

## **Swiss Academy for Training Cardiac Surgery**

### **Program of the Level 1 Training Curriculum**

#### **Level 1**

#### **Aortic Valve – Aortic root – Ascending aorta**

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**August 31 – September 1, 2018**

### **Friday, August 31**

09:00-09:30 Registration

09:30-09:35 Welcome & course information by Piergiorgio Tozzi and Jürg Schmidli

09:35-10:00

#### **Tips & tricks lectures**

09:35-09:45 **Cardioplegia strategies** by **Oliver Reuthebuch, Basel**

09:45-10:00 **Sutures and needles: when and why** by **Carlos Mestres, Zurich**

10:00-13:30

#### **Module 1 Ascending Aorta Replacement (AAR)**

10:00-10:15 **Tutorial video: AAR “live in the simulator”** covering the following issues:

- Anatomy of the ascending aorta
- CPB establishment
- Cross clamp application and cardioplegia injection.
- Aortotomy principles and resection of the ascending aorta
- Sizing and choosing the right graft
- Proximal and distal anastomosis techniques
- Deairing, cross clamp removing and suture line checking for leaks
- Principles of extra stitches placement

11:00-13:30 hands on sessions on simulator

13:30-14:15 Lunch and open discussions with tutors

14:15-14:45

#### **Tips & tricks lectures**

14:15-14:30 **Choosing the right artificial valve** by **Enrico Ferrari, Lugano**

14:30-14:45 **AV implant techniques** by **Peter Matt, Luzern**

14:45-19:00

#### **Module 2 Aortic Valve Replacement (AVR)**

14:45-15:00 **Tutorial video: AVR “live in the simulator”** covering the following issues:

- Full CPB with cardioplegia and cross clamp
- Venting the left ventricle and aortic clamping.
- Aortotomy: hockey stick or transverse
- Valve excision
- Annular sutures placing and organizing
- Landing the artificial valve
- Closing the aorta: techniques
- Deairing manoeuvres prior to cross clamp removal
- Weaning the CPB
- Haemostasis check and extra stitches placement strategies

15:00-19:00 hands on sessions on simulator

19:30 - on

**Social dinner**

## **Saturday, September 1**

08:30-09:00

**Tips & tricks lectures**

08:30-08:45 **Challenges of the aortic root** by **Achim Häussler, Zurich**

08:45-09:00 **Surgical strategies in aortic root replacement** by **Florian**

**Schönhoff, Berne**

9:00- 16:00

**Module 3 Aortic Root Replacement (ARR): Bentall-De Bono operation**

09:00-09:15 **Tutorial video: Bentall-De Bono operation“live in the simulator”**  
covering the following issues:

- Full CPB with cardioplegia and cannulation strategy
- Venting the left ventricle and aortic clamping.
- Aorta and valve excision
- Suture techniques on the annulus
- Coronary ostia implantation (tips and tricks)
- Distal aortic anastomosis (with or without cross clamp)
- Deairing manoeuvres prior to cross clamp removal
- Weaning of the CPB.
- Decannulation at end of procedure

09:15-12:00 hands on sessions on simulator

12:00- 13:00 Lunch

13:00-16:00 hands on sessions on simulator

16:00-16:15 Feedback session and Closing remarks

### *Organization*

The course is organised by The Swiss Society for Cardiac and Vascular Thoracic Surgery in collaboration with the Vascular International School.

### *Steering committee and tutors*

- Mustafa Cikirikcioglu, Geneva
- Omer Dzemali, Zurich
- Enrico Ferrari, Lugano
- Achim Häussler, Zurich
- Peter Matt, Lucerne
- Carlos Mestres, Zurich
- Oliver Reuthebuch, Basle
- Florian Schönhoff, Berne
- Jürg Schmidli, Berne
- Piergiorgio Tozzi, Lausanne

### *Course objectives*

This course aims to provide excellent insights of the aortic root and aortic valve anatomy. On life-like models specifically developed for this course, participants will learn surgical technics on aortic valve replacement and ascending aorta surgery in a one-to-one relationship with the assigned tutor. The high experienced tutors will assist participants in improving their technical skills and will share their knowledge and experience with them. At the end of the course participant will be able to master principles ascending aorta replacement, aortic suturing, aortic valve replacement and Bentall procedure.

### *Feedback and Debriefing*

The participant will receive guidance and formative feedback from the faculty during the exercises and guidance for practice. Likewise, the resident is encouraged to provide feedback regarding the perceived relevance of the assignments and the validity of the tasks.

The participants can download the certificate after filling out the e-based questionnaire.

### *Location*

Vascular International School at Hotel Kurhaus am Sarnersee ([www.kurhaus-am-sarnersee.ch](http://www.kurhaus-am-sarnersee.ch)) located at lake Sarnen, Wilerstrasse 35, 6062 Wilen /Sarnen, a village in the canton of Obwalden.

### *Who should not miss this course*

Trainees in cardiac surgery in Switzerland, junior consultants and potential candidates to cardiac surgery training. The course is also open to MDs from all European countries. The number of participants is limited to 10 to ensure that the close tutor-to-trainee interaction guarantees an intensive learning process.

*Course Fee:* CHF 1'600 per participant. The fee includes didactic material, refreshments and lunch. Dinner and hotel accommodation are separate (CHF 200).

**Registration online: [www.vascular-international.org](http://www.vascular-international.org)**

Official language English.

*Endorsement*

SGHC/SSCC 15 Credits (residents and CME)

*Contact:*

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