



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 (Modul 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

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 (to be completed!)

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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 **main auditorium**

13:00 - 14:30 **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
Echo guidance for treatment	Wunderlich N
The role of MRI	Mayr A

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

15:00 - 16:30 **Workshop 2:**
Basics in minimally invasive valve surgery
Chair: Dumfarth J, Wisser W

Visualization technology	Müller L
MICS-Instruments and -retractors	Wisser W
Remote access perfusion	Pacini D
Live-in-a-box Transthoracic clamp and endoballoon occlusion	Van Praet F
Live-in-a-box Myocardial protection	Seeburger J
Live-in-a-box Artificial chords and sutures	Höfer D
Live-in-a-box Rapid deployment valves for MICS	Fischlein T

16:30 - 16:30 **Coffee break**

16:30 - 18:00 **Workshop 3:**
Live-in-a-box: Complex situations in minimally invasive surgery
Chair: Glauber M, Holfeld J

Aortic valve reoperation	Bonaros N
Mitral valve after previous cardiac operation	Rinaldi M
Mitral valve procedures after previous MIMVS	Glauber M
Biatial ablation lines for treatment of AF	Doll N
Right ventricular failure in MICS	Lorusso R
Mitral valve endocarditis	Holfeld J
Minimally invasive aortic arch surgery	Dumfarth J

SCIENTIFIC PROGRAM

DAY 2, Monday, September 16, 2019

main auditorium

08:30 - 09:00 **Welcome address:** **Wolner E**

09:00 - 12:30 **LIVE SURGERIES: Moderation: J-L Pomar**
Panel: Fischlein 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:

Case-based patient selection for the aortic valve:

- Full sternotomy
- Partial sternotomy
- Mini thoracotomy

Mestres C
Hagl C
Doenst T

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

13:15 - 14:15 **Symposium: The future of aortic valve replacement**
Chairs: Laufer G, Grimm M, Doll N

A novel mechanical trileaflet heart valve prosthesis

Ozaki procedure

Innovative valve prosthesis materials

Treating aortic stenosis in low risk patients

Sievers H
Krane M
NN
Walther T

Coffee break

SCIENTIFIC PROGRAM

DAY 2, Monday, September 16, 2019

main auditorium

14:15 - 14:45 **Keynote address: Repair or replacement for FMR:** *De Bonis M*

14:45 - 17:30 **LIVE SURGERIES: Moderation: Alfieri O**
Panel: Eichinger W, Folliguet T, Grabenwöger M, Reichenspurner H, Seeburger J

Live case 3

MV surgery through hemisternotomy

Learning objectives: Hemisternotomy access to the mitral and tricuspid valves, MIMVS facilitators

Surgeons: Holfeld J/Grimm M

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

Oto Ö
Holfeld J
Gollmann C

SCIENTIFIC PROGRAM

DAY 3, Tuesday, September 17, 2019		main auditorium
08:30 - 09:00	Honored Guest Lecture: The burden of rheumatic valve disease – Implications for MICS	Zilla P
09:00 - 12:30	LIVE SURGERIES: Moderation: Pomar J-L Panel: De Bonis M, Lakew F, Lorusso R, Sardari-Nia P, Walther T	
	Live case 5 Endoaortic occlusion for MIMVS Learning objectives: Cannulation for intraaortic balloon occlusion, monitoring patient selection Surgeon: Van Praet F	
	Live case 6 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	
	Discussion of strategies: Panel	
10:15 - 10:35	Coffee break	
	Presentations during live surgeries: Case-based patient selection for the mitral valve <ul style="list-style-type: none">• Periareolar access• Partial sternotomy for MV• Mini-Thoracotomy multiple valve surgery	Liebold A Bonaros N Glauber M
12:30 - 13:15	Lunch break	
13:15 - 14:00	Workshop: Imaging and simulation for MIVS: Chair: Treede H, Doenst T, Walther T	Sardari-Nia P
14:00 - 14:15	Coffee break	

SCIENTIFIC PROGRAM

DAY 3, Tuesday, September 17, 2019

main auditorium

14:15 - 17:30

LIVE SURGERIES: Moderation: Pomar J-L

Panel: Holzinger C, Liebold A, Reichenspurner H, 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:

Controversies in degenerative mitral valve disease

- Is MIMVS superior to full sternotomy?
- Current role of interventional MV repair
- Is transcatheter MV replacement an option?

Treede H

Andreas M

Lutter G

17:30

Wrap-up

Alfieri O, Pomar JL, Grimm M

SCIENTIFIC PROGRAM

DAY 4, Wednesday, September 18, 2019

08:00 - 12:00 **Track 1: TEE for surgeons** **conference room anaesthesiology**

08:30 - 16:30 **Track 2: Porcine beating heart wetlab** **seminar room I**
(8 groups of 4-5 participants, 90 min. group)

- Mitraclip implantation under TEE and cardioscopy guidance
- Neochord implantation under TEE and cardioscopy guidance
- Implantation of a balloon expandable TAVI under fluoroscopy and cardioscopy

09:00 - 13:00 **Track 3: MICS wetlab I** **seminar room II**

- Practising MIMVS. Focus on shafted instruments, videoendoscopy, knot tying demonstration of MICS enablers

14:00 - 18:00 **MICS wetlab II** **seminar room II**

- Identical to Wetlab I

ONLINE REGISTRATION: <https://registration.maw.co.at/valve19>

REGISTRATION FEES

Preregistration
until SEPT. 2, 2019

On site registration
after SEPT. 2, 2019

DAY 1 – 3, September 15 – 17, 2019				
Focus valve training course		€ 800.-		€ 950.-
DAY 4, September 18, 2019				
Intraoperative TEE 08:00 -12:00, Limited registration		€ 400.-		€ 500.-
MICS wetlab I (morning) 09:00 – 13:00 (identical to wetlab II)		€ 400.-		€ 500.-
MICS wetlab II (afternoon) 14:00 – 18:00 (identical to wetlab I)		€ 400.-		€ 500.-
Beating heart wetlab (price per session)		€ 250.-		€ 300.-
<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
<i>Residents and nurses are entitled to a 50% discount. Medical students can register free of charge.</i>				
Combo Beating heart wetlab		€ 400.-		€ 500.-

MEET AND GREET

Monday, September 16, 2019, Time: 19.00 PM

Costs per person: EUR 45.- (incl. 20% VAT)

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.

TRAVEL GRANTS FOCUS VALVE 2019

Participants are welcome to apply for a

- **Congress travel grant or an**
- **Additional travel grant**

Deadline to apply: July 31, 2019

The application procedure will be handled by Austropro Interconvention.

For further details please go to: www.focusvalve.org

Note: there is no guarantee of receiving a grant. Notice of acceptance will be August 14, 2019

RECOMMENDED HOTELS

Focus Valve has prereserved a contingent of hotel rooms:

HOTEL

BASIC HOTEL INNSBRUCK

Innrain 16
A-6021 Innsbruck

HOTEL LEIPZIGER HOF

Defreggerstraße 13
A-6021 Innsbruck

STAGE12

Maria-Theresien-Straße 12
A-6021 Innsbruck

Price per night:

€ 85 (single room)
€ 120 (double room)

€ 100 (single room)
€ 130 (double room)

€ 225 (double room
for single use)

How to book:

andreas.perger@ibkhotels.at
Keyword: **FOCUS**

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Keyword: **FOCUS**

office@stage12.at
Keyword: **FOCUS VALVE**

GENERAL INFORMATION

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COURSE LOCATION

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

ONLINE REGISTRATION: <https://registration.maw.co.at/valve19>

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