FOCUS: Valve 2019
3D live surgeries - workshops - wetlabs
SPECIAL FOCUS 2019: FMR

11th Training Course for Minimally Invasive Heart Valve Surgery
Medical University Innsbruck
INNSBRUCK | AUSTRIA | SEPT. 15 – 18, 2019

www.focusvalve.org
Dear colleagues and friends!

Treatment of heart valve disease is a rapidly developing area and therefore merits continuous attention. This is especially important for surgeons as interventional therapies are growing rapidly and in some areas have already surpassed surgical techniques by numbers. As only cardiac surgeons can have the full and comprehensive knowledge of all available options, it is of utmost importance to be familiar and experienced with all up to date techniques. Only then the most appropriate, i.e. curative, long-lasting and least traumatic treatment from a wide range of therapies can be offered to the individual patient.

This is why Focus Valve 2019 will comprise minimally invasive surgery of aortic, mitral and tricuspid valves as well as interventional treatment. Special attention will be given to minimally invasive mitral valve repair, aortic valve replacement and ablation of atrial fibrillation. For this reason live surgeries performed by internationally renowned surgeons will be transmitted from our OR, workshops on specific topics are planned and multiple wetlab training opportunities will be provided on arrested heart and beating heart porcine models. These will comprise MICS mitral valve repair by direct vision and total endoscopic technique, interventional techniques for the aortic and mitral valve and hands-on training with innovative devices designed for minimally invasive valve surgery.

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 (Module IV).

Looking forward to welcoming you in Innsbruck!

Ludwig Müller, Michael Grimm, Nikos Bonaros
Course directors

Daniel Höfer
Scientific secretary

Ottavio Alfieri, Italy, Jose-Luis Pomar, Spain

Öztekin Oto, Turkish Heart and Health Foundation
Scientific Partnership

Highlights 2019:

Interactive workshops:
  - Functional mitral regurgitation
  - Basic techniques for minimally invasive aortic, mitral, tricuspid and atrial fibrillation surgery
  - Minimally invasive redo procedures

Live surgeries:
  - OR live transmissions with up-to-date 3-D technology

Wetlabs:
  - MIMVS hands-on training with 3-D imaging technology
  - Aortic and mitral valve interventions in a porcine beating heart model

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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 surgeons
• 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
Nikos Bonaros

SCIENTIFIC SECRETARY:
Daniel Höfer

CO-DIRECTORS:
Ottavio Alfieri, Italy
Jose-Luis Pomar, Spain

FACULTY
Agne Adukauskaite, Austria
Ottavio Alfieri, Italy
Martin Andreas, Austria
Krzysztof Bartus, Poland
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ORGANIZING FACULTY
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Preview to FOCUS Valve 2019

• Day 1 of FOCUS Valve will comprise theoretical workshops on functional mitral regurgitation and video sessions on basic techniques in minimally invasive valve surgery and reoperations.

• Days 2 and 3 will mainly be devoted to 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. Live surgeries will be commented and discussed by international expert panels who will share their personal experiences on specific topics. Frontal presentations are kept to a minimum. Lectures on techniques and strategies will be included between surgeries. Individualized wetlab sessions on artificial chordae implantation, valve sizing and automated suturing devices will be offered in parallel to live surgeries. Lunch symposia will deal with newest technological developments.

• Day 4 will be devoted to hands-on training: A porcine beating heart model is used for training of transcatheter aortic and mitral valve techniques. Participants 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

#### DAY 1, Sunday, September 15, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Workshop 1: Live-Voting</th>
<th>Workshop 2: Live-Voting</th>
<th>Workshop 3: Live-Voting</th>
</tr>
</thead>
</table>
| 13:00 - 14:30 | Workshop 1: A practical guide to functional mitral regurgitation  
*Chair: Bonaros N, Bauer A* | Workshop 2: Basics in minimally invasive valve surgery  
*Chair: Dumfarth J, Wisser W* | Workshop 3: Live-in-a-box: Complex situations in minimally invasive surgery  
*Chair: Girdauskas E, Holfeld J* |
|               | Live-Voting              | Live-Voting              | Live-Voting              |
| 14:30 - 15:00 | Coffee break             |                          |                          |
| 15:00 - 16:30 | Workshop 2:              | Workshop 3:              |                          |
|               | Live-Voting              | Live-Voting              |                          |
|               |                          |                          |                          |

#### Workshop 1: A practical guide to functional mitral regurgitation
- Chair: Bonaros N, Bauer A
- Pathophysiology of different FMR types: Wunderlich N
- Surgical options: Reichenspurner H
- Interventional options: Bauer A
- Interventional options: Wunderlich N
- Interventional options: Mayr A

#### Workshop 2: Basics in minimally invasive valve surgery
- Chair: Dumfarth J, Wisser W
- Visualization technology: Müller L
- Visualization technology: Wisser W
- Visualization technology: Pacini D
- MICS-Instruments and retractors: Wisser W
- MICS-Instruments and retractors: Pacini D
- Remote access perfusion: Van Praet F
- Remote access perfusion: Seeburger J
- Transthoracic clamp and endoballoon occlusion: Van Praet F
- Transthoracic clamp and endoballoon occlusion: Seeburger J
- Myocardial protection: Höfer D
- Myocardial protection: Fischlein T
- Artificial chords and sutures: Höfer D
- Artificial chords and sutures: Fischlein T
- Rapid deployment valves for MICS: Fischlein T

#### Workshop 3: Live-in-a-box: Complex situations in minimally invasive surgery
- Chair: Girdauskas E, Holfeld J
- Aortic valve reoperation: Bonaros N
- Mitral valve after previous cardiac operation: Rinaldi M
- MV repair for Barlow’s Syndrome: Repossini A
- MV repair for Barlow’s Syndrome: Doll N
- Biatrial ablation lines for treatment of AF: Doll N
- Biatrial ablation lines for treatment of AF: Lorusso R
- Right ventricular failure in MICS: Holfeld J
- Right ventricular failure in MICS: Dumfart J
- Mitral valve endocarditis: Holfeld J
- Mitral valve endocarditis: Lorusso R
- Minimally invasive aortic arch surgery: Holfeld J
- Minimally invasive aortic arch surgery: Dumfart J
### SCIENTIFIC PROGRAM

**DAY 2, Monday, September 16, 2019**

#### 08:30 - 09:00
**Welcome address:**

**Wolner E**

#### 09:00 - 12:30
**LIVE SURGERIES:**

- **Moderation:** Reichenspurner H
- **Panel:** Fischlein T, Folliguet T, Hagl C, Kocher A, Oto Ö, Seitelberger R

**Live case 1**
Minithoracotomy aortic valve replacement  
Surgeons: Mahr S/Laufer G  
**Learning objectives:** Right anterior minithoracotomy access, exposure, cannulation, prosthesis selection (Rapid deployment vs. standard valve)

**Live case 2**
Partial sternotomy for AV replacement  
Surgeons: Gollmann C/Grimm M  
**Learning objectives:** J-hemisternotomy approach, cannulation, valve exposure, prosthesis selection

**Discussion of strategies:** Panel

#### 10:15 - 10:35
**Coffee break**

Presentations during live surgeries:  
**Live-Voting**

**Case-based patient selection for the aortic valve:**
- Full sternotomy  
- Partial sternotomy  
- Mini thoracotomy

#### 09:00 - 12:00
**Individual Workshop on mechanical valve replacement and implantation of artificial loops**

#### 12:30 - 13:15
**Lunch break**

#### 13:15 - 14:15
**Symposium: The future of aortic valve replacement**

**Chairs:** Laufer G, Grimm M, Doll N

**Live-Voting**

- A novel mechanical trileaflet heart valve prosthesis  
- Ozaki procedure  
- Innovative valve prosthesis materials  
- Treating aortic stenosis in low risk patients

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[www.focusvalve.org](http://www.focusvalve.org)
**SCIENTIFIC PROGRAM**

**DAY 2, Monday, September 16, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 14:15 - 14:45 | Honored Guest Lecture:  
                The burden of rheumatic valve disease – Implications for MICS  
                **Zilla P**                                                      |
| 14:45 - 17:30 | **LIVE SURGERIES: Moderation: Pomar J-L**  
                **Live case 3**  
                Endoscopic repair of complex MV disease  
                **Learning objectives:** Learning from a master: skin incision, port placement  
                valve exposure, repair strategy and technique  
                Surgeon: Perier P  
                **Live case 4**  
                Totally endoscopic repair of degenerative MR  
                **Learning objectives:** Team approach, cannulation, cardioplegia  
                port placement, valve exposure, chordae loops, annuloplasty  
                Surgeons: Höfer D/Müller L  
                Discussion of strategies: **Panel** |
| 16:00 - 16:30 | **Coffee break**                                                      |
|              | Presentations during live surgeries:  
                Minimally invasive valve surgery on the awake patient  
                Radiation-induced valvular fibrosis  
                Insights on aortic valve calcification  
                **Live-Voting**  
                Oto Ö  
                Hofeld J  
                Gollmann C |
## SCIENTIFIC PROGRAM

### DAY 3, Tuesday, September 17, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30 - 09:00</td>
<td><strong>Keynote address: Repair or replacement for FMR:</strong> De Bonis M</td>
<td>main auditorium</td>
</tr>
</tbody>
</table>
| 09:00 - 12:30 | **LIVE SURGERIES: Moderation: Alfieri O**  
Panel: De Bonis M, Lakew F, Sardari-Nia P, Walther T | main auditorium   |
|              | **Live case 5**  
Endoaortic occlusion for MIMVS  
Learning objectives: Cannulation for intraaortic balloon occlusion, monitoring patient selection  
Surgeon: Van Praet F | main auditorium   |
|              | **Live case 6**  
MV surgery through hemisternotomy  
Learning objectives: Hemisternotomy access to the mitral and tricuspid valves, MIMVS facilitators  
Surgeons: Holfeld J/Grimm M | main auditorium   |
|              | **Discussion of strategies:** Panel | main auditorium   |
| 10:15 - 10:35 | **Coffee break** | main auditorium   |
|              | Presentations during live surgeries:  
• Current role of interventional MV repair  
• Case-based patient selection for the mitral valve  
• Periareolar access  
• Partial sternotomy for MV  
• Pit and pitfalls in MIMVS | main auditorium   |
| 12:30 - 13:15 | **Lunch break** | main auditorium   |
| 13:15 - 14:00 | **Workshop: Imaging and simulation for MIVS:** Sardari-Nia P  
Chair: Pomar J-L, Treede H, Walther T | main auditorium   |
| 14:00 - 14:15 | **Coffee break** | main auditorium   |
SCIENTIFIC PROGRAM

DAY 3, Tuesday, September 17, 2019

14:15 - 17:30  LIVE SURGERIES: Moderation: Alfieri O  
Panel: Holubec T, Holzinger C, Liebold A, Treede H, Zierer A

**Live case 7**
MV repair and concomitant Afib surgery  
**Learning objectives:** Access, energy sources, ablation lines  
technique of LAA clip occlusion  
Surgeon: Doll N

**Live in a Box Case**
FMR repair beyond undersized annuloplasty  
**Learning objectives:**  
evaluation of leaflet tethering, papillary muscle relocation

**Discussion of strategies: Panel**  
Surgeon: Girdauskas E

**Live case 8**
Totally endoscopic MV repair with percutaneous cannulation  
**Learning objectives:**  
Access, percutaneous cannulation, distal limb perfusion, selection of repair strategy

Surgeons: Bonaros N/Müller L

15:30 - 16:00  Coffee break

Presentations during live surgeries:  
**Live-Voting**

**Controversies in degenerative mitral valve disease**
- Is MIMVS superior to full sternotomy? Treede H
- Is transcatheter MV replacement an option? Walther T
- Use of transapical artificial chords for failed mitral valve repair Yadav R

17:30  Wrap-up

Alfieri O, Pomar JL, Grimm M
## SCIENTIFIC PROGRAM

### DAY 4, Wednesday, September 18, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Track 1: TEE for surgeons</th>
<th>Conference room anaesthesiology</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00 - 12:00</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Track 2: Porcine beating heart wetlab</th>
<th>Seminar room I and experimental OR</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30 - 16:30</td>
<td>[8 groups of 4-5 participants, 90 min. group]</td>
<td></td>
</tr>
<tr>
<td>08:30-10:00</td>
<td>Mitraclip implantation under TEE and cardioscopy guidance</td>
<td></td>
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<tr>
<td>10:30-12:00</td>
<td>Transapical implantation of artificial cords under TEE and cardioscopy guidance</td>
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<tr>
<td>13:00-14:30</td>
<td>Implantation of a balloon expandable TAVI under fluoroscopy and cardioscopy</td>
<td></td>
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<tr>
<td>15:00-16:30</td>
<td>Implantation of a self-expandable TAVI under fluoroscopy and cardioscopy</td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Time</th>
<th>Track 3: MICS wetlab I</th>
<th>Seminar room II</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00 - 13:00</td>
<td>Practising MIMVS. Focus on shafted instruments, videoendoscopy, knot tying demonstration of MICS enablers</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>MICS wetlab II</th>
<th>Seminar room II</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00 - 18:00</td>
<td>Identical to Wetlab I</td>
<td></td>
</tr>
</tbody>
</table>

**Workshop Meeting Point:**
Registration desk - Foyer Main Auditorium
(Building No 8, Chirurgie)
### ONLINE REGISTRATION: [https://registration.maw.co.at/valve19](https://registration.maw.co.at/valve19)

#### REGISTRATION FEES

<table>
<thead>
<tr>
<th>Day and Session</th>
<th>Preregistration until SEPT. 2, 2019</th>
<th>On site registration after SEPT. 2, 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DAY 1 – 3, September 15 – 17, 2019</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Focus valve training course</td>
<td>€ 800.–</td>
<td>€ 950.–</td>
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<tr>
<td><strong>DAY 4, September 18, 2019</strong></td>
<td></td>
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</tr>
<tr>
<td>Intraoperative TEE</td>
<td>€ 400.–</td>
<td>€ 500.–</td>
</tr>
<tr>
<td>08:00 -12:00, Limited registration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MICS wetlab I (morning)</td>
<td>€ 400.–</td>
<td>€ 500.–</td>
</tr>
<tr>
<td>09:00 – 13:00 (identical to wetlab II)</td>
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<tr>
<td>MICS wetlab II (afternoon)</td>
<td>€ 400.–</td>
<td>€ 500.–</td>
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<tr>
<td>14:00 – 18:00 (identical to wetlab I)</td>
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<tr>
<td>Beating heart wetlab</td>
<td>€ 250.–</td>
<td>€ 300.–</td>
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<tr>
<td>(price per session)</td>
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<td></td>
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<tr>
<td>TAVI sessions</td>
<td>8:30-10:00</td>
<td>10:30-12:00</td>
</tr>
<tr>
<td>Mitral sessions</td>
<td>8:30-10:00</td>
<td>10:30-12:00</td>
</tr>
</tbody>
</table>

Residents and nurses are entitled to a 50% discount. Medical students can register free of charge.

**MEET AND GREET**

Monday, September 16, 2019, Time: 19.00 PM  
Costs per person: EUR 45.– (incl. 20% VAT)  
Restaurant "Stiftskeller", Stiftgasse 1, 6020 Innsbruck  
ACCESS CONTROL: Please do not forget your voucher!

**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 of your registration confirmation mail to receive a group discount for further registrations (up to 5 team members).  
Registration fees include admittance to scientific sessions (incl. coffee and lunch breaks).  
Cancellation must be done in writing to the congress secretariat before September 2, 2019. The registration fee will be refunded less € 50.– service fee.
GENERAL INFORMATION

COURSE DIRECTORS
Ludwig MÜLLER
Michael GRIMM
Nikolaos BONAROS

SCIENTIFIC SECRETARY
Daniel HÖFER
Department of cardiac surgery
Medical University, Innsbruck

CONGRESS CONTACT
Medical University Innsbruck
Department of cardiac surgery
Anichstrasse 35
6020 Innsbruck, Austria
Contact Gabriele Wagner
Phone: +43 512 504-22349
Email: gabriele.wagner@tirol-kliniken.at

CONGRESS ORGANIZER
MAW – International Exhibitions and Advertising
Medizinische Ausstellungs- und Werbegesellschaft
Freyung 6/3, 1010 Vienna, Austria
Contact: Barbara Horak, David Grünseis
Phone: +43 1 536 63-34 or -62
Email: maw@media.co.at
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