



The 11<sup>th</sup> Vietnam Congress of Congenital Heart Disease

## ASD INTERVENTION FROM A TO Z

January 15<sup>th</sup> – 17<sup>th</sup>, 2025 at Sheraton Hotel, Saigon, Vietnam

# SCIENTIFIC PROGRAM

Day 1: January 15<sup>th</sup>, 2025

## CONTROVERSIAL ISSUES IN INTERVENTION OF CONGENITAL HEART DISEASES

7.00 – 16.00 | Registration

8.00 – 8.15 Opening speech

Course Directors | Welcome and Introduction

## BALLROOM

8.15 – 10.15

### SESSION 1: LIVE CASES AND DEBATES- ASD CLOSURE

**Moderators:** Sir Shakeel Qureshi, Dietmar Schranz, Maiy H.El Sayed

**Panelists:** Kritvikrom Durongpisitkul, Kim-Sung Hae, Gi-Beom Kim

**Pros and cons 1 Sizing balloon in ASD closure: still or stop**

Still: Bhrat Dalvi

Stop: Zahid Amin

**Pros and cons 2 Aortic erosion in ASD closure: scare or skip**

Scare: Teiji Akagi

Skip: Mario Carminati

**Live cases from:**

- Queen Sirikit Hospital - Thailand: Worakan Promphan, Supaporn Roymanee, Pimpak Prachasilchai
- Taiwan National University Hospital: Jou-Kou Wang, Ming-Tai Lin, Chun-An Chen
- IJN- Malaysia: Mazen Alwi, Marhisham Che Mood Bin, Leong Ming Chern

10.15 – 10.30 Coffee break

10.30 – 12.30

## SESSION 2: LIVE CASES AND DEBATES- SHUNT CLOSURE

*Moderators: Bharat Dalvi, Ahmet Celebi, Amal El Sisi*

*Panelists: Gareth Morgan, Jae-Yong Choi, Hisashi Sugiyama*

**Pros and cons 3 Coronary fistula: cath or cut**

Cath: Srinath Gowda

Cut: Cao Dang Khang

**Pros and cons 4 pm VSD closure: device or divorce**

Divorce: Hasri Samion

Device: Nageswara Rao

*Live cases from:*

- Queen Sirikit Hospital - Thailand: Worakan Promphan, Supaporn Roymahee, Pimpak Prachasilchai
- Taiwan National University Hospital: Jou-Kou Wang, Ming-Tai Lin, Chun-An Chen
- IJN- Malaysia: Mazen Alwi, Marhisham Che Mood Bin, Leong Ming Chern

12.30 – 13.00: Lunch

**13.00 – 14.30: LUNCH SESSION**

### Step-by-step in VSD closure

*Chairs: Trong-Phi Le, Kevin Walsh, Nageswara Rao*

*Panelists: Pornthep Lertsapcharoen, Nguyen Lan Hieu, Masood Sadiq*

S Yen Ho (UK)	Morphologic variations of VSD on specimens
Trong-Phi Le (Germany)	How to avoid complications (8')
Joaquim Miro (Canada)	Problems of VSD closure in my practice (8')
Jin-Young Song (Korea)	Problems of VSD closure in my practice (8')
Muthukumaran CS (India)	Problems of VSD closure in my practice (8')
Behzad Alizadeh (Iran)	Problems of VSD closure in my practice (8')

*Live case from Children's Hospital 1: pmVSD closure*

*Operators: Do Nguyen Tin, Jenny Zablah, Van The Duy*

*Echocardiographer: Saleha Kabir*

*Live case from Children's Hospital 1: outlet VSD closure*

*Operators: Do Nguyen Tin, Kritvikrom Durongpisitkul, Tran Van Tuan*

*Echocardiographer: Saleha Kabir*

14.30 – 16.15

## SESSION 3: LIVE CASES AND DEBATES - PDA INTERVENTION

*Moderators: Zahid Amin, Allison Cabalka, Satoshi Yasukochi*

*Panelist: Swee Chye Quek, Jean Antonio Villareal, Mulyadi Dijer*

### Pros and cons 5: *PDA closure in premature babies: bedside or cathside*

Bedside: Koh GT

Cathside: Yun-Ching Fu

### Pros and cons 6 *PDA stenting with stenosis of pulmonary branch(es): stent or stop*

Stent: Behzad Alizadeh

Stop: Gareth Morgan

#### *Live cases from:*

- Queen Sirikit Hospital - Thailand: Worakan Promphan, Supaporn Roymahee, Pimpak Prachasilchai
- Taiwan National University Hospital: Jou-Kou Wang, Ming-Tai Lin, Chun-An Chen
- IJN- Malaysia: Mazen Alwi, Marhisham Che Mood Bin, Leong Ming Chern
- Children's Hospital 1- Vietnam: Do Nguyen Tin

16.15 – 16.30 Coffee break

16.30 – 18.00

## SESSION 4: LIVE CASES AND DEBATES- NEONATAL INTERVENTION

*Moderators: Mario Carminati, Martin Schneider, Teiji Akagi*

*Panelist:, Jayranganath Mahimaranagaiyah, Jonas Del Rosario, Cao Viet Tung*

### Pros and cons 7 *Paliative intervention for Tetralogy of Fallot in neonates*

RVOT balloon dilation – still a role?: Salim Jivanji

RVOT stent: Jae-Young Choi

PDA stent: Hasri Samion

### Pros and cons 8 *Aortic coarctation in neonates: cath or cut*

Cath: Nageswara Rao

Cut: Nguyen Ly Thinh Truong

#### *Live cases from:*

- Queen Sirikit Hospital - Thailand: Worakan Promphan, Supaporn Roymahee, Pimpak Prachasilchai
- Taiwan National University Hospital: Jou-Kou Wang, Ming-Tai Lin, Chun-An Chen
- IJN- Malaysia: Mazen Alwi, Marhisham Che Mood Bin, Leong Ming Chern
- Children's Hospital 1- Vietnam: Do Nguyen Tin,

# FUNCTION ROOM

## 10.30 – 12.30 PARALLEL SESSION

### INTERESTING CASES OF ASD CLOSURE AROUND THE WORLD

*Moderators: Sir Shakeel Qureshi, Oliver Stumper, Hishahi Sugiyama*

*Panelists: Srinath Gowda, Kritvikrom Durongpisitkul, Jae-Young Choi*

Jieh-Neng Wang	Case from Taiwan (8')
Judah D Gozar	Case from Philippines (8')
Van The Duy	Case from Vietnam (8')
Naharruma Aive Hyder Chowdhury	Case from Bangladesh (8')
	Case from Thailand (8')
Yoshiyuki Kagiyama	Case from Japan (8')
Robin Chen	Case from Hong Kong (8')
Ting-Ting Low	Case from Singapore (8')
Hojjat Mortezaeian	Case from Iran
Salim Jivanji	Case from UK

## 12.30 – 13.00: Lunch

## 13.00 – 14.30 PARALLEL SESSION

### INTERESTING CASES OF ASD CLOSURE AROUND THE WORLD (cont.)

*Moderators: Mario Carminati, Joaquim Miro, Sukman Putra*

*Panelists: Teiji Akagi, Neeraj Awasthi, Muthukumaran CS*

Jung-Yoon Kim	Case from Korea (8')
Gemma Penford	Case from New Zealand (8')
Martin Wong	Case from Malaysia (8')
Behzad Alizadeh	Case from Iran (8')
Rahmat Budi	Case from Indonesia (8')
Rajesh Kumar	Case from India (8')
Chandra Mani Adhikari	Case from Nepal (8')
	Case from Pakistan (8')
<i>Eustaquio Onorato</i>	Case from Italy (8')

**14.30 – 18.00. Training Hub**

**PORCINE HEART DISSECTION WITH S YEN HO**

**MORPHOLOGIC/ECHOCARDIOGRAPHIC CORRELATION AND DEVICE CLOSURE**

*(15 tables for registered hands-on)*

**14.30 – 16.15 Porcine heart dissection: Atrial septum and PFO/ASD**

**Moderator: Zahid Amin**

**Cutter: Adam Kolesnik**

**Supporters: S Yen Ho, Bharat Dalvi, Kim Seong Ho**

**16.15 – 16.30 Coffee break**

**16.30 – 18.00 Porcine heart dissection: Ventricular septum and VSD**

**Moderator: Zahid Amin**

**Cutter: Adam Kolesnik**

**Supporters: S Yen Ho, Bharat Dalvi, Kim Seong Ho**

**19.30 – 21.30 Faculty Dinner**



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## ASD INTERVENTION FROM A TO Z

January 15<sup>th</sup> – 17<sup>th</sup>, 2025 at Sheraton Hotel, Saigon, Vietnam

Day 2: January 16<sup>th</sup>, 2025

## ASD CLOSURE

7.00 – 8.00 Abstract presentation

Screen 1

*Moderator: Kevin Walsh, Bharat Dalvi*

Screen 2

*Moderator: Eustaquio Onorato, Behzad Alizadeh*

Screen 3

*Moderator: Dietmar Schranz, Yun-Ching Fu*

## BALLROOM

8.00 – 10.00

### SESSION 5: ASD CLOSURE IN SPECIAL PATIENTS

*Moderators: Sir Shakeel Qureshi, Martin Schneider, Joaquim Miro*

*Panelists: Hisashi Sugiyama, Mulyadi Djer, Edwin Francis*

Yun-Ching Fu (Taiwan)

Small babies (8')

Geetha Kandavello (Malaysia)

Elderly patients (8')

Ting-Ting Low (Singapore)

Pregnant patients (8')

Teiji Akagi (Japan)

Multiple deformities (8')

Ming-Tai Lin (Taiwan)

Multiple comorbidities (8')

*Live cases from:*

*Children's Hospital 1- Vietnam: Do Nguyen Tin, Gareth Morgan, Tran Van Tuan*

*Apollo Navi Mumbai Hospital, India: Bushan Chavan*

*Echocardiographers: Saleha Kabir, Nguyen Vu Nhu Thao*

10.00 – 10.15 Break coffee

10.15- 12.15

## SESSION 6: ASD CLOSURE FOR SPECIAL MORPHOLOGY

*Moderators: Mario Carminati, Trong-Phi Le, Behzad Alizadeh*

*Panelists: Hasri Samion, Worakan Promphan, Martin Wong*

S Yen Ho (UK)	Morphologic variations of ASD on specimens (8')
Martin Schneider (Germany)	How to deal with floppy rims (8')
Allison Cabalka (US)	How to deal with deficient rims (8')
Sung-Hae Kim (Japan)	How to deal with multiple holes (8')
Behzad Alizadeh (Iran)	How to deal with big holes (8')
Harikrishnan K N (India)	How to deal with special septum: aneurysmal, double, spiral septum (8')
Deepa Sasikumar (India)	How to deal with mail-alignment septum (8')

*Live case:*

*Apollo Navi Mumbai Hospital, India: Bushan Chavan*

*Children's Hospital 1- Vietnam: Do Nguyen Tin, Supaporn Roymanee, Le Hoang Khoa*

*Echocardiographers: Saleha Kabir, Nguyen Vu Nhu Thao*

**12.15 – 12.45 Lunch**

**12.45 – 14.30 LUNCH SESSION**

## HOW TO SURVIVE FROM COMPLICATIONS OF ASD CLOSURE

*Moderator: Allison Cabalka, Omar Galal, Teiji Akagi*

*Panelist: Masood Sadiq, Pramod Kumar, Rahim Wong*

Jae-Young Choi (Korea)	Embolized ASD device (8')
Marhisham Che Mood (Malaysia)	Mitral valve regurgitation (8')
Jun Yoshimoto (Japan)	Arhythmias (8')
Hideshi Tomita (Japan)	Erosion (8')
Hasri Samion (Malaysia)	Residual shunt (8')
Amal El Sisi (Egypt)	Thrombosis (8')

*Live case from:*

*Children's Hospital 1: Do Nguyen Tin, Ming-Tai Lin, Le Hong Quang*

**14.30 – 16.00**

## **Session 7: ASD CLOSURE IN SPECIAL HEMODYNAMICS**

***Moderators: Kothadam Sivakumar, Martin Schneider, Oliver Stumper***

***Panelists: Joaquim Miro, Mulyadi Djer, Le Minh Khoi***

Eustaquio Onorato (Italy)	Management strategy for ASD and PAH (8')
Martin Schneider (Germany)	Fenestrated ASD device: when and how (8')
Dietmar Schranz (Germany)	LV diastolic dysfunction (8')
Marhisham Che Mood (Malaysia)	Borderline cases (8')
Hideshi Tomita (Japan)	Fenestration closure in Fontan (8')

***Live case:***

***Apollo Navi Mumbai Hospital, India: Bushan Chavan***

***Children's Hospital 1: Do Nguyen Tin, Pham Cong Nhut, Bharat Dalvi***

**16.00- 16.30: Coffee break**

**16.30– 18.00**

## **SESSION 8: ASD CLOSURE WITH DIFFERENT DEVICES**

***Moderators: Zahid Amin, Pornthep Lertsapcharoen, Rohit Manoj***

***Panelist: Edwin Francis, Neeraj Awasthi, Cao Viet Tung***

Worakan Promphan (Thailand)	How flexible is really flexible? (8')
Masood Sadiq (Pakistan)	How soft is really soft? (8')
Hasri Samion (Malaysia)	How safe is really safe? (8')
Oliver Stumper (UK)	Cobra deformity: device or deployment? (8')
Joseph Vettukatil (India)	New design for ASD device.

***Live case:***

***Siriraj Hospital- Bangkok, Thailand: Kritvikrom Durongpisitkul, Jarupim Soongswang,***

***Apollo Navi Mumbai Hospital, India: Bushan Chavan***

***Children's Hospital 1: Do Nguyen Tin, Teiji Akagi, Nguyen Minh Tri Viet***

***Echocardiographers: Saleha Kabir, Nguyen Vu Nhu Thao***

**Gala dinner**

# FUNCTION ROOM

8.30– 10.00

## MFO IN PRACTICE

***Moderator: Kevin Walsh, Jou-Kou Wang, Nageswara Rao***

***Panelist: Masood Sadiq, Martin Wong, Radityo Prakoso***

Joaqim Miro (Canada)	MFO for PDA closure (8')
Mario Carminati (Italy)	MFO for pmVSD (8')
Jean Anntonio Villareal (Philippines)	MFO for muscular VSD (8')
Rahmat Budi (Indonesia)	MFO for outlet VSD (8')
Edwin Francis (India)	MFO for coronary fistula (8')
Masood Sadiq (Pakistan)	MFO for other indications (8')
Nageswara Rao (India)	Newer generation and future developments (8')

***Live case from Children's Hospital 1: VSD closure with MFO***

***Operators: Do Nguyen Tin, Worakan Promphan, Tran Thanh Minh***

***Echocardiographer: Saleha Kabir, Nguyen Vu Nhu Thao***

**10.00 – 10.15 Coffee break**

**10.15 – 12.15**

## TRAINING HUB: NEW AND SPECIAL TECHNIQUES

***Moderators: Gareth Morgan, Srinath Gowda, Eustaquio Onorato***

***Panelists: Hideaki Ueda, Ming-Chern Leong, Supaporn Roymannee***

Sulaiman Lubega (Uganda)	Challenges of late presenters with pulmonary stenosis (8")
Muthukumaran CS (India)	Creating a Fontan (8')
Sung-Hae Kim (Japan)	Lymphatic intervention (8')
Supaporn Roymannee (Thailand)	Dealing with collaterals (8')
Gareth Morgan (US)	Cutting balloon in congenital heart diseases: when and how (8')
Jou-Hsuan Huanng (Taiwan)	Cardiac imaging: When we need to do intervention in Fontan (8')
Jenny Zablah (USA)	Intervention for pulmonary vein stenosis (8')
Kothadam Sivakumar (India)	AP window

***Live case from Children's Hospital 1: Do Nguyen Tin,***

10.00 – 10.15 Coffee break

## Lunch session 2

### COMPETITION FOR YOUNG INTERVENTIONISTS NEW PROCEDURES IN INTERVENTIONS OF CONGENITAL HEART DISEASE

*Referees: Mario Carminati, Oliver Stumper, Sukman Putra, Pornthep Lertsapcharoen, Hasri Samion, Maiy El Sayed, Kenji Suda*

Thailand  
Vietnam  
Indonesia  
UK  
Taiwan  
Malaysia  
Korea  
Japan  
Philippines  
India  
Nepal  
Pakistan

14.30– 16.00

### NEW TECHNOLOGY: BIOABSORBABLE DEVICES

*Moderator: Sir Shakeel Qureshi, , Masood Sadiq, Xiangbin Pan, Rahmat Budi*

*Sir Shakeel Qureshi*

Xiangbin Pan (China)

Rahmat Budi (Indonesia)

Hasri Samion (Malaysia)

Technology of bioabsorbale devices for CHD (8')

ASD bioabsorbale device (8')

VSD bioabsorbale device (8')

PDA bioabsorbale device (8')

Bioabsorbale stent (8')

*Live case from: Children's Hospital 1, Vietnam*

*Operators: Do Nguyen Tin, Kim Sung Hae, Tran Cong Bao Phung*

**16.00- 16.30: Coffee break**

**16.30– 18.00**

**CLUB FOR YOUNG INTERVENTIONIST  
ASD CLOSURE: LESSONS LEARNT FROM OUR MENTORS**

***Moderators: Zahid Amin, TH Goh, Indriwanto Sakidjan, Worakan Promphan, Ghee-Tiong Koh, Jonathan Tze Liang***

Sir Shakeel Qureshi (UK)	My first case (10')
Sukman Putra (Indonesia)	My most impressive case (10')
Bharat Dalvi (India)	My first complication case (10')
Masood Sadiq (Pakistan)	My most difficult case (10')
Teiji Akagi (Japan)	My stressful case (10')
Jou-Kou Wang (Taiwan)	My failure case (10')
Pornthep Lertsapcharoen (Thailand)	My unforgettable case (10')
Jae-Young Choi (Korea)	My mysterious case (10')

**19.30 – 22.30: Gala Dinner**



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## ASD INTERVENTION FROM A TO Z

**January 15<sup>th</sup> – 17<sup>th</sup>, 2025 at Sheraton Hotel, Saigon, Vietnam**

**Day 3: January 17<sup>th</sup>, 2024**

### **Creating an ASD**

**7.00 – 8.00 Abstract presentation**

**Screen 1: Moderator: Oliver Stumper, Joseph Vettukattil**

**Screen 2 : Moderator: Teiji Akagi, Worakan Promphan**

**Screen 3: Moderator: Sukman Putra, Zenny Zablah**

## **BALLROOM**

**8.00 - 10.00**

### **SESSION 9: SEPTAL PUNCTURE**

**Moderators: Mario Carminati, Sukman Putra, Muthukumar**

**Panelist: Sung-Hae Kim, Jin-Young Song, Radityo Prakoso**

Rasha Ammar (Egypt)

Septal puncture under echo guidance

Pham Manh Hung (Vietnam)

Septal puncture under fluoroscopic guidance

Maiy El-Sayed (Egypt)

Septal puncture in infants and small babies

Jun Yoshimoto (Japan)

Septal puncture in patients with ASD device

Zahid Amin (US)

My special techniques

**Live cases from:**

**Children's Hospital 1: Do Nguyen Tin, Zahid Amin, Le Nguyen Phu Qui**

**Tam Anh Hospital: Vu Nang Phuc, Dietmar Schranz, Kevin Walsh**

**10.00- 10.15 Coffee break**

10. 15 – 12.15

## SESSION 10: CREATING AN ATRIAL SHUNT

*Moderators: Shakeel Qureshi, Gareth Morgan, Oliver Stumper*

*Panelists: Yashu Coe, Ghee Tiong Koh, Amal El Sisi*

Gareth Morgan (US)	Atrial septostomy in special cases
Adam Kolesnik (Poland)	PFO stenting in fetus
Ming Chern Leong (Malaysia)	Step-by-step PFO stenting
Dietmar Schranz (Germany)	How to create a fenestration in Fontan?

*Live cases from:*

*Children's Hospital 1: Do Nguyen Tin, Behzad Alizadeh, Tran Thanh Minh*

*Tam Anh Hospital: Vu Nang Phuc, Kevin Walsh*

12.15 – 12.45 Lunch

12.45 – 14.30      LUNCH SESSION

## Lunch session 1: SPECIAL TECHNIQUES IN ASD CLOSURE

*Moderator: Allison Cabalka, Teiji Akagi, Masood Sadiq,*

*Panelist: XiangBin Pan, Rahim Wong, Harikrishnan K N*

XiangBin Pan (China)	Non-fluoroscopy (8')
Bharat Dalvi (India)	Balloon-assisted technique (8')
Kritvikrom Durongpisitkul (Thailand)	Pulmonary vein technique: When left? When right? (8')
Yun-Ching Fu (Taiwan)	Pushing technique with Revisio cable (8')
Chu-An Chen (Taiwan)	Special techniques for Coronary sinus ASD closure (8')
Abdul Momen (Bangladesh)	A 360 degree tour of all types of ASD closure patients (8').

*Live cases from:*

*Children's Hospital 1: Do Nguyen Tin, Jae-Young Choi, Le Hong Quang,*

*Tam Anh Hospital: Vu Nang Phuc, Kevin Walsh*

**14.30 – 16.0**

## **SESSION 11: ATRIAL SEPTAL FLOW REGULATOR**

***Moderators: Dietmar Schranz, Kothadam Sivakumar, Maiy H.EI Sayed***

***Panelist: Hideshi Tomita, Nageswara Rao, Supaporn Roymanee***

Allison Cabalka (USA)	AFR for Heart Failure (8'')
Ahmet Celebi (Turkey)	AFR for pulmonary hypertension (8'')
Amal El Sisi (Egypt)	AFR in Fontan circulation (8'')
Kothadam Sivakumar (India)	Challenges and complications of AFR (8'')
Teiji Akagi (Japan)	Interventions for Pulmonary hypertension (8'')

***Live cases from:***

***Children's Hospital 1: Do Nguyen Tin, Teiji Akagi, Van The Duy***

***Tam Anh Hospital: Vu Nang Phuc, Kevin Walsh***

**16.00- 16.15 Coffee break**

**16.15- 17.30**

## **SESSION 12: PROBLEMS IN FOLLOW-UP**

***Moderators: Omar Galal, Teiji Akagi, Ming-Tai Lin***

***Panelist: Jieh-Neng Wang, Kim Seong Ho, Pimpak Prachasilchai***

Haifa Abdul Latiff (Malaysia)	Echocardiography for follow-up: What we look for?
Hideshi Tomita (Japan)	How to deal with residual shunts in ASD closure (8'')
Eric Rosenthal (UK)	Arrhythmias in ASD device closure: device or genetics(8'')
Jou-Kou Wang (Taiwan)	Thrombosis in ASD device closure (8'')
Jae-Young Choi (Korea)	Migraine in ASD closure: is it an issue? (8'')
Zahid Amin (USA)	Updates in aortic erosion (8'')

**17.30- 17.45: Closing remarks**

## FUNCTION ROOM

**8.00 - 10.00**

### Paralel session: CARDIAC IMAGING IN PPVI

*Moderators: Sir Shakeel Qureshi, Jou-Kou Wang, Phuoc Duong, Gi-Beom Kim, Jou-Hsuan Huang, Nguyen Minh Hai*

S Yen Ho (UK)	Morphology of RVOT in Fallot (10')
Gi-Beom Kim (Korea)	Suitable morphology of RVOT for PPVI (10')
Robin Chen (Hongkong)	Role of CT and CT fusion for PPVI (10')
Shyh-Jye Chen (Taiwan)	Role of 4D flow MRI in PPVI (10')
Phuoc Duong (UK)	Do we need balloon interrogation testing? (10')
Shakeel Qureshi (UK)	Lessons learnt from imaging and balloon interrogation? (10')
Kothadam Sivakumar (India)	What do I need from cardiac imaging for PPVI? (10')

*Chun-An Chen (Taiwan) : recorded case*

**10.00- 10.15 Coffee break**

**10.15 – 12.15 Function room**

### Paralel session CARDIAC IMAGING IN SINUS VENOSUS ASD

*Moderators: Eric Rosenthal, Kothadam Sivakumar, Shyh-Jye Chen, Joseph Vettukattil, Haifa Abdul Latiff, Phuoc Duong*

S Yen Ho (UK)	Morphologic variations of sinus venosus ASD (10')
Phuoc Duong (UK)	Suitable morphology for stenting (10')
Eric Rosenthal (UK)	Step-by-step closure of sinus venosus ASD (10')
Joseph Vettukattil (India)	Jove stent for sinus venosus ASD (10')
Sir Shakeel Qureshi (UK)	Lesson learnt from my complications and failures (10')

*Kothadam Sivakumar: recorded case*

**12.15 – 12.45 Lunch**

**12.45 – 14.30   Lunch session 2**

## **CARDIAC IMAGING FOR ASD CLOSURE**

***Moderators: Shyh-Jye Chen, Joseph Vettukatil, Adam Kolesnik, Saleha Kabi, Haifa Abdul Latiff***

Kalyanasundaram M (India)	TTE and fluoroscopy without TEE in ASD closure (10')
Saleha Kabir (UK)	When we need 3D echocardiography for ASD closure? (10')
Rohit Manoj (India)	Incremental role of 3D imaging in ASD closure (10')
Doan Tan Huy Tam (US)	Special considerations of 3D echocardiography in children for ASD (10')
Joseph Vettukatil (India)	3D echocardiography for spiral ASD (10')
Jou-Hsuan Huang (Taiwan)	Role of cardiac CT for ASD closure (10')
Adam Kolesnik (Poland)	Role of virtual realistic for ASD closure (10')

**14.30 – 17.30**

## **TRAINING HUB: HANDS ON PRACTICE WITH 3D ECHOCARDIOGRAPHY**

***Instructors: Saleha Kabir, Joseph Vettukatil, Le Minh Khoi, Doan Tan Huy Tam***

***17.30- 17.45: Closing remarks***