

# Meet the experts

## Program Directors

**Antonio Colombo, MD** Columbus Hospital/  
San Raffaele Hospital Milan, Italy

**Markus Kasel, MD** German Heart Center  
Klinikum Augsburg Munich, Germany  
Augsburg, Germany

**Susheel K. Kodali, MD** Columbia University  
Medical Center New York, NY

**Martin B. Leon, MD** Columbia University  
Medical Center New York, NY

## Faculty

**Stephan Achenbach, MD** University of Erlangen  
Erlangen, Germany

**Eberhard Grube, MD** University Hospital Bonn  
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Health Centre Montreal, Canada

**Carolin Sonne, MD** German Heart Center  
Munich, Germany

**Christian Thilo, MD** Klinikum Augsburg  
Augsburg, Germany

**Ralph Stephan  
von Bardeleben, MD** University Medical Center  
Mainz, Germany

# Information

## Venue

**BMW Welt München  
BUSINESS CENTER**  
Am Olympiapark 1  
80809 Munich, Germany  
Web [www.bmw-welt.com](http://www.bmw-welt.com)

## Coordination Office

**Doctrina Med**  
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## How to get there

If you arrive in Munich by plane,  
from the airport, take the S-Bahn  
(urban train). At Marienplatz  
take the U3 (underground) to  
Olympiazentrum.

Please find all information on  
[www.bmw-welt.com](http://www.bmw-welt.com)

## Hotel information

Please contact the coordination  
office for hotel requests.

# Register now How to attend

## Direct link

[www.heart-live.com/tavi](http://www.heart-live.com/tavi)

## Booking options

**Full Registration TAVI 249,- EUR**  
Dec. 3, 2014

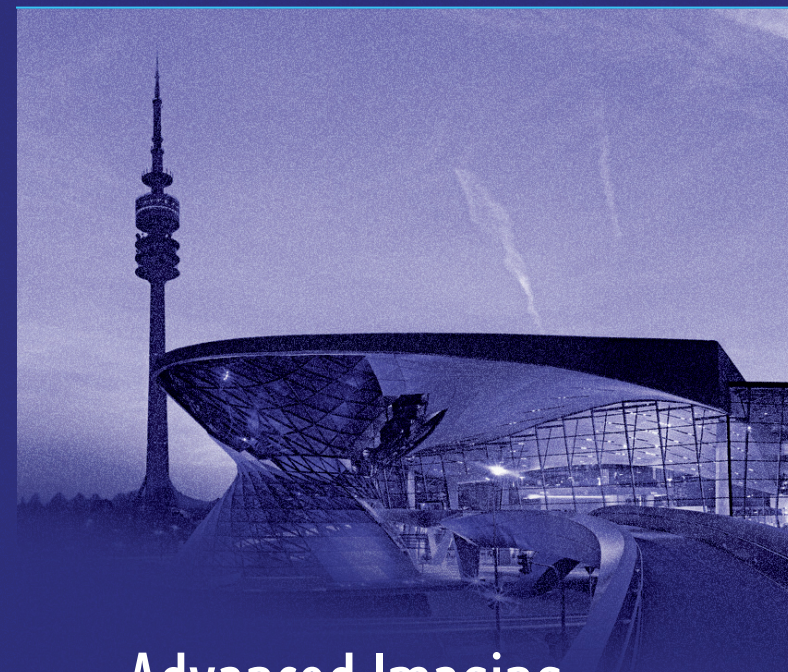
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ADVANCED TAVI IMAGING



# Advanced Imaging for TAVI December 3, 2014 BMW-Welt Munich · Germany

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**Antonio Colombo, MD**  
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Milan, Italy

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New York, NY

**Markus Kasel, MD**  
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Klinikum Augsburg  
Augsburg, Germany

**Martin B. Leon, MD**  
Columbia University  
Medical Center  
New York, NY

# Prolog A cordial invitation

Dear Colleagues,

It is our sincere pleasure to welcome you to Munich, Germany for the first ever **Advanced Imaging for Transcatheter Aortic Valve Implantation (TAVI) Course**. As TAVI becomes the standard of care for aortic stenosis in a subset of patients, imaging has become an integral component of the pre, intra and post procedural care. Advancements in imaging have evolved at the same rapid pace as the TAVI procedure itself; therefore, training and education in these advanced imaging techniques has become a necessity; we are so pleased that you have chosen to join us for this inaugural program.



Susheel Kodali, MD



Markus Kasel, MD

In addition to the didactic lectures, there will be hands-on sessions where attendees will have the opportunity to analyze both CT and echo studies with the support of faculty. This course will enhance the attendees knowledge in the following areas:

- Basic principles and protocols for acquisition and analysis of CT scans prior to TAVI
- Role of echo in pre-procedural screening as well as intraprocedural guidance for TAVI
- Understanding of the challenges as well as tools available for valve sizing
- Ability to manage complex scenarios with the aid of imaging

In addition we are pleased to offer an update on the new frontier of left atrial appendage from our colleagues **Antonio Colombo, MD, Eberhard Grube, MD, and Martin B. Leon, MD**.

Thank you for joining us for what we hope will become an annual meeting and we hope you gain value from your participation in this program.

Sincerely,

Markus Kasel, MD

Susheel Kodali, MD

# Agenda

Part One

## Pre-Procedural Screening and Vascular Access

8:00 AM	<b>Basics of Multi-detector CT</b> Basic principles, imaging protocols, analysis tools and beyond	Achenbach
8:20 AM	<b>Basics of Echo and CT Assessment for AS Including Borderline and Low Flow, Low Gradient Cases</b> Understanding strengths and limitations	Sonne
8:40 AM	<b>Assessing Vascular Access with CT scan, Angiography, IVUS and MRI</b> When and how to use	Hengstenberg

## Aortic Valvular Complex

9:00 AM	<b>Anatomy of the Aortic Valve Complex</b>	Piazza
9:15 AM	<b>CT Assessment of the Aortic Annulus</b> What measurements are important and how to obtain	Hahn
9:30 AM	<b>Echo Assessment of Aortic Annulus with a Focus on 3D Assessment</b>	Bardeleben
9:45 AM	<b>Sizing Algorithms for Current Technologies, Next Generation Devices and Intraprocedural Balloons</b> Is there a role for customization?	Kasel
10:10 AM	<b>Challenges in Sizing with Challenging Case Scenarios</b> ◦ Coronary occlusion ◦ Effaced sinuses ◦ Small STJ and porcelain aorta ◦ Severe LVOT calcification ◦ Severe eccentricity	Kodali
10:30 AM	<b>Discussion</b>	
10:45 AM	<b>Break</b>	
11:00 AM	<b>Complex Clinical Scenarios PART ONE with Discussion</b> ◦ Assessment ◦ Management ◦ Prevention (Valve in valve, Bicuspid AS, Small annulus)	Grube Kodali

# Workshops

Attendees will attend 3 workshops  
12 people per session

11:30 AM	<b>SESSION I</b> (attendees choose one)		
	Workshop 1 <b>CT Workstations</b> Siemens, Philips, GE, 3 Mensio Workstations		
	Workshop 2 <b>Echo Sizing</b> Philips	Bardeleben Sonne	
	Workshop 3 <b>CT MPR Workstation Training</b> Osirix and Synedra	Kasel Kodali	
12:15 AM	<b>SESSION II</b> (attendees choose one)		
	Workshop 1 <b>CT Workstations</b> Siemens, Philips, GE, 3 Mensio Workstations		
	Workshop 2 <b>Echo Sizing</b> Philips	Bardeleben Sonne	
	Workshop 3 <b>CT MPR Workstation Training</b> Osirix and Synedra	Achenbach Thilo	
1:00 PM	<b>Break for Lunch</b>		
1:45 PM	<b>SESSION III</b> (attendees choose one)		
	Workshop 1 <b>CT Workstations</b> Siemens, Philips, GE, 3 Mensio Workstations		
	Workshop 2 <b>Echo Sizing</b> Philips	Bardeleben Sonne	
	Workshop 3 <b>CT MPR Workstation Training</b> Osirix and Synedra	Hahn Thilo	

# Agenda

Part Two

## Procedural Considerations

2:30 PM	<b>Vascular Access Management I</b> Techniques for obtaining optimal vascular access and percutaneous closure with available devices	Kodali	5:15 PM	<b>CT Assessment of Left Atrial Appendage (LAA) for Device Closure</b>	Colombo
2:50 PM	<b>Managing Vascular Access Complications</b> Tips and Tricks for managing potentially catastrophic vascular injury including severe tortuosity, calcification, aneurysms and dissections with case examples	Leon	5:30 PM	<b>Echocardiographic Assessment of Left Atrial Appendage (LAA)</b>	Sonne
3:10 PM	<b>Break</b>		5:45 PM	<b>Discussion and wrap up</b>	
			6:00 PM	<b>Program Concludes</b>	

## 3D visualization in a 2D world: Adjunctive fluoroscopic imaging tools

3:20 PM	<b>Using Fluoroscopic Landmarks For Identifying The Ideal View</b> Follow the right cusp rule	Kasel
3:35 PM	<b>Update on Imaging Systems with Discussion</b> ◦ Paeion angiographic system ◦ Siemens Dyna-CT ◦ Phillips Heart Navigator ◦ GE Innova system	Achenbach Hahn
3:50 PM	<b>Echo Guided Implantation, Assessment and Management of Paravalvular Aortic Regurgitation</b>	Bardeleben
4:10 PM	<b>Fluoroscopic Guided Implantation, Assessment and Management of Paravalvular Aortic Regurgitation</b>	Kasel
4:30 PM	<b>Discussion</b>	
4:45 PM	<b>Complex Clinical Scenarios PART TWO with Discussion</b> ◦ Coronary artery occlusion: Management and prevention ◦ Hypertrophic LV and prominent septal bulge ◦ Horizontal aorta ◦ Severely depressed LV function: Role of hemodynamic support	Colombo Leon