**
   Ziyad Hijazi (Qatar)
   Wei Gao (PR China)

2. **History:**
   M/9 yrs, S/P TOF repair, severe RPA/LPA stenosis.

3. **Investigations:**
   Echo (TTE/TEE):
   - RPA stenosis: Peak gradient 96mmHg.
   - LPA stenosis: Peak gradient 80mmHg.

4. **Intended Intervention:**
   RPA/LPA Stenting.

Shanghai Children's Medical Center, Shanghai

TRANSCATHETER CLOSURE OF RESIDUAL SHUNTS

Live Case number: #4 | **10 October 2014, 09:00 – 12:30**

1. **Live Case Operators:**
   Wei Gao (PR China)
   Ting-liang Liu (PR China)

2. **History:**
   M/2 yrs, multiple muscular VSD/ASDs with repair, postoperative residual shunts with pulmonary hypertension.

3. **Investigations:**
   Echo (TTE/TEE):
   S/P muscular VSD patch repair, multiple residual defects overall size 2.1cm.

4. **Intended Intervention:**
   Transcatheter closure of residual shunts.

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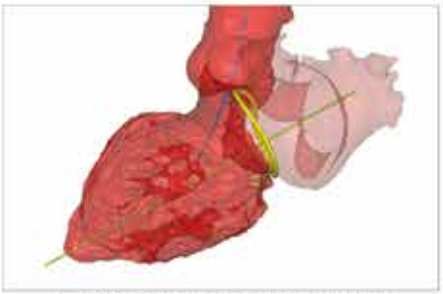

Aortic root and mitral valve plane prior to measuring

3D printed model of calcified aortic root for complex case planning

For more information: biomedical.materialise.com or mimics@materialise.be

Fuwai Hospital, Beijing

PERCUTANEOUS PULMONARY VALVE IMPLANTATION

Live Case number: #5 | **10 October 2014, 14:00 – 15:30**

1. Live Case Operators:

Qi-ling Cao (Qatar)
Xiang-bin Pan (PR China)
Worakan Promphan (Thailand)
Ge-jun Zhang (PR China)

2. History:

- F/14 yrs; Weight: 60Kg; Height:158cm.
- Percutaneous pulmonary valve balloon dilatation in year 2008.
- Severe pulmonary regurgitation after percutaneous pulmonary valve balloon dilatation.

3. Family History:

There was no relevant family history.

4. Physical Findings:

Both systolic and diastolic murmurs heard at the pulmonary area.

5. Investigations:

- ECG showed sinus arrhythmia.
- Chest X-ray showed right ventricular enlargement and pulmonary artery broadening.
- Echocardiography showed severe pulmonary regurgitation and RV dilation.

Cardiac CT:

- Pulmonary valve ring diameter: 19mm.
- Main pulmonary artery diameter: 18mm.
- Left pulmonary artery diameter: 19mm.
- Right pulmonary artery diameter: 15mm.

Cardiac MRI:

- Right ventricular enlargement (approximate 32mm transverse diameter during diastole).
- Severe pulmonary regurgitation.
- Left heart function: LVEF=53.7%; CO =3.22L/min; EDV =92.1ml.
- Right heart function: RVEF=36.8%; CO=3.29L/min; EDV=137.3ml.

6. Intended Intervention:

Percutaneous pulmonary valve implantation.

Fuwai Hospital, Beijing

TRANSFEMORAL TRANSCATHETER AORTIC VALVE REPLACEMENT (TAVR)

Live Case number: #6 | **10 October 2014, 16:00 – 17:30**

1. Live Case Operators:

Yong-jian Wu (PR China)
Yue-jin Yang (PR China)

2. History:

- M/67 yrs; Weight: 40Kg; Height: 160cm.
- Suffering angina pectoris and reduced exercise tolerance for 2 years.
- Diagnosed to have severe aortic valve stenosis and given medical therapy.
- Severe COPD.
- History of appendectomy in 1980.
- The patient was diagnosed with "Severe aortic valve stenosis, pulmonary arterial hypertension, NYHA Class III, severe COPD."

3. Family History:

There was no relevant family history.

4. Physical Findings:

A systolic murmur heard at the aortic valve area.

5. Investigations:

- ECG showed sinus rhythm.
- Chest X-ray showed left ventricular enlargement and pulmonary congestion.
- Echocardiography showed severe aortic valve stenosis, the mean gradient is 86mmHg.
- Pulmonary arterial hypertension. LVED: 39mm, LVEF: 60%.

Cardiac CT:

- LAD stenosis <50%.
- Bicuspid aortic valve with non-calcified raphe.
- The annulus diameters: 24 x 26.5mm.
- Ascending aortic diameter: 44mm.
- The heights of LMS & RCA are 11mm and 12.6mm from aortic annulus, respectively.

6. Intended Intervention:

Transfemoral TAVR.

NO INR monitoring[1]

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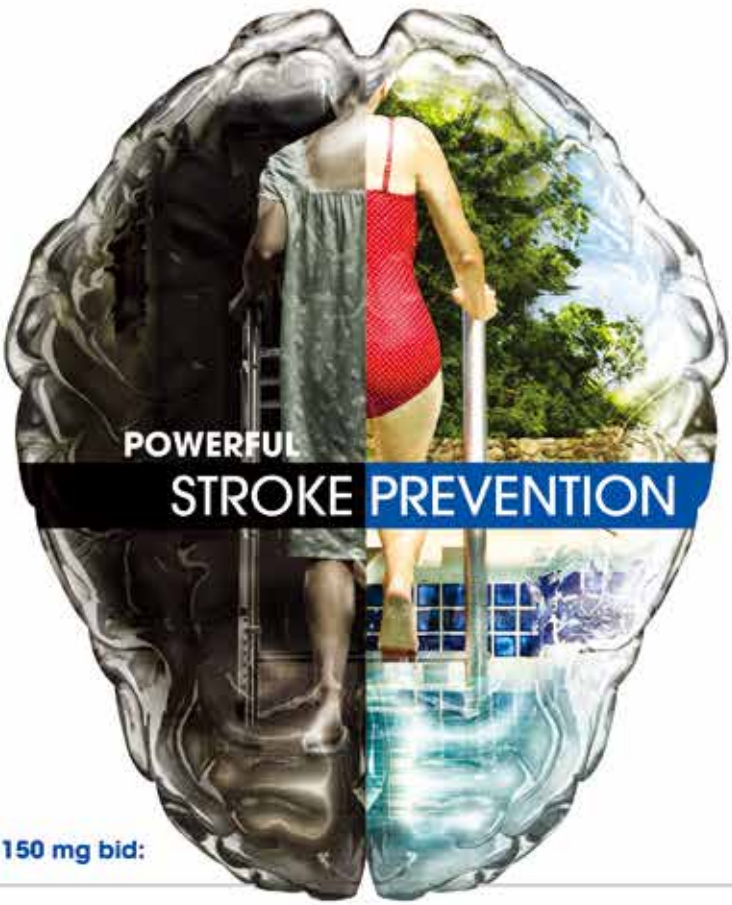

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-74%
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-59%
SIGNIFICANTLY LOWER RATE of INTRACRANIAL BLEEDING
vs warfarin[1-3]
p < 0.001

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Reference: 1. Pradaxa® Prescribing Information, HK. 2. Connolly SJ et al. Dabigatran versus Warfarin in Patients with Atrial Fibrillation. *N Engl J Med.* 2009;1139-1151. 3. Connolly SJ et al. Newly Identified Events in the RE-LY Trial. *N Engl J Med.* 2010;363:1875-1876.

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Queen Elizabeth Hospital, Hong Kong

AORTIC STENTING

Live Case number: #7 | **11 October 2014**

1. Live Case Operators:

Ziyad Hijazi (Qatar)
Dora May-ling Wong (HK)
Maria Shuk-han Lee (HK)
Louisa Kam-ha Poon (HK)
Anaesthetists: Douglas King-tak Fok (HK), Yu-fat Chow (HK)

2. History:

- M/ 14 yrs.
- Coarctation (CoA) diagnosed at age of 7.
- Percutaneous balloon dilation in 2007.
- Developed residual CoA, pseudoanuerysm and hypertension.
- Other problems: Obesity, hyperlipidaemia.

3. Physical Findings:

BW: 90.2Kg; Height: 169cm; BP: 126/62mmHg.

4. Investigations:

- Chest X-ray: Normal, ECG: Sinus rhythm, LV hypertrophy.
- Echo: Residual gradient 30mmHg with diastolic runoff. Aortic arch 12mm. Coarctation: narrowest diameter 6mm.
- MRI: Resdiual coarctation with pseudoaneurysm, isthmus 13mm.

5. Intended Intervention:

Aortic stenting.

Queen Elizabeth Hospital, Hong Kong

ATRIAL SEPTAL DEFECT CLOSURE

Live Case number: #8 | **11 October 2014**

1. Live Case Operators:

Lars Sondergaard (Denmark)
Jason Leung-kwai Chan (HK)
Alan Ka-chun Chan (HK)
Eric Chi-yuen Wong (HK)
Kam-tim Chan (HK)

2. History:

- F/21 yrs, University student.
- Good past health.
- Decreased exercise tolerance with a heart murmur detected on physical examination.
- No History of stroke/ persistent fever.

3. Family History:

Unremarkable.

4. Investigations:

ECG: Normal sinus rhythm.

Echo (TTE/TEE):

Large atrial septal defect (ASD), around 2.6x3.7cm in diameter (3D measurement), left to right shunt, presence of all 4 rims (minimum 5mm), dilated RV, moderate TR, RVSP: ~43mmHg, all pulmonary veins were drained into LA.

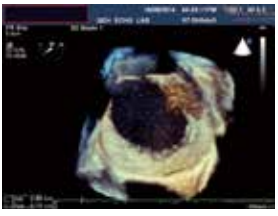
5. Intended Intervention:

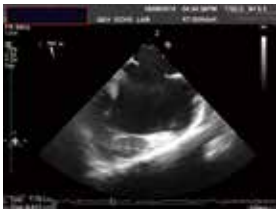
Percutaneous closure of ASD (Occlutech/ Amplatzer device) under ICE guidance.

6. Potential difficulties:

- Large ASD.
- The patient strongly requested trial of percutaneous closure before considering surgical repair.

7. Diagrams / Images:



Queen Elizabeth Hospital, Hong Kong

STENTING OF STENOSED BAFFLE POST CORONARY SINUS ASD REPAIR

Live Case number: #9 | **11 October 2014**

1. Live Case Operators:

Ziyad Hijazi (Qatar)
Dora May-ling Wong (HK)
Maria Shuk-han Lee (HK)
Louisa Kam-ha Poon (HK)
Anaesthetists: Douglas King-tak Fok (HK), Yu-fat Chow (HK)

2. History:

- F/19 yrs.
- Retinoblastoma of left eye with enucleation 1996.
- Coronary sinus ASD repaired by Dr. C Brizard in 2004.
- Developed baffle stenosis.

3. Physical Findings:

- Pink BW 63.8Kg; BP 102/62mmHg.
- Heart sounds: Normal.

4. Investigations:

- Chest X-ray and ECG normal.
- Cardiac catheterization (2007): Moderate baffle stenosis.
- CT coronary angiography (2009): Baffle narrowing to 3mm.

5. Intended Intervention:

Stenting of the stenosed baffle post coronary sinus ASD repair.

Queen Elizabeth Hospital, Hong Kong

TRANSCATHETER AORTIC VALVE REPLACEMENT (TAVR)

Live Case number: #10 | **11 October 2014**

1. Live Case Operators:

Lars Sondergaard (Denmark)
Michael Kang-yin Lee (HK)
Kam-tim Chan (HK)
Jason Leung-kwai Chan (HK)
TEE: Eric Chi-yuen Wong (HK)
Anaesthetists: Douglas King-tak Fok (HK) / Eric Hang-kwong So (HK)
Cardiac Surgeons: Vincent Wing-shun Ng (HK) / Hung-leong Cheung (HK)

2. History:

- M/72 yrs, ADL Independent.
- Chronic rheumatic heart disease with mitral valve replacement in 1984.
- Atrial fibrillation on warfarin.
- History of bleeding gastric ulcer, healed.
- Recurrent heart failure with hospital admission, iron deficiency anemia with normal finding on OGD, stool for occult blood –ve.
- NYHA FC III.

3. Investigations:

ECG: Atrial fibrillation.

Echo (TTE/TEE):

- LV function mildly impaired, EF~50%.
- Hugh LA, smoky LA, no definite thrombus.
- Severe aortic stenosis, mean gradient: 46mmHg, AVA: ~0.41 cm2.
- Aortic annulus diameter: ~25mm, moderate AR.
- MVR function satisfactory, mean gradient across MVR~3mmHg.
- Mild para-MVR leak on both sides.
- Moderate TR with Pul HT.

Coronary angiogram: Normal coronary angiogram

CT aortogram:

- Poor image as the presence of MVR.
- Aortic annulus diameter:~ 24x30 mm, different to measure the perimeter.
- Minimal diameter of right femoral artery: 6.0mm, eccentric calcium.
- Minimal diameter of left femoral artery: 5.2mm, eccentric calcium.
- **Logistic Euro-score:** 24.51%
- **STS score:** 7.39%

4. Intended Intervention:

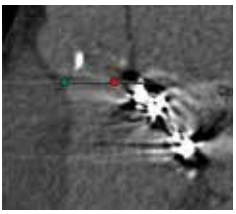
TAVR (CoreValve), femoral approach (consensus from Heart team).

5. Potential Difficulties:

- No clear measurement from CT aortogram.
- Short distance between aortic annulus and MVR.
- 3D printing model may help.

6. Diagrams/ Images

Aortogram



Short distance between MVR and Aortic annulus (CT image)

TEE measurement on aortic annulus

Queen Elizabeth Hospital, Hong Kong

MITRACLIP PERCUTANEOUS MITRAL VALVE REPAIR

Live Case number: #11 | **11 October 2014**

1. Live Case Operators:

Olaf Franzen (Switzerland)
Boron Cheung-wah Cheng (HK)
Steven Siu-lung Li (HK)
TEE: Francis Siu-fung Yiu (HK)
Anaesthetists: Douglas King-tak Fok (HK) / Eric Hang-kwong So (HK)

2. History:

- F/82 yrs, ADL Independent.
- Hypertension, known posterior mitral valve prolapse with severe MR.
- Recurrent heart failure with hospital admission, decrease exercise tolerance.
- NYHA FC III.

3. Investigations:

Echo (TTE/TEE):

- LV systolic function satisfactory, EF~60%, normal LV size.
- Degenerative MV.
- Prolapsed P3 with severe eccentric MR.
- Flail gap: 5-6mm, flail width: 12-13mm.
- No MS/AS.
- Trivial AR.
- Moderate TR with Pul HT.
- Logistic Euro-score: 17.51%.

4. Intended Intervention:

MitraClip (consensus from Heart team, high risk surgical candidate)

5. 5) Potential Difficulties:

Prolapsed P3

Queen Elizabeth Hospital, Hong Kong

LEFT ATRIAL APPENDAGE OCCLUSION (LAAO)

Live Case number: #12 | **11 October 2014**

1. Live Case Operators:

Reda Ibrahim (Canada)
Jason Leung-kwai Chan (HK)
Michael Kang-yin Lee (HK)
Alan Ka-chun Chan (HK)
TEE: Eric Chi-yuen Wong (HK)
Anaesthetists: Douglas King-tak Fok (HK) / Eric Hang-kwong So (HK)

2. History:

- F/70 yrs, Walks with stick.
- Nasopharyngeal carcinoma with radiotherapy 20 years ago, hypothyroidism on T4, hypertension, old CVA, AF on warfarin.
- Recurrent falls, history of head injury with right frontal subdural hemorrhage.
- CHA2SD2-VASC score: 5.
- HAS-Bled score: 4.

3. Investigations:

ECG: Atrial fibrillation.

Echo (TTE/TEE):

- Intact atrial septum.
- Mild MR/TR, no AS/MS.
- LVEF: ~60%.
- LAA measurements please refer to slides during the procedure.

4. Intended Intervention:

LAAO

Queen Elizabeth Hospital, Hong Kong

LEFT ATRIAL APPENDAGE OCCLUSION (LAAO)

Live Case number: #13 | **11 October 2014**

1. Live Case Operators:

Saibal Kar (USA)
Jason Leung-kwai Chan (HK)
Michael Kang-yin Lee (HK)
Alan Ka-chun Chan (HK)
TEE: Eric Chi-yuen Wong (HK)
Anaesthetists: Douglas King-tak Fok (HK) / Eric Hang-kwong So (HK)

2. History:

- M/73 yrs, ADL Independent.
- Hypertension, diabetes mellitus, AF on warfarin.
- Jan 2014: Upper GI bleeding, OGD: chronic DU, biopsy: gastritis, H. pylori –ve.
- Warfarin was stopped since then, only on aspirin + PPI.
- CHA2SD2-VASC score: 3.

3. Investigations:

ECG: Atrial fibrillation.

Echo (TTE/TEE):

- Intact atrial septum, mild to moderate MR, mild TR, no AS/MS.
- LV EF 60%.
- LAA measurements please refer to slides during procedure.

CT cardiac:

- Images please refer to slides during procedure.

4. Intended Intervention:

LAAO.

5. Diagrams / Images:

TEE image of LAA

CT of LAA

Queen Elizabeth Hospital, Hong Kong

PERCUTANEOUS EMBOLIZATION OF CORONARY FISTULA

Live Case number: #14 | **11 October 2014**

1. Live Case Operators:

Reda Ibrahim (Canada)
Jason Leung-kwai Chan (HK)
Gabriel Wai-kwok Yip (HK)
Kam-tim Chan (HK)

2. History:

- M/64 yrs; Welder; Chronic smoker.
- Obesity, Impaired glucose tolerance (IGT), COPD, OA knees, Permanent AF on aspirin.
- Coronary arterio-venous fistula presented with progressive dyspnea on exertion.

3. Investigations:

Echo (TTE/TEE) (24 Jan 2013):

- Coronary AVF to MPA. Small PFO.
- Dilated LV. LVEDd/Ds: 6.6/5.2cm, LVEF~40%.

Echo (TTE) (29 May 2014):

- Biatrial enlargement. Dilated ascending aorta~4cm at RPA level.
- Mild MR, Mod TR. RVSP~42mmHg(SBP~117mmHg).
- Moderately dilated RV with fair systolic function (TAPSE~1.6cm; Normal≥1.6cm).
- Dilated LV with mild systolic impairment. LVEDd/Ds: 6.7/5.4cm, LVEF~40%.
- Normal pericardium.

Right/Left heart catheterization (31 Jan 2013):

- Significant O2 saturation step-up at MPA. Qp: Qs= 1.8.
- Mean MPA pressure~19mmHg. PCWP~12mmHg.
- LMS: Normal and large.
- LAD: proximal LAD fistula draining into MPA.
- LCx: Normal.
- RCA: Giant fistula from conus branch (large aneurysm) to MPA (suspected two openings).

Coronary CT angiography (27 Feb 2013):

- Coronary fistulas from conus branch of RCA and proximal LAD draining into MPA.
- Probably also bronchial artery to left coronary artery fistula.

4. Intended Intervention:

Percutaneous embolization of coronary fistula.

5. 5) Potential Difficulties:

Serpinginous conus branch fistula forming a large aneurysm draining into MPA.

Most Taken and Recommended Statin by HK Physicians[1]

According to 2013 ACC/AHA Guideline, statin therapy should focus on ASCVD risk reduction.[2]

MIRACL[3]	SPARCL[4]	TNT[5]	ASCOT-LLA[6]	CARDS[7]	ARMYDA[8]	PROVE-IT[9]	IDEAL[10]	GREACE[11]
✓	✓	✓	✓	✓	✓	✓	✓	✓

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- Efficacious LDL-C lowering[12,13]
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*Including kidney transplant patients

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Hanoi Medical University Hospital, Hanoi

AORTIC COARCTATION STENTING

Live Case number: #15 | **12 October 2014, 09:00 – 15:00**

1. Live Case Operators:

Nguyen Lan Hieu (Vietnam)
Doan Duc Dung (Vietnam)
Le Van Tu (Vietnam)
Tran Bao Trang (Vietnam)
Bui Quang Thang (Vietnam)

2. History:

- M/15 yrs.
- Chief complaint: Fatigue, dyspnea for several months, NYHA class 2.

3. Past Medical History:

- Diagnosis for severe aortic coartation after birth.
- Balloon angioplasty 2 times before.

4. Physical Findings:

- No symptoms of heart failure.
- A systolic murmur in the left infraclavicular area.
- Arterial pressures: upper body 135/70 mmHg; lower body 100/60 mmHg.

5. Investigations:

ECG:

Echocardiograms:

- Severe aortic coartation: Systolic gradient 80/30mmHg.
- Isthmus diameter: 7mm.
- Ascending aorta diameter: 25 mm.
- Descending aorta diameter: 12mm.
- LVDd:39mm, LVEF 66%.

6. Intended Intervention:

- Aortic coarctation stenting.

Hanoi Medical University Hospital, Hanoi

PERCUTANEOUS TRANSVENOUS MITRAL COMMISSUROTOMY (PTMC)

Live Case number: #16 | **12 October 2014, 09:00 – 15:00**

1. Live Case Operators:

Nguyen Lan Hieu (Vietnam)
Doan Duc Dung (Vietnam)
Le Van Tu (Vietnam)
Tran Bao Trang (Vietnam)
Bui Quang Thang (Vietnam)

2. History:

- F/47 yrs.
- Chief complaint: Dyspnea for several months, NYHA Class 3.
- Past medical history: Unremarkable.

3. Physical Findings:

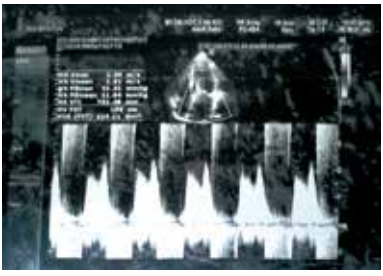
- Mild angina pectoris.
- Loud S1, diastolic murmur 3/6 severity.
- No signs of right heart failure.

4. Investigations:

ECG:

Echocardiograms

- Severe mitral stenosis : PHT area: 1.1 cm2, 2D area: 1.2 cm2, Wilkin's score 7 points.
- Pulmonary arterial systolic pressure: 40 mmHg.



5. Intended intervention:

PTMC.

Hanoi Medical University Hospital, Hanoi

TRANSCATHETER CLOSURE OF AORTO-LA FISTULA

Live Case number: #17 | **12 October 2014, 09:00 – 15:00**

1. Live Case Operators:

Nguyen Lan Hieu (Vietnam)
Doan Duc Dung (Vietnam)
Le Van Tu (Vietnam)
Tran Bao Trang (Vietnam)
Bui Quang Thang (Vietnam)

2. History:

- F/2 yrs.
- An accidental diagnosis for congenital heart defect by during hospitalization for pneumonia at 2 month old.
- Medical history of pregnancy and growth: Normal.

3. Physical Findings:

- 11kg, normal mental and physical development.
- Left sternal border systolic murmur 3/6 severity.
- No signs of heart failure.

4. Investigations:

Echocardiograms

- Fistula from non-coronary cusp of aorta to left atrium, diameter: 2mm, diastolic gradient: 50mmHg.
- LA diameter: 18mm, LVDd: 32mm.
- Tricuspid regurgitation: Moderate.
- Pulmonary arterial systolic pressure: 28 mmHg.

5. Intended intervention

Transcatheter closure of aorto-LA fistula.

Hanoi Medical University Hospital, Hanoi

CLOSURE OF PERIMENBRANOUS VSD

Live Case number: #18 | **12 October 2014, 09:00 – 15:30**

1. Live Case Operators:

Nguyen Lan Hieu (Vietnam)
Doan Duc Dung (Vietnam)
Le Van Tu (Vietnam)
Tran Bao Trang (Vietnam)
Bui Quang Thang (Vietnam)

2. History:

- F/18 yrs.
- Chief complaint: Dyspnea for several months.
- Medical history: Unremarkable.

3. Physical Findings:

- Left sternal border systolic murmur 3/6 severity.
- No signs of heart failure.

4. Investigations:

ECG:

Echocardiograms

- Perimenbranous VSD: Diameter 5mm, gradient: 120 mmHg.
- Distance from VSD to aortic rim: 5mm.
- LVEDd: 46 mm.
- PA systolic pressure: 30 mmHg.

5. Intended intervention:

Closure of perimembranous VSD

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Program Director

Hidehiko Hara, MD, PhD

Division of Cardiovascular Medicine, Toho University Ohashi Medical Center

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EXHIBITON GUIDE

Exhibition Guide

Abbott Vascular | Booth No. 11

Address: Suite 2201-3, 22/F Mass Mutual Tower, 38 Gloucester Road, Wanchai, Hong Kong
Tel: (852) 2827 2338 | **Website:** www.abbott.com

Abbott Vascular, a division of Abbott Laboratories, manufactures and distributes cutting edge products for vascular disease treatment. Interventional portfolio for cardiology includes Absorb, the world's first drug eluting fully bioresobable vascular scaffold system, and XIENCE family of drug-eluting stents. The company also provides full range of devices for peripheral intervention, which include Supera self-expanding stent. Abbott Vascular expanded its footprint into valve therapy with MitraClip, the world's first minimally invasive device for mitral valve repair.

AstraZeneca Hong Kong Limited | Booth No. 7

Address: 18/F Shui On Centre, 6-8 Harbour Road, Wanchai, Hong Kong
Tel: (852) 2420 7388 | **Website:** www.astrazeneca.com.hk

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Bayer HealthCare Limited | Booth No. 4

Address: Nos. 803-808, 8/F Shui On Centre, 6-8 Harbour Road, Wanchai, Hong Kong
Tel: (852) 2814 7337 | **Website:** http://healthcare.bayer.com.hk/

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We concentrate on the following major therapeutic groups in which we make fundamental contributions to medical progress:
- Cardiovascular and blood diseases
- Oncological diseases
- Ophthalmology
- Women's healthcare

Boston Scientific HK Ltd. | Booth No. 13

Address: 12/F, W Square, 318 Hennessy Road, Wan Chai, Hong Kong
Tel: (852) 2960 7100 | **Website:** www.bostonscientific.com

Boston Scientific is dedicated to transforming lives through innovative medical solutions that improve the health of patients globally.

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Eli Lilly Asia, Inc. | Booth No. 5

Address: Unit 3203-08, 32/F, ACE Tower, Windsor House, 311 Gloucester Road, Causeway Bay, Hong Kong
Tel: (852) 2572 0160 | **Website:** http://www.lilly.com.hk

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Lifetech Scientific | Booth No. 9

Address: Cybio Electronic Building, Langshan 2nd Street, North Area of High-tech Park, Nanshan District, Shenzhen 518057, PR China
Tel: (86-755) 86026250-8813 | **Website:** http://www.lifetechmed.com

Lifetech is a leading developer, manufacturer and vendor of advanced minimally invasive medical devices for cardiovascular and peripheral vascular diseases and disorders.

Lifetech was founded in 1999 and is now the second largest provider of congenital heart defect occluders in the world, the largest provider to BRIC countries and the leading developer and manufacturer of minimally invasive medical devices in China. In 2011, Lifetech was listed on the Hong Kong Stock Exchange. Lifetech has a broad portfolio of proprietary, minimally invasive cardiovascular and peripheral medical devices.

Materialise | Booth No. 15

Address: Materialise China, Room 214, Building 1, 1933 Old Millfun, No.10 Shajing Road, Hongkou District, Shanghai – China
Tel: +86 21 5831 2406 | **Website:** www.biomedical.materialise.com

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Novartis Pharmaceuticals (HK) Ltd. | Booth No. 3

Address: 27/F, 1063 King's Road, Quarry Bay, Hong Kong
Tel: (852) 2882 5222 | **Website:** www.novartis.com.hk

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For more information, please visit http://www.novartis.com.

Occlutech International | Booth No. 14

Address: La Cours gata 4, S-252 31 Helsingborg, Sweden
Tel: +46 42 400 8060 | **Website:** www.occlutech.com

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Philips Electronics Hong Kong Limited | Booth No. 8

Address: 6/F, Core Building 1, 1 Science Part East Avenue, Hong Kong Science Park, Shatin, N.T., Hong Kong
Tel: (852) 2821 5888 | **Website:** http://www.philips.com.hk/

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St. Jude Medical (Hong Kong) Limited | Booth No. 10

Address: Suite 1608, 16/F., Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
Tel: (852) 2996 7688 | **Website:** www.sjm.com

St. Jude Medical is a global leader in cardiac and neurological device technology, with a product portfolio built through internal development and strategic acquisitions. Founded in 1976 and headquartered in St. Paul, Minnesota, we have four major focus areas: cardiac rhythm management, atrial fibrillation, cardiovascular and neuromodulation.

Our product portfolio includes implantable cardioverter defibrillators (ICDs), cardiac resynchronization therapy (CRT) devices, pacemakers, electrophysiology catheters, mapping and visualization systems, products for structural heart and vascular diseases, PCI optimization systems, and spinal cord stimulation and deep brain stimulation devices.

Vascular Innovations Co. Ltd. | Booth No. 2

Address: 88/38 Moo 1, 345 Road, Pakkret, Nonthaburi – 11120, Thailand
Tel: (66) 25982361 | **Website:** http://www.vascularinnovations.com

Vascular Innovations Co. Ltd., is a design, development and manufacturing company focused on the Structural Heart Disease market place. The primary focus is to design products that facilitate the correction of the defects in the heart which includes both congenital and adults. These defects include malformations, degeneration of structures or mechanical defects.

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VI is in clinical trials with a range of technologies which use the percutaneous approach for the replacement of the diseased and degenerated valves in the heart. The first of the commercial available products called "HYDRA" TAVI prostheses is expected to be launched shortly.

Venus MedTech Inc. | Booth No. 1

Address: Unit 201, Servyou East Building, NO.3738 Nanhuan Road, Binjiang District, Hangzhou City, Zhejiang Province, PR China
Tel: (86-571) 87772183

Venus MedTech (Hangzhou) Inc., established in 2009, as Hangzhou High-tech Enterprise, is engaged in R&D of new technology and new process of Percutaneous Heart Valve. Our company is mainly engaged in development and transfer of Percutaneous Medical Devices. We do not only own the international advanced technology and related patents in these fields, but also own the advanced business philosophy, business model, and the R&D capability of new technology and new process of Percutaneous Medical Devices. Based on the understanding of human anatomy and pathology management structure, our company is committed to the treatment of patients with minimally invasive techniques, to reduce side effects and complications of the devices.

ZenoMed | Booth No. 6

Address: RM 1802, B Building, Cyber Tower, No.2 Zhongguancun South Ave., Beijing, China 100086
Tel: (86)-10-82512822 | **Website:** www.zenomed.com

ZenoMed mainly engages in providing high-technology medical equipment to the Chinese market. A sound distribution and service network has been formed with over 15 branch offices throughout China and over 100 employees.

Note

Note

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