THE 5TH HANDS-ON SURGICAL TRAINING (HOST)
CONGENITAL HEART DISEASE SURGERY WITH 3D PRINT MODELS

December 7-9, 2019
Peter Gilgan Centre for Research and Learning (PGCRL)
Hospital for Sick Children, Toronto, Canada

♥ Generously Supported by Fabiola and Peter Butler ♥
The registration fee will be waived for the surgeons in training.

Peter and Fabiola Butler live in Toronto and have generously supported the Labatt Family Heart Centre and the HOST Training Program. Peter was born in 1959 with Tetralogy of Fallot. In 1961, Peter had his first surgery; a right Blalock-Taussig shunt followed by the full repair, performed by Dr. William Mustard at the Hospital for Sick Children in 1969. In 1988, Peter had a pulmonary valve replacement performed by Dr. William Williams of SickKids at The Toronto General Hospital.

Peter and Fabiola graduated from Ryerson University each with Business degrees in 1986. They married in 1989. Peter has worked in the technology industry for more than 30 years and in 1998 he co-founded VocalLinks Inc. VocalLinks Inc. is recognized as a leading integrator of speech recognition and assistive technologies for Business, Education, Healthcare, and Law Enforcement. Fabiola left a career in the Financial Services industry to join the fledgling company in 2002 and has quietly guided the team ever since.
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## PROGRAM

### Day 1. December 7

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-13:20</td>
<td>Registration</td>
<td></td>
</tr>
<tr>
<td>13:20-13:30</td>
<td>Opening address</td>
<td>D. Barron</td>
</tr>
<tr>
<td>13:30-13:45</td>
<td>Flattening the worldwide standard of congenital heart surgery: A patient’s perspective.</td>
<td>P. Butler</td>
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<tr>
<td>13:45-14:15</td>
<td>Demonstration 1. Arterial switch operation</td>
<td>D. Barron</td>
</tr>
<tr>
<td>14:15-14:30</td>
<td>Hands-on Practice Session</td>
<td>All surgeons</td>
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<tr>
<td>14:30-17:30</td>
<td>Break-out Hands-on Session 1</td>
<td>All surgeons</td>
</tr>
<tr>
<td>18:30</td>
<td>Dinner</td>
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</tbody>
</table>

### Day 2. December 8

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30-8:00</td>
<td>Continental Breakfast</td>
<td></td>
</tr>
<tr>
<td>8:00-9:00</td>
<td>Demonstration 2. RVOT reconstruction</td>
<td>O. Honjo</td>
</tr>
<tr>
<td>9:00-12:00</td>
<td>Break-out Hands-on Session 2</td>
<td>All surgeons</td>
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<tr>
<td>12:00-13:00</td>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>13:00-14:00</td>
<td>Demonstration 3. Norwood operation</td>
<td>G. van Arsdell</td>
</tr>
<tr>
<td>14:00-17:00</td>
<td>Break-out Hands-on Session 3</td>
<td>All surgeons</td>
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### Day 3. December 9

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>7:30-8:00</td>
<td>Continental Breakfast</td>
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<tr>
<td>8:00-11:00</td>
<td>Break-out Hands-on Session 4</td>
<td>All surgeons</td>
</tr>
<tr>
<td>11:00-12:00</td>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>12:00-15:00</td>
<td>Break-out Hands-on Session 5</td>
<td>All surgeons</td>
</tr>
<tr>
<td>15:00-17:00</td>
<td>Master’s Hands-on Session</td>
<td>All surgeons</td>
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<tr>
<td>17:00-18:00</td>
<td>Q/A and Adjourn</td>
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<tr>
<td>18:00-</td>
<td>Networking</td>
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**THE 5TH HANDS-ON SURGICAL TRAINING (HOST)**

**CONGENITAL HEART DISEASE SURGERY WITH 3D PRINT MODELS**

December 7-9, 2019

**Course Format:**

Attendees are divided into groups of two to perform the procedures by alternating the roles of the primary operator and assistant with supervision from the proctors throughout the course. Two parallel tracks are available to choose.

**Exposure track: Attendee chooses 5 cases from the choices listed below:**

- Atrioventricular septal defect, complete form
- Tetralogy of Fallot
- Atrioventricular septal defect with tetralogy of Fallot
- Truncus arteriosus Type II
- Transposition of the great arteries for arterial switch operation
- Double outlet right ventricle with a subaortic VSD
- Double outlet right ventricle with a remote VSD aligned with subaortic outflow tract
- Double outlet right ventricle with a subpulmonary VSD
- Coarctation of the aorta with tubular hypoplasia of the aortic arch
- Hypoplastic left heart syndrome for Norwood operation
- Interrupted aortic arch with a posterior malalignment VSD
- Truncus arteriosus with interrupted aortic arch

**Rehearse-Rehearse-Rehearse track: Attendee chooses one of 4 R-tracks listed below:**

**R-Track 1: Arterial switch operation:**

- Case 1. Transposition of the great arteries (1LCx2R) for arterial switch operation
- Case 2. Transposition of the great arteries (1L2RCx) for arterial switch operation
- Case 3. Transposition of the great arteries with VSD and aortic arch obstruction
- Case 4. Transposition of the great arteries with VSD and LV outflow tract obstruction
- Case 5. Taussig-Bing malformation

**R-Track 2: Aortic arch reconstruction :**

- Case 1. Coarctation of the aorta with tubular hypoplasia of the aortic arch 1
- Case 2. Coarctation of the aorta with tubular hypoplasia of the aortic arch 2
- Case 3. Interrupted aortic arch with a posterior malalignment VSD
- Case 4. Hypoplastic left heart syndrome for Norwood operation
- Case 5. Double inlet left ventricle with aortic arch obstruction

**R-Track 3: RVOT reconstruction :**

- Case 1. Tetralogy of Fallot for transannular repair
- Case 2. Tetralogy of Fallot for valve saving surgery
- Case 3. Tetralogy of Fallot with left anterior descending coronary artery from RCA
- Case 4. Truncus arteriosus Type II
- Case 5. Tetralogy of Fallot with pulmonary atresia and unifocalizable MAPCAs

**R-Track 4. Atrioventricular septal defects :**

- Case 1. Partial atrioventricular septal defect with left ventricular outflow tract stenosis
- Case 2. Complete atrioventricular septal defect, Rastelli type A
- Case 3. Complete atrioventricular septal defect, Rastelli type B
- Case 4. Complete atrioventricular septal defect with deficient left lateral mural leaflet
- Case 5. Atrioventricular septal defect with tetralogy of Fallot
Course Coordinators:
Shi-Joon Yoo, Staff Cardiac Radiologist, Hospital for Sick Children, Toronto
Nabil Hussein, Research Fellow, 3D Print Heart Program, Hospital for Sick Children, Toronto

Proctors:
David Barron, Head of Cardiovascular Surgery Appointee, Hospital for Sick Children, Toronto
Osami Honjo, Staff Cardiovascular Surgeon, Hospital for Sick Children, Toronto
Christoph Haller, Staff Cardiovascular Surgeon, Hospital for Sick Children, Toronto
Glen van Arsdell, Chief of Cardiovascular Surgery, Ronald Reagan UCLA Medical Center, USA

Eligible applicants: Cardiovascular surgeons on staff position or in training
Registration fee: Canadian $2500 (Waived for the surgeons in training)
There are 12 spots available and the application will be accepted on a first-come, first-served basis.

THE 5TH HANDS-ON SURGICAL TRAINING (HOST)
CONGENITAL HEART DISEASE SURGERY WITH 3D PRINT MODELS
December 8-10, 2019

APPLICATION FORM

Name: ___________________________ Date of Birth: ___________________________
Affiliated hospital: ___________________________________________________________
Current position: ____________________________________________________________
Years: ________________

I would like to take the following track: □ Exposure Track □ Rehearse-Rehearse-Rehearse Track: Track Number: ____________

Mailing address: ______________________________________________________________

E-mail: ___________________________ Tel: ___________________________ Fax: ____________

This course is offered only to cardiac surgeons who can attend the entire course. By signing this form, I promise to attend the entire course without any interruption or withdrawal. I also consent to be videotaped or photographed while I attend the course for outcome assessment of the course, and further authorize that the video clips and photographs of myself and my filled-in questionnaires /assessment forms may be used for publication or presentation for academic or promotional purposes of any form.

Sign: ___________________________ Date: ___________________________

Please e-mail or fax your application form to Caroline Robertson (caroline.robertson@sickkids.ca, 1-416-813-8389), and call Caroline Robertson (1-416-813-6029) with your credit card information to complete your registration. Please note that application is on a first-come, first served basis.
Satellite Hands-on Morphology Course

The 2nd Contemporary Morphology Course with Specimens and 3D Print Models

CONGENITAL HEART DISEASES IN YOUR HANDS

♥ Abnormalities of the Atrioventricular Junction ♥

December 6-7, 2019

Peter Gilgan Centre for Research and Learning (PGCRL)
Hospital for Sick Children, Toronto, Canada

Registration fee: For Attendees of the HOST course Canadian $250 (Not waived for the surgeons in training)

APPLICATION FORM

Name: ___________________________________________ Specialty: ________________________________

Affiliated hospital: ________________________________________________________________

Current position: ___________________________________________________________ Years: __________

Mailing address: ________________________________________________________________

E-mail: ___________________________ Tel: ___________ Fax: __________________

I consent to be photographed or video-taped on December 6-7, 2019 while I participate in this course. I further authorize that the photographs and video clips of myself and my filled-in questionnaire may be used for publication or presentation for academic or promotional purposes in any form.

Sign: ___________________________ Date: ____________________

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