



# FOCUS: Valve 2018

8 live surgeries in 3D - workshops - wetlabs

10<sup>th</sup> Training Course for  
Minimally Invasive Heart Valve Surgery

Medical University Innsbruck

INNSBRUCK | AUSTRIA | SEPT. 16 – 19, 2018



[www.focusvalve.org](http://www.focusvalve.org)

Dear colleagues and friends!

**Less invasive approaches** to the heart valves are a quality-related requirement for those who deal with cardiac valve disease. Due to recent developments of technique and technology each patient has a right to receive the **most appropriate, i.e. most curative, long-lasting and least debilitating treatment** from a broad spectrum of surgical and interventional therapies.

In its **10<sup>th</sup> Anniversary FOCUS Valve** will provide physicians with newest information on less invasive valve treatment. More than ever surgeons have the obligation to be the case managers of heart valve patients. No other specialist has such in-depth knowledge of the pathological anatomy and pathophysiology of valvular disease and has all the treatment options at hand. It is our obligation to select the most appropriate procedure for the individual patient - be it surgical or interventional - and to perform at the highest standard.

**Focus Valve 2018** will feature a **comprehensive practical course** on minimally invasive surgical and interventional therapy of valvular disease.

Heart surgeons must not restrict themselves to classical surgical techniques anymore - be it minimally invasive or full sternotomy - but must have also **profound knowledge and skills in interventional techniques**. Only then the **Heart Team** comprising surgeons, cardiologists and anesthesiologists will come alive for the benefit of the patient.

To meet these demands **Focus Valve 2018** will include **workshops, live surgeries and wetlab training in minimally invasive surgical and interventional techniques**.

FOCUS Valve is part of a **four module educational program** in minimally invasive valve surgery offered by the Department of Cardiac Surgery of Medical University Innsbruck comprising presentations and live surgeries (Module I), wetlab training (Module II), team visits to our OR by separate appointment (Module III) and local proctoring on request (Modul IV).

Looking forward to welcoming you in Innsbruck!

**Ludwig Müller & Michael Grimm**  
*Course directors*

**Nikos Bonaros**  
*Scientific secretary*

## Highlights 2018:

Interactive workshops:

Echocardiography

MICS techniques for aortic, mitral, tricuspid and atrial fibrillation interventions and surgery

Live surgeries:

OR live transmissions with the most advanced 3-D technology

Wetlabs:

MICS hands-on training with 3-D imaging technology

Aortic and mitral valve interventions in a porcine beating heart model

## LEARNING OBJECTIVES

- Minimally invasive access for valve surgery
- Patient selection
- Preoperative imaging
- Mini-thoracotomy and partial sternotomy
- Cannulation strategies
- Repair techniques for mitral and tricuspid valve
- 3D videoendoscopy
- Prosthetic valve selection
- Intraoperative echocardiography for surgesons
- Atrial fibrillation
- Trouble shooting
- Teaching minimally invasive valve surgery
- Starting a minimally invasive valve program
- Wire skills
- Transcatheter interventions in aortic, mitral and tricuspid valves
- Patient selection for interventional therapy
- Role of the heart team
- Wetlab training of minimally invasive mitral surgery
- Wetlab interventional valve therapy in a porcine beating heart simulator

### **COURSE DIRECTORS:**

Ludwig Müller, Michael Grimm

### **CO-DIRECTOR:**

Jose-Luis Pomar, Spain

### **SCIENTIFIC SECRETARY:**

Nikos Bonaros, Austria

### **FACULTY**

Agne Adukauskaitė, Austria  
Ottavio Alfieri, Italy  
Ralph Stephan von Bardeleben,  
Germany  
Carmine Bevilacqua, Germany  
Gry Dahle, Norway  
Michele De Bonis, Italy  
Anno Diegeler, Germany  
Kai-Nicolas Doll, Germany  
Christian Ebner, Austria  
Guy Friedrich, Austria  
Mattia Glauber, Italy  
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Martin Grabenwöger, Austria  
Christian Hagl, Germany  
Herbert Hangler, Austria

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Johannes Holfeld, Austria  
Daniel Höfer, Austria  
Christoph Holzinger, Austria  
Alfred Kocher, Austria  
Günther Laufer, Austria  
Andreas Liebold, Germany  
Georg Lutter, Germany  
Peter Mair, Austria  
Agnes Mayr, Austria  
Bernhard Metzler, Austria  
Silvana Müller, Austria  
Paulo Neves, Portugal  
Patrick Perier, Germany  
Gerhard Pözl, Austria  
Frank Van Praet, Belgium  
Roman Przybylski, Poland  
Hermann Reichenspurner, Germany  
Mauro Rinaldi, Italy  
Stefano Salizzoni, Italy  
Peyman Sardari Nia, Netherlands  
Jörg Seeburger, Germany  
Rainald Seitelberger, Austria  
Severin Semsroth, Austria  
Piotr Suwalski, Poland

Corinna Velik-Salchner, Austria  
Emmanuel Villa, Italy  
Hunaid Vohra, United Kingdom  
Thomas Walther, Germany  
Wilfried Wisser, Austria  
Rashmi Yadav, United Kingdom  
Joseph Zacharias, United Kingdom  
Andreas Zierer, Austria

### **ORGANIZING FACULTY**

Orest Chevtchik, Austria  
Julia Dumfarth, Austria  
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Julian Wagner, Austria  
Vitalijs Zujs, Austria

### Preview to FOCUS Valve 2018

- In 2018 **most time will be devoted to live surgeries transmitted in 3D** with the task given to the international expert panels to discuss the demonstrated surgical strategies and techniques and share their personal experiences on specific topics. By that strictly frontal presentations will be kept to a minimum.
- Day 1 of FOCUS Valve will comprise **workshops on TEE and surgical and interventional heart valve techniques with live-in-a-box cases.**
- Days 2 and 3 will mainly include **minimally invasive live surgeries employing mini-thoracotomy and partial sternotomy.** Transmissions are exclusively in 3D. Renowned surgeons from European cardiac surgical centers will perform live surgeries, demonstrating their specific individual approach and technique.
- **Lectures on techniques and strategies** for MICS will be included between surgeries.
- **Individualized wetlab sessions** on artificial chordae implantation and valve sizing
- **Lunch workshops** on patient selection and imaging
- Day 4 will be devoted to hands-on training:
  - A porcine beating heart model will be used for training of transcatheter aortic and mitral valve techniques. Every participant can perform transcatheter aortic and mitral valve procedures on a high fidelity simulator using fluoroscopy and TEE. An intracardiac camera will give immediate feedback.
  - MICS surgical techniques (use of long shafted instruments, videoendoscopic surgery of the mitral valve) will be trained by the use of arrested pig hearts with 2D and 3D video equipment.
  - A course on transesophageal echocardiography for surgeons will complete the program.

## SCIENTIFIC PROGRAM

### Minimally invasive approaches for valvular disease

**DAY 1, Sunday, September 16, 2018**

**main auditorium**

**13:00 - 14:30 Workshop 1: Echocardiography for mitral valve surgery and interventions with case presentations and interactive discussions**

**Panel:** *Nikolaos Bonaros, Rainald Seitelberger, Julia Dumfarth*

TEE basics for surgeons' interaction  
with the echocardiographer  
Intraoperative evaluation of MV Repair  
Echo imaging in functional MR  
Cardiac MRI in FMR

*Carmine Bevilacqua, Leipzig*  
*Carmine Bevilacqua, Leipzig*  
*Christian Ebner, Linz*  
*Agnes Mayr, Innsbruck*

**14:30 - 15:00 Coffee break**

**15:00 - 16:30 Workshop 2: Live-in-a-box session aortic valve, FMR and beyond**

**Panel:** *Günther Laufer, Peyman Sardari Nia, Severin Semsroth*

RAT AVR with sutureless valve *Paulo Neves, Vila Nova de Gaia*  
RAT AVR with rapid deployment valve *Alfred Kocher, Vienna*  
AVR: preferred technique in an academic cardiac surgery center *Christian Hagl, Munich*  
Partial sternotomy for Bentall operation *Piotr Suwalski, Warsaw*  
Posterior leaflet augmentation for FMR *Anno Diegeler, Bad Neustadt*  
MIC papillary muscle relocation *Hermann Reichenspurner, Hamburg*  
The original Aalst technique for endoscopic MV repair *Frank Van Praet, Aalst*  
New frontiers in total endoscopic surgery *Andreas Liebold, Ulm*

**16:30 - 17:00 Coffee break**

**17:00 - 18:30 Workshop 3: Live-in-a-box session mitral valve and AF**

**Panel:** *Andreas Liebold, Emmanuel Villa, Wilfried Wisser*

Direct aortic cannulation for minithoracotomy MV surgery *Mattia Glauber, Milan*  
Endoaortic balloon occlusion *Mauro Rinaldi, Turin*  
MICS MIV surgery after prior right sided thoracotomy *Joseph Zacharias, Blackpool*  
Drylab endoscopic mitral valve repair *Peyman Sardari Nia, Maastricht*  
Beating heart transapical MV repair *Rashmi Yadav, London*  
Endoscopic transthoracic bipolar ablation *Kai Nicolas Doll, Stuttgart*  
MICS cryoablation *Kai Nicolas Doll, Stuttgart*  
Porcine beating heart trainer for mitral and aortic interventions *Can Gollmann-Tepekölyü, Innsbruck*

## SCIENTIFIC PROGRAM

**DAY 2, Monday, September 17, 2018**

**main auditorium**

**08:30 - 12:30**    **Welcome**

*Michael Grimm, Ludwig Müller, Innsbruck*

**Key note address:**

Future training in cardiac surgery: Maneuvering between Skylla and Charybdis

*Ottavio Alfieri, Milan*

**Live Cases: Moderation Jose-Luis Pomar, Barcelona**

**Panel:** *Anno Diegeler, Christian Hagl, Hermann Reichenspurner, Mattia Glauber*

Case presentation

*Can Gollmann-Tepeköylü, Innsbruck*

**Live case 1**

Minithoracotomy (RAT) aortic valve replacement with automated knot fastener  
*Surgeon: Günther Laufer, Vienna*

**Learning objectives:**

Right anterior minithoracotomy access, exposure, cannulation, prosthesis selection (rapid deployment valves vs. standard)

**Discussion of strategies**

**Live case 2**

Partial sternotomy for AV replacement  
*Surgeon: Michael Grimm, Innsbruck*

**Learning objectives:**

J-hemisternotomy approach, cannulation, valve exposure, prosthesis selection, valve replacement

**Panel**

**10:15 - 10:35**    **Coffee break**

**Presentations during live surgeries:**

Changing paradigms in AVR  
Sutureless or sutured valves: The PERSIST trial  
Durability issues: TAVI or surgical valves

*Severin Semsroth, Innsbruck*

*Emmanuel Villa, Brescia*

*Thomas Walther, Frankfurt*

**09:00 - 12:00**    **Individualized wetlabs**

**seminar room II**

Artificial chordae, valve sizing

**12:30 - 13:15**    **Lunch break**

## SCIENTIFIC PROGRAM

**DAY 2, Monday, September 17, 2018**

**main auditorium**

### 13:15 - 14:15 Lunch Workshop: TMVR and MIMVS: Guide to patient selection

**Chair:** Günther Laufer, N.N., Ottavio Alfieri, Joseph Zacharias

Partial sternotomy vs. minithoracotomy

Ludwig Müller, Innsbruck  
and Hunaid Vohra, Bristol

Aortic occlusion: The case for endoballoon

Mauro Rinaldi, Turin

The case for transthoracic clamp

Hunaid Vohra, Bristol

Advanced 3D image processing

Peyman Sardari Nia, Maastricht

### 14:15 - 14:30 Coffee break

### 14:30 - 18:00 Live Cases: Moderation Jose-Luis Pomar, Barcelona

**Panel:** Thomas Walther, Rashmi Yadav, Michele De Bonis, Jörg Seeburger

Case presentation

Can Gollmann-Tepeköylü, Innsbruck

#### Live case 3

Totally endoscopic MV surgery

Surgeons: Daniel Höfer, Innsbruck,

Ludwig Müller, Innsbruck

#### Learning objectives:

Team approach, cannulation, cardioplegia,  
port placement, valve exposure, chordae  
loops, annuloplasty

#### Discussion of strategies

#### Live case 4

Automated suturing for mitral replacement

Surgeon: Nikolaos Bonaros, Innsbruck

#### Learning objectives:

demonstration of innovative suturing  
technique, patient selection

**Panel**

### 15:30 - 16:00 Coffee break

#### Presentations during live surgeries:

Stroke risk in minimally invasive surgery

Mattia Glauber, Milan

CPB and myocardial protection

Frank Van Praet, Aalst

Aortic valve repair with porcine decellularized matrix

Roman Przybylski, Krakow

### 14:30 - 17:30 Individualized wetlabs

**seminar room II**

Artificial chordae, valve sizing

**18:00**

**End of Day 2**

## SCIENTIFIC PROGRAM

**DAY 3, Tuesday, September 18, 2018**

**main auditorium**

**08:30 - 12:30**

**Panel:** *Hunaid Vohra, Andreas Zierer, Mauro Rinaldi, Kai-Nicolas Doll*

ICU report and case presentation  
MV repair for FMR

*Can Gollmann-Tepeköylü, Innsbruck*  
*Michele De Bonis, Milan*

**Live Cases: Moderation Jose-Luis Pomar, Barcelona**

### Live case 5

Totally endoscopic repair for  
anterior/bileaflet prolapse  
*Surgeon: Patrick Perier, Paris*

#### Learning objectives:

Skin incision, port placement, valve  
exposure, repair strategy

#### Discussion of strategies

### Live case 6

Intraaortic balloon occlusion  
for MV surgery  
*Surgeon: Frank Van Praet, Aalst*

#### Learning objectives:

Cannulation for intraaortic balloon  
occlusion, monitoring, patient selection

**Panel**

### Coffee break

#### Presentations during live surgeries:

Innsbruck: Results MIMVS  
Chordal replacement  
Materials for artificial chords

*Daniel Höfer, Innsbruck*  
*Joerg Seeburger, Leipzig*  
*Ludwig Müller, Innsbruck*

**09:00 - 12:00**

**Individualized wetlabs**

**seminar room II**

Automated suturing and knotting devices for minimally invasive valve replacement

**12:00 - 12:45**

**Lunch break**

**12:45 - 14:00**

**Lunch Workshop: Imaging for valve interventions**

**Panel:** *Nikolaos Bonaros, Frank van Praet, Piotr Suwalski, Roman Przybylski*

Echo imaging for mitral valve interventions  
Fusion imaging  
Transcatheter mitral valve replacement

*Ralph Stephan van Bardeleben, Mainz*  
*Gry Dahle, Norway*  
*Georg Lutter, Kiel*

### Coffee break

**14:15 - 14:35**

**Honoured guest lecture:**

From the French Correction to endoscopic mitral valve repair

*Patrick Perier, Paris*



## SCIENTIFIC PROGRAM

**DAY 3, Tuesday, September 18, 2018**

**main auditorium**

**14:35 - 17:30 Live Cases: Moderation Jose-Luis Pomar, Barcelona**

**Panel:** *Patrick Perier, Martin Grabenwöger, Georg Lutter, Christoph Holzinger*

Case presentation

*Can Gollmann-Tepeköylü, Innsbruck*

**Live case 7**

Minimally invasive mitral  
valve repair + cryoablation + LAA occlusion  
*Surgeon: Kai Nicolas Doll, Stuttgart*

**Learning objectives:**

Access, ablation lines, technique of LAA  
clip occlusion

**Live case 8**

Hemisternotomy MV+TV repair  
*Surgeons: Ludwig Müller, Daniel Höfer,  
Innsbruck*

**Learning objectives:**

Hemisternotomy access to the mitral  
and tricuspid valves, MV and TV repair  
strategy and technique

**Discussion of strategies**

Innsbruck results interdisciplinary program of  
transcatheter mitral valve interventions therapy  
Evolution of minimally invasive valve surgery in an  
academic training center

**Panel**

*Johannes Holfeld, Innsbruck*

*Michael Grimm, Innsbruck*

**14:30 - 17:30 Individualized wetlabs**

**seminar room II**

Automated suturing and knotting devices for minimally invasive valve replacement

**17:30 Summary, Adjourn – End of Day 3**

## SCIENTIFIC PROGRAM

**DAY 4, Wednesday, September 19, 2018**

**08:00 - 12:00**    **TEE for surgeons**    **conference room anaesthesiology**

*Corinna Velik-Salchner, Peter Mair*

Theoretical and practical aspects of TEE for surgeons. Hands on in the cardiac OR in small groups. Limited number of participants.

**08:30 - 16:30**    **Porcine beating heart wetlab**    **seminar room I**

- Part I: Mitraclip implantation under TEE and cardioscopy guidance  
Part II: Beating heart off-pump implantation of artificial chordae for under TEE and cardioscopy guidance

- Training of balloon expandable TAVI under fluoroscopy and cardioscopy guidance  
90 minutes, 5 participants per group

*Tutors: Nikolaos Bonaros, Bernhard Metzler, Guy Friedrich, Gerhard Pözl, Florian Hintringer, Silvana Müller, Agne Adukauskaitė, Stefano Salizzoni*

**09:00 - 13:00**    **Wetlab I (identical to Wetlab II)**    **seminar room II**

- Practising MIMVS. Focus on shafted instruments, videoendoscopy, knot tying
- Automated suturing and knotting for aortic and mitral valve replacement

*Tutors: Herbert Hangler, Daniel Höfer*

**14:00 - 18:00**    **Wetlab II (identical to Wetlab I)**    **seminar room II**

- Practising MIMVS. Focus on shafted instruments, videoendoscopy, knot tying
- Automated suturing and knotting for aortic and mitral valve replacement

*Tutors: Herbert Hangler, Daniel Höfer*

**ONLINE REGISTRATION:** <https://registration.maw.co.at/valve18>

**REGISTRATION FEES**

**Preregistration  
until SEPT. 2, 2018**

**On site registration  
after SEPT. 2, 2018**

**DAY 1 – 3, Sunday, September 16 – 18, 2018**

<b>Focus valve training course</b>	€ 800.-	€ 950.-
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**DAY 4, Sunday, September 19, 2018**

<b>Intraoperative TEE</b> 08:00 - 12:00, limited registration	€ 400.-	€ 500.-
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<b>MICS wetlab I (morning)</b> 09:00 – 13:00 (identical to wetlab II)	€ 400.-	€ 500.-
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<b>MICS wetlab II (afternoon)</b> 14:00 – 18:00 (identical to wetlab I)	€ 400.-	€ 500.-
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<b>Beating heart wetlab</b> (price per session)	€ 250.-	€ 300.-
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<u>TAVI sessions</u>	8:30-10:00	10:30-12:00	13:00-14:30	15:00-16:30
<u>Mitral sessions</u>	8:30-10:00	10:30-12:00	13:00-14:30	15:00-16:30

*Physicians in training are entitled to a 50% discount, medical students can register free of charge.*

<b>Combo Beating heart wetlab</b>	€ 400.-	€ 500.-
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**MEET AND GREET, Monday, Sept. 17, 2018** € 45.- (per pers.)  
Hotel Restaurant Grünwalderhof, Römerstraße 1, 6082 Patsch

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Prices in EURO including 20% VAT

Registration fees include admittance to scientific sessions (incl. coffee and lunch breaks) charge, residents: 50% discount)  
Cancellation must be done in writing to the congress secretariat before September 2, 2018. The registration fee will be refunded less € 50.- service fee. You will receive your registration confirmation after receipt of payment.

**TEAM REGISTRATION:**  
Bring your Team colleagues to Focus valve and save up to 50% of the Registration and Workshop fees.  
Just use the team code in your registration confirmation to receive a group discount (up to 5 team members).

## GENERAL INFORMATION

### CONGRESS CONTACT

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### COURSE LOCATION

LKI/Universitätskliniken Innsbruck  
Chirurgie (Building no. 8)  
Grosser Hörsaal (main auditorium)  
Entrance Innerkoflerstrasse, 6020 Innsbruck, Austria

### CONGRESS ORGANIZER



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### ONLINE REGISTRATION

<https://registration.maw.co.at/valve18>

### HOTEL RESERVATION

<https://www.innsbruck.info/en/congress/valve>

A limited number of rooms are available for participants of Focus Valve in the following hotel:

#### Hotel "The PENZ" \*\*\*\*

Adolf-Pichler-Platz 3, 6020 Innsbruck, Austria  
Phone: +43 512 57 56 57 – 57  
Email: [oliver.singewald@thepenz.com](mailto:oliver.singewald@thepenz.com)  
Web: [www.the-penz.com](http://www.the-penz.com), Contact: Mr. Oliver Singewald  
Booking code: Focus Valve

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SEPTEMBER 16 - 19, 2018

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## FOCUS: Valve 2018

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