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Faculty Photo (L-R)
Udhay Krishnan, MD; Robert M. Minutello, MD; Paul Kligfield, MD, FACC, FAHA; Robert J. Kim, MD (Course Director) and Gerald Maurer, MD (Co-Course Director)
Not Pictured: Thomas Binder, MD and Irene Marthe Lang, MD
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<td>Introduction Pre-Seminar Test</td>
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<td>Gerald Maurer, MD</td>
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<td>Care</td>
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<td>Robert J. Kim, MD</td>
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<td>09:00</td>
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<td>Myocardial Viability in</td>
<td>Mitral Valve Disease in Heart</td>
<td>Acute Coronary Syndromes –</td>
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<td>Ischemic Disease</td>
<td>Failure</td>
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<td>to Left Heart Disease</td>
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<td>ECG of Critical Non-STEMI ACS</td>
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<td>Paul Kligfield, MD, FACC, FAHA</td>
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<td>11:30</td>
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<td>PCI in Cardiogenic Shock</td>
<td>STEMI, NSTEMI or Not a</td>
<td>Common Controverses in the</td>
<td>Current State of TAVR in the</td>
<td>A Difficult Case: What Would</td>
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<td>Robert Minutello, MD</td>
<td>STEMI?</td>
<td>Management of Ischemic</td>
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<td>FACULTY MEETING TO REVIEW</td>
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WEILL CORNELL SEMINAR
in
SALZBURG

"Cardiology"

May 26 – June 1, 2019

FACULTY
Wolfgang Aulitzky, MD is the Medical Director of the American Austrian Foundation. He is Associate Dean for International Medicine and Distance Learning, Adjunct Prof. of Clinical Urology and Adjunct Prof. of Clinical Reproductive Medicine at the Weill Medical College of Cornell University/New York Presbyterian Hospital. In 2016, he was appointed Adjunct Professor of Pediatrics in the Associated Faculty of the Perelman School of Medicine at the Children’s Hospital of Philadelphia. He is also Associate Prof. of Urology at the Medical University of Innsbruck and Visiting Professor at the Medical University of Vienna. Amongst others he is a member of the American, German and Austrian Societies of Urology and was awarded the Zuckerkandlpreis of the Austrian Society of Urology in 1989. In 1995 he received the Silver Medal, in 2007 the Golden Medal for Merits to the Republic of Austria and in 2014 the cross of honor of the Land Salzburg. As Director of the Medical Program of the American Austrian Foundation he has initiated the Open Medical Institute, a scientific and educational collaboration of Weill Cornell and the NewYork Presbyterian Hospital, the Children Hospital of Philadelphia, Duke University, Columbia University, the Cleveland Clinic and leading hospitals in Austria. Dr. Aulitzky earned his medical degree at the University of Innsbruck in 1977, was a research associate at the University of Uppsala, Sweden and the Rockefeller University, New York. He received his training as an urologist at the University of Innsbruck and the General Hospital of Salzburg. He is the author of more than 140 publications on Urology, Andrology and Health Care issues and is co-author of books on basic and clinical urology/andrology.

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American Austrian Foundation
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Robert J. Kim, MD (Course Director) is a noninvasive general cardiologist who is the Director of Consultative Cardiology at Weill Cornell Medicine/NewYork-Presbyterian Hospital. Dr. Kim was born in Deep River, Ontario, Canada then traveled to the US for his higher education. He received his BA in Biochemical Sciences from Harvard University and his MD from Johns Hopkins School of Medicine. He completed his internal medicine residency at Duke University Medical Center and his cardiology fellowship at Weill Cornell Medical College/NewYork-Presbyterian Hospital. Dr. Kim is the Associate Program Director for the Cardiovascular Diseases Fellowship program and is the Co-chair of the Quality Improvement and Patient Safety committee of the Department of Medicine. He teaches the cardiovascular pathophysiology unit to first year Weill Cornell medical students every year and has received numerous teaching awards. He was selected as a member of the Emerging Faculty Program of the American College of Cardiology in 2012 and was also a Weill Cornell Health Policy Leadership Fellow in 2012. He continues to work on utilizing health information technology to deliver accurate, efficient, and high-quality care to patients at Weill Cornell. Dr. Kim is currently an Associate Professor of Clinical Medicine in the Division of Cardiology at Weill Cornell Medicine/NewYork-Presbyterian Hospital. He lives in New York City with his wife Kelly and son Galen.

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Gerald Maurer, MD (Co-Course Director) is a graduate of the University of Vienna School of Medicine. He trained in Internal Medicine in Vienna and subsequently in Baltimore, at Sinai Hospital and Johns Hopkins. His Cardiology training was done at the University of Rochester. Dr. Maurer worked for 12 years at Cedars-Sinai Medical Center in Los Angeles, where he became the Director of Noninvasive Cardiology and also held an appointment as Associate Professor of Medicine at UCLA School of Medicine. He is Board Certified in Internal Medicine and in Cardiovascular Disease by the American Board of Internal Medicine, as well as in Austria. Dr. Maurer served as Director of the Division of Cardiology and as Chair of the Department of Medicine II at the Medical University of Vienna until 2016. Dr. Maurer’s research interests are oriented towards cardiovascular imaging, valvular, and ischemic heart disease. He has authored more than 400 peer-reviewed publications, 30 book chapters and 3 books. Dr. Maurer has served as President of the Austrian Society of Cardiology, President of the Austrian Society of Internal Medicine and has held a number of functions at the American College of Cardiology and the European Society of Cardiology. He is the Editor-in-Chief of the European Heart Journal–Cardiovascular Imaging, and is or has served on the Editorial Board of most major cardiology journals. He was appointed by the European Society of Cardiology to serve as Editor of ESC Cardiomed, and of the ESC Textbook of Cardiovascular Medicine.

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Thomas Binder, MD was born 1960 in Vienna and studied medicine at the Medical University in Vienna from where he graduated 1985. Prof. Binder was trained in internal medicine at the general hospital of the University of Vienna (AKH). Research activities brought him to the Huntington Memorial Research Institute in Pasadena, Ca, USA where he was engaged in basic vascular research. In addition, he served as a clinical fellow at the Loma Linda Medical Center, Loma Linda, Ca, USA. Starting at an early stage of his career Dr. Binder was devoted to imaging techniques and, specifically echocardiography. His scientific focus is clinical echocardiography and new techniques such as three dimensional echo and speckle tracking. Dr. Binder published numerous peer review articles in national and international journals and contributed to several textbooks dealing with echocardiography. In 2000, Dr. Binder achieved the Habilitation Venia Docendi for Professorship in Internal Medicine. As assistant Professor Dr. Binder is director of the echocardiography laboratory of the University Clinic of Cardiology in Vienna. Further appointments include: deputy editor of the European Journal of Cardiovascular Imaging, secretary of the European Union of Medical Specialists – Cardiology section (UEMS-CS) and secretary of the European Cardiology Section Foundation (ECSF). In addition, Dr. Binder was past president of the Echocardiography Working Group of the Austrian Society of Cardiology (ÖKG). Aside from his work as a clinical cardiologist and researcher Dr. Binder is strongly involved in the education of cardiologists. He is director of several national and international echocardiography courses and tutor for the Austrian-American Foundation (educational joint program between eastern countries, Austria and the US). Dr. Binder also has a strong interest in digital learning techniques. After publishing several educational CD-ROM’s he is now fully engaged in Internet based e-learning techniques and recently founded the platform 123sonography.com.

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Paul Kligfield, MD, FACC, FAHA is Clinical Professor of Medicine at Weill Cornell Medical College, and has been at the Cornell Center of the New York Presbyterian Hospital since 1977. He is a 1970 graduate of Harvard Medical School and was an intern and resident in Medicine at Beth Israel Hospital in Boston. He spent a year as a clinical research fellow in Cardiology at St. George's Hospital in London before completing his cardiology fellowship at Cornell. In addition to patient care activities and teaching, his clinical investigation has focused on various aspects of the electrocardiogram, including new algorithms in exercise testing and methodologic issues in standard electrocardiography. His interests in the history of medicine include the development of the stethoscope, the origins of the electrocardiogram, and the development of the pathophysiologic understanding of angina. Dr. Kligfield has served as President of the International Society for Computerized Electrocardiography, on the Board of Governors of the American College of Cardiology and as a member of its Annual Scientific Program Committee, as President of the New York Cardiological Society, and on the Board of Computing in Cardiology. He has previously served as a Director of the New York Heart Association, Secretary and Trustee of the New York Academy of Medicine, and President of the American Osler Society. Dr. Kligfield has published numerous research papers and editorials, and he serves on the editorial boards of a number of subspecialty journals.

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Udhay Krishnan, MD is a cardiologist who specializes in advanced heart failure and pulmonary hypertension. Dr. Krishnan grew up in New York, and earned his undergraduate education in Chemistry and Biomedical Engineering from the Massachusetts Institute of Technology. He received his medical degree from the University of Michigan Medical School. He also completed his internship and residency training in Internal Medicine at the University of Michigan in Ann Arbor. He then returned to New York to complete his fellowship training and board certification in both Cardiovascular Diseases and Advanced Heart Failure and Transplant Cardiology at Weill Cornell Medical Center. He is now part of the full-time faculty at Weill Cornell Medical College – New York Presbyterian Hospital as a specialist in Advanced Heart Failure, Pulmonary Hypertension and Transplant Cardiology. Recent publications include an evaluation of cardiogenic shock outcomes in the International Journal of Cardiology and a review of pulmonary hypertension in left heart disease on UptoDate. He lives in New York City with his wife Jamuna and children Amartya, Nithin and Neela.

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Irene Marthe Lang, MD is a senior staff member at the Department of Cardiology, and Deputy Chair of the Department, at the Medical University of Vienna, Vienna, Austria. Irene Lang carried out her medical education and residency at the University of Vienna, before taking on a 5-year postdoctoral research fellowship at the University of California, CA, USA, which included a joint appointment with the Scripps Research Institute, La Jolla, CA. She has been Professor of Vascular Biology at the Medical University of Vienna since 2004, where she leads a clinical and experimental group in vascular medicine focussing on pulmonary vascular biology and right ventricular function. Irene Lang directs an outpatient unit for pulmonary vascular disease at the Medical University of Vienna. Irene Lang is an active interventional and structural cardiologist, recently very active as balloon pulmonary angioplasty interventionist, and an active researcher. She was nominated by the World Medical Association as a ‘Caring Physician of the World’ in 2006, ‘Teacher of the Year’ at MUV in 2013, and is past president of the Austrian Society of Cardiology. In April 2016 she was awarded the Grosses Ehrenzeichen der Republik Oesterreich and an honorary doctorate from the University of Cyril and Methodius in Skopje, Macedonia. Irene Lang is part of the International CTEPH Association (ICA) whose objectives are to increase awareness for CTEPH, foster worldwide collaboration between CTEPH centers, serve as platform for surgical centers and facilitate training of emerging CTEPH centers, as well as to advance research and education in CTEPH.

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Robert M. Minutello, MD is a cardiologist who specializes in interventional coronary and structural endovascular procedures. Dr. Minutello grew up in New York City, and completed his undergraduate studies at Brown University in Rhode Island. He graduated from Washington University School of Medicine in Saint Louis and completed his internal medicine, cardiology, and interventional training at New York Presbyterian Hospital. Dr. Minutello's research interests include outcomes research in the area of interventional procedures, particularly with respect to ST-elevation myocardial infarctions and TAVR procedures. Recent publications include an analysis of cost and outcomes in TAVR versus SAVR. He is a peer reviewer for multiple major cardiology journals including the American Journal of Cardiology. Dr. Minutello is currently on the faculty of Weill Cornell Medical College as Associate Professor of Clinical Medicine. He is Director of the Interventional Cardiology Training Program and is currently Director of the Acute Coronary Syndrome Committee.

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WEILL CORNELL SEMINAR in SALZBURG

"Cardiology"

May 26 – June 1, 2019

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May 26, Sunday evening. I came to Schloss Arenberg at 2 pm. At the reception I was welcomed very warmly. I got a room on the 5th floor in the attic - very clean, comfortable and beautiful. You feel at home in it. I left my baggage and walked around the city. The city exceeded all my expectations. It is very beautiful, old and special! The welcome reception was in the evening-our faculty presented themselves and talked about the plans for the week. Everything was held in a very friendly atmosphere, a lot of jokes were made. After that the excitement and anxiety were completely gone. We had a dinner with wine, met each other with other colleagues.

May 27, Monday. The morning began with a pre-test. To be honest, despite the great experience, some of the questions caused difficulties for me. But the answers to these questions will be presented during the course. And the first brilliant lecture was given by Dr. Gerald Maurer. In a very simple and accessible manner he talked about the assessment of myocardial viability using various methods. This topic is extremely important, because high-risk surgery should be reasonable. Dr. Paul Kligfield, ECG genius, showed us nontypical ECG, associated with MI. It is crucial in cardiologist practice, because all of us fear to miss MI. Dr. Robert Minutello presented data about PCI during cardiogenic shock. All the lectures were very exciting. There were many surprises in the field of mechanical support and its relations with urgent PCI. Faculties gave answers for all our questions. During discussions new questions came up. Discussions continued also at lunch. After lunch we had a practical workshop. Our group was separated into two subgroups. My one programmed ICD. It is wonderful to try all tools and to watch the effect on patient simulator.

May 28, Tuesday. In the morning we discussed mitral regurgitation. The first excellent lecture was about different types of MR and its prognosis was presented by doctor Gerard Maurer. The second one was presented by Dr. Robert Minutello and it was about different management strategies for patients with MR and HF. We understand many important aspects of secondary MR and reasons for surgery and Mitra Clip. After lunch Dr. Paul Kligfield showed us tips and tricks about NONSTEMI ECG, associated with proximal lesions. None of us knew about these things, he told us!!! Then we had an interactive lecture of Dr. Robert Kim, where everybody was involved in the decision making process. After lunch, the fellows’ case presentations had been presented-very interesting to listen to other participants and to understand, how cardiologist standards work in other countries.
After lectures there was an amazing workshop—we implanted TAVI by ourselves! Very exciting feelings!

**May 29, Wednesday.** This unforgettable day began with a presentation by Thomas Binder, a teacher of 23 sonographies. We were waiting for his lecture, which was very positive. Dr. Thomas Binder very simply explained to us the difficult issues of echocardiography in case of emergency. At the end of the lecture, we all took pictures with our superstar. Then doctor Irene Marthe Lang presented us the latest research and completely new views on the pathogenesis of the phenomenon no reflow. We looked at myocardial infarction from a new perspective. These studies exactly will affect the understanding of many processes, including the causes of MINOCA. Then doctor Dr. Paul Kligfield showed us ECGs with different rhythms and also artefacts. All lectures were as funny quiz. Doctor Krishnan presented us controversies in the management of ischaemic cardiomyopathy. In this area there are so many gaps of evidence. We discussed all of them, the discussion was very hot. After lectures we had free afternoon. It rained, but the city was as beautiful to us, so we walked around and went to Museum.

**May 30, Thursday.** The classes started with a lecture of Irene Marthe Lang. She told us about pulmonary embolism according to recent guidelines and how to apply it to real practice. The topic was continued by Dr. Krishnan, who presented information about pulmonary hypertension due to left heart disease. As for me, there was much information about diagnostic tips of postcapillary and combined PH; actually about the cause of precapillary component in this cohort. Dr. Thomas Binder presented the role of ECHO for CAD. There were so many good examples! Finally, Dr. Robert Minutello presented the current state of TAVI. It was very interesting to know about brain protection and different studies about it. After lunch there were more clinical cases presented—all of them very specific! The evening was amazing! We had a beautiful classic concert. We felt Salzburg’s soul!!

**May 31, Friday.** Lectures started with a brilliant lecture of Dr. Kim, who told us about preoperative assessment of patients with CAD. It is crucial important, because this “everyday questions” do not have clear answers in literature. An amazing lecture was presented by Dr. Irene Marthe Lang. She told us about the cooling for acute MI. It is extremely interesting! Dr. Krishnan presented a lecture about LV assist devices. To be honest, I knew only half of them before this day. A last lecture quiz was performed by Dr. Kim. How interesting are such kind of seminars and applicable for practice too! In the evening there was the graduation dinner and the certificates were awarded. I don’t know how to leave my new family! It feels like all faculty and fellows are closer friends.

This week was really amazing! I have never participated in such kind of seminars. But I am sure, that I will never see such a format again, where great cardiology training with full information will be shared in such a friendly atmosphere. A lot of thanks for the Organizers!!

*Natalia Gavriliuk, MD (Russian Federation)*
May 26, Sunday evening. We all arrived to Salzburg just in time to attend welcome reception. We were greeted by professor Kim and the faculty members were introduced. We had a welcome drink together and dinner afterwards. The group of fellows is really diverse. There are thirty of us. There are doctors not only from eastern European countries but also from Central Asia, Tanzania and Mexico.

May 27, Monday. On the first morning we all met at breakfast. The lectures started at 8:00 am sharp and no one came late. Professor Kim welcomed us very kindly again and we took a pre-seminar test. Some questions were easy, but some were not really obvious. The first lecture was held by Professor Maurer on myocardial viability. He spoke about stunning and hibernation. We should not just look on a scan but include scan into the picture as well. The second lecture was by Professor Kligfield on diagnostic value of ST depression in STEMI. The lecture was focused on inverted leads. He also spoke about new school of ECG that is proposing an activity compatible ECG. Afterwards Professor Minutello had a talk on challenges in cardiogenic shock. He suggested a concept of cardiogenic shock team. Moreover, he spoke about hemodynamics and introduced some new parameters to us such as cardiac power output. WOW. That was amazing. I guess I have never before listened to so many great lectures in one day.

After lunch the fellow’s case presentations took place. We were given advice on how to present them. To finish the day in a great manner we had a hands on TAVI training. I have just implanted my first Medtronic Evolut R valve without any complication. The day could not be any better!

May 28, Tuesday. The morning lessons were focused on mitral valve. First, we discussed the integrated approach to evaluation of mitral regurgitation with professor Maurer only to get ready to compare two recent contradictory trials with Professor Minutello. After the coffee break we were fresh to follow Professor Kim and his case reports on STEMI that were very nicely connected to Professor Kligfield’s lecture on repolarization patterns in UAN/NSTEMI. We should always expect a dynamic situation to have dynamic ecg. I guess no one will ever forget deWinter and Wellens signs. We will compete on who will recognize these patterns first and send an actual copy to professor Kligfield. Today’s workshop was on device programming, extremely useful. During dinner we discussed the most common diagnosis in our countries. It was interesting to find out that Tanzania is struggling with arterial hypertension, cardiomyopathies of which peripartum is common and endomyocardial fibrosis.
May 29, Wednesday. We have guests from Vienna. Professor Binder came to give a lecture on the role of echocardiography in critical care. Professor Lang had a lecture on a new paradigm in acute coronary syndromes. We should identify new targets. She proposes that neutrophils are a new trigger. The day was concluded by Professor Kligfield and his brilliant talk on ecg artefacts.

May 30, Thursday. Today we started with new aspects in the management of pulmonary embolism. It was a very useful and visionary lecture. Next, Professor Krishnan had a marvelous presentation on pulmonary hypertension. Again we had a talk by Professor Binder on the role of echo in coronary artery disease. The last lecture was on TAVR. Again, it broadened our horizons. I have never heard of transcaval aortic access for TAVR. The game changer, PARTNER 3 trial was discussed and the ongoing trials were mentioned. The afternoon was set for the presentations of the last case reports. Today was the first sunny day and we all went for a walk to the city centre. We walked up to the fortress and had a great view on mountains. The great day was finished by a magical chamber music concert. We listened to folk and love songs from Europa by three young musicians. We all truly enjoyed it.

*Eva Polakova, MD (Czech Republic)*