THE CONGRESS OF CONGENITAL HEART DISEASE

LEFT HEART INTERVENTIONS from A to Z

Ho Chi Minh City, January 13th - 15th, 2015

SCIENTIFIC PROGRAM
PRECONGRESS

Course directors: Zahid Amin, Joaquim Miro, Bharat Dalvi, Kevin Walsh, Nina Wunderlich, S. Yen Ho

Children’s Hospital 1

Jan 11, 2015

HANDS-ON WORKSHOP: TRANSCATHETER CLOSURE OF VSD

9.00 – 16.00

S. Yen Ho (UK)  Morphological aspect for VSD closure
Nina Wunderlich (Germany)  Echocardiographic imaging of VSD: keeping the anatomy in mind
Zahid Amin (US)  Correlation of echocardiographic imaging with fluoroscopic/angiographic imaging: is it the same?
Bharat Dalvi (India)  Matching types of devices to types of defects
Kevin Walsh (Ireland)  How to manage complications: intra-procedural and post-procedural?
Joaquin Miro (Canada)  Updates on devices

Case presentations from attendee: Mulyadi Djer, Rohit Manoj, Jonas Del Rosario, Koh Ghee Tiong, Rahim Wong

Jan 12, 2015

ASD closure with challenge cases

9.00 – 16.00

S. Yen Ho (UK)  Morphological aspect for ASD closure
Nina Wunderlich (Germany)  Echocardiographic imaging of ASD: 3D, TEE, ICE
Zahid Amin (US)  Implications of morphology and echo for device closure
Bharat Dalvi (India)  Tips and tricks in ASD closure for large ASD
Kevin Walsh (Ireland)  Tips and tricks in ASD closure for small Patients
Joaquin Miro (Canada)  Tips and tricks in ASD closure for deficient rim

Case presentations from attendee
DAY 1: Wednesday, January 13\textsuperscript{th}, 2016

7.00 – 16.00  |  Registration

8.00 – 8.15

OPENING SESSION

Vu Minh Phuc (Vietnam)  |  Welcome and Introduction
Tang Chi Thuong (Vietnam)
Trong-Phi Le (Germany)

8.15 - 8.30

Vu Minh Phuc (Vietnam)  |  Review of all live cases from the last meeting
ADVANCED TIPS AND TRICKS IN CHD INTERVENTION

SESSION 1: TIPS AND TRICKS IN ASD CLOSURE

Chairpersons: Lee Benson, Zahid Amin, Omar Galal

Lee Benson (Canada)  How to deal with mal-alignment septum in ASD closure
Zahid Amin (US)  How to deal with deficient rim in ASD closure
Joseph De Giovanni (UK)  How to deal with small patient in ASD closure
Nguyen Lan Hieu (Vietnam)  Fluoroscopy evaluation in ASD closure

Live cases from:
- Children Hospital 1, HCMC
- Hanoi Medical University
- Queen Sirikit Children Hospital, Bangkok, Thailand

Panelists: Alejandro Peirone, Toshio Nakanishi, Jin-Young Song

Live case 1:  ASD closure at Children Hospital 1, Ho Chi Minh City
Operators: Hans-Reiner Figulla, Indriwanto Sakidjan, Nguyen Ba Trieu, Do Nguyen Tin
Echo: Nina Wunderlich

Live case 2:  ASD closure at Ha Noi Medical University Hospital
Operators: Nguyen Lan Hieu, YY Lam, Hidehiko Hara
Echo: Pierre Wong

Live case 3:  ASD closure at Queen Sirikit National Institute Of Child Health, Bangkok, Thailand
Operators: Thanarat Layangool, Supaporn Roymane, Panthip Pattarakunwiwat
Echo: Nakharin Tonklang

10.30 - 10.45 Coffee break
SESSION 2: TIPS AND TRICKS IN VSD CLOSURE

Chairpersons: Lee Benson, Zahid Amin, Omar Galal

S. Yen Ho (UK)
Jayaranganath (India) How to deal with septal aneurysm?
Joaquim Miro (Canada) tricuspid valve entangle: where, when and how to avoid?
Nageswara Rao (India) Special techniques in deploying the device: where, when and how?

Live cases from:
- Children Hospital 1, HCMC
- Hanoi Medical University
- Queen Sirikit Children Hospital, Bangkok, Thailand

Panelists: Sukman Putra, Kritvikrom Durongpisitkul, Jayaranganath

Live case 4: VSD closure at Children Hospital 1, Ho Chi Minh City
Operators: Trong-Phi Le, Rahmat Budi, Le Hong Quang, Do Nguyen Tin
Echo: Nina Wunderlich, Phan Tien Loi,

Live case 5: VSD closure at Ha Noi Medical University Hospital
Operators: Nguyen Lan Hieu, YY Lam, Hidehiko Hara
Echo: Pierre Wong

Live case 6: VSD closure at Queen Sirikit National Institute Of Child Health, Bangkok, Thailand
Operators: Worakan Promphan, Prakul Chanthong, Pimpak Prachasilchaisri
Echo: Thanarat Layangool
12.45 – 14.00

LUNCH SESSION

LUNCH SESSION 1

Ballroom

MASTER CLASS WITH MARIO CARMINATI

ASD CLOSURE: a challenge case

*Panelist: Masood Sadiq, Yun-Ching Fu, Suresh Venkateshacharya*

*Live case:* ASD Closure at Children Hospital 1, Ho Chi Minh City  
*Operators:* Bharat Dalvi, Mulyadi M Djer, Do Nguyen Tin  
*Echo:* Nina Wunderlich, Phan Tien Loi

*Lectures: East meets West*

Bharat Dalvi (India) and Zahid Amin (US)  
Teiji Akagi (Japan) and Nikolas Haas (Germany)  

ASD closure for large defects  
ASD closure for fenestrated defects

LUNCH SESSION 2

Function Room 2

CHALLENGE CASES WITH NEIL WILSON

Khin Maung Oo (Myanmar)

Critical PS  
PDA closure in pulmonary hypertension  
Pulmonary valvuloplasty  
PDA stenting in PA-IVS  
ASD closure  
Pulmonary stent migration
14.15 – 16.00

SESSION 3: TIPS AND TRICKS IN PDA CLOSURE

Chairpersons: Neil Wilson, Mario Carminati, Bharat Dalvi

Neil Wilson (US) | Tips and tricks in PDA closure in small baby
Tomita H (Japan) | Tips and tricks in PDA closure in huge PDA
Masood Sadiq (Pakistan) | Tips and tricks in PDA closure in pulmonary hypertension
Krishna Kumar (India) | How to use modified devices in PDA closure

Live cases from:
- Children Hospital 1, HCMC
- Hanoi Medical University
- Queen Sirikit Children Hospital, Bangkok, Thailand

Panelists: Joaquim Miro, Maiy H.El Sayed, Jou-Kou Wang

Live case 7: PDA closure in small baby at Children Hospital 1, Ho Chi Minh City
Operators: Kevin Walsh, Sukman Putra, Nguyen Minh Tri Viet, Do Nguyen Tin

Live case 8: PDA closure with PAH at Ha Noi Medical University Hospital
Operators: Nguyen Lan Hieu, YY Lam, Hidehiko Hara

Live case 9: PDA closure in Queen Sirikit National Institute Of Child Health, Bangkok, Thailand
Operators: Worakan Promphan, Pimpak Prachasilchai

16.00 – 16.15 Coffee break
16.15 – 18.15
SESSION 4: TIPS AND TRICKS IN RETRIEVING FOREIGN BODY

Chairpersons: Neil Wilson, Mario Carminati, Bharat Dalvi

Tips and tricks in retrieving the ASD device?
Tips and tricks in retrieving the PDA device?
Tips and tricks in retrieving the coil?
Tips and tricks in retrieving the small foreign body: guide wire, catheter…?

Live cases from:
- Children Hospital 1, HCMC
- Hanoi Medical University
- Queen Sirikit Children Hospital, Bangkok, Thailand

Panelists: Avraham Lorber, Ahmet Celebi, K. Sivakumar

Live case 7: PDA stenting at Children Hospital 1, Ho Chi Minh City
Operators: Mazeni Alwi, Jae-Young Choi, Huynh Ngoc Thien, Do Nguyen Tin

Live case 8: Balloon valvuloplasty for Pulmonary stenosis at Ha Noi Medical University Hospital
Operators: Nguyen Lan Hieu, YY Lam, Hidehiko Hara

Live case 9: TPVI at Queen Sirikit National Institute Of Child Health, Bangkok, Thailand
Operators: Shakeel A. Qureshi, Worakan Promphan, Pimpak Prachasilchai
Function Room 1: PARALLEL SESSION
Fetal Echocardiography Course
Course Directors: Gurleen Sharland, Adam Kolesnik, Haifa Abdul Latiff, Balu Vaidyanathan, Nguyen Kim Tuyen, Do Thi Cam Giang

10:00 – 10:30  Review of important features of normal fetal heart examination
10:30 - 10:45  Abnormalities seen in the four chamber view
   - Hypoplastic left heart syndrome and variants
   - Critical AS
   - Pulmonary atresia with intact IVS
   - Critical PS
   - Tricuspid atresia
   - Ebstein’s anomaly and Tricuspid Valve Dysplasia
   - Other
11:15 - 12:00  Great artery abnormalities
   - Transposition of the great arteries
   - Tetralogy of Fallot
   - Pulmonary atresia with VSD
   - Common arterial trunk
   - Other
12:00 - 13:15  Live demonstration
13:15 - 14:00  Lunch break
14:00 - 14:30  Aortic arch abnormalities
   - Coarctation
   - Interrupted aortic arch
   - Right aortic arch
   - Double aortic arch
   - Aberrant right subclavian
14:30 - 15:30  Live demonstration
15:30 - 16:30  Quiz

19.00 – 22.00  Occlutech’s social dinner
Day 2: January 14th, 2016

LEFT HEART INTERVENTION FROM A TO Z

8.00 - 10.00  SESSION 5: Above Mitral Valve

Chairpersons: Lee Benson, Zahid Amin, Trong-Phi Le

Jun Yoshimoto (Japan)  Atrial septal puncture in pediatric patients: tips and tricks
Martin Schneider (Germany)  Inter-atrial stenting in HLHS
Pulmonary vein stenosis: A job creation scheme? The gift that keeps on giving?
Pulmonary vein stenosis: balloon / blade / stents, drug eluting balloons, drug eluting stents / systemic antiproliferative drugs.
Congenital mitral inflow obstruction: Cortriatriatum, supravalve ring: Is there an interventional solution?

Live cases
- Children Hospital 1, HCMC
- Medical University of HCMC
- Ha Noi Medical University Hospital

Panelists: Dietmar Schranz, Pornthep Lertsapcharoen, Hasri Samion

Live case 13: Balloon in critical AS at Children Hospital 1, Ho Chi Minh City
Operators: Jacek Bialkowski, Jieh-neng Wang, Do Nguyen Tin, Nguyen Ba Trieu

Live case 14: Aortic coarctation stenting at Medical University Hospital of Ho Chi Minh City
Operators: Geoffrey K. Lane, Cao Viet Tung, Truong Phi Hung

Live case 15: TAVI at Ha Noi Medical University Hospital
Operators: Nguyen Lan Hieu, YY Lam, Hidehiko Hara
SESSION 6: Mitral Valve Intervention
Chairpersons: Lee Benson, Zahid Amin, Trong-Phi Le

Pham Manh Hung (Vietnam)  |  PTMC in rheumatic patients
Maiye H.El SaYe (Egypt)    |  Balloon mitral valvuloplasty using the double balloon technique
                                  |  Mitral regurgitation: Leaflet clip / suture vs ring reduction why not both
                                  |  Mitral valve repair: what we learn from surgeon?
                                  |  Mitral bioprosthesis dysfunction: valve in valve?

11.15 - 12.15

Live cases from
- Children Hospital 1, HCMC
- Medical University of HCMC
- Ha Noi Medical University Hospital

Panelists: Teji Akagi, Young- Hwue Kim, Do Quang Huan

Live case 16:  Pulmonary vein stenosis at Children Hospital 1, Ho Chi Minh City
Operators: Nageswara Rao, Jonas Del Rosario, Do Nguyen Tin, Le Hong Quang

Live case 17:  Post-operative coartation at Medical University Hospital of Ho Chi Minh City
Operators: Joaquim Miro, Jou-Kou Wang, Le Minh Khoi, Truong Quang Binh

Live case 18:  PTMC at Ha Noi Medical University Hospital
Operators: Nguyen Lan Hieu, YY Lam, Hidehiko

9.00- 12.00: Function room 1

Hands-on practice with simulator with St Jude Medical
LUNCH SESSION

LUNCH SESSION 1

Ballroom

MASTER COURSE WITH NEIL WILSON
PDA CLOSURE: challenge case

Panelist: Jou-Kou Wang, Poppy S. Roebiono, Kalayansundaram

Live case 1: PDA closure at Children Hospital 1, Ho Chi Minh City
Operators: Hasri Samion, Cheng Dexter, Do Nguyen Tin
Echo: Haifa Abdul Latiff

Lectures: East meets West

Nageswara Rao (India) and Mario Carminati (Italy) | PDA closure in borderline cases
Jae Young Choi (Korea) and Joaquim Miro (Canada) | PDA closure in small babies

LUNCH SESSION 2

Function Room 2

INTERESTING CASES OF LEFT HEART INTERVENTION

With Lee Benson

- aortic valve stenosis
- Coartation
- LAA closure
- Paravalvar leak
- Mid-aortic syndrome
- PTMC
SESSION 7: Below Mitral Valve

Chairpersons: Shakeel Qureshi, Omar Galal, Hans-Reiner Figulla

| Sharland Gurleen (UK) | Is fetal detection making an impact on mortality? Morbidity? Pre-intervention management? Hybrid approach: which hybrid? Has the promise of hybrid been realized in survival or morbidity Can we minimize multi-organ comorbidity? |
| Schranz Dietmar (Germany) | Duct stenting in duct dependent systemic blood flow |

*Live cases from* - Children Hospital 1, HCMC - Medical University of HCMC - Ha Noi Medical University Hospital

*Panelists: Jae-Young Choi, Hideshi Tomita, Truong Quang Binh*

*Live case 19: Balloon angioplasty for critical Coarctation in small baby at Children Hospital 1, Ho Chi Minh City*  
*Operators: Joseph De Giovanni, Kritvikrom Durongpisitkul, Do Nguyen Tin*

*Live case 20: Mid-aortic syndrome at Medical University Hospital of Ho Chi Minh City*  
*Operators: Do Quang Huan, Huynh Ngoc Thien, Truong Phi Hung*

*Live case 21: LAA closure at Ha Noi Medical University Hospital*  
*Operators: Nguyen Lan Hieu, Hara Hidehiko*

15.45 – 16.00 Coffee break
16.00 – 18.00  
**SESSION 8: Aortic Valve Intervention**

**Chairpersons:** Shakeel Qureshi, Omar Galal, Hans-Reiner Figulla

Pros and cons: Aortic stenosis in children
- **Balloon is better**
- **Surgery is better**

<table>
<thead>
<tr>
<th>S. Sivakumar (Malaysia)</th>
<th>Nageswara Rao (India)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antenatal detection and disease evolution of aortic stenosis</td>
<td>Critical aortic valve stenosis in newborn</td>
</tr>
<tr>
<td>Balloon for aortic stenosis: size and technology</td>
<td>Results: the good, the bad, the ugly</td>
</tr>
</tbody>
</table>

14.00 – 16.30

**PARALLEL SESSION**

**LAA closure**

**Chairpersons:** Nina Wunderlich, Mario Carminati, YY Lam, Jai-Jun Park

<table>
<thead>
<tr>
<th>Nina Wunderlich (Germany)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atrial septal puncture</td>
</tr>
<tr>
<td>Indications and assessment of risk, challenge of the older patients.</td>
</tr>
<tr>
<td>Imaging before during and after</td>
</tr>
<tr>
<td>Watchman</td>
</tr>
<tr>
<td>St Jude Amulet</td>
</tr>
<tr>
<td>LifetechL’Aubre</td>
</tr>
<tr>
<td>Lariat (Sentreheart)</td>
</tr>
<tr>
<td>Occlutech</td>
</tr>
<tr>
<td>Wavecrest</td>
</tr>
</tbody>
</table>

19.00 - 21.30: **Gala Dinner for all Delegates**
Day 3: January 15th, 2016

LEFT HEART INTERVENTION FROM A TO Z

8.00 - 10.00 SESSION 9: Above aortic valve

Chairpersons: Neil Wilson, Mario Carminati, Omar Galal

Zahid Amin (US) | Valsalva sinus rupture: pitfalls in device closure.
Shakeel Qureshi (UK) | Updates in intervention of Coronary fistulas
 | Intervention in AP window: Who, When and How?
 | Left heart device: volume reduction, pump assist

Live cases from - Children Hospital 1, HCMC
 | - Medical University of HCMC

Panelists: Masood Sadiq, Jou-Kou Wang, Rohit Manoj

Live case 25: AP window closure at Children Hospital 1, Ho Chi Minh City
 | Operators: Toshio Nakanishi, Supaporn Roymane, Do Nguyen Tin

Live case 26: LAA closure at Medical University Hospital of Ho Chi Minh City
 | Operators: Kevin Walsh, Pornthep Lertsapcharoen, Le Hong Quang

10.00 - 10.15 Coffee break
10.15 – 12.00 SESSION 9: Aortic Arch

Chairpersons: Neil Wilson, Mario Carminati, Omar Galal

Sharland Gurleen (UK)  | Coarctation in fetal echocardiography and implications for delivery management
Haifa Abdul Latiff (Malaysia)  | Cardiac imaging in Aortic coarctation
Joseph DeGiovani (UK)  | Aortic coarctation intervention in small baby
Balloon and stent selection in Coarctation
Schrantz Dietmar (Germany)  | ‘Growth stents”? Bioabsorbable technology? Drug eluting stents? We’re tired of waiting

Live cases from
- Children Hospital 1, HCMC
- Medical University of HCMC

Panelists: Geoffrey K. Lane, Nageswara Rao, Rasha Ammar

Live case 27: Coronary fistula at Children Hospital 1, Ho Chi Minh City
Operators: Lee Benson, Thanarat Layangool, Do Nguyen Tin

Live case 28: TAVI at Medical University Hospital of Ho Chi Minh City
Operators: Shakeel A. Qureshi, Worakan Promphan, Pimpak Prachasilchai
Echo: Nina Wunderlich

9.00 – 12.00

PARALLEL SESSION

Function Room 1

TAVI

Moderators: Hans-Reiner Figulla, Nina Wunderlich, Nguyen Lan Hieu

Nina Wunderlich (Germany)  | Pre procedural evaluation: importance of imaging
Hans-Reiner Figulla (Germany)  | Evolution of technology and indications, what is available now
Mario Carminati (Italy)  | Valve in valve & younger patients are we moving in the right direction
Heart block, stroke, paravalve leak, major arterial disruption – Can we avoid these major adverse events
Nguyen Lna Hieu (Vietnam)  | TAVI in developing countries
12.15 – 14.00 LUNCH SESSION

LUNCH SESSION 1

Ballroom

MASTER COURSE WITH JOSEPH DE GIOVANNI

VSD closure: difficult case

Panelist: Hara Hidehiko, Yat-Yin Lam, Jonas Del Rosario

Live case 1: VSD closure from Children Hospital 1, Ho Chi Minh City
Operators: Do Nguyen Tin, Alejandro Peirone, Nguyen Ba Trieu

Lectures: East meets West

Jou-Kou Wang (Taiwan) and Joseph DeGiovani (UK) | Closure of muscular VSD
Worakan Promphan (Thailand) and Joanquim Miro (Canada) | Closure of perimembranous VSD

LUNCH SESSION 2

Function Room 2

CHALLENGING CASES

With Shakeel Qureshi

Khin Maung Oo (Myanmar) | Critical PS
| PDA closure in pulmonary hypertension
| Pulmonary valvuloplasty
| PDA stenting in PA-IVS
| Transcatheter treatment of interrupted aortic arch type A
| Coarctation stenting
| ASD closure
| Pulmonary stent migration
SESSION 10: Aortic Arch (cont.)

Chairpersons: Shakeel Qureshi, Joseph De Giovanni, Bharat Dalvi

Live cases from - Children Hospital 1, HCMC
- Medical University of HCMC

Panelists: Mazeni Alwi, Kritvikrom Durongpisitkul, Jing-Ming Wu

Live case 29: Coarctation stenting at Children Hospital 1, Ho Chi Minh City
Operators: Mario Carminati, Jou-Kou Wang, Rahmat Budi, Do Nguyen Tin

Live case 30: Valsalva rupture closure at Medical University Hospital of Ho Chi Minh City
Operators: Zahid Amin, Jonas Del Rosario, Nguyen Ba Trieu, Le Minh Khoi

Pros and cons: Aortic coarctation in children
Surgery: always better
Intervention: always better

Shakeel Qureshi (UK) | Transverse coarctation
Ahmed Celebi (Turkey) | Critical coarctation
Martin Schneider (Germany) | Interrupted aortic arch
Teiji Akagi (Japan) | Mid-aortic syndrome
| Takayasu’s arteritis

17.00- 17.15

Closing remarks: Vu Minh Phuc