

CHENG HSIN *Live*

# TAIPEI VALVE SUMMIT 2020

06 | 12 - 14

VIRTUAL CONFERENCE



**CHENG HSIN  
GENERAL HOSPITAL**

5F INTERNATIONAL CONVENTION CENTER  
NO.45 CHENG-HSIN ST. BEITAO, TAIPEI, TAIWAN

主辦 |  振興醫療財團法人振興醫院 協辦 |  台灣介入性心臟血管醫學會

 台灣胸腔及心臟血管外科學會

# Faculty List

## Overseas Faculty



Alex Pui-Wai LEE  
Hong Kong



Ariel Finkelstein  
Israel



Alain Cribier,  
France



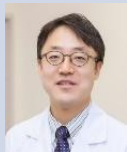
David Smyth  
New Zealand



Daniel Tai-  
Leung Chan,  
Hong-Kong



Didier Tchétché,  
France



Duk-Woo Park,  
Korea



Edgar Tay Lik Wui,  
Singapore



Jian Ye,  
Canada



Jimmy Kim Fatt Hon,  
Singapore



Kentaro Hayashida,  
Japan



Kiyuk Chang  
Korea



Lars Søndergaard,  
Denmark



Luk Ngai Hong  
Vincent,  
Hong Kong



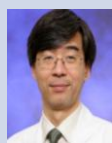
Michael Kang-Yin Lee  
Hong Kong



Martin Ng,  
Australia



Maurizio Taramasso,  
Switzerland



Myeong-Ki Hong,  
Korea



Nguyen Van Phan,  
Vietnam



Simon Cheung-  
Chi Lam, Hong Kong

# Faculty List

## Overseas Faculty



Toru Naganuma,  
Japan



Tian-Xiang Gu,  
China



Tirone E. David,  
Canada



Thomas Modine,  
France



Vinayak (Vinnie)  
Bapat, USA



Xu Meng,  
China



Ying-Qiang Guo,  
China



Zhang Hai-bo,  
China

# Faculty List

## Domestic Faculty



Chung-Yi Chang,  
Taipei



Chi-Jen Chang,  
Linkou



Chun-Chi Chen,  
Linkou



I-Chen Chen,  
Taipei



I-Chang Hsieh,  
Linkou



Jeng Wei,  
Taipei



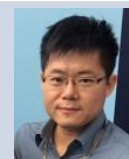
Jou-Kou Wang,  
Taipei



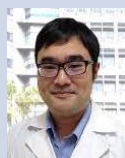
Jung-Cheng Hsu,  
Taipei



Kuo-Chen Lee,  
Taipei



Ke-Wei Chen,  
Taichung



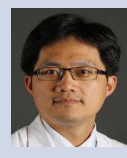
Kuan-Chih Huang,  
Taipei



Kuan-Chun Chen,  
Taipei



Mao-Hsin Lin,  
Taipei



Shih-Hsien Sung,  
Taipei



Tien-Ping Tsao,  
Taipei



Wei-Hsian Yin,  
Taipei



Yung-Tsai Lee,  
Taipei



# Congress Information

## Venue

**\*\*Webcast only\*\***

**International Convention Center, 5<sup>th</sup> floor, 2<sup>nd</sup> Medical Building, Cheng-Hsin General Hospital, Taipei, Taiwan**

**Date: June 12 (Fri), 2020/ Time: 8:00 ~ 18:30**

**Date: June 13 (Sat), 2020/ Time: 7:00 ~ 16:30**

**Date: June 14 (Sun), 2020/Time: 8:00 ~ 12:00**

## Taipei Valve Summit

**Course Directors:** Jeng Wei 、 Jian Ye

**Chairman:** Chung-Yi Chang

**Course Co-directors:** Wei-Hsian Yin 、 Yi-Cheng Chuang 、 Kuo-Chen Lee

**Secretary General:** Kuan-Chun Chen 、 Yung-Tsai Lee

Links to the congress:

<http://www.drvoice.cn/course/741?webview=1&simple=1>

<https://www.youtube.com/watch?v=c2A1YqGp3xU&feature=youtu.be>

Or scan the QR codes:

6/12



6/13



6/14



08:00-08:05		Opening					Jeng Wei		
<b>Meet the Experts: All You Need to Know about Balloon Expandable Valve</b>									
Moderator		Jian Ye   Wei-Hsian Yin   Kentaro Hayashida   Tien-Ping Tsao   Chun-Chi Chen							
08:00 - 10:00	08:05	Introduction				Wei-Hsian Yin	TW	GMT+8	08:05
	08:15	Case in a box: PCI post Sapien 3 implantation				Tien-Ping Tsao	TW	GMT+8	08:15
	08:30	Case 1				David Smyth	NZ	GMT+12	12:30
	08:45	Case 2				Chun-Chi Chen	TW	GMT+8	08:45
	09:00	Case 3				Kiyuk Chang	KR	GMT+9	10:00
	09:15	Discussion					TW	GMT+8	09:30
<b>Hot Topics in Mitral Disease: Barlow's Disease</b>									
Moderator		Nguyen Van Phan   Jian Ye   Chung-Yi Chang   Tianxiang Gu   Daniel Tai-Leung Chan   I-Chen Chen							
10:00 - 12:00	10:00	Introduction				Nguyen Van Phan	VN	GMT+7	09:00
	10:20	Case 1				Tianxiang Gu	CN	GMT+8	10:20
	10:40	Case 2				I-Chen Chen	TW	GMT+8	10:40
	11:00	Case 3				Nguyen Van Phan	VN	GMT+7	10:00
	11:20	Discussion					TW	GMT+8	11:20
<b>Meet the Experts: All You Need to Know about Self-Expanding Valve</b>									
Moderator		Lars Søndergaard   Martin Ng   Edgar Lik-Wui Tay   Myeong-Ki Hong   Tien-Ping Tsao   Ke-Wei Chen							
13:00 - 15:00	13:00	Introduction				Lars Søndergaard	DK	GMT+2	07:00
	13:15	Case in a box : Trans-subclavian TAVR				Yung-Tsai Lee	TW	GMT+8	13:15
	13:30	Case 1				Martin Ng	AU	GMT+10	15:30
	13:45	Case 2				Edgar Lik-Wui Tay	SG	GMT+8	13:45
	14:00	Case 3				Myeong-Ki Hong	KR	GMT+9	15:00
	14:15	Case 4				Yung-Tsai Lee	TW	GMT+8	14:15
	14:30	Discussion					TW	GMT+8	14:30
<b>Hot Topics in TAVR: Bicuspid Aortic Valve</b>									
Moderator		Didier Tchétché   Ariel Finkelstein   Kuo-Chen Lee   Simon Cheung-Chi Lam   Shih-Hsien Sung   Yung-Tsai Lee							
15:00 - 16:30	15:00	Introduction				Didier Tchétché	Paris	GMT+2	09:00
	15:15	Case 1				Shih-Hsien Sung	TW	GMT+8	15:15
	15:30	Case 2				Simon Cheung-Chi Lam	HK	GMT+8	15:30
	15:45	Case 3				Ariel Finkelstein	IL	GMT+3	10:45
	16:00	Discussion					TW	GMT+8	16:00
<b>Hot Topics in TAVR: Aortic Regurgitation</b>									
Moderator		Wei-Hsian Yin   Ariel Finkelstein   Yingqiang Guo   Jimmy Kim-Fatt Hon   Haibo Zhang   Yung-Tsai Lee							
16:30 - 18:30	16:30	Introduction				Ariel Finkelstein	IL	GMT+3	11:30
	16:45	Introduction: Surgery is still gold standard				Jimmy Kim-Fatt Hon	SG	GMT+8	16:45
	17:00	Case 1				Yingqiang Guo	CN	GMT+8	17:00
	17:15	Case 2				Haibo Zhang	CN	GMT+8	17:15
	17:30	Case 3				Yung-Tsai Lee	TW	GMT+8	17:30
	17:45	Case 4				Ke-Wei Chen	TW	GMT+8	17:45
	18:00	Discussion					TW	GMT+8	18:00

06:55-07:00		Opening					Jeng Wei				
<b>TAVR: The Past, Present, and Future ( I )</b>											
		Moderator Jeng Wei   Jian Ye   Wei-Hsian Yin   Kentaro Hayashida   Duk-Woo Park									
07:00	07:00	Management of aortic stenosis: Current evidence and my update to guidelines	Jian Ye	VAN (-1)	GMT -7	16:00					
-	07:20	Surgical aortic valve replacement in current era	Vinayak (Vinnie) Bapat	NY (-1)	GMT -5	19:20					
09:00	07:40	TAVR in patients with small anatomies and heavily calcified valves	Kentaro Hayashida	JP	GMT +9	08:40					
	08:00	TAVR in patients with coronary disease	Duk-Woo Park	KR	GMT +9	09:00					
	08:20	New TAVR devices	Martin Ng	AU	GMT +10	10:20					
<b>David Operation</b>											
09:00		Moderator Tirone E. David   Jeng Wei   Jian Ye									
-	<b>On the Shoulders of Giants: Tirone E. David</b>										
10:00	09:00-09:30	Reimplantation of the aortic valve: past, present, and future	Tirone E. David	YTO (-1)	GMT -5	21:00					
	09:30-09:50	David operation at CHGH	Jeng Wei	TW	GMT +8	09:30					
<b>Valve-in-Valve for Prosthetic Valve Failure</b>											
10:00		Moderator Vinayak (Vinnie) Bapat   Wei-Hsian Yin   I-Chang Hsieh   Chi-Jen Chang   David Smyth   Simon Cheung-Chi Lam   Tien-Ping Tsao									
-	10:00	Introduction to valve-in-valve for prosthetic valve failure	Vinayak (Vinnie) Bapat	NY (-1)	GMT -5	22:00					
11:00	10:15	Case 1: AViV and balloon fracturing	Simon Cheung-Chi Lam	HK	GMT +8	10:15					
	10:30	Live case: MViV	CHGH Heart Team	TW	GMT +8	10:30					
<b>Hot Topics in TAVR</b>											
11:00		Moderator Michael Kang-Yin Lee   Kiyuk Chang   Jimmy Kim-Fatt Hon   Vincent Ngai-Hong Luk   Tien-Ping Tsao   Mao-Hsin Lin									
-	11:00	Cerebral protection in TAVR	Michael Kang-Yin Lee	HK	GMT +8	11:00					
	11:15	Updates in studies in TAVI	Edgar Lik-Wui Tay	SG	GMT +8	11:15					
12:30	11:30	Anti-coagulation or anti-platelet after TAVR	Kiyuk Chang	KR	GMT +9	12:30					
	11:45	How to preserve renal function in CKD patients for TAVI?	Myeong-Ki Hong	KR	GMT +9	12:45					
	12:00	Minimal invasive surgical aortic valve replacement	Daniel Tai-Leung Chan	HK	GMT +8	12:00					
	12:15	How to complete transfemoral TAVI?	Toru Naganuma	JP	GMT +9	13:15					
<b>TAVR: The Past, Present and Future ( II )</b>											
13:00		Moderator Lars Søndergaard   Michael Kang-Yin Lee   Myeong-Ki Hong   Wei-Hsian Yin   Tien-Ping Tsao									
-	13:00	TAVR in the future, how do we improve our life	Alain Cribier	Paris	GMT +2	07:00					
14:10	13:30	Mid-term and long-term follow-up after TAVR	Lars Søndergaard	DK	GMT +2	07:30					
	13:50	TAVR for younger patients in low surgical risk	Ariel Finkelstein	IL	GMT +3	08:50					
<b>Therapies of Mitral Valve Disease</b>											
14:10		Moderator Nguyen Van Phan   Xu Meng   Thomas Modine   Maurizio Taramasso   Wei-Hsian Yin   Tianxiang Gu									
-	14:10	Surgical mitral valve repair is still gold-standard for MR	Nguyen Van Phan	VN	GMT +7	13:10					
	14:30	Mitral repair in rheumatic heart disease	Xu Meng	CN	GMT +8	14:30					
16:30	14:50	Percutaneous mitral interventions: repair vs replacement	Thomas Modine	Paris	GMT +2	08:50					
	15:20	<b>Case in a box:</b> Transcatheter mitral valve repair	Thomas Modine	Paris	GMT +2	09:20					
	15:40	Advances of transcatheter mitral valve therapies: Patient segmentation & clinical updates	Maurizio Taramasso	EMRZ	GMT +2	09:40					
	16:00	<b>Case in a box:</b> Transcatheter mitral valve replacement	Maurizio Taramasso	EMRZ	GMT +2	10:00					

<b>Imaging in Structure Heart Disease</b>						
Moderator Wei-Hsian Yin   Alex Pui-Wai Lee   Kuo-Chen Lee   Jung-Cheng Hsu   Kuan-Chih Huang						
08:00	08:00	Application of MSCT in structure heart intervention	Yung-Tsai Lee	TW	GMT +8	08:00
-	08:30	Mental co-registration of fluoroscopy, CT and TEE for localization of aortic PVL	Kuan-Chih, Huang	TW	GMT +8	08:30
10:00	09:00	Echocardiographic evaluation for mitral and tricuspid valves	Alex Pui-Wai Lee	HK	GMT +8	09:00
	09:30	Discussion		TW	GMT +8	08:30
<b>Hot Topics in Tricuspid and Pulmonary Valve</b>						
Moderator Jou-Kou Wang   Tien-Ping Tsao   Haibo Zhang   Alex Pui-Wai Lee   Yung-Tsai Lee						
10:00	10:00	Transcatheter pulmonary valve replacement in Taiwan	Jou-Kou Wang	TW	GMT +8	10:00
-	10:30	Transcatheter pulmonary valve-in-valve replacement	Wei-Hsian Yin	TW	GMT +8	10:30
12:00	10:45	Transcatheter tricuspid valve-in-valve and vale-in-ring	Yung-Tsai Lee	TW	GMT +8	10:45
	11:00	Transcatheter tricuspid valve replacement	Haibo Zhang	CN	GMT +8	11:00
	11:30	Transcatheter tricuspid valve repair	Alex Pui-Wai Lee	HK	GMT +8	11:30
12:00	<b>Closing</b>		Jeng Wei			





Day 1  
(6/12)



# **MEET THE EXPERTS**

**ALL YOU NEED TO KNOW ABOUT BALLOON EXPANDABLE VALVE**

# MEET THE EXPERTS

## ALL YOU NEED TO KNOW ABOUT BALLOON EXPANDABLE VALVE

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### Moderator

#### Jian Ye

MSc MD FRCSC

Clinical Professor and Cardiac Surgeon

Director of Clinical Cardiac Surgery Research, UBC

Active Staff, Vancouver General Hospital and St. Paul's Hospital

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#### SPECIAL INTERESTS

1. Complex mitral valve repair
2. Minimally invasive transcatheter heart valve surgery
3. Aortic surgery
4. Off-pump coronary artery bypass
5. Clinical and basic research

#### PRESENT ACADEMIC POSITIONS

• **Clinical Professor Director of Research**

Division of Cardio-Thoracic Surgery Faculty of Medicine, University of British Columbia, Vancouver, Canada (2010-present)

• **Attending Cardiac Surgeon**

Division of Cardiovascular Surgery, St. Paul's Hospital and Vancouver General Hospital Vancouver, Canada(2004-present )

#### MEDICAL EDUCATION AND PROFESSIONAL TRAINING

• **Degree: MD.** (Wenzhou Medical College Wenzhou, Zhejiang, P. R. C. )

• **Cardiovascular Research Fellow** (full time) Division of Cardiology, University Hospitals, School of Medicine, Case Western Reserve University, Cleveland, OH, U.S.A.

• **Resident in Cardiac Surgery** (full time) , Section of Cardiac Surgery, Faculty of Medicine, University of Manitoba Winnipeg, Manitoba, Canada

• **Clinical Fellow** (full time) Division of Cardiovascular Surgery, Faculty of Medicine, University of British Columbia Vancouver, BC, Canada

#### PROFESSIONAL EXPERIENCE

• **Director of Research:** Division of Cardiovascular Surgery University of British Columbia Vancouver, BC, Canada (2009 January- Present)

• **Clinical Professor (full time)** Division of Cardiovascular Surgery Faculty of Medicine, University of British Columbia Vancouver, Canada (2010 July- Present)

# MEET THE EXPERTS

## ALL YOU NEED TO KNOW ABOUT BALLOON EXPANDABLE VALVE

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### Moderator

#### **Kentaro Hayashida**

Keio University School of Medicine, Tokyo, Japan

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#### **ACADEMIC BACKGROUND**

Dr. Kentaro Hayashida graduated from Keio University School of Medicine in Japan in 2000 where he obtained his PhD in Cardiology in 2006. In 2009 Dr. Hayashida did his Interventional Cardiology Fellowship at the Institute Cardiovascular Paris Sud, Massy, in France.

#### **CURRENTS STATUS**

He is currently Assistant professor and lecturer; Director of transcatheter heart valve program and Director of cardiac catheterization laboratory at Department of Cardiology, Keio University School of Medicine in Japan.

In 2008 and 2012, he was honored with the Young Investigators Award at the American College of Cardiology.

He is currently Scientific Committee and Faculty Member of International and Domestic medical conferences like PCR Tokyo valves (Course Director); PCR London valves (International Course Co-Director); Asia PCR (Course Co-Director); EuroPCR (Faculty); Complex Cardiovascular Therapeutics, SHD course (Course Director); Tokyo Percutaneous Cardiovascular Intervention Conference (Course Co-director); Japanese Heart Failure Society (Member of device committee); JHVD (Faculty); Toyohashi live demonstration (Program committee member and organizer).

# MEET THE EXPERTS

## ALL YOU NEED TO KNOW ABOUT BALLOON EXPANDABLE VALVE

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Moderator/Speaker

Introduction

**Wei-Hsian Yin**

Vice president, Cheng Hsin General Hospital

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### MEDICAL EXPERTISES

1. Complex cardiac catheterization therapeutic procedures, including Percutaneous transluminal coronary angioplasty (PTCA), coronary artery stenting, coronary artery rotablation, treatment for left main chronic total occlusion and other coronary arteries occlusion.
2. Treatment for complex structural heart diseases, including Transcatheter Aortic Valve Implantation (TAVI), Transcatheter treatment for congenital and acquired heart diseases.
3. Implantation of pacemaker and follow-up
4. Transthoracic and Transesophageal Echocardiography
5. Cardiology, Cardiovascular medicine, Emergency and Intensive care medicine

### EDUCATION

1. National Yang-Ming University, School of Medicine, Ph.D.
2. National Defense Medical Center, M.D.



# MEET THE EXPERTS

## ALL YOU NEED TO KNOW ABOUT BALLOON EXPANDABLE VALVE

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### Moderator/Speaker

### Case in a box: PCI post Sapien 3 implantation

#### Tien Ping Tsao

Director, Division of Cardiology, Heart Center, Cheng Hsin  
General Hospital,

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#### WORK EXPERIENCES

1. Cardiologist, Director, Cardiac Care Unit, Heart Centre, Cheng Hsin General Hospital
2. Director, Coronary Care Unit, Department of Critical Care Medicine, Tri-Service General Hospital
3. Specialist Registrar, Cardiology, Yorkshire Cardiac Centre, General Infirmary, Leeds, U.K.
4. Cardiologist, Cardiology & Medicine, Tri-Service General Hospital
5. Chief Resident, Department of Cardiology, Tri-Service General Hospital
6. Medical Service to West Africa (Republic of Liberia and Guine Bissau)
7. Resident, Tri-Service General Hospital
8. Former Councilor, Taiwan Society of Cardiovascular Intervention
9. Former Councilor, Taiwan Society of Lipids & Atherosclerosis

#### MEDICAL EXPERTIS

1. Diagnoses and treatment of adult cardiac diseases
2. Percutaneous transluminal coronary artery interventional treatment
3. Percutaneous transluminal peripheral artery interventional treatment
4. Percutaneous transluminal carotid artery interventional treatment

#### EDUCATION

M.D. National Defense Medical Centre

# MEET THE EXPERTS

## ALL YOU NEED TO KNOW ABOUT BALLOON EXPANDABLE VALVE

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Speaker

Case 1

**David Smyth**

ST GEORGE'S HOSPITAL

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### AREAS of SPECIALISATION

1. Angioplasty, Angina
2. Heart attacks
3. Valvular Heart Disease
4. Heart Muscle Disease
5. Cardiac Risk Assessment

### SPECIALIST TRAINING

Trained in Cardiology at Kings College Hospital, London

### EDUCATION

M.D. (London), FRCP, FRACP

### POSITIONS & MEMBERSHIPS

1. Clinical Director of Cardiology, Christchurch Hospital
2. Director of Catheter Laboratories, Christchurch Hospital
3. Member of Cardiac Society Australia and NZ

# MEET THE EXPERTS

## ALL YOU NEED TO KNOW ABOUT BALLOON EXPANDABLE VALVE

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### Moderator/Speaker

#### Case 2

#### **Chun-Chi Chen**

Lecturer, Linkou Chang Gung Memorial Hospital

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#### **FOCUS of INTEREST**

1. Cardiovascular disease
2. Cardiac Catheterization

#### **EMPLOYMENT RECORDS**

- 2012/07-present Lecturer Chang Gung Memorial Hospital Taoyuan, Taiwan
- 2002/07/01-2006/5 Cardiology Attending Adult Cardiology Interventional Cardiology Second Section of Cardiology Chang Gung Memorial Hospital Taoyuan, Taiwan

#### **EDUCATION**

- 1990/09-1997/06 China Medical College, Taichung, Taiwan

# MEET THE EXPERTS

## ALL YOU NEED TO KNOW ABOUT BALLOON EXPANDABLE VALVE

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### Speaker

### Case 3

### Kiyuk Chang

Professor, Division of Cardiology, Department of Internal Medicine, College of Medicine

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#### POST-GRADUATE TRAINING & CURRENT POSITION

- 2014.4 –Present **Professor**, The Catholic University of Korea, Cardiology Division, Seoul St. Mary's Hospital, Seoul, Korea
- 2009.4–2014.3 **Associate Professor**, The Catholic University of Korea, Cardiology Division, Seoul St. Mary's Hospital, Seoul, Korea
- 2004.4 –2009.3 **Assistant Professor**, The Catholic University of Korea, Cardiology Division, Seoul, St. Mary's Hospital
- 2007.3 –2009.2 **Research Fellow in Medicine**, Cardiovascular Research Center, Massachusetts General Hospital, Harvard Medical School, Boston, MA
- 1998.3 – 2000.2 **Cardiology Fellow** Dept. of Internal Medicine, Catholic Medical Center(CMC), College of Medicine, The Catholic University of Korea, Seoul, Korea
- 1994.3 –1998.2 **Residency in Internal Medicine**, Dept. of Internal Medicine, Catholic Medical Center(CMC), College of Medicine, The Catholic University of Korea, Seoul, Korea
- 1989.5–1990.2 **Rotating Internship**, Catholic Medical Center(CMC), College of Medicine, The Catholic University of Korea, Seoul, Korea

#### EDUCATION

- 2007.3 - 2009.2 Harvard Medical School, Boston, MA, USA (Postdoc)
- 2000.3 - 2003.2 Catholic University Graduate School, Seoul, Korea (Ph.D.)
- 1997.3 - 1999.8 Catholic University Graduate School, Seoul, Korea (M.S.)
- 1983.3 - 1989.2 Catholic University Medical College, Seoul, Korea (M.D.)

#### RECENT PRESENTATIONS

- **Left main stenting: Korean experience, Event : ESC Congress**  
2017 Session : Challenges in complex PCI, Joint with the Asian Pacific Society of Cardiology
- **Long-term clinical outcome of angiotensin-converting enzyme inhibitor versus angiotensin II receptor blocker in patients with acute myocardial infarction undergoing percutaneous coronary intervention, Event : ESC Congress 2015,**  
Session : Angina pectoris stable V,  
Speaker : K Chang (Seoul, KR)

## **HOT TOPICS in MITRAL Disease**

### **Barlow's Disease**



# HOT TOPIC in MITRAL Disease

## Barlow's disease

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## Moderator

**Jian Ye**

**MSc MD FRCSC**

**Clinical Professor and Cardiac Surgeon**

**Director of Clinical Cardiac Surgery Research, UBC**

**Active Staff, Vancouver General Hospital and St. Paul's Hospital**

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### **SPECIAL INTERESTS**

1. Complex mitral valve repair
2. Minimally invasive transcatheter heart valve surgery
3. Aortic surgery
4. Off-pump coronary artery bypass
5. Clinical and basic research

### **PRESENT ACADEMIC POSITIONS**

• **Clinical Professor Director of Research**

Division of Cardio-Thoracic Surgery Faculty of Medicine, University of British Columbia, Vancouver, Canada (2010-present)

• **Attending Cardiac Surgeon**

Division of Cardiovascular Surgery, St. Paul's Hospital and Vancouver General Hospital Vancouver, Canada (2004-present )

### **MEDICAL EDUCATION AND PROFESSIONAL TRAINING**

• **Degree: MD.** (Wenzhou Medical College Wenzhou, Zhejiang, P. R. C. )

• **Cardiovascular Research Fellow** (full time) Division of Cardiology, University Hospitals, School of Medicine, Case Western Reserve University, Cleveland, OH, U.S.A.

• **Resident in Cardiac Surgery** (full time) , Section of Cardiac Surgery, Faculty of Medicine, University of Manitoba Winnipeg, Manitoba, Canada

• **Clinical Fellow** (full time) Division of Cardiovascular Surgery, Faculty of Medicine, University of British Columbia Vancouver, BC, Canada

### **PROFESSIONAL EXPERIENCES**

• **Director of Research:** Division of Cardiovascular Surgery University of British Columbia Vancouver, BC, Canada (2009 January- Present)

• **Clinical Professor (full time)** Division of Cardiovascular Surgery Faculty of Medicine, University of British Columbia Vancouver, Canada (2010 July- Present)

# **HOT TOPIC in MITRAL Disease**

## **Barlow's disease**

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## **Moderator**

**Daniel Tai-Leung Chan**

Queen Mary Hospital

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Dr. Daniel Tai-leung Chan is a consultant surgeon at the Department of Cardiothoracic Surgery of Queen Mary Hospital, Hong Kong. After obtaining a Fellowship in Cardiothoracic Surgery of the College of Surgeons of Edinburgh in 2009, he pursued advanced training in cardiac surgery especially minimally invasive approaches in East Carolina University, USA, under the guidance of Prof. Randolph Chitwood. He performs a full range of cardiac surgeries from coronary and valvular surgeries to heart transplantations, while his special clinical and research interests are in minimally invasive cardiac surgery and transcatheter procedures.

# HOT TOPIC in MITRAL Disease: Barlow's disease

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## Moderator

### Chung-Yi Chang

Director, Heart Center, Cheng Hsin General Hospital

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#### WORK EXPERIENCES

1. Cardiacvascular Surgeon, Chief Consultant, Heart Centre, Cheng Hsin General Hospital
2. Director, Department of Surgery, Cheng Hsin General Hospital
3. Cardiac Surgeon, Division of Cardiovascular Surgery, Tri-Service General Hospital
4. Chief Resident, Department of Surgery, Tri-Service General Hospital
5. Resident, Department of Surgery, Tri-Service General Hospital
6. Chairman, Association of Organ Donation, R.O.C
7. Awarded Excellent Instructor, Ministry of National Defense, R.O.C.

#### MEDICAL EXPERTISE

##### A. Cardiac surgery subspecialty

1. Coronary artery bypass surgery (on pump and off pump)
2. Valvular heart surgery
3. Congenital heart disease surgery
4. Aortic aneurysm and Aortic dissection surgery
5. Heart Transplantation
6. Surgical treatment for Arrhythmia and Heart failure

##### B. Vascular surgery subspecialty

1. Surgery for abdominal aortic aneurysm and dissection
2. Surgery for Peripheral artery occlusive disease
3. Varicose vein surgery
4. Surgery for hemangioma
5. Surgery for carotid artery stenosis
6. Surgery for uremia dialysis fistula
7. Central venous catheter implantation for chemotherapy or dialysis
8. Examination and treatment for other peripheral artery and deep vein diseases .

#### EDUCATION

M.D., National Defense Medical Center

# HOT TOPIC in MITRAL Disease:

## Barlow's disease

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**Moderator/Speaker**

**Introduction/Case 3**

**Nguyen Van Phan**

Head of Cardiac Surgery Department-Heart Institute-Ho chi Minh city-  
Alain Carpentier Foundation

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### **EDUCATION & QUALIFICATION**

1. 1985: MD, Medical University- Ho chi Minh city-Viet Nam
2. 1985-1989: Fellowship on General Surgery- Binh Dan hospital –VietNam
3. 1989-1992: Fellowship on Cardio-Vascular Surgery at Broussais Hospital-Paris-France
4. 1992: Diploma of Cardio-vascular Surgery-Pierre-Descartes University-Paris VI-Paris-France
5. 1992 to present: Head of Cardiac Surgery Department-Heart Institute-Ho Chi Minh City-  
Alain Carpentier Foundation
6. 1998: Master of Science in Medicine
7. 2006: Doctor of Philosophy (PhD) in Medicine

### **CURRENT POSITION**

1. Head of Cardiac Surgery Department-Heart Institute-Ho chi Minh city-Alain Carpenter  
Foundation
2. Head of Cardiac Surgery Department-Trieu An hospital-Ho chi Minh city
3. Director of Advanced Mitral Valve Repair Workshop (AMVAR)
4. Director of Master the Art of Mitral Valve Repair Workshop(MAMVR)
5. Vice Director-Heart Institute-Ho chi Minh city-Alain Carpentier Foundation

# HOT TOPIC in MITRAL Disease:

## Barlow's disease

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## Moderator/Speaker

### Case 1

#### Tianxiang Gu

Department of Cardiac Surgery, First Affiliated Hospital, China Medical University

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#### PROFESSIONAL INTERESTS

- 1.Surgery for heart failure
- 2.Congenital heart surgery
- 3.Surgery for atrial fibrillation
- 4.OPCABG and CABG
- 5.Aortic surgery

#### EDUCATION

M.D., China Medical University

#### RECENT PUBLICATION

JOURNAL of the AMERICAN COLLEGE of CARDIOLOGY

Volume 75, Issue 17, May 2020DOI: 10.1016/j.jacc.2020.01.063

Cardiac Output and Blood Supply of Cardiomyocytes May Be, Determinants of Clinical Outcomes in AR. Xuan Jiang, Yuhai Zhang and Tianxiang Gu



# HOT TOPIC in MITRAL Disease

## Barlow's disease

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## Moderator/Speaker

### Case 2

#### I-Chen Chen

Cardiovascular Surgeon, Heart Centre, Cheng Hsin General Hospital

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#### WORK EXPERIENCES

1. Cardiac Surgeon, Cardiac Critical Care Unit, Cheng Hsin General Hospital
2. Attending Physician, Critical Care Unit, Cheng Hsin General Hospital
3. Chief Resident, Division of Cardiovascular Surgery, Cheng Hsin General Hospital
4. Resident, Division of Cardiovascular Surgery, Cheng Hsin General Hospital
5. Chief Resident, Department of Surgery, Hsin Chu General Hospital
6. Resident, Department of Surgery, Hsin Chu General Hospital

#### MEDICAL EXPERTISE

1. Cardiac critical care
2. Minimally invasive cardiac surgery
3. Adult coronary artery disease
4. Cardiac valvular disease
5. Aortic disease
6. Cardiac mechanical support operation
7. Vascular access surgery
8. Venous disease surgery

#### EDUCATION

M.D. Medicine, National Taiwan University Medical College

#### PUBLICATIONS

1. Chen IC, Wei J, Chang CY, Chuang YC, Lee SL, Lee WC  
Successful treatment of aortic root aneurysm after orthotopic heart transplantation: case report *Transplant Proc.* 2008; 40(8): 2852-3  
25
2. Lee YT, Chu CH, Sue SH, Chen IC, Wei J.  
Efficacy of double filtration plasmapheresis in removing xenoantibodies and prolonging xenograft survival in an ex vivo swine perfusion model *Transplant Proc.* 2012; 44(4):1143-5.

**MEET THE EXPERTS**

**ALL YOU NEED TO KNOW ABOUT Self-Expanding Valve**

# MEET THE EXPERTS

## ALL YOU NEED TO KNOW ABOUT Self-Expanding Valve

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## Moderator

### Tien Ping Tsao

Director, Division of Cardiology, Heart Center, Cheng Hsin General Hospital,

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#### WORK EXPERIENCES

1. Cardiologist, Director, Cardiac Care Unit, Heart Centre, Cheng Hsin General Hospital
2. Director, Coronary Care Unit, Department of Critical Care Medicine, Tri-Service General Hospital
3. Specialist Registrar, Cardiology, Yorkshire Cardiac Centre, General Infirmary, Leeds, U.K.
4. Cardiologist, Cardiology & Medicine, Tri-Service General Hospital
5. Chief Resident, Department of Cardiology, Tri-Service General Hospital
6. Medical Service to West Africa (Republic of Liberia and Guine Bissau)
7. Resident, Tri-Service General Hospital
8. Former Councilor, Taiwan Society of Cardiovascular Intervention
9. Former Councilor, Taiwan Society of Lipids & Atherosclerosis

#### MEDICAL EXPERTIS

1. Diagnoses and treatment of adult cardiac diseases
2. Percutaneous transluminal coronary artery interventional treatment
3. Percutaneous transluminal peripheral artery interventional treatment
4. Percutaneous transluminal carotid artery interventional treatment

#### EDUCATION

M.D. National Defense Medical Centre

# **MEET THE EXPERTS:** **ALL YOU NEED TO KNOW ABOUT Self-Expanding Valve**

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## **Hong Kong/Moderator**

### **Michael Kang-Yin Lee**

**Queen Elizabeth Hospital - Hong Kong**

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Dr. Michael KY Lee is currently the Consultant Cardiologist and Director of Cardiac Catheterization Laboratory of Queen Elizabeth Hospital, Hong Kong. He is also the Honorary Clinical Associate Professor of both the University of Hong Kong and the Chinese University of Hong Kong. He graduated from The University of Hong Kong and received his overseas training in Interventional Cardiology at the Brigham & Women's Hospital, Harvard Medical School, Boston, USA from 1999 – 2000.

In 2010, Dr Lee established the Hong Kong Society of Transcatheter Endo-cardiovascular Therapeutics (HKSTENT) and became the Founding President. He is currently the Chairman of the Central Committee (Cardiac Service) of the Hong Kong Hospital Authority and has also been appointed the Chairman of the Research Committee of the Asian Pacific Society of Interventional Cardiology (APSIC) and serves as the Chairman of the Asia Pacific TAVI Registry Steering Committee. His special interests include Interventional Cardiology (Coronary and Structural Heart Interventions) and AMI/ACS management. Recently, he was appointed the Regional Champion for Asia of the "Stent Save a Life" Initiative to promote Primary PCI for STEMI in Asia as well as Chairman of the APAC HBR Club.

In Queen Elizabeth Hospital, he helped to establish the TAVI and Structural Heart Program and performed the first TAVI procedure in Hong Kong in 2010. He is the first cardiologist to use the Claret Sentinel Cerebral Protection Device in Asia in 2016. He is currently helping the Hospital Authority to establish the Primary PCI Program and Structural Heart Program in Hong Kong. He is also actively involved in the planning of the New Acute Hospital in Kai Tak area.

# MEET THE EXPERTS

## ALL YOU NEED TO KNOW ABOUT self-Expanding Valve

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### Moderator/Speaker

### Introduction

#### Lars Søndergaard

Professor of Cardiology, Cardiac Cath. Lab., Centre for Cardiac, Vascular, Pulmonary and Infectious Diseases and the University of Copenhagen.

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#### RESEARCH AREAS

1. Congenital heart disease
2. Transcatheter valve therapy

#### EDUCATION

General Certificate of Secondary Education in mathematical physics. Aalborg Katedralskole 1980.

#### DEGREE IN MEDICINE

Faculty of Health and Medical Science, University of Copenhagen 1988.  
Specialist in cardiology 2001.

#### SCIENTIFIC THESIS (MDSci., dr. med.):

Faculty of Health and Medical Sciences, University of Copenhagen, 2004.

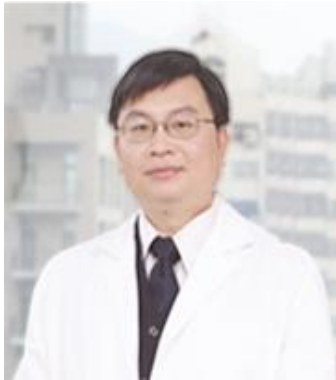
#### CURRENT POSITION

Professor of Cardiology, University of Copenhagen, Denmark  
Consultant Cardiology, Rigshospitalet, Blegdamsvej 9, 2100 Copenhagen, Denmark.

# MEET THE EXPERTS

## ALL YOU NEED TO KNOW ABOUT Self-Expanding Valve

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### Speaker

#### Case in a Box: trans-subclavian TAVR

#### **Yung-Tsai Lee**

Cardiac Care Unit/Division of Cardiovascular Surgery, Heart Centre,  
Cheng Hsin General Hospital

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#### **WORK EXPERIENCES**

1. Chief Resident, Division of Cardiovascular Surgery, Cheng Hsin General Hospital
2. Chief Resident, Department of Surgery, Cheng Hsin General Hospital
3. Chief Resident, Department of Internal Medicine, Taichung Armed Forces General Hospital

#### **MEDICAL EXPERTISE**

1. Adult heart diseases, surgery and care
2. Aortic surgery
3. Intensive care of critical heart disease
4. Heart surgery for mechanical assisted devices
5. Arrhythmia and pacemaker surgery
6. Transcatheter aortic valve replacement surgery
7. Dialysis fistula access surgery
8. Variety surgery and therapy
9. Research on inflammation after shock cardiac surgery and shock
10. Researches on allogeneic heart transplantation and reaction on transplantation immunology

#### **EDUCATION**

1. Post-graduate student, Institute of Microbiology and Immunology, National Yang Ming University
2. M.D. Medicine, Chung Shan Medical School

# MEET THE EXPERTS

## ALL YOU NEED TO KNOW ABOUT self-Expanding Valve

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### Moderator/Speaker

### Case 1

#### Martin Ng

Associate Professor, Interventional Cardiologist; Founder & Chief Medical Officer at Endoluminal Sciences, Macquarie University Hospital

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#### BIOGRAPHY

Associate Professor Martin Ng is an interventional cardiologist at RPA and Macquarie University Hospital with strong interests in clinical, scientific and technological innovation in cardiology. As founder of the transcatheter heart valve program i.e. "key hole aortic valve replacements" at RPA, he has established a program that has set benchmarks for excellence in clinical outcomes and that has pioneered world firsts in minimally invasive treatment of heart disease.

Dr Ng graduated with First Class Honour in Medicine from the University of Sydney, where he completed his MBBS in 1993. He holds a PhD in cardiovascular medicine from the University of Sydney. He undertook his training in interventional cardiology at Stanford University Medical Center (Stanford, California, U.S.A.)

Synergistic to his clinical interests, Dr Ng heads a National Health and Medical Research Council (NHMRC) supported bench-to-bedside biomedical research program, that seeks to address unmet patient needs by developing new treatments for heart disease.

#### CURRENT APPOINTMENTS

Head of Structural Heart Program and Senior Staff Specialist in Interventional Cardiology, Royal Prince Alfred Hospital

Professor of Cardiovascular Medicine and Bioengineering, University of Sydney

Head, Discipline of Cardiology and Head of Structural Heart Program, Macquarie University Hospital

Founder and Chief Medical Officer, Endoluminal Sciences Pty Ltd



# MEET THE EXPERTS

## ALL YOU NEED TO KNOW ABOUT self-Expanding Valve

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### Moderator/Speaker

### Case 2

**Edgar Tay Lik Wui**  
National University Hospital

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Assistant Professor Edgar Tay is a practicing cardiologist at the National University Heart Centre, Singapore, and an Assistant Professor at the Yong Loo Lin School of Medicine, National University of Singapore. Asst. Prof. Tay is a graduate of the National University of Singapore and completed his cardiology training at the National University Hospital, Singapore.

He obtained the Ministry of Health Scholarship to undergo sub-specialty training in adult congenital heart disease and pulmonary hypertension at the Royal Brompton Hospital, London, UK and then completed a second year of interventional fellowship at St Paul's Hospital, Vancouver BC where he was trained in transcatheter aortic valve implantation. He now leads the TAVI and mitraclip mitral valve repair programme.

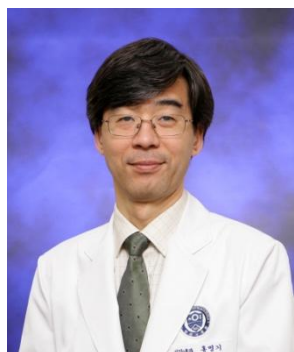
He has authored or co-authored numerous papers in peer-reviewed journals. He is accredited by the European Society of Echocardiography for adult congenital heart disease and has written book chapters on echocardiography in congenital heart disease and structural intervention. He has also obtained several research grants to develop new transcatheter devices.

Presently, he is actively involved in the management of patients with structural heart disease, especially those with valvular heart disease who may benefit from transcatheter therapies. He also manages patients with adult congenital heart disease, pulmonary hypertension and those with heart disease in pregnancy.

# MEET THE EXPERTS

## ALL YOU NEED TO KNOW ABOUT self-Expanding Valve

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### Moderator/Speaker

### Case 3

### Myeong-Ki Hong

Yonsei University College Of Medicine, Seoul, Korea

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#### MEDICAL EDUCATION

- 1982 - 1986 M.D. Yonsei University, College of Medicine, Seoul, Korea
- 1993 - 1997 Ph.D. Yonsei University, College of Medicine, Seoul, Korea.

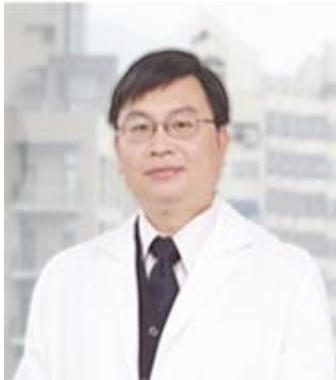
#### PROFESSIONAL EXPERIENCE

- 1993 - 1994 Cardiology Fellow, Division of Cardiology, Department of Internal Medicine, Yonsei University Hospital, Seoul, Korea
- 1994 - 1995 Cardiology Fellow, Division of Cardiology, Department of Internal Medicine, University of Ulsan, College of Medicine, Asan Medical Center, Seoul, Korea
- 1995.3 – 1997.3 Instructor of Medicine, Division of Cardiology, Department of Internal Medicine, University of Ulsan, College of Medicine, Asan Medical Center, Korea
- 1997.9 –1998.8 Research Fellow Intravascular Ultrasound Laboratory, Interventional Cardiology, Washington Cardiology Center, Washington, DC, USA
- 1997.4 – 2006.3 Assistant Professor of Medicine, Division of Cardiology, Department of Internal Medicine, University of Ulsan, College of Medicine, Asan Medical Center, Seoul, Korea
- 2006. 4 – 2009.2 Professor of Medicine, Division of Cardiology, Department of Internal Medicine, University of Ulsan, College of Medicine, Asan Medical Center, Seoul, Korea
- 2009. 3 – present Professor of Medicine, Division of Cardiology, Department of Internal Medicine, Yonsei University College of Medicine, Severance Cardiovascular Hospital, Seoul, Korea

# MEET THE EXPERTS

## ALL YOU NEED TO KNOW ABOUT Self-Expanding Valve

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Speaker

Case 4

**Yung-Tsai Lee**

Cardiac Care Unit/Division of Cardiovascular Surgery, Heart Centre, Cheng Hsin General Hospital

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### WORK EXPERIENCES

1. Chief Resident, Division of Cardiovascular Surgery, Cheng Hsin General Hospital
2. Chief Resident, Department of Surgery, Cheng Hsin General Hospital
3. Chief Resident, Department of Internal Medicine, Taichung Armed Forces General Hospital

### MEDICAL EXPERTISE

1. Adult heart diseases, surgery and care
2. Aortic surgery
3. Intensive care of critical heart disease
4. Heart surgery for mechanical assisted devices
5. Arrhythmia and pacemaker surgery
6. Transcatheter aortic valve replacement surgery
7. Dialysis fistula access surgery
8. Variety surgery and therapy
9. Research on inflammation after shock cardiac surgery and shock
10. Researches on allogeneic heart transplantation and reaction on transplantation immunology

### EDUCATION

1. Post-graduate student, Institute of Microbiology and Immunology, National Yang Ming University
2. M.D. Medicine, Chung Shan Medical School

**Hot Topics in TAVR**

**Bicuspid Aortic Valve**

# Hot Topics in TAVR

## Bicuspid Aortic Valve

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## Moderator

### **Kuo-Chen Lee**

Attending Surgeon, Heart Center, Cheng Hsin General Hospital

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### **EDUCATION**

Bachelor of Medicine, National Defence Medical Center, Taipei, Taiwan (1993)

### **EMPLOYMENT RECORD**

1. April 2019- current: Chief of Cardiac Intensive Care Unit, Heart Center, Cheng Hsin General Hospital, Taipei, Taiwan
2. Nov. 2003- current: Attending Surgeon, Division of Cardiovascular Surgery-Heart Center, Cheng Hsin General Hospital, Taipei, Taiwan
3. Aug. 2006-Oct. 2006: Fellowship for endovascular techniques, Vascular Surgery, Epworth Hospital, East Melbourne, Victoria, Australia
4. Aug. 2000-Oct. 2003: Attending Surgeon & Clinical Instructor, Division of Cardiovascular Surgery, Department of Surgery, Tri-Service General Hospital-National Defense Medical Center
5. March 2000-July 2000: Chief Resident, Division of Cardiovascular Surgery, Tri-Service General Hospital
6. Nov. 1998-Feb. 2000: Clinical Fellow, Department of Cardiovascular Surgery, Cheng Hsin General Hospital, Taipei, Taiwan
7. Aug. 1995-Oct. 1998: Resident, Department of Surgery, Tri-Service General Hospital-National Defense Medical Center, Taipei, Taiwan

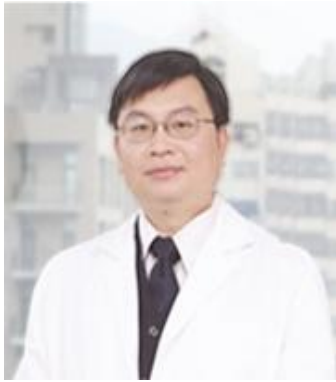
### **RESEARCH INTERESTS**

1. Cardiovascular surgery
2. Heart transplantation
3. Surgical therapy for end-stage heart failure
4. Minimal invasive cardiac surgery and endovascular aortic surgery
5. Trans-catheter valve replacement

# Hot Topics in TAVR

## Bicuspid Aortic Valve

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Moderator

**Yung-Tsai Lee**

Cardiac Care Unit/Division of Cardiovascular Surgery, Heart Centre, Cheng Hsin General Hospital

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### **WORK EXPERIENCES**

1. Chief Resident, Division of Cardiovascular Surgery, Cheng Hsin General Hospital
2. Chief Resident, Department of Surgery, Cheng Hsin General Hospital
3. Chief Resident, Department of Internal Medicine, Taichung Armed Forces General Hospital

### **MEDICAL EXPERTISE**

1. Adult heart diseases, surgery and care
2. Aortic surgery
3. Intensive care of critical heart disease
4. Heart surgery for mechanical assisted devices
5. Arrhythmia and pacemaker surgery
6. Transcatheter aortic valve replacement surgery
7. Dialysis fistula access surgery
8. Variety surgery and therapy
9. Research on inflammation after shock cardiac surgery and shock
10. Researches on allogeneic heart transplantation and reaction on transplantation immunology

### **EDUCATION**

1. Post-graduate student, Institute of Microbiology and Immunology, National Yang Ming University
2. M.D. Medicine, Chung Shan Medical School

# Hot Topics in TAVR

## Bicuspid Aortic Valve

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Moderator/Speaker

### Introduction

**Didier Tchétché**

Co-director of the Interventional Cardiology Unit of Clinique Pasteur, Toulouse- France

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#### CLINICAL CAREER

**Since January 2008**

Co-director of the Interventional Cardiology Unit of Clinique Pasteur, Toulouse- France

**Nov 2005-Oct 2007**

Head resident assistant, Cardiology Department of the Bichat Hospital in Paris (intensive care unit)

**Nov 2004-Oct 2005**

Fellow at the Interventional Cardiology Unit of Clinique Pasteur, Toulouse- France

#### DIPLOMA

**October 2004**

Post-graduate diploma in cardiovascular pathology

Doctoral thesis in medicine

**September 2003**

Post-graduate diploma: biology and pharmacology of the hemostasis and the vessels

**October 2002**

University diploma in echocardiography (Paris)

**November 1999-Oct 2004**

Medical internship in Paris

**1994-1999**

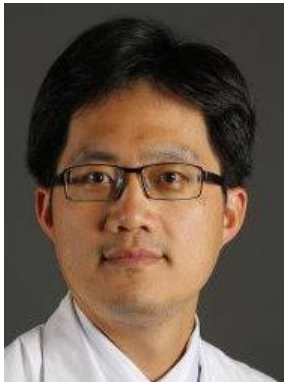
University of Medicine in Tours, France



# Hot Topics in TAVR

## Bicuspid Aortic Valve

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Moderator/Speaker

Case 1

**Shih-Hsien Sung**

Attending physician, Taipei Veteran General Hospital

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### PROFESSIONAL EXPERIENCES

1. 2014 Assistant professor of National Yang-Ming University
2. 2009 Attending physician of Cardiology

### HONORS & AWARDS

2012 Young Investigation award of TSOC

### EDUCATION

1. 2011-2015 Department of Public Health, National Yang-Ming University, Taipei, Taiwan
2. 1994-2001 National Yang-Ming University, Taipei, Taiwan

### POST-GRADUATE EDUCATION

1. 2009.11-2010.01 Researcher, Graduate school of Medical Science, Chinese University of Hong Kong
2. 2009.7-Attending physician in Cardiology, Veterans General Hospital, Taipei, Taiwan
3. 2008.9-11 Researcher, Graduate School of Medical Science, Kyushu University, Fukuoka, Japan
4. 2007-2008 Chief Resident in Internal Medicine, Veterans General Hospital, Taipei, Taiwan
5. 2005-2009 Fellow in Cardiology, Veterans General Hospital, Taipei, Taiwan
6. 2002-2005 Resident Physician, Department of Medicine, Veterans General Hospital, Taipei, Taiwan

# Hot Topics in TAVR

## Bicuspid Aortic Valve

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**Moderator/Speaker**

**Case 2**

**Simon Cheung Chi Lam**

Queen Mary Hospital - Hong Kong

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Dr. Simon Lam graduated from the Li Ka Shing Faculty of Medicine, University of Hong Kong in 2003.

He is an interventional cardiologist from the Division of Cardiology, Department of Medicine, Queen Mary Hospital, Hong Kong. He received his post-fellowship training in Structural and Congenital Heart Intervention in Cardio Vasculares Centrum Frankfurt, Germany under Prof. Horst Sievert in 2012-2013.

His special interests include transcatheter aortic valve implantation, left atrial appendage occlusion, MitraClip, closure of septal defects and paravalvular leaks, renal denervation, complex PCI and intracoronary optical coherence tomography. He is a physician proctor of structural heart intervention procedures, including Edwards SAPIEN Transcatheter Heart Valve and AMULET Left Atrial Appendage Occluder Device.

# Hot Topics in TAVR

## Bicuspid Aortic Valve

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Moderator/Speaker

Case 3

**Ariel Finkelstein**

Director Cardiac Catheterization, Tel Aviv Medical Center.

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**1984:** Graduated Ben Gurion Medical School in Israel, and since then became board certified for Internal Medicine as well as board certified for cardiology at the Tel Aviv University.

**1988-1992:** Fellowship in cardiology at the Tel Aviv Medical Center

**1998-2001:** Fellowship in Interventional Cardiology at Ceders-Sinai Medical Center, and UCLA school of medicine in Los Angeles, USA.

**2005-Present:** Director of cardiac catheterization and Intervention at the Tel Aviv Medical Center, Tel Aviv, Israel, until present.

: Professor of Cardiology at the Tel Aviv University 2010

**2012-2016:** President of the Israel Society for Interventional Cardiology  
Performed so far more than 2,000 TAVI procedures at the Tel Aviv Medical Center, and assisted in many hundreds as a proctor around the world.

**Published more than 250 peer review scientific papers, reviews and book chapters.**

**Hot Topics in TAVR**

**Aortic Regurgitation**

# Hot Topics in TAVR

## Aortic Regurgitation

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## Moderator/Speaker

### Wei-Hsian Yin

Vice president, Cheng Hsin General Hospital

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#### MEDICAL EXPERTISE

1. Complex cardiac catheterization therapeutic procedures, including Percutaneous transluminal coronary angioplasty (PTCA), coronary artery stenting, coronary artery rotablation, treatment for left main chronic total occlusion and other coronary arteries occlusion.
2. Treatment for complex structural heart diseases, including Transcatheter Aortic Valve Implantation (TAVI), Transcatheter treatment for congenital and acquired heart diseases.
3. Implantation of pacemaker and follow-up
4. Transthoracic and Transesophageal Echocardiography
5. Cardiology, Cardiovascular medicine, Emergency and Intensive care medicine

#### EDUCATION

1. National Yang-Ming University, School of Medicine, Ph.D.
2. National Defense Medical Center, M.D.

# Hot Topics in TAVR

## Aortic Regurgitation

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Moderator/Speaker

## Introduction

**Ariel Finkelstein**

Director Cardiac Catheterization, Tel Aviv Medical Center.

---

**1984:** Graduated Ben Gurion Medical School in Israel, and since then became board certified for Internal Medicine as well as board certified for cardiology at the Tel Aviv University.

**1988-1992:** Fellowship in cardiology at the Tel Aviv Medical Center

**1998-2001:** Fellowship in Interventional Cardiology at Ceders-Sinai Medical Center, and UCLA school of medicine in Los Angeles, USA.

**2005-Present:** Director of cardiac catheterization and Intervention at the Tel Aviv Medical Center, Tel Aviv, Israel, until present.

: Professor of Cardiology at the Tel Aviv University 2010

**2012-2016:** President of the Israel Society for Interventional Cardiology

Performed so far more than 2,000 TAVI procedures at the Tel Aviv Medical Center, and assisted in many hundreds as a proctor around the world.

**Published more than 250 peer review scientific papers, reviews and book chapters.**

# Hot Topics in TAVR

## Aortic Regurgitation

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### Moderator/Speaker

#### Introduction: Surgery is still gold standard

#### **Jimmy Kim Fatt Hon**

Assistant Professor, Department of Surgery, Yong Loo Lin School of Medicine, National University of Singapore

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**Dr Jimmy Hon** is a Senior Consultant with the Department of Cardiac, Thoracic and Vascular Surgery of National University Heart Centre, Singapore (NUHCS). He is fully registered as a specialist in Cardiothoracic Surgery with both the United Kingdom General Medical Council and the Singapore Medical Council.

He graduated from The University of Bristol Medical School in the United Kingdom in 1996. He started his career as a research fellow pursuing basic science research under the direction of heart surgeon Professor Sir Magdi Yacoub in London. As a young researcher, he was one of the Principle Investigators who secured a British Heart Foundation project grant which led to numerous significant scientific publications.

He began his surgical training with the London St. Mary's Hospital Basic Surgical Training rotation and attained the Membership of The Royal College of Surgeons of England (MRCS (Eng)) and The Royal College of Surgeons of Edinburgh (MRCSEd) in 2003. He then went on to secure a position in the UK Calman specialist training program in Cardiothoracic Surgery and completed six years of intensive training in London to become a fully trained heart and lung surgeon. During his specialist training, Asst Prof Hon worked in many hospitals in London including The Royal Brompton Hospital, The London Chest Hospital, St. Bartholomew's Hospital and Guy's Hospital. He was able to acquire clinical experience in treating a broad range of heart and lung conditions. In 2008, he was awarded the Fellowship of The Royal College of Surgeons in Cardiothoracic Surgery (FRCS (C-Th)) and in 2009, he received his United Kingdom Certificate of Completion of Training (CCT). After receiving his UK CCT, Dr. Hon embarked on an advance Cardiac Surgery Fellowship to pursue his subspecialty interest in minimally invasive aortic valve surgery in Vancouver, Canada. During his fellowship, he learned Transcatheter Aortic Valve Implantation (TAVI) under the supervision of TAVI pioneers such as Dr. Anson Cheung and Dr. John Webb. He is currently involved in innovative projects investigating percutaneous mitral valve replacement.

#### **Abstract:**

Severe symptomatic aortic valve regurgitation is a potentially lethal condition that severely curtails life expectancy and quality of life. Surgical aortic valve replacement has proven to be an effective treatment for this condition giving patients survival benefits compared to medical therapy alone. Furthermore in suitable selected patients, aortic valve repair may be performed with satisfactory results in high volume reference centers.

TAVI has been reported to treat pure aortic valve regurgitation in selected high risk patients with some success. Anatomical challenges and technology related limitations has prevented TAVI to be widely used to treat aortic valve regurgitation. Further innovations are needed to produce a fully dedicated device to overcome issues such as paravalvular leak, valve migration and higher pace maker implant rate. Finally long term durability of TAVI valves are still awaited and hence currently cannot warrant routine use in aortic regurgitant patients who are generally younger patients.



# Hot Topics in TAVR

## Aortic Regurgitation

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**Moderator/Speaker**

**Case 1**

**Ying-Qiang Guo**

Department of Radiology, West China Hospital, Sichuan University

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### RECENT PUBLICATIONS

Transapical transcatheter aortic valve replacement for aortic regurgitation with a second generation heart valve

2018 - Liu, Huan , Yang, Ye , Wang, Wenshuo

《Journal of Thoracic & Cardiovascular Surgery》

Regulation of adipose-tissue-derived stromal cell orientation and motility in 2D- and 3D-cultures by direct-current electrical field

2017 - Yang, Gang , Long, Haiyan , Ren, Xiaomei

《Development Growth & Differentiation 》

# Hot Topics in TAVR

## Aortic Regurgitation

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## Moderator/Speaker

### Case 2

**Zhang Haibo**

Beijing Anzhen Hospital Capital Medical University

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#### **FACULTY POSITION**

Vice chief of 9th ward, Professor, Cardiac Surgery Department, Beijing Anzhen Hospital, Capital Medical University

#### **MEMBERSHIP**

1. Secretary, Heart valve disease academic committee of Chinese Association of Cardiovascular Surgeons (CACVS)
2. Vice secretary, youth academic committee of Chinese Society for Thoracic and Cardiovascular Surgery (CSTCS),
3. Member of International Society of Heart and Lung Transplantation (ISHLT)

#### **EDUCATION**

1. Heart transplant and LVAD training, Methodist Hospital of IUH, Indianapolis and Cleveland Clinic, U.S.A
2. Atrial fibrillation surgical treatment training, St Louis, U.S.A
3. Cardiac Surgeon in Beijing Anzhen Hospital, Capital Medical University
4. Research training on gene transfer in University of California in Los Angeles (UCLA), U.S.A
5. Ph.D. degree in Harbin Medical University (HBMU) in China
6. M.D degree in Harbin Medical University in China

#### **INTERESTS (Adult cardiac surgery)**

1. Minimally invasive surgery
2. Heart transplant and VAD system
3. Valve repair
4. Atrial fibrillation surgery
5. CABG

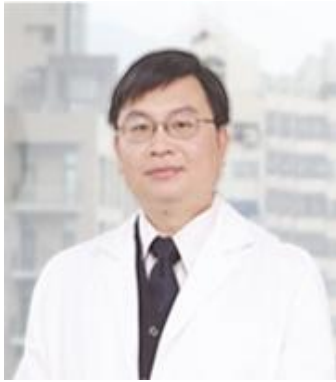
#### **INTRODUCTION OF BEIJING ANZHEN HOSPITAL**

One of the biggest heart center in Asia, there is 11,000 cardiac surgery and 10,000 PCI cases a year. It includes 4000 CABG, 2000 valve surgery, 2500 congenital surgery, 800 big vessels, 200 minimally invasive cardiac surgery, 40 heart transplant, 70 ECMO supports, 380 IABP cases.

# Hot Topics in TAVR

## Aortic Regurgitation

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Moderator/Speaker

Case 3

**Yung-Tsai Lee**

Cardiac Care Unit/Division of Cardiovascular Surgery, Heart Centre, Cheng Hsin General Hospital

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### WORK EXPERIENCES

1. Chief Resident, Division of Cardiovascular Surgery, Cheng Hsin General Hospital
2. Chief Resident, Department of Surgery, Cheng Hsin General Hospital
3. Chief Resident, Department of Internal Medicine, Taichung Armed Forces General Hospital

### MEDICAL EXPERTISE

1. Adult heart diseases, surgery and care
2. Aortic surgery
3. Intensive care of critical heart disease
4. Heart surgery for mechanical assisted devices
5. Arrhythmia and pacemaker surgery
6. Transcatheter aortic valve replacement surgery
7. Dialysis fistula access surgery
8. Variety surgery and therapy
9. Research on inflammation after shock cardiac surgery and shock
10. Researches on allogeneic heart transplantation and reaction on transplantation immunology

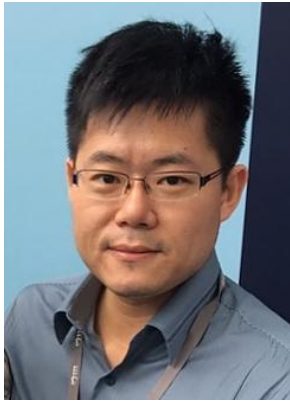
### EDUCATION

1. Post-graduate student, Institute of Microbiology and Immunology, National Yam Ming University,
2. M.D. Medicine, Chung Shan Medical School

# Hot Topics in TAVR

## Aortic Regurgitation

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Speaker

Case 4

**Ke-Wei Chen**

Attending Physician, China Medical University Hospital

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### **SPECIALTY**

Dr Ke-Wei Chen was selected as a teaching physician in this hospital and specializes in cardiac catheterization for a variety of cardiovascular diseases, particularly coronary artery disease and acute myocardial infarction. From 2017 to Japan's famous cardiovascular center Kokura Memorial Hospital to study, including endovascular ultrasound (IVUS), optical coherence tomography (OCT) and other cardiac catheterization and complex coronary intervention. Intravascular imaging such as IVUS or OCT with angiography can provide more accurate diagnosis of coronary artery disease, understand atherosclerotic plaque characteristics and guide stent selection and placement to reduce complications. In patients with chronic kidney disease, IVUS-guided PCI reduces the amount of developer needed to protect renal function. Dr. Chen is also good at general cardiac ultrasound, interventional esophageal ultrasound and pressure ultrasound to diagnose a variety of heart valve diseases and ischemic heart disease. He is currently involved in various cardiovascular interventions including peripheral vascular therapy, transcatheter aortic valve replacement, left atrial appendage plug placement, and pulmonary embolism catheter thrombolysis.

### **EDUCATION**

Department of Medicine, China Medical University  
China Medical University Institute of Clinical Medicine Ph.D.

### **EXPERIENCE**

Research Physician, Division of Cardiovascular Medicine, China Medical University Hospital  
Attending Physician, Division of Cardiovascular Medicine, China Medical University Hospital  
Republic of China Internal Medicine specialist, ROC cardiology specialist  
ROC Cardiac Cardiovascular Intervention Specialist  
Taiwan Interventional Cardiovascular Medical Association  
Kitakura Memorial Hospital in Kitakyushu, Japan circulator medical training physician



Day 2  
(6/13)



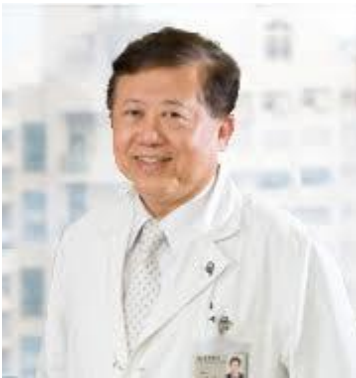
**TAVR**

**Past, Present, and Future (I)**

# TAVR

## Past, Present, and Future (I)

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## Moderator

**Jeng Wei**

Superintendent, Cheng Hsin General Hospital

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### **MEDICAL DEGREES:**

- Bachelor of Medicine, National Defence Medical Centre, Taipei, Taiwan (1974/8)
- Doctor of Medical Science, College of Physicians and Surgeons, Columbia University, New York City, U.S.A. (1982/10)

### **ADMINISTRATIVE APPOINTMENTS:**

- Superintendent, Cheng-Hsin General Hospital, Taipei (2019/4-present)
- Board Director of Cheng-Hsin General Hospital, Taipei (2010-present)
- Director, Heart Centre, Cheng-Hsin General Hospital, Taipei (1999/3-2019/3)
- Superintendent, Cheng-Hsin General Hospital, Taipei (1996/1-1999/3)
- Deputy director, Cheng-Hsin General Hospital, Taipei (1995/8-1996/1)
- Chairman, Department of Surgery, Cheng-Hsin General Hospital, Taipei. (1994/8-1996/1)
- Chairman, Department of Surgery, Tri-Service General Hospital and National Defence Medical Centre, Taipei, Taiwan. (1990/4-1994/8)
- Chief, Division of Cardiovascular Surgery, Tri-Service General Hospital, Taipei, Taiwan. (1982/10-1994/8)

### **ACADEMIC APPOINTMENTS:**

- Professor of Surgery, National Defence Medical Centre. (1992/8-present)
- Professor of Surgery, Taipei Medical University. (2008-2012)
- Professor of Surgery, National Yang-Ming University. (1996/8-2005/6)
- Associate Professor of Surgery, National Defence Medical Centre. (1982/10-1992/8)
- Lecturer of Surgery, National Defence Medical Centre. (1978/8 - 1982/9)
- Instructor of Surgery, National Defence Medical Centre. (1974/8 - 1978/7)



# TAVR

## Past, Present, and Future (I)

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## Moderator

### Wei-Hsian Yin

Vice president, Cheng Hsin General Hospital

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#### MEDICAL EXPERTISE

1. Complex cardiac catheterization therapeutic procedures, including Percutaneous transluminal coronary angioplasty (PTCA), coronary artery stenting, coronary artery rotablation, treatment for left main chronic total occlusion and other coronary arteries occlusion.
2. Treatment for complex structural heart diseases, including Transcatheter Aortic Valve Implantation (TAVI), Transcatheter treatment for congenital and acquired heart diseases.
3. Implantation of pacemaker and follow-up
4. Transthoracic and Transesophageal Echocardiography
5. Cardiology, Cardiovascular medicine, Emergency and Intensive care medicine

#### EDUCATION

1. National Yang-Ming University, School of Medicine, Ph.D.
2. National Defense Medical Center, M.D.

# TAVR

## Past, Present, and Future (I)

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### Moderator/Speaker

Management of aortic stenosis: Current evidence and my update to guidelines

#### Jian Ye

MSc MD FRCSC

Clinical Professor and Cardiac Surgeon

Director of Clinical Cardiac Surgery Research, UBC

Active Staff, Vancouver General Hospital and St. Paul's Hospital

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#### SPECIAL INTERESTS

1. Complex mitral valve repair
2. Minimally invasive transcatheter heart valve surgery
3. Aortic surgery
4. Off-pump coronary artery bypass
5. Clinical and basic research

#### PRESENT ACADEMIC POSITIONS

• **Clinical Professor Director of Research**

Division of Cardio-Thoracic Surgery Faculty of Medicine, University of British Columbia, Vancouver, Canada (2010-present)

• **Attending Cardiac Surgeon**

Division of Cardiovascular Surgery, St. Paul's Hospital and Vancouver General Hospital Vancouver, Canada(2004-present )

#### MEDICAL EDUCATION AND PROFESSIONAL TRAINING

• **Degree: MD.** (Wenzhou Medical College Wenzhou, Zhejiang, P. R. C. )

• **Cardiovascular Research Fellow** (full time) Division of Cardiology, University Hospitals, School of Medicine, Case Western Reserve University, Cleveland, OH, U.S.A.

• **Resident in Cardiac Surgery** (full time) , Section of Cardiac Surgery, Faculty of Medicine, University of Manitoba Winnipeg, Manitoba, Canada

• **Clinical Fellow** (full time) Division of Cardiovascular Surgery, Faculty of Medicine, University of British Columbia Vancouver, BC, Canada

#### PROFESSIONAL EXPERIENCE

• **Director of Research:** Division of Cardiovascular Surgery University of British Columbia Vancouver, BC, Canada (2009 January- Present)

• **Clinical Professor (full time)** Division of Cardiovascular Surgery Faculty of Medicine, University of British Columbia Vancouver, Canada (2010 July- Present)

# TAVR

## Past, Present, and Future (I)

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### USA/Speaker

### Surgical aortic valve replacement in current era

**Vinayak (Vinnie) Bapat**

NewYork-Presbyterian/Columbia

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#### **EXPERTISE**

Mitral Valve Repair

Honors:

European Association of Cardiothoracic Surgery. Techno-College Award for Innovation, 2013

#### **ABOUT**

I have just joined NewYork-Presbyterian Columbia University Medical Center (CUMC) in the field of cardiac and valve surgery and interventions. As Assistant Professor of Surgery at Columbia University Medical Center and Director, Transcatheter Valve Therapy in the Section of Cardiac Surgery, I am eager to advance care and bring innovative approaches to the treatment of heart disease, especially heart valve disease.

I come from a family of physicians and received my medical degree from Seth G.S. Medical School & King Edward VII Memorial Hospital, Mumbai, where I completed residencies in both general surgery and cardiothoracic surgery. During my residency, I continued to publish and present nationally and internationally. Throughout my training my area of interest was valve surgery and aortic surgery. In 1998, I received a fellowship at the Royal College of Surgeons in Edinburgh.

I was later appointed in Guys and St. Thomas' Hospital, London as attending. Guys and St. Thomas' is a world renowned and historical place. There, I specialized in complex valve surgery including infective endocarditis and reoperations, and in aortic surgery. I initiated in later years the aortic dissection service and we became the highest-volume dissection center in the UK. I also led the minimally invasive (key-hole) aortic valve replacement program (MIS) and pioneered the use of sutureless valves. In addition, I established the Anterior Right Thoracotomy (ART) approach for aortic valve replacement in the UK and have trained others in the UK, Europe and Asia in this approach.

Working at the forefront of Transcatheter Aortic Valve Replacement (TAVR) at Guys and St. Thomas' Hospital which has the largest TAVR program in the UK, I developed new methods of performing TAVR which led to improved patient outcomes all over the world (transaortic approach). Further, I led the field in valve-in-valve therapy and have developed smartphone Apps to guide users in this procedure. The Apps are used by all TAVR users globally.

As a researcher, I have been involved in an early feasibility study of transcatheter mitral valve implantation (TMVR) and performed the first-in-man implant of Edwards' FORTIS device (February 2014) and of Medtronic's Intrepid device (2015). I am highly experienced in the use of TAVR devices in the mitral position, especially in complex scenarios. Currently, I sit on the advisory boards of numerous companies creating new mitral valve technologies, with a special interest in valve design and transcatheter mitral valve treatment.

# MEET THE EXPERTS

## Past, Present, and Future (I)

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### Moderator/Speaker

TAVR in patients with small anatomies and heavily calcified valves

**Kentaro Hayashida**

Keio University School of Medicine, Tokyo, Japan

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#### ACADEMIC BACKGROUND

Dr. Kentaro Hayashida graduated from Keio University School of Medicine in Japan in 2000 where he obtained his PhD in Cardiology in 2006. In 2009 Dr. Hayashida did his Interventional Cardiology Fellowship at the Institute Cardiovasculaire Paris Sud, Massy, in France.

#### CURRENTS STATUS

He is currently Assistant professor and lecturer; Director of transcatheter heart valve program and Director of cardiac catheterization laboratory at Department of Cardiology, Keio University School of Medicine in Japan.

In 2008 and 2012, he was honored with the Young Investigators Award at the American College of Cardiology.

He is currently Scientific Committee and Faculty Member of International and Domestic medical conferences like PCR Tokyo valves (Course Director); PCR London valves (International Course Co-Director); Asia PCR (Course Co-Director); EuroPCR (Faculty); Complex Cardiovascular Therapeutics, SHD course (Course Director); Tokyo Percutaneous Cardiovascular Intervention Conference (Course Co-director); Japanese Heart Failure Society (Member of device committee); JHVD (Faculty); Toyohashi live demonstration (Program committee member and organizer).

# TAVR

## Past, Present, and Future (I)

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### Moderator/Speaker

### TAVR in Patients with Coronary Disease

#### Duk-Woo Park

Professor , Asan Medical Center

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Duk-Woo Park, MD, PhD, is a interventional cardiologist at Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea.

He graduated and earned MD from University of Kyoung-Hee Medical College, Seoul, KOREA. His postgraduate training was spent with an internship and residency at Asan Medical Center.

He also completed fellowships in cardiovascular medicine and interventional cardiology at Asan Medical Center. He also experienced research fellowship at the Duke Clinical Research Institute (Durham, NC, USA). He is now professor of division of cardiology and a director of interventional catheterization laboratory, Asan Medical Center as well as program director and co-chair of TCTAP, AP-Valve, and Complex PCI Scientific Meeting. He has been the principal investigator (PI) or Co-PI investigators of the PRECOMBAT, BEST, MAINCOMPARE, and DES-LATE trials, which were published in NEJM. He was awarded with Douglas P. Zipes Distinguished Young Scientist Award at the 2012 ACC, Chicago, IL. His primary research interest has been in coronary revascularization strategy (PCI or CABG), antithrombotic strategy, coronary stents, valvular interventions (TAVR or TMVR), biomarker research, and outcome research.

# TAVR

## Past, Present, and Future (I)

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### Speaker

#### New TAVR devices

#### **Martin Ng**

Alfred Cardiology , Royal Prince Alfred Hospital Medical Centre

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#### **BIOGRAPHY**

Associate Professor Martin Ng is an interventional cardiologist at RPA and Macquarie University Hospital with strong interests in clinical, scientific and technological innovation in cardiology. As founder of the transcatheter heart valve program i.e. "key hole aortic valve replacements" at RPA, he has established a program that has set benchmarks for excellence in clinical outcomes and that has pioneered world firsts in minimally invasive treatment of heart disease.

Dr Ng graduated with First Class Honour in Medicine from the University of Sydney, where he completed his MBBS in 1993. He holds a PhD in cardiovascular medicine from the University of Sydney. He undertook his training in interventional cardiology at Stanford University Medical Center (Stanford, California, U.S.A.)

Synergistic to his clinical interests, Dr Ng heads a National Health and Medical Research Council (NHMRC) supported bench-to-bedside biomedical research program, that seeks to address unmet patient needs by developing new treatments for heart disease.

#### **CURRENT APPOINTMENTS**

Head of Structural Heart Program and Senior Staff Specialist in Interventional Cardiology, Royal Prince Alfred Hospital

Professor of Cardiovascular Medicine and Bioengineering, University of Sydney

Head, Discipline of Cardiology and Head of Structural Heart Program, Macquarie University Hospital

Founder and Chief Medical Officer, Endoluminal Sciences Pty Ltd

## **David Operation**

# David Operation

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## Moderator/Speaker

### David Operation: Past, Current and the future

#### **Tirone E. David**

Toronto General Hospital

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University of Parana in 1968. He then trained in cardiovascular and thoracic surgery from 1970 to 1975 at the Cleveland Clinic in Ohio. Afterward, he immigrated to Canada, where he became a cardiovascular surgeon at the Toronto General Hospital, where he is now professor and head of the division of Cardiovascular Surgery.

Dr. David proposed a technique for a valve-sparing treatment for aortic insufficiency, due to dilatation of Valsalva sinuses. Dr. David's current research interests are centered on clinical outcomes of surgical treatment of aortic and mitral valve diseases, aortic root aneurysm, and connective disorders of the heart and great vessels. Dr. David is also known for his knowledge and use of the Ross Procedure for aortic valve replacement.

He is a past president of the American Association of Thoracic Surgeons and has received a host of the highest accolades in Canada and worldwide. He is even cited on Wikipedia.

In this interview, Dr. David discusses his routine techniques for sternotomy, cannulation, and routine aortic-valve replacement, including choice of valves and when to do a Ross procedure. Then he discusses his signature operation---the aortic valve sparing root replacement, with many valuable hints and tips.



# David Operation

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## Moderator

### Jian Ye

MSc MD FRCSC

Clinical Professor and Cardiac Surgeon

Director of Clinical Cardiac Surgery Research, UBC

Active Staff, Vancouver General Hospital and St. Paul's Hospital

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### SPECIAL INTERESTS

1. Complex mitral valve repair
2. Minimally invasive transcatheter heart valve surgery
3. Aortic surgery
4. Off-pump coronary artery bypass
5. Clinical and basic research

### PRESENT ACADEMIC POSITIONS

- **Clinical Professor Director of Research**

Division of Cardio-Thoracic Surgery Faculty of Medicine, University of British Columbia, Vancouver, Canada (2010-present)

- **Attending Cardiac Surgeon**

Division of Cardiovascular Surgery, St. Paul's Hospital and Vancouver General Hospital Vancouver, Canada (2004-present )

### MEDICAL EDUCATION AND PROFESSIONAL TRAINING

- **Degree: MD.** (Wenzhou Medical College Wenzhou, Zhejiang, P. R. C. )
- **Cardiovascular Research Fellow** (full time) Division of Cardiology, University Hospitals, School of Medicine, Case Western Reserve University, Cleveland, OH, U.S.A.
- **Resident in Cardiac Surgery** (full time) , Section of Cardiac Surgery, Faculty of Medicine, University of Manitoba Winnipeg, Manitoba, Canada
- **Clinical Fellow** (full time) Division of Cardiovascular Surgery, Faculty of Medicine, University of British Columbia Vancouver, BC, Canada

### PROFESSIONAL EXPERIENCE

- **Director of Research:** Division of Cardiovascular Surgery University of British Columbia Vancouver, BC, Canada (2009 January- Present)
- **Clinical Professor (full time)** Division of Cardiovascular Surgery Faculty of Medicine, University of British Columbia Vancouver, Canada (2010 July- Present)

# David Operation

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Moderator/Speaker

David Operation at CHGH

Jeng Wei

Superintendent, Cheng Hsin General Hospital

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## MEDICAL DEGREES:

- Bachelor of Medicine, National Defence Medical Centre, Taipei, Taiwan (1974/8)
- Doctor of Medical Science, College of Physicians and Surgeons, Columbia University, New York City, U.S.A. (1982/10)

## ADMINISTRATIVE APPOINTMENTS:

- Superintendent, Cheng-Hsin General Hospital, Taipei (2019/4-present)
- Board Director of Cheng-Hsin General Hospital, Taipei (2010-present)
- Director, Heart Centre, Cheng-Hsin General Hospital, Taipei (1999/3-2019/3)
- Superintendent, Cheng-Hsin General Hospital, Taipei (1996/1-1999/3)
- Deputy director, Cheng-Hsin General Hospital, Taipei (1995/8-1996/1)
- Chairman, Department of Surgery, Cheng-Hsin General Hospital, Taipei. (1994/8-1996/1)
- Chairman, Department of Surgery, Tri-Service General Hospital and National Defence Medical Centre, Taipei, Taiwan. (1990/4-1994/8)
- Chief, Division of Cardiovascular Surgery, Tri-Service General Hospital, Taipei, Taiwan. (1982/10-1994/8)

## ACADEMIC APPOINTMENTS:

- Professor of Surgery, National Defence Medical Centre. (1992/8-present)
- Professor of Surgery, Taipei Medical University. (2008-2012)
- Professor of Surgery, National Yang-Ming University. (1996/8-2005/6)
- Associate Professor of Surgery, National Defence Medical Centre. (1982/10-1992/8)
- Lecturer of Surgery, National Defence Medical Centre. (1978/8 - 1982/9)
- Instructor of Surgery, National Defence Medical Centre. (1974/8 - 1978/7)

# David Operation

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Moderator/Speaker

David Operation at CHGH

Jeng Wei

Superintendent, Cheng Hsin General Hospital

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## David Operation at Cheng Hsin General Hospital

Jeng Wei, M.D., D.Sc.

Cheng Hsin General Hospital, Taipei, Taiwan

### **Background:**

Aortic root repair is the treatment of choice for aortic root dilatation and dissection. Currently, the most common practice is to replace the aortic root with a valve-conduit, i.e., Bentall's operation. Valve-sparing aortic root repair is considered to be more cumbersome by most cardiac surgeons. There are two types of valve-sparing aortic root repair: (1) Yacoub's root remodeling surgery, and (2) David's operation. In David's operation, the aortic valve cusps and annulus is re-implanted in the Dacron graft, which prevents further dilatation of the aortic root.

### **Materials and methods:**

From 1995/11 to 2020/5/31, we had done 274 Bentall's operations: annulo-aortic ectasia (AAE) in 149, aortic dissection in 82, and redo aortic root replacement in 43 patients.

From 2013/4 to 2020/5/31, we had done 38 David's operations: AAE in 21, aortic dissection in 10, and Marfan's syndrome in 7 patients. Concomitant procedures include aortic valve repair in 7, CABG in 5, total arch replacement in 7, atrial fibrillation ablation in 5 patients.

### **Results:**

Half (48%) cases needed no blood transfusion. There were one surgical mortality and one late death. Long-term echocardiography showed no aortic regurgitation (AR) in 10, trivial-mild AR in 26, and moderate-severe AR in 2 patients. Both severe AR patients received transcatheter aortic valve replacement (TAVR) and are doing very well. One patient received heart transplantation and is still alive.

### **Conclusions:**

David's operation is feasible for many patients with aortic root diseases. The surgical mortality rate is low, and the late results are excellent. Due to the non-stretchable quality of the aortic root in David's operation, recurrent AR can be treated with TAVR.

# **Valve-in-Valve for Prosthetic valve Failure**

# Valve-in-Valve for prosthetic valve failure

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## Moderator

### Tien Ping Tsao

Director, Division of Cardiology, Heart Center, Cheng Hsin General Hospital,

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#### WORK EXPERIENCES

1. Cardiologist, Director, Cardiac Care Unit, Heart Centre, Cheng Hsin General Hospital
2. Director, Coronary Care Unit, Department of Critical Care Medicine, Tri-Service General Hospital
3. Specialist Registrar, Cardiology, Yorkshire Cardiac Centre, General Infirmary, Leeds, U.K.
4. Cardiologist, Cardiology & Medicine, Tri-Service General Hospital
5. Chief Resident, Department of Cardiology, Tri-Service General Hospital
6. Medical Service to West Africa (Republic of Liberia and Guine Bissau)
7. Resident, Tri-Service General Hospital
8. Former Councilor, Taiwan Society of Cardiovascular Intervention
9. Former Councilor, Taiwan Society of Lipids & Atherosclerosis

#### MEDICAL EXPERTIS

1. Diagnoses and treatment of adult cardiac diseases
2. Percutaneous transluminal coronary artery interventional treatment
3. Percutaneous transluminal peripheral artery interventional treatment
4. Percutaneous transluminal carotid artery interventional treatment

#### Education

M.D. National Defense Medical Centre

# Valve-in-Valve for prosthetic valve failure

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## Moderator

### Chi-Jen Chang

International Medical Center, CHANG GUNG MEMORIAL HOSPITAL

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#### **CURRENT POSITION**

Vice Director of cardiovascular intervention center,  
Chang Gung Memorial Hospital, Taipei, Taiwan

#### **EDUCATION**

Sep 1982 to Jun 1988, Kaohsiung Medical College, Kaohsiung, Taiwan.

#### **PROFESSIONAL APPOINTMENTS**

**Residency:** July 1991 to Jun 1994 Department of Internal Medication Chung Gung Memorial Hospital, Taipei, Taiwan

**Fellowship:** July 1994 to Jun 1996 The First Cardiovascular Division Chang Gung Memorial Hospital, Taipei, Taiwan

**Fellowship:** Oct 1998 to Jan 1999, International Society of Thrombosis and Hemostasis. Thrombosis Research Institute, London UK.

**Attending Physician:** July 1996 till Now

**Assistant professor:** July 2003 to 2010, Chang Gung University, Taoyuan, Taiwan

**Associate professor:** from 2010 till now, Chang Gung University, Taoyuan, Taiwan

#### **PROFESSIONAL AFFILIATIONS**

The Society of Internal Medicine of Taiwan,

The Republic of China Society of Cardiology

The Society of Ultrasound in Medicine,.

#### **RESEARCH INTEREST**

Vascular biology

Cardiac remodeling in volume-overloaded heart

Interventional cardiology

# Valve-in-Valve for prosthetic valve failure

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Moderator

**David Smyth**  
ST GEORGE' s HOSPITAL

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## **AREAS of SPECIALISATION**

1. Angioplasty, Angina
2. Heart attacks
3. Valvular Heart Disease
4. Heart Muscle Disease
5. Cardiac Risk Assessment

## **SPECIALIST TRAINING**

Trained in Cardiology at Kings College Hospital, London

## **EDUCATION**

M.D. (London), FRCP, FRACP

## **POSITIONS & MEMBERSHIPS**

1. Clinical Director of Cardiology, Christchurch Hospital
2. Director of Catheter Laboratories, Christchurch Hospital
3. Member of Cardiac Society Australia and NZ

# Valve-in-Valve for Prosthetic Valve Failure

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## Moderator

**I-Chang Hsieh**

Linkou Chang Gung Memorial Hospital

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### **SPECIALTY**

Cardiovascular disease, Cardiac Catheterization

### **CURRENT POSTS**

1. Attending Cardiologist of Chang Gung Memorial Hospital
2. Director of PCI Center of Chang Gung Memorial Hospital
3. Associate professor of Chang Gung Memorial Hospital & Chang Gung University

### **EDUCATION**

Kaohsiung Medical College Kaohsiung, Taiwan

### **EXPERIENCE**

1. Assistant professor of Chang Gung Memorial Hospital & Chang Gung University
2. PCI training, De Wezenlanden Hospital, Zwolle. Netherland

### **PROFESSIONAL MEMBERSHIPS**

1. Taiwan Society of Cardiology
2. The Taiwan Society of Cardiovascular Intervention
3. Society of Emergency and Critical Care Medicine, Taiwan, R.O.C.
4. Taiwan Society of Internal Medicine



# Valve-in-Valve for prosthetic valve failure

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## Moderator



**Wei-Hsian Yin**

Vice president, Cheng Hsin General Hospital

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### **MEDICAL EXPERTISE**

1. Complex cardiac catheterization therapeutic procedures, including Percutaneous transluminal coronary angioplasty (PTCA), coronary artery stenting, coronary artery rotablation, treatment for left main chronic total occlusion and other coronary arteries occlusion.
2. Treatment for complex structural heart diseases, including Transcatheter Aortic Valve Implantation (TAVI), Transcatheter treatment for congenital and acquired heart diseases.
3. Implantation of pacemaker and follow-up
4. Transthoracic and Transesophageal Echocardiography
5. Cardiology, Cardiovascular medicine, Emergency and Intensive care medicine

### **EDUCATION**

1. National Yang-Ming University, School of Medicine, Ph.D.
2. National Defense Medical Center, M.D.

# Valve-in-Valve for Prosthetic valve Failure

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## Moderator/Speaker

### Introduction to Valve-in-Valve for Prosthetic Valve Failure

**Vinayak (Vinnie) Bapat**  
New York Presbyterian/Columbia

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#### EXPERTISES

Mitral Valve Repair

Honors:

European Association of Cardiothoracic Surgery. Techno-College Award for Innovation, 2013

#### ABOUT

I have just joined NewYork-Presbyterian Columbia University Medical Center (CUMC) in the field of cardiac and valve surgery and interventions. As Assistant Professor of Surgery at Columbia University Medical Center and Director, Transcatheter Valve Therapy in the Section of Cardiac Surgery, I am eager to advance care and bring innovative approaches to the treatment of heart disease, especially heart valve disease.

I come from a family of physicians and received my medical degree from Seth G.S. Medical School & King Edward VII Memorial Hospital, Mumbai, where I completed residencies in both general surgery and cardiothoracic surgery. During my residency, I continued to publish and present nationally and internationally. Throughout my training my area of interest was valve surgery and aortic surgery. In 1998, I received a fellowship at the Royal College of Surgeons in Edinburgh.

I was later appointed in Guys and St. Thomas' Hospital, London as attending. Guys and St. Thomas' is a world renowned and historical place. There, I specialized in complex valve surgery including infective endocarditis and reoperations, and in aortic surgery. I initiated in later years the aortic dissection service and we became the highest-volume dissection center in the UK. I also led the minimally invasive (key-hole) aortic valve replacement program (MIS) and pioneered the use of sutureless valves. In addition, I established the Anterior Right Thoracotomy (ART) approach for aortic valve replacement in the UK and have trained others in the UK, Europe and Asia in this approach.

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As a researcher, I have been involved in an early feasibility study of transcatheter mitral valve implantation (TMVR) and performed the first-in-man implant of Edwards' FORTIS device (February 2014) and of Medtronic's Intrepid device (2015). I am highly experienced in the use of TAVR devices in the mitral position, especially in complex scenarios. Currently, I sit on the advisory boards of numerous companies creating new mitral valve technologies, with a special interest in valve design and transcatheter mitral valve treatment.

# Valve-in-Valve for prosthetic valve failure

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## Moderator/Speaker

### Case 1: AViV and balloon fracturing

#### **Simon Cheung Chi Lam**

Queen Mary hospital, Hong Kong, China

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Dr. Simon Lam graduated from the Li Ka Shing Faculty of Medicine, University of Hong Kong in 2003. He is an interventional cardiologist from the Division of Cardiology, Department of Medicine, Queen Mary Hospital, Hong Kong. He received his post-fellowship training in Structural and Congenital Heart Intervention in CardioVasculares Centrum Frankfurt, Germany under Prof. Horst Sievert in 2012-2013. His special interests include transcatheter aortic valve implantation, left atrial appendage occlusion, MitraClip, closure of septal defects and paravalvular leaks, renal denervation, complex PCI and intracoronary optical coherence tomography. He is a physician proctor of structural heart intervention procedures, including Edwards SAPIEN Transcatheter Heart Valve and AMULET Left Atrial Appendage Occluder Device.

# **Hot Topics in TAVR**

# Hot topics in TAVR

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## Moderator

### **Jimmy Kim Fatt Hon**

**Assistant Professor, Department of Surgery, Yong Loo Lin School of Medicine,  
National University of Singapore**

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**Dr Jimmy Hon** is a Senior Consultant with the Department of Cardiac, Thoracic and Vascular Surgery of National University Heart Centre, Singapore (NUHCS). He is fully registered as a specialist in Cardiothoracic Surgery with both the United Kingdom General Medical Council and the Singapore Medical Council.

He graduated from The University of Bristol Medical School in the United Kingdom in 1996. He started his career as a research fellow pursuing basic science research under the direction of heart surgeon Professor Sir Magdi Yacoub in London. As a young researcher, he was one of the Principle Investigators who secured a British Heart Foundation project grant which led to numerous significant scientific publications.

He began his surgical training with the London St. Mary's Hospital Basic Surgical Training rotation and attained the Membership of The Royal College of Surgeons of England (MRCS (Eng)) and The Royal College of Surgeons of Edinburgh (MRCSEd) in 2003. He then went on to secure a position in the UK Calman specialist training program in Cardiothoracic Surgery and completed six years of intensive training in London to become a fully trained heart and lung surgeon. During his specialist training, Asst Prof Hon worked in many hospitals in London including The Royal Brompton Hospital, The London Chest Hospital, St. Bartholomew's Hospital and Guy's Hospital. He was able to acquire clinical experience in treating a broad range of heart and lung conditions. In 2008, he was awarded the Fellowship of The Royal College of Surgeons in Cardiothoracic Surgery (FRCS (C-Th)) and in 2009, he received his United Kingdom Certificate of Completion of Training (CCT). After receiving his UK CCT, Dr. Hon embarked on an advance Cardiac Surgery Fellowship to pursue his subspecialty interest in minimally invasive aortic valve surgery in Vancouver, Canada. During his fellowship, he learned Transcatheter Aortic Valve Implantation (TAVI) under the supervision of TAVI pioneers such as Dr. Anson Cheung and Dr. John Webb. He is currently involved in innovative projects investigating percutaneous mitral valve replacement.

### **ABSTRACT**

Severe symptomatic aortic valve regurgitation is a potentially lethal condition that severely curtails life expectancy and quality of life. Surgical aortic valve replacement has proven to be an effective treatment for this condition giving patients survival benefits compared to medical therapy alone. Furthermore in suitable selected patients, aortic valve repair may be performed with satisfactory results in high volume reference centers.

TAVI has been reported to treat pure aortic valve regurgitation in selected high risk patients with some success. Anatomical challenges and technology related limitations has prevented TAVI to be widely used to treat aortic valve regurgitation. Further innovations are needed to produce a fully dedicated device to overcome issues such as paravalvular leak, valve migration and higher pace maker implant rate. Finally long term durability of TAVI valves are still awaited and hence currently cannot warrant routine use in aortic regurgitant patients who are generally younger patients.

# Hot topics in TAVR

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## Moderator

### **Tien Ping Tsao**

**Director, Division of Cardiology, Heart Center, Cheng Hsin General Hospital,**

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#### **WORK EXPERIENCES**

1. Cardiologist, Director, Cardiac Care Unit, Heart Centre, Cheng Hsin General Hospital
2. Director, Coronary Care Unit, Department of Critical Care Medicine, Tri-Service General Hospital
3. Specialist Registrar, Cardiology, Yorkshire Cardiac Centre, General Infirmary, Leeds, U.K.
4. Cardiologist, Cardiology & Medicine, Tri-Service General Hospital
5. Chief Resident, Department of Cardiology, Tri-Service General Hospital
6. Medical Service to West Africa (Republic of Liberia and Guine Bissau)
7. Resident, Tri-Service General Hospital
8. Former Councilor, Taiwan Society of Cardiovascular Intervention
9. Former Councilor, Taiwan Society of Lipids & Atherosclerosis

#### **MEDICAL EXPERTIS**

1. Diagnoses and treatment of adult cardiac diseases
2. Percutaneous transluminal coronary artery interventional treatment
3. Percutaneous transluminal peripheral artery interventional treatment
4. Percutaneous transluminal carotid artery interventional treatment

#### **EDUCATION**

M.D. National Defense Medical Centre

# Hot topics in TAVR

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**Moderator**

**Luk Ngai Hong Vincent**

**Canossa Hospital**

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香港醫學專科學院院士 (內科) 2013

- 香港內科醫學院院士 2012
- 英國皇家內科醫學院院士 2008
- 香港中文大學內外全科醫學士 2005

# Hot topics in TAVR

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**Moderator**

**MAO-HSIN LIN**

National Taiwan University Hospital

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National Taiwan University Hospital: Taipei, TW  
Attending Physician (Department of Internal Medicine)

National Taiwan University College of Medicine: Taipei, TW  
Clinical Assistant Professor (Department of Internal Medicine)

National Taiwan University: Taipei, TW  
2008-09-01 to 2015-01-29 | PhD (Institute of Clinical Medicine)



# Hot topics in TAVR

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Moderator/Speaker

Cerebral protection in TAVR

Michael Kang-Yin Lee

Queen Elizabeth Hospital - Hong Kong

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Dr. Michael KY Lee is currently the Consultant Cardiologist and Director of Cardiac Catheterization Laboratory of Queen Elizabeth Hospital, Hong Kong. He is also the Honorary Clinical Associate Professor of both the University of Hong Kong and the Chinese University of Hong Kong. He graduated from The University of Hong Kong and received his overseas training in Interventional Cardiology at the Brigham & Women's Hospital, Harvard Medical School, Boston, USA from 1999 – 2000.

In 2010, Dr Lee established the Hong Kong Society of Transcatheter Endo-cardiovascular Therapeutics (HKSTENT) and became the Founding President. He is currently the Chairman of the Central Committee (Cardiac Service) of the Hong Kong Hospital Authority and has also been appointed the Chairman of the Research Committee of the Asian Pacific Society of Interventional Cardiology (APSIC) and serves as the Chairman of the Asia Pacific TAVI Registry Steering Committee. His special interests include Interventional Cardiology (Coronary and Structural Heart Interventions) and AMI/ACS management. Recently, he was appointed the Regional Champion for Asia of the "Stent Save a Life" Initiative to promote Primary PCI for STEMI in Asia as well as Chairman of the APAC HBR Club.

In Queen Elizabeth Hospital, he helped to establish the TAVI and Structural Heart Program and performed the first TAVI procedure in Hong Kong in 2010. He is the first cardiologist to use the Claret Sentinel Cerebral Protection Device in Asia in 2016. He is currently helping the Hospital Authority to establish the Primary PCI Program and Structural Heart Program in Hong Kong. He is also actively involved in the planning of the New Acute Hospital in Kai Tak area.

# Hot topics in TAVR

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## Speaker

## Updates in studies in TAVI

### Edgar Tay Lik Wui

Department of Cardiology, National University Heart Centre, Singapore

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#### WORK EXPERIENCES

1. Senior Consultant, Department of Cardiology, National University Heart Centre, Singapore
2. Visiting Senior Consultant, Cardiology, Ng Teng Fong General Hospital
3. Programme Director, Congenital/Structural Heart Disease Programme, National University Heart Centre, Singapore
4. Assistant Professor, Department of Medicine, Yong Loo Lin School of Medicine, National University of Singapore

#### SPECIALITY

Cardiology

#### SUB SPECIALTY

Adult Congenital, Interventional Cardiology, Pulmonary Hypertension

#### Medical and Surgical Conditions

Acute Coronary Syndrome, Aortic Aneurysm & Aortic Dissection, Aortic Valve Stenosis, Arrhythmias (Heart Rhythm Disorders), Cardiomyopathy, Carotid Artery Disease, Coronary Artery Disease (Heart Disease), Effusion or Empyema, Heart Attack, Heart Failure, Heart Valve Disease, Mediastinal Disorders, Peripheral Arterial Disease (PAD), Pulmonary Hypertension

#### SPECIAL INTERESTS

1. Structural Intervention
2. Adult Congenital Heart Disease
3. Pulmonary hypertension
4. Pregnancy and heart disease
5. Cardiac computed tomography
6. Valve disease
7. Congenital heart Disease
8. Pulmonary Hypertension
9. Pregnancy and Heart Disease

# Hot topics in TAVR

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## Moderator/Speaker

### Anti-coagulation or anti-platelet after TAVR

#### Kiyuk Chang

Professor, Division of Cardiology, Department of Internal Medicine, College of Medicine, The Catholic University of Korea

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#### POST-GRADUATE TRAINING & CURRENT POSITION

- 2014.4 –Present **Professor**, The Catholic University of Korea, Cardiology Division, Seoul St. Mary's Hospital, Seoul, Korea
- 2009.4–2014.3 **Associate Professor**, The Catholic University of Korea, Cardiology Division, Seoul St. Mary's Hospital, Seoul, Korea
- 2004.4 –2009.3 **Assistant Professor**, The Catholic University of Korea, Cardiology Division, Seoul, St. Mary's Hospital
- 2007.3 –2009.2 **Research Fellow in Medicine**, Cardiovascular Research Center, Massachusetts General Hospital, Harvard Medical School, Boston, MA
- 1998.3 – 2000.2 **Cardiology Fellow** Dept. of Internal Medicine, Catholic Medical Center(CMC), College of Medicine, The Catholic University of Korea, Seoul, Korea
- 1994.3 –1998.2 **Residency in Internal Medicine**, Dept. of Internal Medicine, Catholic Medical Center(CMC), College of Medicine, The Catholic University of Korea, Seoul, Korea
- 1989.5–1990.2 **Rotating Internship**, Catholic Medical Center(CMC), College of Medicine, The Catholic University of Korea, Seoul, Korea

#### EDUCATION

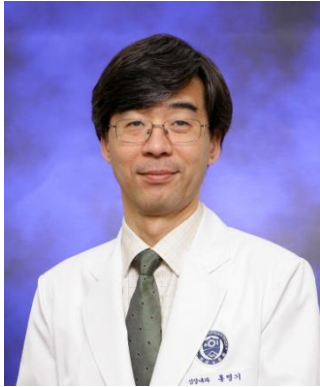
- 2007.3 - 2009.2 Harvard Medical School, Boston, MA, USA (Postdoc)
- 2000.3 - 2003.2 Catholic University Graduate School, Seoul, Korea (Ph.D.)
- 1997.3 - 1999.8 Catholic University Graduate School, Seoul, Korea (M.S.)
- 1983.3 - 1989.2 Catholic University Medical College, Seoul, Korea (M.D.)

#### RECENT PRESENTATIONS

- **Left main stenting: Korean experience, Event : ESC Congress**  
2017 Session : Challenges in complex PCI, Joint with the Asian Pacific Society of Cardiology
- **Long-term clinical outcome of angiotensin-converting enzyme inhibitor versus angiotensin II receptor blocker in patients with acute myocardial infarction undergoing percutaneous coronary intervention, Event : ESC Congress 2015,**  
Session : Angina pectoris stable V,  
Speaker : K Chang (Seoul, KR)

# Hot topics in TAVR

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## Speaker

### How to preserve renal function in CKD patients for TAVI?

#### **Myeong-Ki Hong**

Severance Hospital - Seoul, Korea

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#### **MEDICAL EDUCATION**

- 1982 - 1986 M.D. Yonsei University, College of Medicine, Seoul, Korea
- 1993 - 1997 Ph.D. Yonsei University, College of Medicine, Seoul, Korea.

#### **PROFESSIONAL EXPERIENCES**

- 1993 - 1994 Cardiology Fellow, Division of Cardiology, Department of Internal Medicine, Yonsei University Hospital, Seoul, Korea
- 1994 - 1995 Cardiology Fellow, Division of Cardiology, Department of Internal Medicine, University of Ulsan, College of Medicine, Asan Medical Center, Seoul, Korea
- 1995.3 – 1997.3 Instructor of Medicine, Division of Cardiology, Department of Internal Medicine, University of Ulsan, College of Medicine, Asan Medical Center, Seoul, Korea
- 1997.9 –1998.8 Research Fellow Intravascular Ultrasound Laboratory, Interventional Cardiology, Washington Cardiology Center, Washington, DC, USA
- 1997.4 – 2006.3 Assistant Professor of Medicine, Division of Cardiology, Department of Internal Medicine, University of Ulsan, College of Medicine, Asan Medical Center, Seoul, Korea
- 2006. 4 – 2009.2 Professor of Medicine, Division of Cardiology, Department of Internal Medicine, University of Ulsan, College of Medicine, Asan Medical Center, Seoul, Korea
- 2009. 3 – present Professor of Medicine, Division of Cardiology, Department of Internal Medicine, Yonsei University College of Medicine, Severance Cardiovascular Hospital, Seoul, Korea

# Hot topics in TAVR

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## Speaker

**Minimal invasive surgical aortic valve replacement**

**Daniel Tai-Leung Chan**

Queen Mary Hospital

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Dr. Daniel Tai-leung Chan is a consultant surgeon at the Department of Cardiothoracic Surgery of Queen Mary Hospital, Hong Kong. After obtaining a Fellowship in Cardiothoracic Surgery of the College of Surgeons of Edinburgh in 2009, he pursued advanced training in cardiac surgery especially minimally invasive approaches in East Carolina University, USA, under the guidance of Prof. Randolph Chitwood. He performs a full range of cardiac surgeries from coronary and valvular surgeries to heart transplantations, while his special clinical and research interests are in minimally invasive cardiac surgery and transcatheter procedures.

# Hot topics in TAVR

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## Speaker

### How to complete transfemoral TAVI

#### Toru Naganuma

Department of Cardiology, New Tokyo Hospital, Chiba, Japan

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#### EDUCATION

- 1998 – 1999  
Pre-medical Course - Yamaguchi University School of Medicine, Yamaguchi, Japan
- 1999 – 2004  
Medical Course - Yamaguchi University School of Medicine, Yamaguchi, Japan
- 2004 – 2006  
Resident of Hiroshima City Asa Hospital, Hiroshima, Japan

#### PROFESSIONAL CAREER

- 2006 - 2009  
Department of Cardiology, Hiroshima City Asa Hospital, Hiroshima, Japan
- 2009 - 2012  
Department of Cardiology, New Tokyo Hospital, Chiba, Japan
- 2012 - 2014  
Interventional Cardiology Unit, San Raffaele Scientific Institute, EMO-GVM Centro Cuore Columbus, Milan, Italy
- 2014-Present  
Department of Cardiology, New Tokyo Hospital, Chiba, Japan

# **TAVR**

## **Present, Current and Future [II]**

# TAVR

## Present, Current and Future [II]

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### Moderator/Speaker

#### Mid-term and long-term follow-up after TAVR

#### Lars Søndergaard

Professor of Cardiology, Cardiac Cath. Lab., Centre for Cardiac, Vascular, Pulmonary and Infectious Diseases and the University of Copenhagen.

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#### RESEARCH AREAS

1. Congenital heart disease
2. Transcatheter valve therapy

#### EDUCATION

General Certificate of Secondary Education in mathematical physics. Aalborg Katedralskole 1980.

#### DEGREE IN MEDICINE

Faculty of Health and Medical Science, University of Copenhagen 1988.  
Specialist in cardiology 2001.

#### SCIENTIFIC THESIS (MDSci., dr. med.):

Faculty of Health and Medical Sciences, University of Copenhagen, 2004.

#### CURRENT POSITION

1. Professor of Cardiology, University of Copenhagen, Denmark
2. Consultant Cardiology, Rigshospitalet, Blegdamsvej 9, 2100 Copenhagen, Denmark.



# TAVR

## Present, Current and Future [II]

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## Moderator

### Tien Ping Tsao

Director, Division of Cardiology, Heart Center, Cheng Hsin General Hospital,

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#### WORK EXPERIENCES

1. Cardiologist, Director, Cardiac Care Unit, Heart Centre, Cheng Hsin General Hospital
2. Director, Coronary Care Unit, Department of Critical Care Medicine, Tri-Service General Hospital
3. Specialist Registrar, Cardiology, Yorkshire Cardiac Centre, General Infirmary, Leeds, U.K.
4. Cardiologist, Cardiology & Medicine, Tri-Service General Hospital
5. Chief Resident, Department of Cardiology, Tri-Service General Hospital
6. Medical Service to West Africa (Republic of Liberia and Guine Bissau)
7. Resident, Tri-Service General Hospital
8. Former Councilor, Taiwan Society of Cardiovascular Intervention
9. Former Councilor, Taiwan Society of Lipids & Atherosclerosis

#### MEDICAL EXPERTIS

1. Diagnoses and treatment of adult cardiac diseases
2. Percutaneous transluminal coronary artery interventional treatment
3. Percutaneous transluminal peripheral artery interventional treatment
4. Percutaneous transluminal carotid artery interventional treatment

#### EDUCATION

M.D. National Defense Medical Centre

# TAVR

## Present, Current and Future [II]

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## Moderator

### **Michael Kang-Yin Lee**

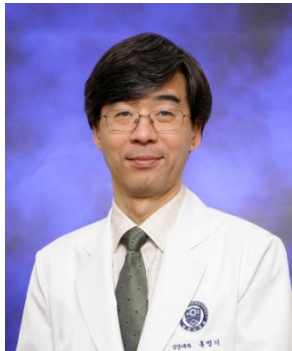
Queen Elizabeth Hospital - Hong Kong

---

Dr. Michael KY Lee is currently the Consultant Cardiologist and Director of Cardiac Catheterization Laboratory of Queen Elizabeth Hospital, Hong Kong. He is also the Honorary Clinical Associate Professor of both the University of Hong Kong and the Chinese University of Hong Kong. He graduated from The University of Hong Kong and received his overseas training in Interventional Cardiology at the Brigham & Women's Hospital, Harvard Medical School, Boston, USA from 1999 – 2000.

In 2010, Dr Lee established the Hong Kong Society of Transcatheter Endo-cardiovascular Therapeutics (HKSTENT) and became the Founding President. He is currently the Chairman of the Central Committee (Cardiac Service) of the Hong Kong Hospital Authority and has also been appointed the Chairman of the Research Committee of the Asian Pacific Society of Interventional Cardiology (APSIC) and serves as the Chairman of the Asia Pacific TAVI Registry Steering Committee. His special interests include Interventional Cardiology (Coronary and Structural Heart Interventions) and AMI/ACS management. Recently, he was appointed the Regional Champion for Asia of the "Stent Save a Life" Initiative to promote Primary PCI for STEMI in Asia as well as Chairman of the APAC HBR Club.

In Queen Elizabeth Hospital, he helped to establish the TAVI and Structural Heart Program and performed the first TAVI procedure in Hong Kong in 2010. He is the first cardiologist to use the Claret Sentinel Cerebral Protection Device in Asia in 2016. He is currently helping the Hospital Authority to establish the Primary PCI Program and Structural Heart Program in Hong Kong. He is also actively involved in the planning of the New Acute Hospital in Kai Tak area.



## Moderator

### **Myong-Ki Hong**

Yonsei University College Of Medicine, Seoul, Korea

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### **EDUCATION**

1980 - 1982 Yonsei University, College of Natural Science, Seoul, Korea (premedical education)

1982 - 1986 M.D. Yonsei University, College of Medicine, Seoul, Korea

1993 - 1997 Ph.D. Yonsei University, College of Medicine, Seoul, Korea

### **POST - GRADUATE TRAINING and CURRENT POSITION**

1986 - 1987 Internship, Yonsei University Hospital, Seoul, Korea

1987 - 1990 Residency in Internal Medicine, Yonsei University Hospital, Seoul, Korea

1990 - 1993 Military Service as a doctor

1993 - 1994 Cardiology Fellow, Division of Cardiology, Department of Internal Medicine, Yonsei University Hospital, Seoul, Korea

1994 - 1995 Cardiology Fellow, Division of Cardiology, Department of Internal Medicine, University of Ulsan, College of Medicine, Asan Medical Center, Seoul, Korea

1995.3 – 1997.2 Instructor of Medicine, Division of Cardiology, Department of Internal Medicine, University of Ulsan, College of Medicine, Asan Medical Center, Seoul, Korea

1997.9 – 1998.8 Research Fellow, Intravascular Ultrasound Laboratory, Interventional Cardiology, Washington Cardiology Center, Washington, DC, USA

1997.3 – 2001.2 Assistant Professor of Medicine, Division of Cardiology, Department of Internal Medicine, University of Ulsan, College of Medicine, Asan Medical Center, Seoul, Korea

2001.3 – 2006.2 Associate Professor of Medicine, Division of Cardiology, Department of Internal Medicine, University of Ulsan, College of Medicine, Asan Medical Center, Seoul, Korea

2006. 3 – 2009.2 Professor of Medicine, Division of Cardiology, Department of Internal Medicine, University of Ulsan, College of Medicine, Asan Medical Center, Seoul, Korea

2009. 3 – present Professor of Medicine, Division of Cardiology, Department of Internal Medicine, Yonsei University College of Medicine, Severance Cardiovascular Hospital, Seoul, Korea

2018.1 – present Member of National Academy of Medicine of Korea

# TAVR

## Present, Current and Future [II]

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## Moderator

### **Wei-Hsian Yin**

Vice president, Cheng Hsin General Hospital

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#### **MEDICAL EXPERTISE**

1. Complex cardiac catheterization therapeutic procedures, including Percutaneous transluminal coronary angioplasty (PTCA), coronary artery stenting, coronary artery rotablation, treatment for left main chronic total occlusion and other coronary arteries occlusion.
2. Treatment for complex structural heart diseases, including Transcatheter Aortic Valve Implantation (TAVI), Transcatheter treatment for congenital and acquired heart diseases.
3. Implantation of pacemaker and follow-up
4. Transthoracic and Transesophageal Echocardiography
5. Cardiology, Cardiovascular medicine, Emergency and Intensive care medicine

#### **EDUCATION**

1. National Yang-Ming University, School of Medicine, Ph.D.
2. National Defense Medical Center, M.D.

# TAVR

## Present, Current and Future II

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### Speaker

**TAVR in the Future, How Do We Improve our Life**

### Alain Cribier

MTC (Medical Training Center) in Rouen (France)

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Prof. Alain Cribier, MD, has been for 20 years the Chief of Cardiology at Hospital Charles Nicolle, University of Rouen, France.

He is since 2011 Professor Emeritus and Consultant at this University. He graduated from the University of Paris. After a fellowship at Cedars-Sinai Medical Center in Los-Angeles, he joined the department of cardiology at Charles Nicolle Hospital in Rouen in 1977 and became a Director of the Department.

He became widely recognized for having performed the first balloon dilatation of the aortic valve for the treatment of calcific aortic stenosis in 1985 and then conceived and developed after 10 years of research, the technique of transcatheter implantation of aortic valves (TAVI), performing the first ever TAVI case in Rouen in 2002. This last innovative technology (Transcatheter Aortic Valve Implantation: TAVI) has opened a revolutionary less invasive way of treating aortic stenosis in patients at high risk for conventional surgery. The disruptive technology is today recognized by the whole medical community as a breakthrough with a durable impact on the pattern of medical practice.

More than 150 000 patients have been treated worldwide, and TAVI has been approved by the FDA in the USA since 2011. He is still strongly involved with the development of new devices for TAVI. Prof Cribier had received many prestigious scientific distinctions and awards in France, Europe, United States, South America, Israel and Asia for his pioneering work, and in 2012, he obtained the most recognized top French national distinction, the Legion of Honour received from the hands of Prof Alain Carpentier, the world famous cardiac surgeon. He has published more than 600 indexed articles in the field of interventional cardiology, PCI, and valvular disease and innovative technologies.

# TAVR

## Present, Current and Future II

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### Speaker

### TAVR for younger patients in low surgical risk

#### **Ariel Finkelstein**

Director Cardiac Catheterization, Tel Aviv Medical Center.

---

**1984:** Graduated Ben Gurion Medical School in Israel, and since then became board certified for Internal Medicine as well as board certified for cardiology at the Tel Aviv University.

**1988-1992:** Fellowship in cardiology at the Tel Aviv Medical Center

**1998-2001:** Fellowship in Interventional Cardiology at Ceders-Sinai Medical Center, and UCLA school of medicine in Los Angeles, USA.

**2005-Present:** Director of cardiac catheterization and Intervention at the Tel Aviv Medical Center, Tel Aviv, Israel, until present.

: Professor of Cardiology at the Tel Aviv University 2010

**2012-2016:** President of the Israel Society for Interventional Cardiology  
Performed so far more than 2,000 TAVI procedures at the Tel Aviv Medical Center, and assisted in many hundreds as a proctor around the world.

**Published more than 250 peer review scientific papers, reviews and book chapters.**

# **Therapies of Mitral Valve Disease**

# Therapies of Mitral Valve Disease

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## Moderator

### **Wei-Hsian Yin**

Vice president, Cheng Hsin General Hospital

---

#### **MEDICAL EXPERTISE**

1. Complex cardiac catheterization therapeutic procedures, including Percutaneous transluminal coronary angioplasty (PTCA), coronary artery stenting, coronary artery rotablation, treatment for left main chronic total occlusion and other coronary arteries occlusion.
2. Treatment for complex structural heart diseases, including Transcatheter Aortic Valve Implantation (TAVI), Transcatheter treatment for congenital and acquired heart diseases.
3. Implantation of pacemaker and follow-up
4. Transthoracic and Transesophageal Echocardiography
5. Cardiology, Cardiovascular medicine, Emergency and Intensive care medicine

#### **EDUCATION**

1. National Yang-Ming University, School of Medicine, Ph.D.
2. National Defense Medical Center, M.D.



# Therapies of Mitral Valve Disease

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## Moderator

### **Tianxiang Gu**

Department of Cardiac Surgery, First Affiliated Hospital, China Medical University

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#### **PROFESSIONAL INTERESTS**

- 1.surgery for heart failure
- 2.congenital heart surgery
- 3.surgery for atrial fibrillation
- 4.OPCABG and CABG
- 5.aortic surgery

#### **EDUCATION**

M.D., China Medical University

#### **RECENT PUBLICATION**

JOURNAL of the AMERICAN COLLEGE of CARDIOLOGY

Volume 75, Issue 17, May 2020DOI: 10.1016/j.jacc.2020.01.063

Cardiac Output and Blood Supply of Cardiomyocytes May Be, Determinants of Clinical Outcomes in AR. Xuan Jiang, Yuhai Zhang and Tianxiang Gu

# Therapies of Mitral Valve Disease

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## Moderator/Speaker



**Surgical Mitral Valve Repair is still gold-standard for MR**

### Nguyen Van Phan

Head of Cardiac Surgery Department-Heart Institute-Ho chi Minh city-  
Alain Carpentier Foundation

---

#### EDUCATION & QUALIFICATION

1. 1985: MD, Medical University- Ho chi Minh city-Viet Nam
2. 1985-1989: Fellowship on General Surgery- Binh Dan hospital –VietNam
3. 1989-1992: Fellowship on Cardio-Vascular Surgery at Broussais Hospital-Paris-France
4. 1992: Diploma of Cardio-vascular Surgery-Pierre-Descartes Universit-Paris VI-Paris-France
5. 1992 to present: Head of Cardiac Surgery Department-Heart Institute-Ho Chi Minh City
6. Alain Carpentier Foundation
7. 1998: Master of Science in Medicine
8. 2006: Doctor of Philosophy (PhD) in Medicine

#### CURRENT POSITION

1. Head of Cardiac Surgery Department-Heart Institute-Ho chi Minh city-Alain Carpentier Foundation
2. Head of Cardiac Surgery Department-Trieu An hospital-Ho chi Minh city
3. Director of Advanced Mitral Valve Repair Workshop (AMVAR)
4. Director of Master the Art of Mitral Valve Repair Workshop(MAMVR)
5. Vice Director-Heart Institute-Ho chi Minh city-Alain Carpentier Foundation

# Therapies of Mitral Valve Disease

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## Moderator/Speaker

### Mitral Repair in rheumatic heart disease

#### **Xu Meng**

Beijing An Zhen Hospital, Department of Cardiac Surgery

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#### **BACKGROUND**

- Nanjing Railway Medical College (B.S.1982)
- Beijing Nankou Railway Hospital General Surgery Residency (1982-1985)
- Beijing Heart Lung & Blood Vessel Medical Institute (M.D.1988)
- Beijing An Zhen Hospital (BAZH) Cardiac Surgery Residency (1988-1990)
- BAZH Cardiac Surgery Attending Doctor (1990-1993)
- BAZH Cardiac Surgery Vice Chief Doctor (1993-1998)
- BAZH Vice Director of Cardiac Surgery (1996- )
- BAZH Cardiac Surgery Chief Doctor (1998- )
- Presbyterian Hospital, Uni of Pittsburgh Medical Center Visiting Associate Prof (1996)

# Therapies of Mitral Valve Disease

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## Moderator/Speaker

1. Percutaneous mitral interventions: repair vs replacement
2. Case in a Box: Transcatheter Mitral Valve Repair

**Thomas Modine**  
Lille University Hospital

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## BIOGRAPHY

Thomas Modine graduated from Lille University Hospital, France. He has MD, PhD and MBA degrees and is a renowned surgeon in TAVI, TMVR, minimally invasive surgery and valve sparing techniques. He is also involved in basic science research programmes and is developing a percutaneous mitral programme with IP. From 2004 to 2006, Thomas completed a PhD thesis and then went on to complete a 1-and-a-half-year fellowship at Harefield Hospital, London. Later he dedicated his training to the development and progress of percutaneous techniques and heart team approach. His research interests are in aortic valve complex, bioengineering, beating heart surgery, hybrid approaches, TAVI and TMVR. Both basic and clinical aspects of research experiences are studied. He is currently working as a consultant cardiac surgeon at Lille University Hospital and professor at Jiao Tong University, Shanghai.

# Therapies of Mitral Valve Disease

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## Moderator/Speaker

1. Advances of transcatheter mitral valve therapies: Patient segmentation & clinical updates
2. Case in a box: Transcatheter mitral valve replacement

**Maurizio Taramasso**

University Hospital of Zürich

---

### EDUCATION RESPONSIBILITIES AND MEETING ORGANISATION

Specialist in cardiac surgery since 2014, Dr. Maurizio Taramasso has completed his surgical training at the San Raffaele University Hospital in Milan, Italy. He has also done specific cross-training in interventional cardiology and heart valve transcatheter therapies (mitral and aortic) at the San Raffaele University Hospital. In 2012 he completed a Fellowship in Aortic Surgery at the Hannover Medical School. His main areas of interest include surgical and catheter treatments of valvular heart disease (transfemoral and transapical TAVI, MitraClip) and heart failure. He is author and co-author of numerous publications on this topic.

### ARTICLES

Transcatheter Edge-to-edge Repair of Severe Tricuspid Regurgitation

Shu-I Lin, Mizuki Miura, Francesco Maisano, Michel Zuber, Mara Gavazzoni, Edwin C Ho, Alberto Pozzoli, Maurizio Taramasso  
US Cardiology Review 2019;13(1):35–40

Management of Tricuspid Regurgitation: The Role of Transcatheter Therapies

Maurizio Taramasso, Christelle Calen, Andrea Guidotti, Shingo Kuwata, Hector Rodriguez Cetina Biefer, Fabian Nietlispach, Michel Zuber, Francesco Maisano  
Interventional Cardiology Review 2017;12(1):51–5



Day 3  
(6/14)



# **Imaging in Structure Heart Disease**

# Imaging in Structure Heart Disease

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## Moderator

### **Wei-Hsian Yin**

**Vice president, Cheng Hsin General Hospital**

---

#### **MEDICAL EXPERTISE**

1. Complex cardiac catheterization therapeutic procedures, including Percutaneous transluminal coronary angioplasty (PTCA), coronary artery stenting, coronary artery rotablation, treatment for left main chronic total occlusion and other coronary arteries occlusion.
2. Treatment for complex structural heart diseases, including Transcatheter Aortic Valve Implantation (TAVI), Transcatheter treatment for congenital and acquired heart diseases.
3. Implantation of pacemaker and follow-up
4. Transthoracic and Transesophageal Echocardiography
5. Cardiology, Cardiovascular medicine, Emergency and Intensive care medicine

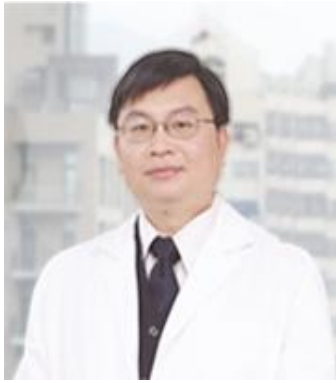
#### **EDUCATION**

1. National Yang-Ming University, School of Medicine, Ph.D.
2. National Defense Medical Center, M.D.



# Imaging in Structure Heart Disease

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## Speaker

Application of MSCT in structure heart intervention

### Yung-Tsai Lee

Cardiac Care Unit/Division of Cardiovascular Surgery, Heart Centre, Cheng Hsin General Hospital

---

#### WORK EXPERIENCES

1. Chief Resident, Division of Cardiovascular Surgery, Cheng Hsin General Hospital
2. Chief Resident, Department of Surgery, Cheng Hsin General Hospital
3. Chief Resident, Department of Internal Medicine, Taichung Armed Forces General Hospital

#### MEDICAL EXPERTISE

1. Adult heart diseases, surgery and care
2. Aortic surgery
3. Intensive care of critical heart disease
4. Heart surgery for mechanical assisted devices
5. Arrhythmia and pacemaker surgery
6. Transcatheter aortic valve replacement surgery
7. Dialysis fistula access surgery
8. Variety surgery and therapy
9. Research on inflammation after shock cardiac surgery and shock
10. Researches on allogeneic heart transplantation and reaction on transplantation immunology

#### EDUCATION

1. Post-graduate student, Institute of Microbiology and Immunology, National Yam Ming University,
2. M.D. Medicine, Chung Shan Medical School

# Imaging in Structure Heart Disease

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## Moderator

### Kuo-Chen Lee

Attending Surgeon, Heart Center, Cheng Hsin General Hospital

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#### EDUCATION

Bachelor of Medicine, National Defence Medical Center, Taipei, Taiwan (1993)

#### EMPLOYMENT RECORD

1. April 2019- current: Chief of Cardiac Intensive Care Unit, Heart Center, Cheng Hsin General Hospital, Taipei, Taiwan
2. Nov. 2003- current: Attending Surgeon, Division of Cardiovascular Surgery-Heart Center, Cheng Hsin General Hospital, Taipei, Taiwan
3. Aug. 2006-Oct. 2006: Fellowship for endovascular techniques, Vascular Surgery, Epworth Hospital, East Melbourne, Victoria, Australia
4. Aug. 2000-Oct. 2003: Attending Surgeon & Clinical Instructor, Division of Cardiovascular Surgery, Department of Surgery, Tri-Service General Hospital-National Defense Medical Center
5. March 2000-July 2000: Chief Resident, Division of Cardiovascular Surgery, Tri-Service General Hospital
6. Nov. 1998-Feb. 2000: Clinical Fellow, Department of Cardiovascular Surgery, Cheng Hsin General Hospital, Taipei, Taiwan
7. Aug. 1995-Oct. 1998: Resident, Department of Surgery, Tri-Service General Hospital-National Defense Medical Center, Taipei, Taiwan

#### RESEARCH INTERESTS

1. Cardiovascular surgery
2. Heart transplantation
3. Surgical therapy for end-stage heart failure
4. Minimal invasive cardiac surgery and endovascular aortic surgery
5. Trans-catheter valve replacement

# Imaging in Structure Heart Disease

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**Moderator**

**Jung-Cheng Hsu**

Cardiologist, Far Eastern Memorial Hospital

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## **CURRENT POSITION**

Attending Physician

Medical School, Medical College of National Taiwan University

## **BACKGROUND**

Chief of cardiac cath lab

Resident and Fellowship of National Taiwan University Hospital

Cardiologist of Republic of China

Interventional cardiologist of Republic of China

EuroPCR case presenter

SingLive: Best of Young Interventionalist

Who's who in the world, 2012 edition

Chair of AICT 2016 and CCT 2016

## **SPECIAL EXPERTISE**

Cardiac computed tomography

Intra-vascular ultrasound

Fractional Flow Reserve

Rotational atherectomy

Endovascular intervention

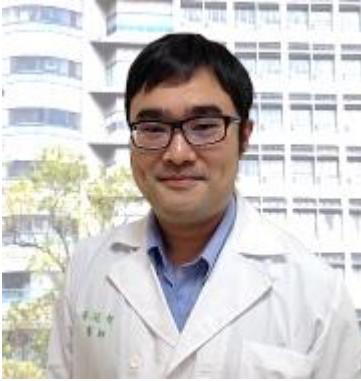
Transcatheter aortic valve replacement (TAVR)

Transcatheter mitral valve repair (PMBC and MitraClip)

LAA occluder

# Imaging in Structure Heart Disease

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## Moderator/Speaker

Mental co-registration of fluoroscopy, CT and TEE for localization of aortic PVL

**Kuan-Chih, Huang**

Cheng Hsin General Hospital

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### WORK EXPERIENCES

1. Cardiologist, Department of Medicine, National Taiwan University Hospital Jin-Shan Branch
2. Fellow, Division of Cardiology, Department of Internal Medicine, National Taiwan University Hospital
3. Resident, Department of Internal Medicine, National Taiwan University Hospital

### MEDICAL EXPERTISE

1. Diagnosis and treatment of heart diseases
2. Echocardiography
3. Interventional cardiac catheterization procedures

### EDUCATION

M.D. Medicine, National Taiwan University Medical College

# Imaging in Structure Heart Disease

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## Moderator/Speaker

Echocardiographic evaluation for mitral and tricuspid valves

### Alex Pui-Wai Lee

Associate Professor, Department of Medicine & Therapeutics  
Faculty of Medicine, The Chinese University of Hong Kong  
Director, Echocardiography Laboratory, Prince of Wales Hospital

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#### ACADEMIC QUALIFICATIONS

MD (2015), FACC (2017), FESC (2017), FRCP (2014), FHKAM (Medicine, 2008), FHKCP (2008), ECFMG (2006), MRCP (UK, 2003), MBChB (Hon, CUHK, 2000)

#### PRESENT ACADEMIC POSITIONS

1. Associate Professor, Department of Medicine & Therapeutics, the Chinese University of Hong Kong
2. Director, Echocardiography Laboratory, Prince of Wales Hospital
3. Director, Laboratory for Cardiac Imaging and 3D Printing, Li Ka Shing Institute of Health Science

#### PROFESSIONAL SOCIETY POSITIONS

1. Coordinator, Hong Kong College of Cardiology Echocardiography Chapter
2. Board member, Asian-Pacific Association of Echocardiography

#### SELECTED PUBLICATIONS (Total publications: 182; Sum of times cited: 1,412)

Fan Y, Yang F, Cheung GS, Chan AK, Wang DD, Lam YY, Chow MC, Leong MC, Kam KK, So KC, Tse G, Qiao Z, He B, Kwok KW, **Lee AP**. Device sizing guided by echocardiography-based three-dimensional printing is associated with superior outcome after percutaneous left atrial appendage occlusion. *Journal of the American Society of Echocardiography*. 2019;32:708-719.

Tang Z, Fan YT, Wang Y, Jin CN, Kwok KW, **Lee AP**. Mitral annular and left ventricular dynamics in atrial functional mitral regurgitation: A three-dimensional and speckle-tracking echocardiographic study. *Journal of the American Society of Echocardiography*. 2019;32:503-513.

#### ABSTRACT

1. Echocardiographic evaluation for mitral and tricuspid valve (20 minutes)

In this lecture, the techniques, imaging views, tips and tricks of echocardiography in the assessment of mitral valve and tricuspid valve disease will be discussed in a case-based approach.

2. Transcatheter tricuspid valve repair (15 minutes)

This lecture will review the latest development of TTVR for tricuspid regurgitation with focus on the necessary techniques and practical tips of imaging necessary to appreciate the anatomy of the tricuspid valve to achieve procedural success using illustrative case examples.

## **Hot topics in Tricuspid and Pulmonary Valve**

# Hot topics in tricuspid and pulmonary valve

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## Moderator

### Tien Ping Tsao

Director, Division of Cardiology, Heart Center, Cheng Hsin General Hospital,

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#### WORK EXPERIENCES

1. Cardiologist, Director, Cardiac Care Unit, Heart Centre, Cheng Hsin General Hospital
2. Director, Coronary Care Unit, Department of Critical Care Medicine, Tri-Service General Hospital
3. Specialist Registrar, Cardiology, Yorkshire Cardiac Centre, General Infirmary, Leeds, U.K.
4. Cardiologist, Cardiology & Medicine, Tri-Service General Hospital
5. Chief Resident, Department of Cardiology, Tri-Service General Hospital
6. Medical Service to West Africa (Republic of Liberia and Guine Bissau)
7. Resident, Tri-Service General Hospital
8. Former Councilor, Taiwan Society of Cardiovascular Intervention
9. Former Councilor, Taiwan Society of Lipids & Atherosclerosis

#### MEDICAL EXPERTIS

1. Diagnoses and treatment of adult cardiac diseases
2. Percutaneous transluminal coronary artery interventional treatment
3. Percutaneous transluminal peripheral artery interventional treatment
4. Percutaneous transluminal carotid artery interventional treatment

#### Education :

M.D. National Defense Medical Centre

# Hot topics in tricuspid and pulmonary valve



## Moderator/Speaker

Transcatheter pulmonary valve replacement in Taiwan

**Jou-Kou Wang**

National Taiwan University Hospital

台大醫學院小兒部	教授		2000--迄今
台大醫學院小兒部	主治醫師		1986--迄今
國立台灣大學醫學院小兒部	教授		--迄今
國立台灣大學醫學院附設醫院小兒部	主治醫師		--迄今
國立台灣大學	臨床醫學研究所	博士	1988-1993
國立台灣大學	醫學系	醫學士	1973-1980



# Hot topics in tricuspid and pulmonary valve

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## Speaker

Transcatheter pulmonary valve-in-valve replacement

**Wei-Hsian Yin**

Vice president, Cheng Hsin General Hospital

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### MEDICAL EXPERTISE

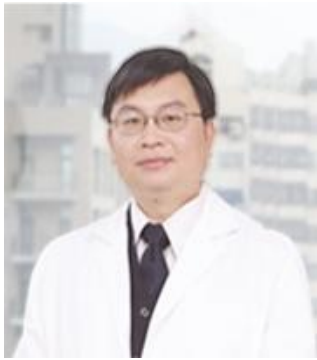
1. Complex cardiac catheterization therapeutic procedures, including Percutaneous transluminal coronary angioplasty (PTCA), coronary artery stenting, coronary artery rotablation, treatment for left main chronic total occlusion and other coronary arteries occlusion.
2. Treatment for complex structural heart diseases, including Transcatheter Aortic Valve Implantation (TAVI), Transcatheter treatment for congenital and acquired heart diseases.
3. Implantation of pacemaker and follow-up
4. Transthoracic and Transesophageal Echocardiography
5. Cardiology, Cardiovascular medicine, Emergency and Intensive care medicine

### EDUCATION

1. National Yang-Ming University, School of Medicine, Ph.D.
2. National Defense Medical Center, M.D.

# Hot topics in tricuspid and pulmonary valve

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## Moderator/Speaker

### Transcatheter tricuspid valve-in-valve and valve-in-ring

#### Yung-Tsai Lee

Cardiac Care Unit/Division of Cardiovascular Surgery, Heart Centre, Cheng Hsin General Hospital

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#### WORK EXPERIENCES

1. Chief Resident, Division of Cardiovascular Surgery, Cheng Hsin General Hospital
2. Chief Resident, Department of Surgery, Cheng Hsin General Hospital
3. Chief Resident, Department of Internal Medicine, Taichung Armed Forces General Hospital

#### MEDICAL EXPERTISE

1. Adult heart diseases, surgery and care
2. Aortic surgery
3. Intensive care of critical heart disease
4. Heart surgery for mechanical assisted devices
5. Arrhythmia and pacemaker surgery
6. Transcatheter aortic valve replacement surgery
7. Dialysis fistula access surgery
8. Variety surgery and therapy
9. Research on inflammation after shock cardiac surgery and shock
10. Researches on allogeneic heart transplantation and reaction on transplantation immunology

#### EDUCATION

1. Post-graduate student, Institute of Microbiology and Immunology, National Yang Ming University,
2. M.D. Medicine, Chung Shan Medical School

# Hot topic in tricuspid and pulmonary valve

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## Moderator/Speaker

### Transcatheter tricuspid valve replacement

#### **Zhang Haibo**

Beijing Anzhen Hospital Capital Medical University

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#### **FACULTY POSITION**

Vice chief of 9th ward, Professor, Cardiac Surgery Department, Beijing Anzhen Hospital, Capital Medical University

#### **MEMBERSHIP**

Secretary, Heart valve disease academic committee of Chinese Association of Cardiovascular Surgeons (CACVS)

Vice secretary, youth academic committee of Chinese Society for Thoracic and Cardiovascular Surgery (CSTCS),

member of International Society of Heart and Lung Transplantation (ISHLT)

#### **EDUCATION**

2014- Heart transplant and LVAD training, Methodist Hospital of IUH, Indianapolis and Cleveland Clinic, U.S.A

2005- Atrial fibrillation surgical treatment training, St Louis, U.S.A

2002- Cardiac Surgeon in Beijing Anzhen Hospital, Capital Medical University

2001-2002 Research training on gene transfer in University of California in Los Angeles (UCLA), U.S.A

2002 Got Ph.D. degree in Harbin Medical University (HBMU) in China

1999 Got M.D degree in Harbin Medical University in China

#### **INTERESTED (Adult cardiac surgery)**

Minimally invasive surgery

Heart transplant and VAD system

Valve repair

Atrial fibrillation surgery

CABG

#### **INTRODUCTION OF BEIJING ANZHEN HOSPITAL**

One of the biggest heart center in Asia, there is 11,000 cardiac surgery and 10,000 PCI cases a year. It includes 4000 CABG, 2000 valve surgery, 2500 congenital surgery, 800 big vessels, 200 minimally invasive cardiac surgery, 40 heart transplant, 70 ECMO supports, 380 IABP cases.

# Hot topics in tricuspid and pulmonary valve

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## Moderator/Speaker

### Transcatheter tricuspid valve repair

**Alex Pui-Wai Lee**

The Chinese University of Hong Kong

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#### ACADEMIC QUALIFICATIONS

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3. Director, Laboratory for Cardiac Imaging and 3D Printing, Li Ka Shing Institute of Health Science

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# Congress Information

## Secretariat

網路報名設計架設、文稿設計校調：陳冠群、李素珠、徐敬旋、張文欣、陳秋月

直播會場規劃：陳冠群、黃維秀

主會場導播：李永在、黃建龍

手術室導播：CVS、黃冠智、林秉毅、鞠嘉漢、黃維秀、黃勝祿、蔡家銘

手術室軟硬體架設與人員安排：黃維秀

總務組：陳慧玲、鄭菁慧、林明珊、黃暉婷、吳靜秋、林雅雯、吳燕玲、魏嘉汝、林綾、林鈺萍

財務組：李婉君、王秋絹

大會主視覺設計：陳冠群

會議直播平臺架設、服務：陳冠群、黃維秀

人員安排規劃：李永在、李素珠



## 感謝下列協助廠商

台灣愛德華生命科學股份有限公司  
荷商波士頓科技有限公司台灣分公司  
美敦力醫療產品股份有限公司  
美商亞培股份有限公司台灣分公司