FOCUS: Valve 2020
3D live surgeries - workshops - wetlabs
Training minimally invasive valve surgery in the era of interventional valve therapies

12th Training Course for
Minimally Invasive Heart Valve Surgery
Medical University Innsbruck
INNSBRUCK | AUSTRIA | SEPT. 13 – 16, 2020

www.focusvalve.org
Dear colleagues and friends!

Continuous proof of the outstanding results of surgical valve repair and replacement has never been more important than in our era of rapidly increasing numbers of valve interventions. This is why minimally invasive valve surgery has to become the standard of care for the majority of our patients and surgeons must be ready to perform perfect less traumatic procedures in any heart valve center. Proof of excellence in valve surgery has to include the routine use of minimally invasive procedures. Only these procedures can be compared to interventional techniques. Therefore it is more important than ever to train surgeons in minimally invasive surgery as well as interventional techniques. FOCUS Valve 2020 will address these issues providing a proven 4 days training course including live surgeries transmitted in 3D from our OR, lectures, how-to-do-it presentations, workshops, MICS wetlabs and valve interventions in a beating heart model from September 13-16, 2020. This makes the course the Ideal teaching activity for teams dedicated to minimally invasive valve surgery. Special attention will be given to minimally invasive mitral valve repair, aortic valve replacement and ablation of atrial fibrillation. Live surgeries performed by internationally renowned surgeons as well as surgeons in training will give testimony for the appropriability of including MICS into cardiac surgical training. As a complementary educational activity FOCUS Valve MICS Training Days have been implemented and will take place first time from February 12-14, 2020.

FOCUS Valve is an educational program in minimally invasive valve surgery offered by the Department of Cardiac Surgery of Medical University Innsbruck including presentations and live surgeries (Module I), wetlab training (Module II), observership in our OR (Module III) and local proctoring on request (Modul IV). Modules II and III are comprised also in the MICS Training Days.

We look forward to welcoming you in Innsbruck!

Ludwig Müller, Michael Grimm
Nikos Bonaros
Course Directors

Daniel Höfer
Scientific Secretary

Ottavio Alfieri, Öztekin Oto
Patrick Perier, Jose Luis Pomar
Co - Directors

HIGHLIGHTS 2020: Mitral valve prolapse and rheumatic diseases
Live surgeries:
• OR live transmissions with the most advanced 3D technology
Interactive workshops:
• Echocardiography
• MICS techniques for aortic, mitral, tricuspid and atrial fibrillation
Wetlabs:
• Aortic and mitral valve interventions in a porcine beating heart model

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COURSE DIRECTORS:

Ludwig Müller
Michael Grimm
Nikolaos Bonaros

CO DIRECTORS:

Ottavio Alfieri
Öztek Oto
Patrick Perier
Jose Luis Pomar

SCIENTIFIC SECRETARY:

Daniel Höfer

FACULTY (to be completed)

Alfieri Ottavio, IT
Andreas Martin, AT
Bauer Axel, AT
Bonaros Nikolaos, AT
De Bonis Michele, IT
Doll Kai Nicolas, DE
Dumfarth Julia, AT
Ernst Sabine, UK
Fischlein Theodor, DE
Folliguet Thierry A., FR
Freemantle Nicholas, UK
Gasser Simone, AT
Girdauskas Evaldas, DE
Gollmann-Tepeköyli Can, AT
Grimm Michael, AT
Gunn Jarmo, FI
Gutierrez Roman Laura, AT
Hausleiter Jörg, DE
Höfer Daniel, AT
Holfeld Johannes, AT
Holubec Tomas, DE
Jacobs Stephan, DE
Klautz Robert J.M., NL
Kreidel Felix, DE
Lakew Fitsum, DE
Lauffer Günther, AT
Liebold Andreas, DE
Nägele Felix, AT
Obadia Jean-Francois, FR
Oto Öztekin, TR
Özpeker Cenk, AT
Perier Patrick, DE
Pfannmüller Bettina, DE
Pomar Jose-Luis, ES
Sakic Adel, AT
Solinas Marco, IT
Stasny Lukas, AT
Suwalski Piotr, PL
Theurl Markus, AT
Treede Hendrik, DE
Van Praet Frank, BE
Velik-Salchner Corinna, AT
Vohra Hunaid, UK
Walther Thomas, DE
Wiedemann Dominik, AT
Wunderlich Nina, DE
Yadav Rashmi, UK
Zirlik Andreas, AT
Zujs Vitalijs, DE
### SCIENTIFIC PROGRAM

#### DAY 1, Sunday, September 13, 2020

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00 - 14:30</td>
<td>Workshop 1: Prolapse: Imaging and basic science</td>
<td>Bauer A, Folliguet T, Bonaros N</td>
</tr>
<tr>
<td></td>
<td>Quantification of mitral regurgitation</td>
<td>Wunderlich N</td>
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<tr>
<td></td>
<td>Basic science: Mitral valve prolapse</td>
<td>Holfeld J</td>
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<tr>
<td></td>
<td>The science behind repair:</td>
<td></td>
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<tr>
<td></td>
<td>- Annuloplasty / ring types</td>
<td>De Bonis M</td>
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<tr>
<td></td>
<td>- Pathophysiology of artificial chords and neochords</td>
<td>Yadav R</td>
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<tr>
<td>14:30 - 15:00</td>
<td>Coffee break</td>
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<tr>
<td>15:00 - 16:00</td>
<td>Workshop 2: Basics of MV repair for prolapse</td>
<td>De Bonis M, Alfieri O, Müller L</td>
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<tr>
<td></td>
<td>The evolution of my approach to leaflet prolapse</td>
<td>Perier P</td>
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<tr>
<td></td>
<td>Evidence for leaflet resection</td>
<td>Van Praet F</td>
</tr>
<tr>
<td></td>
<td>Evidence for artificial chords</td>
<td>Walther T</td>
</tr>
<tr>
<td>16:00 - 16:30</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>16:30 - 18:00</td>
<td>Workshop 3: Video session on repair techniques</td>
<td>Vohra H, Treede H, Grimm M</td>
</tr>
<tr>
<td></td>
<td>PML resection</td>
<td>Liebold A</td>
</tr>
<tr>
<td></td>
<td>Measuring for appropriate length of artificial chords</td>
<td>Folliguet T</td>
</tr>
<tr>
<td></td>
<td>Chordae loops</td>
<td>Holubec T</td>
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<tr>
<td></td>
<td>New echocardiographic findings in Barlow's syndrome</td>
<td>Kreidel F</td>
</tr>
<tr>
<td></td>
<td>Functional prolapse</td>
<td>Klautz R</td>
</tr>
<tr>
<td></td>
<td>Avoid SAM - treat SAM</td>
<td>Girdauskas E</td>
</tr>
</tbody>
</table>
SCIENTIFIC PROGRAM

DAY 2, Monday, September 14, 2020  main auditorium

08:30 - 09:00 Welcome  Grimm M, Bonaros N
Introductory lecture: Biases in randomized trials  Müller L

09:00 - 12:30 Live surgeries transmitted from OR
Moderation: Pomar J-L
Panel: Girdauskas E, Fischlein T, Holubec T, Oto Ö

Case presentation  Stastny L

**Live case 1**
Mini-thoracotomy (ART) aortic valve replacement
Surgeons: Mahr S/Laufer G
Learning objectives: Right anterior minithoracotomy access, exposure, cannulation, prosthesis selection (rapid deployment valves vs. standard)

**Live case 2**
Partial sternotomy for aortic valve replacement
Surgeons: Zujs V/ Grimm M
Learning objectives: Learning objectives: Minimally invasive AVR in surgical training, hemisternotomy, cannulation, exposure
Discussion of strategies: Panel

Coffee break

Presentations during live surgeries:

**Valve selection between 50 and 70 years:**
pro: Biological  Wiedermann D
pro: Mechanical  Gunn J
Update on sutureless / rapid deployment valves  Andreas M
Summary  Aortic valve prosthesis selection  Fischlein T

09:00 - 12:00 Wetlab: Artificial chordae implantation and valve sizing  seminar room
Tutor: Sakic A (parallel during live surgeries – 2 working stations, 60 min training)

12:30 - 13:00 Lunch break
## SCIENTIFIC PROGRAM

**DAY 2, Monday, September 14, 2020**

**13:00 - 13:45** Workshop 4: Transcatheter mitral valve therapies  
*Chair: Grimm M, Laufer G, Bauer A, Zirlik A*

- Transapical neochordae  
  - Walther T
- Interventional edge-to-edge repair for leaflet prolapse  
  - Hausleiter J
- TMVI  
  - Treede H
- Honored guest lecture: Ebstein's anomaly  
  - Perier P

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

**14:30 - 18:00** Live surgeries transmitted from OR  
*Moderation: Pomar J-L*

- **Panel**: Walther T, Obadia J-F, Doll K.-N., Özpeker C

  - Case presentation  
    - Gasser S
  - **Live case 3**  
    - Totally endoscopic MV repair  
    - Surgeons: Bonaros N/ Müller L/ Stastny L  
    - **Learning objectives**: Team approach, cannulation, cardioplegia, port placement, valve exposure, chordae loops, annuloplasty
  - **Live case 4**  
    - The pragmatic approach: Direct vision MV repair  
    - Surgeon: Jacobs S  
    - **Learning objectives**: Essentials of mini-thoracotomy MV repair
  - **Discussion of strategies**: Panel

**Coffee break**

- Presentations during live surgeries:  
  - Typical failures in MIC mitral valve surgery  
    - Obadia J-F
  - Cannulation, myocardial protection and deairing  
    - Vahra H
  - Access, port placement, mitral/tricuspid valve exposure  
    - Solinas M
  - Sizing and fixation of artificial chordae, ring selection and implantation  
    - Treede H
  - **Live-in-a-box**: Beating heart tricuspid annuloplasty

**14:30 - 17:30** Wetlab: Artificial chordae implantation and valve sizing  
*Tutor: Sakic A* (parallel during live surgeries – 2 working stations, 60 min training)

*End of Day 2*
### SCIENTIFIC PROGRAM

**DAY 3, Tuesday, September 15, 2020**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>ICU report</td>
<td>main auditorium</td>
<td>Surgeon on duty</td>
</tr>
<tr>
<td></td>
<td><strong>Key note address:</strong> Industry sponsored vs. academic studies in cardiac surgery**</td>
<td></td>
<td>Freemantle N</td>
</tr>
<tr>
<td></td>
<td>Program development and results after 20 years of MIC mitral valve surgery</td>
<td></td>
<td>Bonaros N</td>
</tr>
</tbody>
</table>
| 09:00 - 12:30 | **Live surgeries transmitted from OR**  
**Moderation:** Perier P  
**Panel:** Solinas M, Pfannmüller B, Holfed J, Suwalski P |                                       |                                |
|        | Case presentation                                                       |                                       | Gutierrez Roman L               |
|        | **Live case 5**                                                        |                                       |                                 |
|        | Cryoablation and left appendage occlusion concomittant with MV repair   |                                       |                                 |
|        | Surgeon: Doll K-N                                                      |                                       |                                 |
|        | **Learning objectives:** Energy sources, ablation lines, LAA occlusion  |                                       |                                 |
|        | **Live case 6**                                                        |                                       |                                 |
|        | Hemisternotomy MV+TV repair                                             |                                       |                                 |
|        | Surgeons: Dumfarth J, Grimm M                                          |                                       |                                 |
|        | **Learning objectives:** Hemisternotomy access to the mitral and tricuspid valves, MV and TV repair strategy and technique |           |                                 |
|        | **Discussion of strategies:** Panel                                    |                                       |                                 |
| 12:30 - 13:30 | **Lunch break**                                                       |                                       |                                 |
## SCIENTIFIC PROGRAM

### DAY 3, Tuesday, September 15, 2020

#### 13:00 - 13:45

**Workshop 5:**
**Underappreciated: Rheumatic mitral valve disease**
*Chair: TBA*

<table>
<thead>
<tr>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epidemiology</td>
<td>TBA</td>
</tr>
<tr>
<td>The different faces of rheumatic valve disease</td>
<td>TBA</td>
</tr>
<tr>
<td>Repair techniques</td>
<td>Oto Ö</td>
</tr>
</tbody>
</table>

#### 14:00 - 18:00

**Transcatheter tricuspid annuloplasty workshop**
*seminar room*

- Introduction to the device and technology (30 min)
- Patient screening, best patient, lessons learned (30 min)
- Guided implantation - Mentice Simulator/ Screen (45 min)
- Hands-on with camera simulator (1 or 2 Groups, 60 min)
- Closing (15 min)

#### 14:15 - 18:00

**Live surgeries transmitted from OR**
*Moderation: Perier P*
*Panel: Grimm M, Dumfarth J, Liebold A, Oto Ö*

- **Case presentation**
  - **Live case 7**
    - Endoscopic prosthetic mitral valve replacement
    - Surgeons: Höfer D, Müller L, Gasser S
    - **Learning objectives:** Valve selection, orientation, fixation
  - **Live case 8**
    - Advanced endoscopic mitral valve repair
    - Surgeons: Girdauskas E
    - **Learning objectives:** Advances repair strategies

- **Discussion of strategies: Panel**
  - Presentations during live surgeries:
  - **Live-in-a box presentations**
    - MV repair for functional regurgitation
    - Endoscopic ablation and LAAO for stand alone AF
    - Ozaki aortic valve procedure
    - Hemisternotomy MV surgery

- **Summary**
- **Adjourn – End of Day 3**

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## SCIENTIFIC PROGRAM

**DAY 4, Wednesday, September 16, 2020**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00 - 12:00</td>
<td>TEE for surgeons</td>
<td>conference room anaesthesiology</td>
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<tr>
<td></td>
<td>Velik-Salchner C, Mair P</td>
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<tr>
<td>08:30 - 16:30</td>
<td>Beating heart wetlab (8 groups of 5 participants)</td>
<td>seminar room I</td>
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<tr>
<td></td>
<td>Training of Mitraclip implantation under TEE and cardioscopy guidance, 90 min. group</td>
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<tr>
<td></td>
<td>Training of balloon expandable TAVI under fluoroscopy and cardioscopy, 90 min. group</td>
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<tr>
<td>09:00 - 13:00</td>
<td>MIMVS Wetlab I (morning)</td>
<td>seminar room II</td>
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<tr>
<td></td>
<td>Tutors: Hangler H, Höfer D</td>
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<tr>
<td></td>
<td>Practising MIMVS. Focus on shafted instruments, videoendoscopy, knot tying</td>
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<tr>
<td>14:00 - 18:00</td>
<td>MIMVS Wetlab II (afternoon)</td>
<td>seminar room II</td>
</tr>
<tr>
<td></td>
<td>Tutors: Hangler H, Höfer D</td>
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</tr>
<tr>
<td></td>
<td>identical to wetlab I</td>
<td></td>
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</tbody>
</table>
**ONLINE REGISTRATION:** https://registration.maw.co.at/valve20

<table>
<thead>
<tr>
<th>DAY 1 – 3, September 13 – 15, 2020</th>
<th>until SEPT. 1</th>
<th>after SEPT. 1</th>
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</thead>
<tbody>
<tr>
<td>Focus valve training course</td>
<td>€ 800.–</td>
<td>€ 950.–</td>
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</table>

<table>
<thead>
<tr>
<th>DAY 4, September 16, 2020</th>
<th>until SEPT. 1</th>
<th>after SEPT. 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intraoperative TEE</td>
<td>€ 400.–</td>
<td>€ 500.–</td>
</tr>
<tr>
<td>MIMVS wetlab I (morning)</td>
<td>€ 400.–</td>
<td>€ 500.–</td>
</tr>
<tr>
<td>MIMVS wetlab II (afternoon)</td>
<td>€ 400.–</td>
<td>€ 500.–</td>
</tr>
<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>
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<tr>
<td>Mitral sessions</td>
<td>8:30-10:00</td>
<td>10:30-12:00</td>
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<tr>
<td></td>
<td>13:00-14:30</td>
<td>15:00-16:30</td>
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**Registration fees include admittance to scientific sessions (incl. coffee and lunch breaks). Residents and nurses are entitled to a 50% discount. Medical students can register free of charge.**

<table>
<thead>
<tr>
<th>REGISTRATION FEES (ONLINE PARTICIPATION)</th>
<th>until SEPT. 1</th>
<th>after SEPT. 1</th>
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</thead>
<tbody>
<tr>
<td>Single user license</td>
<td>€ 400.–</td>
<td>€ 475.–</td>
</tr>
<tr>
<td>Institutional license</td>
<td>€ 800.–</td>
<td>€ 950.–</td>
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</tbody>
</table>

| 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). |

| CANCELLATION:                          |              |              |
| Cancellation must be done in writing to valve@maw.co.at before September 1, 2020. The registration fee will be refunded less € 50.– service fee. |
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GENERAL INFORMATION

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

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LKI/Universitätskliniken Innsbruck
Chirurgie (Building no. 8)
Main Auditorium (Großer Hörsaal)
Enterance Innerkoflerstrasse
6020 Innsbruck, Austria

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Web: www.maw.co.at

Information about
ONLINE REGISTRATION
HOTEL RESERVATION
INVITATION LETTER FOR VISA APPLICATION
please visit: www.focusvalve.org