



OPEN MEDICAL INSTITUTE

SEMINAR REPORT

DIAGNOSTIC IMAGING SEMINAR IN SALZBURG

October 11 – October 17, 2020

A Global Educational Initiative by the
American Austrian Foundation

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SALZBURG WEILL CORNELL SEMINAR IN DIAGNOSTIC IMAGING

October 11 – October 17, 2020

16 fellows from 7 different countries
13 faculty members from the United States of America, Austria and Switzerland
19 lectures given by faculty
2 ultrasound workshops (in collaboration with Siemens)
12 interesting case presentations by fellows
7 excellent case presentations by fellows

Group Photo of Faculty and Fellows



Weill Cornell
Medicine

	Sunday 11.10.2020	Monday 12.10.2020	Tuesday 13.10.2020	Wednesday 14.10.2020	Thursday 15.10.2020	Friday 16.10.2020	Saturday 17.10.2020
7:30 - 9:00 1:30 - 3:00 am		BREAKFAST	BREAKFAST	BREAKFAST	BREAKFAST	BREAKFAST	DEPARTURES
09:00 - 10:00 3:00 - 4:00 am		Introductions Pre-Seminar Test	Ovarian Cancer Rosemarie Forstner, MD, PhD	Imaging of Gastrointestinal Tumors Dietmar Tamandl, MD	Peripheral Nerve Swelling and Tumors Hannes Platzgummer, MD	Breast Cancer Thomas Helbich, MD, MSc, MBA	
10:00 - 11:00 4:00 - 5:00 am		Nodules in the Thyroid and Other Tumors of the Endocrine System Christian Pirich, MD	Workshop** Fellows' Case Presentations	Workshop** Fellows' Case Presentations	Head and Neck Neoplasms Gerlig Widmann, MD, PD, MSc, EBIR	Prostate Cancer Thomas Helbich, MD, MSc, MBA	
11:00 - 12:00 5:00 - 6:00 am		Multi-Channel Communication in Oncology: An Update Franz Kainberger, MD	Cervix and Endometrium Cancer Rosemarie Forstner, MD, PhD	Workshop** Fellows' Case Presentations	COVID-19: Past-Present-Future (streamed) Gunter Weiss, MD	Post-Seminar Test Evaluation & Discussion	
12:00 - 13:00 6:00 - 7:00 am		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	
13:00 - 14:00 7:00 - 8:00 am		Imaging of Orbital Masses John Tsiouris, MD	Primary and Metastatic Hepatobiliary Tumors Lawrence H. Schwartz, MD	Imaging of Malignant Bone Tumors Jessica Rotman, MD	Advanced Imaging of Brain Tumors John Tsiouris, MD		
14:00 - 15:00 8:00 - 9:00 am		Imaging of Spine Neoplasms John Tsiouris, MD	Workshop** Fellows' Case Presentations	Lymphoma and Myeloma Marius E. Mayerhoefer, MD, PhD	Workshop** Fellows' Case Presentations		
15:00 - 15:30 9:00 - 9:30 am		COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	
15:30 - 16:30 9:30 - 10:30 am		AI in Cancer Imaging Lawrence H. Schwartz, MD	Lung Cancer Lawrence H. Schwartz, MD	Imaging of Benign Bone Tumors Jessica Rotman, MD	Interventional Treatment of Tumors David W. Trost, MD		
16:30 - 18:00 10:30 - 12:00 am			Ultrasound Workshop Franz Kainberger, MD Florian A. Huber, MD		Ultrasound Workshop Franz Kainberger, MD Florian A. Huber, MD		
18:00 - 19:00 12:00 - 1:00 pm	FACULTY MEETING*					FAREWELL RECEPTION	
19:00 - 20:00 1:00 - 2:00 pm	WELCOME RECEPTION & DINNER	DINNER	DINNER	DINNER	DINNER	GRADUATION CEREMONY*** Certificates Awarded	
20:00 - 21:00 2:00-3:00 pm							

* Faculty Meeting: US and AUT/EU Faculty

** Workshops Fellows' Case Presentations: AUT/EU Faculty (am), US & AUT/EU Faculty (pm)

*** Graduation Ceremony: US & AUT/EU Faculty



OPEN MEDICAL INSTITUTE

FACULTY BOOKLET

DIAGNOSTIC IMAGING SEMINAR IN SALZBURG

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American Austrian Foundation



Wolfgang Aulitzky, MD

Director, Open Medical Institute
American Austrian Foundation

Associate Dean and Gerhard Andlinger Professor
for International Medicine & Distance Learning
Adjunct Professor of Clinical Urology
Adjunct Professor of Clinical Reproductive Medicine
Weill Medical College of Cornell University

Adjunct Professor of Pediatrics
**Perelman School of Medicine at the Children's Hospital
of Philadelphia**

Associate Professor of Urology
Medical University of Innsbruck, Austria

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 Zuckermandpreis 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.



**David W. Trost, MD
(Course Director)**

Associate Professor of Clinical Radiology
Director of Interventional Radiology
Weill Medical College
Cornell University
525 East 68th Street
New York, NY 10065
USA

Phone: +1-212-752-7999
Fax: +1-212-746-8463
Email: datrost@med.cornell.edu

David W. Trost, MD is an Associate Professor of Clinical Radiology and former Director of Interventional Radiology at the Weill Medical College of Cornell University in New York. He also serves as Associate Attending Radiologist at the New York Presbyterian Hospital. Dr. Trost received his medical degree from Georgetown University School of Medicine in Washington, DC. His postgraduate training included a residency in Diagnostic Radiology at St Vincent's Hospital Medical Center in New York and a fellowship in Cardiovascular and Interventional Radiology at New York Hospital Cornell Medical Center. His clinical interests are Inferior vena caval filters, minimally invasive tumor therapies including, ablation and embolization. His major research interest is vena caval filters. Dr. Trost currently serves as reviewer for Radiology, Transplantation and the Journal of Vascular and Interventional Radiology. In addition, he serves as examiner for the American Board of Radiology. Dr. Trost is a member of several professional organizations, The Radiological Society of North America, The Society of Interventional Radiology, and The Cardiovascular and Interventional Radiological Society of Europe.



Franz Kainberger, MD (Co-Course Director)

Division of Neuro- and Musculoskeletal Radiology & CIR-
Lab (Computerized Image Analysis in Radiology), Core
Unit for Teaching in Imaging
Department of Biomedical Imaging and Image-Guided
Surgery
Deputy-Director of the Medical School
Medical University of Vienna
Vienna General Hospital
Waehringer Guertel 18-20
1090 Vienna
Austria

Phone: +43-1-40400-58030

Email: franz.kainberger@meduniwien.ac.at

Web: <https://radnuk.meduniwien.ac.at/allgemeine-informationen/klinikleitung/franz-kainberger/>
<https://radnuk.meduniwien.ac.at/forschung/computational-imaging/>

Franz Kainberger, MD graduated 1983 at the University of Innsbruck Medical School. From 1985 – 1990 residency at the Department of Diagnostic Radiology University Hospital Vienna/Austria. Since 1994, Associate Professor of Radiology at the Section of Osteology of the Department of Diagnostic Radiology and deputy-chief from 1995-2008. Since then, deputy chief of the Division of Neuroradiology & Musculoskeletal Radiology and Medical Director of the Computer Image Analysis (CIR) Lab. From 2004-2007 and again since 2011 he is Deputy-Director of the Medical School at the Medical University of Vienna. He has 241 scientific publications in international and national scientific journals and 53 books or book chapters as an author or co-author. Main research interests are in the field of musculoskeletal radiology (focussing on rheumatology, sports medicine and orthopaedic oncology), in computer-assisted imaging with artificial intelligence (current focus on structured reporting), and in radiation protection (focus on justification of imaging). He received 3 EU Grants (one as work package leader, one as member of the coordinating team, and one as supervisor of a Marie-Curie-Grant receiver). He has served as reviewer and consultant of many national and international authorities, among them IAEA, German Scientific Boards, and Austrian Health Insurance. He has been involved in various activities of national and European scientific associations and congresses. Among them, he served as President of the Austrian Society of Radiation Protection (2005 – 2011, www.strahlenschutz.org), as President of the College of Physicians of Vienna (2011 – 2015, www.billrothhaus.at), as President of the European Society of Musculoskeletal Radiology (www.essr.org), Chairman of the Radiation Protection Subcommittee of the European Society of Radiology (ESR, 2019-2022), and President of the Society of Friends and Supporters of the Josephinum Collections, Vienna (2018-). From 2005 to 2011, he was co-editor of the CME section of the journal “Der Radiologe”, since 2005 Member of the Editorial Board and since 2015 Section-Editor for Imaging of the “Wiener klinische Wochenschrift - The Central European Journal of Medicine”.



Rosemarie Forstner, MD, PhD

University Institute of Radiology
Landeskrankenhaus, LKS
Müllner Hauptstr. 48
5020 Salzburg
Austria

Phone: +43-662-4482-3959
Fax: +43-662-4482-3993
Email: r.forstner@salk.at

Rosemarie Forstner, MD, PhD is a radiologist at the Department of Radiology at Landeskrankenhaus, Landeskliniken, Salzburg. She is attending Radiologist and specialised in CT and MRI. She is currently responsible for the MRI section and the residency program. Dr. Forstner received her medical degree from the Innsbruck Medical University. In Salzburg, she finished her residency program, which was followed by a fellowship for abdominal MRI at the University of California, San Francisco. Dr. Forstner has been a member of the board of examination for Austrian radiologists and is a member of the editorial board of the journal *European Radiology*. Additionally, she is a board member of societies such as the Austrian Roentgen Ray Society and the female imaging subgroup of the European Society of Urogenital Radiology. In Salzburg, Dr. Forstner serves as lecturer at the Paracelsus Medical University. She has been invited to lecture for the European Congress of Radiology for many years, for Erasmus courses, ESOR, ICIS and ESUR courses. Furthermore, Dr. Forstner has been lecturer of the AAF from its inception. She serves as a reviewer for several journals including *European Radiology*, *European Journal of Radiology*, *Abdominal imaging*, *Cancer Imaging*, and *Röfo*.



Thomas H. Helbich, MD, MSc, MBA

Professor of Radiology and Vice-Chairman
Department of Biomedical Imaging and Image-Guided
Therapy

Head: Division of Molecular and Gender Imaging
Medical University of Vienna
General Hospital Vienna
Waehringer Guertel 18-20, Floor 7F
1090 Vienna
Austria

Phone: +43-1-40400-48930 (Ms. Neckar)

Fax: +43-1-40400-48980

Email: thomas.helbich@meduniwien.ac.at

Thomas H. Helbich, MD, MSc, MBA is a Professor of Radiology. He finished his medical degree at the Medical University of Vienna in 1998. From 1990 until 1996 he was trained as a radiologist at the Department of Radiology at the Medical University of Vienna. He was a research fellow at the Department of Radiology, Center of Molecular Imaging of the University of California in San Francisco from 1996 to 1998. In 1999 he became Associate Professor of Radiology. In 2005 he became Vice Department Chair of the Department of Radiology /Surgical Division. In 2007 he became Division Head of the Breast Imaging Department of the University of Toronto and Full Professor of Radiology of the University of Toronto. Since October 1st, 2008 he is Professor of Molecular & Gender Imaging and Vice Chair of the Department of Biomedical Imaging and Image guided Therapy of the Medical University of Vienna. His main fields of research interest are clinical and experimental investigation on a cellular and sub-cellular level to diagnose cancer, in particular breast cancer, earlier, more accurately, minimally and/or non-invasively. His working group developed and optimized several methods on the basis of MRI, different molecular imaging tools, as well as minimal invasive diagnostic techniques. He is author/coauthor of more than 200 scientific articles. He has received numerous awards, including e.g. the Gold Medal of the European Society of Breast Imaging (EUSOBI), and has been invited to lecture as Visiting Professor in numerous international institutions, e.g. at the Memorial Sloan Kettering Cancer Center, the Campbell Family Institute for Cancer Research in Toronto, and Stanford Radiology. He is advisor to the Minister of Health of Austria and the mayor of the city of Vienna for the national breast screening program. He was honored with several national and international awards. Prof. Helbich serves as section editor and reviewer of several Medical Journals. He is a board member of the European Society of Molecular and Functional Imaging in Radiology (ESMOFIR), European Society of Breast Imaging (EUSOBI), Molecular and Gender Imaging Austria (MAGIA), and the Austrian Society of Senology (ÖGS). He was president of several medical societies.



Florian A. Huber, MD (Tutor)

Resident Physician
Institute of Diagnostic and Interventional Radiology
University Hospital Zurich
Raemistrasse 100
8091 Zurich
Switzerland

Phone: +41-43-253-05-54
Fax: +41-44-255-44-43
Email: florian.huber@usz.ch

Florian A. Huber, MD (Tutor) is a resident physician at the Institute of Diagnostic and Interventional Radiology at the University Hospital Zurich. He specializes in musculoskeletal radiology. Dr Huber grew up in Vienna, Austria, where he also graduated from the Medical University of Vienna. Already in the first years of his medicine studies, he joined the student ultrasound organization “Sono4You”. Most of his active time there, he was part of the organization’s executive committee and in charge of several projects, e.g. the establishment of Sono4You in Hamburg. His teaching activity has also included teaching ultrasound and radiology classes to degree students. He is currently lecturing at the Medical Faculty of the University of Zurich, as well as tutoring accredited courses of the Swiss Society of Ultrasound in Medicine (SGUM).



Marius E. Mayerhoefer, MD, PhD

Associate Professor of Radiology
Department of Biomedical Imaging and Image-Guided
Therapy
Medical University of Vienna
Spitalgasse 23
1090 Vienna
Austria

Phone: +43-1-40400-4818
Fax: +43-1-40400-4898
Email: marius.mayerhoefer@meduniwien.ac.at

Marius E. Mayerhoefer, MD, PhD was born in Guessing, Austria. He attended medical school at the Medical University of Vienna, where he graduated in 2004. From 2006 to 2010 he did graduate research, also at the Medical University of Vienna, and attained his PhD in Medical Physics for his research investigating the influence of sequence protocol variations on MR image texture at 3.0 Tesla. Dr. Mayerhoefer did his residency training in Radiology in the Department of Radiology of the Medical University of Vienna at the Vienna General Hospital. Dr. Mayerhoefer has been active in research projects and has authored and co-authored over 80 peer-reviewed research articles. Moreover, he has presented his work at several scientific meetings across Europe and North America. Dr. Mayerhoefer serves on multiple editorial review boards of academic journals, such as *European Radiology*, the *International Journal of Cancer*, and the *Journal of Magnetic Resonance Imaging*. He is also a member of several societies including the European Society of Radiology, the Radiological Society of North America, the Ethics Committee of the Medical University of Vienna, the executive board of ESOI, and a fellow of ICIS. Since 2013, Dr. Mayerhoefer is an Associate Professor of Radiology at the Medical University of Vienna.



Christian Pirich, MD

Director, Department of Nuclear Medicine and
Endocrinology
University Hospital Salzburg
Paracelsus Private Medical University Salzburg
Muellner Hauptstrasse 48
5020 Salzburg
Austria

Phone: +43-5-7255-26600
Email: c.pirich@salk.at

Christian Pirich, MD is a specialist in nuclear medicine and endocrinology heading the Department of Nuclear Medicine and Endocrinology at the University Hospital Salzburg. He graduated from Medical University of Vienna and spent his fellowship training in positron-emission-tomography (PET) at the Department of Nuclear Medicine at the Klinikum rechts der Isar, Technical University of Munich, Germany. Dr. Pirich's research interests include the assessment of diagnostic and therapeutic strategies in thyroid cancer and oncologic and cardiac applications of PET/CT. Recent publications include studies on the use of molecular markers and FDG PET/CT in thyroid cancer. He is a peer reviewer for the Journal of Nuclear Medicine, European Journal of Medicine and Molecular Imaging, Nuclear Medicine, Clinical Endocrinology and European Radiology. Dr. Pirich is currently also dean for teaching and studies at the Paracelsus Private Medical University, Salzburg.



Hannes Platzgummer, MD

Department of Biomedical Imaging und Image-Guided
Therapy
Division of Neuroradiology and Musculoskeletal Radiology
Medical University of Vienna
Waehringer Guertel 18-20
1090 Vienna
Austria

Phone: +43-1-40400-48180
Fax: +43-1-40400-48980
Email: hannes.platzgummer@meduniwien.ac.at

Hannes Platzgummer, MD is staff radiologist at the Department of Diagnostic Imaging and Image guided Therapy, Medical University of Vienna. He specializes in musculoskeletal imaging and has a research focus on peripheral nerve imaging. He is a peer reviewer for multiple major journals in the field of pain research, radiology and sonography. Dr. Platzgummer is currently subcommittee member of the Arthritis subcommittee of the European Society of Skeletal Radiology (ESSR) and deputy Head of the Musculoskeletal Ultrasound Section of the Austrian Ultrasound Society (ÖGUM).



Jessica Rotman, MD

Assistant Attending Radiologist, Emergency and
Musculoskeletal Division
Assistant Professor of Clinical Radiology
Program Director, Emergency Radiology Fellowship
New York Presbyterian Hospital-Weill Cornell Medical
Center
Weill Cornell Medicine
525 East 68th Street
New York, NY 10065
USA

Phone: +1-212-746-2630
Email: jar9120@med.cornell.edu

Jessica Rotman, MD is an Assistant Professor of Radiology at Weill Cornell Medicine and an Assistant Attending Radiologist at NewYork-Presbyterian Hospital/Weill Cornell Medicine. She is a board-certified radiologist and a member of the Emergency/Musculoskeletal Imaging Division. Dr. Rotman graduated summa cum laude with a Bachelor of Arts degree from the University of Pennsylvania in 2008. She graduated from Sackler School of Medicine in 2012, where she stood first in her class and received the Dean's Award for Academic Excellence in All Years of Studies. Dr. Rotman completed her internship year in Internal Medicine at Jacobi Medical Center and completed her residency in Diagnostic Radiology at NewYork-Presbyterian/Weill Cornell Medicine in 2017. She was recruited to join the full-time faculty at Weill Cornell Medicine after completing her fellowship in Emergency Radiology at NewYork-Presbyterian/Weill Cornell Medicine in 2018 and currently serves as the fellowship's Program Director. Dr. Rotman is first author on many peer-reviewed publications and textbook chapters and created multiple online radiology teaching modules. Her work has been recognized with invited presentations and lectures at many local and national meetings. She is a member of the American Society of Emergency Radiology (ASER), American Roentgen Ray Society (ARRS), American College of Radiology (ACR), Radiological Society of North America (RSNA), and the Imaging Learning Network (ILN), a national multi-disciplinary team comprised of multiple healthcare institutions dedicated to development and utilization of Appropriate Use Criteria (AUC) to enhance the value of imaging care. Her research interests include clinical decision support for the promotion of evidence-based imaging and the reduction of unnecessary diagnostic procedures, particularly in the Emergency Department setting.



Lawrence H. Schwartz, MD

James Picker Professor and Chairman,
Department of Radiology
Columbia University Medical Center
Radiologist-in-Chief
622 West 168th Street
New York, NY 10032
USA

Phone: +1-212-305-8994
Fax: +1-212-305-4835
Email: lhs2120@cumc.columbia.edu

Lawrence H. Schwartz, MD is the James Picker Professor and Chairman of the Department of Radiology at Columbia University Medical Center and is also Radiologist-in-Chief at New York-Presbyterian Hospital/Columbia University Medical Center. In his capacity as Chairman, Dr. Schwartz oversees a 75 clinical member department and directs its patient care, research and educational initiatives. Dr. Schwartz is a graduate of Boston University School of Medicine. He completed his residency at New York-Presbyterian Hospital/Cornell University Medical Center and his Fellowship in Cross Sectional Imaging at Brigham and Women's Hospital/Harvard Medical School. Before joining Columbia, Dr. Schwartz was on the faculty at Memorial Sloan-Kettering Cancer Center for approximately 18 years, most recently as the Vice Chair, Technology Development in the Department of Radiology as well as Director of MRI. Dr. Schwartz's academic interests are in the development of novel imaging biomarkers in oncology, both clinical care and drug discovery. He is an active member of the Quantitative Imaging Biomarker Alliance and the Oncology Biomarker Qualification Initiative.



Dietmar Tamandl, MD

Medical University of Vienna
Department of Biomedical Imaging and Image-Guided
Therapy
Waehringer Guertel 18-20
1090 Vienna
Austria

Phone: +43-1-40400-48000

Email: dietmar.tamandl@meduniwien.ac.at

Dietmar Tamandl, MD is a radiologist who specialized in imaging for Gastrointestinal tract cancers and oncologic radiology. He grew up in Vienna where he graduated from Medical school. After serving in the Austrian Army, he started a residency in General Surgery at the Medical University of Vienna. He completed his training in 2009 and worked as a General Surgery Attending with special focus on Surgical Oncology at the Vienna General Hospital. His research focused on liver and biliary tract cancers, and he received the Venia docendi from the Medical University of Vienna for his research in that field (Assistant Professor). In 2010/11 he completed a Surgical Oncology Fellowship at the Memorial Sloan-Kettering Cancer Center in New York, where he was trained in Advanced Surgical Oncology procedures. His special focus was colorectal and hepatobiliary/pancreatic surgery. During that fellowship, his interest in radiology was raised and continued to increase after his return to Vienna in 2011. After working at the Surgical Department for almost another year, he decided to switch subjects and started a new residency in Radiology, which he completed in 2017. In 2017, he also passed the European Board Examination for Radiology (EBiR). Similar to his previous scientific interest, his main attention is abdominal and oncological radiology, and he also published several papers in that field. He has authored and co-authored around 70 peer-reviewed articles and 6 book chapters. He is a regular speaker at national and international conferences. He is reviewer for several radiological and surgical journals and is also currently assistant editor at the British Journal of Radiology. He continues to work at the Medical University of Vienna as an Associate Professor of Radiology and is currently the Department Head of Body CT at this institution. He is married and has three sons.



John Tsiouris, MD

Associate Professor of Clinical Radiology
Section of Neuroradiology
New York Presbyterian Hospital
Weill Cornell College of Medicine
525 East 68th Street, Starr 630C
New York, NY 10065
USA

Phone: +1-212-746-2562
Email: john.tsiouris@me.com

A. John Tsiouris, MD graduated Phi Beta Kappa from The Johns Hopkins University in 1993 with Bachelor degrees in Biology and Psychology. He then went on to complete medical school at Cornell Medical College in 1997, graduating Alpha Omega Alpha. He trained in diagnostic radiology and subspecialized in neuroradiology at The NewYork-Presbyterian Hospital and Memorial Sloan Kettering, completing his training in 2003. He is currently an Associate Professor of Clinical Radiology and the Director of MRI at NYPH-WCMC. Dr. Tsiouris' research interests include the use of advanced MRI techniques such as diffusion tensor imaging and resting state functional MRI as biomarkers in traumatic brain injury. He also investigates the use of MR quantitative susceptibility weighted (QSM) imaging in the assessment of traumatic brain injury, brain tumors, neurodegenerative diseases (i.e. Parkinson disease and amyotrophic lateral sclerosis), and multiple sclerosis. He has significant experience in interpreting imaging studies in patients with traumatic brain and spine injury and has written multiple papers on the topic, including recent white papers on imaging recommendations for traumatic brain injury in *JACR and AJNR*.



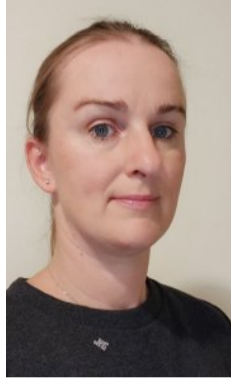
Gerlig Widmann, MD, PD, MSc, EBIR

Executive Senior Physician, Clinical Risk Manager
Tirol Kliniken GmbH – Medical University of Innsbruck
Department of Radiology
Anichstraße 35
6020 Innsbruck
Austria

Phone: +43-512-504-80927
Fax: +43-512-504-6780927
Email: gerlig.widmann@i-med.ac.at
gerlig.widmann@tirol-kliniken.at

Gerlig Widmann, MD, PD, MSc, EBIR is a radiologist who specializes in head and neck radiology, thoracic radiology, oncologic radiology, and interventional oncology. Dr. Widmann graduated from the Medical University of Innsbruck and completed his radiology residency at the University Hospital of Innsbruck. He completed a fellowship in interventional radiology and holds certifications from the Austrian Society of Interventional Radiology and European Board of Interventional Radiology. Dr. Widmann obtained his postdoctoral lecture qualification in Radiology from the Medical University of Innsbruck and graduated from the University of Applied Health Sciences Hall in Tirol. He currently holds the position as the executive senior physician and clinical risk manager of the Department of Radiology of the Medical University of Innsbruck. He is also the head of the section of computed tomography and the clinical lead of Head & Neck Radiology, Thoracic Radiology, and Oncologic Radiology. Dr. Widmann is a board member of the Austrian Roentgen Society, member of the radiology examination council of the Austrian medical chamber, chair of the working group head and neck radiology of the Austrian Roentgen Society. His research interests in the field of head and neck radiology include imaging biomarker in oncology such as tumor and lymph node volumes, growth rates, contrast enhancement pattern, and body composition measuring. He lives in Innsbruck with his wife and two adolescent children.

Fellow Booklet



Ivana Barakat, MD
St. Michael's University Hospital
Department of Radiology
Satinského 1
81108 Bratislava
Slovakia
ivanakopecka@yahoo.com



Lyubomir Chervenkov, MD, PhD
Medical University - Plovdiv
Department of Radiology
Sofia 64
4002 Plovdiv
Bulgaria
lyubo.ch@gmail.com



Marco Gasparetto, MD
Università degli studi di Verona
Department of Radiology
Piazzale Scuro Ludovico Antonio 10
37134 Verona
Italy
marco.gasparetto@outlook.com



Tamara Gorjanc, MD
General Hospital "dr. Franca Derganca" Nova Gorica
Department of Radiology
Ulica padlih borcev 13A
5290 Šempeter pri Gorici
Slovenia
tamara.gorjanc@gmail.com



Martin Hazlinger, MD
St. Michael's University Hospital
Department of Radiology
Satinského 1
81108 Bratislava
Slovakia
hazlinger2020@gmail.com



Vesna Jugovec, MD
University Medical Center Ljubljana
Department of Radiology
Zaloška cesta 7
1000 Ljubljana
Slovenia
vesna.jugovec@gmail.com



Tomáš Koutný, MD
University Central Military Hospital Prague
Department of Radiology
U Vojenské nemocnice
16000 Prague
Czech Republic
yt.koutny@seznam.cz



Michal Kozub, MD
Mazowiecki Szpital Bródnowski
Department of Radiology
Kondratowicza 8
03-424 Warsaw, Poland
Poland
michalmkozub@gmail.com



Irene Leonardi, MD
Universita' degli studi di Verona
Department of Radiology
Piazzale Ludovico Antonio Scuro, 10
37100 Verona
Italy
neneleonardi@gmail.com



Klavdija Lipnik, MD
General Hospital of Murska Sobota
Department of Radiology
Ulica dr. Vrbnjaka 6
9001 Murska Sobota
Slovenia
klavdija@live.com



Maria Cameron Maurer, MD
General Hospital of Salzburg
Department of Radiology
Muellner Hauptstrasse 48
5020 Salzburg
Austria
mar.maurer@salk.at



Łukasz Mazurek, MD
Silesia Medical University
Department of Radiology
Medyków 14
40-752 Katowice
Poland
lukasz.mazurek@gmail.com



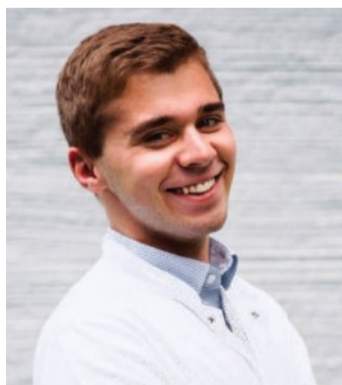
Christof Mittermair, MD
Landeskrankenhaus Salzburg
Department of Radiology
Muellner Hauptstrasse 48
5020 Salzburg
Austria
c.mittermair@salk.at



Dejan Novak, MD
General Hospital of Murska Sobota
Department of Radiology
Ulica dr. Vrbnjaka 6
9000 Murska Sobota
Slovenia
dekoman10@gmail.com



Vlado Stevanovic, MD
Landeskrankenhaus Salzburg
Department of Radiology
Muellner Hauptstraße 48
5020 Salzburg
Austria
v.stevanovic@salk.at



Mindaugas Ziurlys, MD
General Hospital of Villach
Department of Radiology
Nikolaigasse 43
9500 Villach
Austria
m.ziurlys@gmail.com

DIARY



Tamara Gorjanc, MD
General Hospital “Dr. Franca Derganca”
Department of Radiology
Nova Gorica, Slovenia

Sunday, October 11, 2020

I arrived in Salzburg with three other colleagues late in the afternoon, the surrounding hills and mountains were covered in snow. Prof. Dr. Wolfgang Aulitzky (Medical Director of AAF) and Prof. Dr. Franz Kainberger (Co-Course Director) welcomed us all and even though we had to follow certain protocols due to COVID situation, we had a nice evening.

Monday, October 12, 2020

Prof. Trost (Course Director) welcomed us in the morning from the USA and we began the day with the pre-seminar test. Afterwards the first lecture was given by Prof. Dr. Pirich about nodules in the thyroid and other tumours of the endocrine system. We talked about ACR TI-RADS, which I think is very useful when reporting thyroid nodules. The second lecture by Prof. Kainberger was about multi-channel communication in oncology, where radiologist and radiology reports play an important role. In the afternoon, Dr. Tsiouris talked about spine neoplasms and orbital masses. The last lecture on the first day was about AI in cancer imaging by Dr. Schwartz. This is a topic that has gained considerable attention in recent years and I do agree with Dr. Schwartz that we should embrace it.

Tuesday, October 13, 2020

Prof. Dr. Forstner presented imaging of ovarian cancer, cervix and endometrium cancer. Since this is the topic where I didn't have many experiences, I found the lectures very useful and I will try to incorporate the knowledge in my work. Afterwards I presented my interesting case, along with some other fellows. After lunch, Dr. Schwartz talked about primary and metastatic hepatobiliary tumours and lung cancer. The day finished with the ultrasound workshop. During one part we practised US-guided biopsies, the second part was reserved for MSK US. Prof. Dr. Kainberger allowed us to choose which part of the MSK we wanted to practise, and since there were only three of us in the group, we really made the most of the time with Prof. Kainberger.

Wednesday, October 14, 2020

We started the day with Imaging in Gastrointestinal Tumours with Prof. Dr. Tamandl, a few case representations by fellows followed. Afternoon was reserved for imaging of malignant and benign bone tumors with Assist. Prof. Rotman and imaging of lymphoma and myeloma with Prof. Dr. Mayerhoefer. It was very interesting to learn about novel PET tracers such as Methionine and Pentixafor. After the lectures some of us walked to the Hohensalzburg fortress.

Thursday, October 15, 2020

In the morning, Dr. Platzgummer talked about peripheral nerve swelling and tumours. This lecture showed the important role the ultrasound has in medicine. Mag. Dr. Widmann talked about head and neck neoplasms and afterwards we had a COVID lecture. After lunch, Dr. Tsiouris talked about advanced imaging of brain tumours. This lecture was very important for me, because it showed the value of incorporating PWI in MRI protocol. After the final case presentation, we finished the day with interventional treatment of tumours by Prof. Dr. Trost.

Friday, October 16, 2020

On our last day, Prof. Dr. Helbich held two excellent lectures about MRI of the Breast and Prostate Cancer. We finished the seminar with the post-seminar test.

I would like to thank the organisation for providing this seminar. The lectures were excellent. I'm very grateful that I had the opportunity to listen to some of the world's best radiologists. I feel I'm going home better equipped and with new friends.

