SEMINAR REPORT

TRAUMA AND EMERGENCY SURGERY

February 12-18, 2023

A Global Educational Initiative by the American Austrian Foundation
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<th>Time</th>
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<td><strong>Sunday, February 12 – Saturday, February 18, 2023</strong></td>
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<td><strong>Introductions Pre-Seminar Test</strong></td>
<td>Robert J. Winchell, MD, FACS</td>
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<td><strong>Systems for Emergency Care: The Basics</strong></td>
<td>Robert J. Winchell, MD, FACS</td>
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<td><strong>A Practical Guide for the Surgical Management of Duodenal and Pancreatic Injury</strong></td>
<td>George C. Velmahos, MD, PhD, MSc, FACs, FACC, MCM, MCR, FRCS, FRCPs</td>
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<td><strong>Clearance of Cervical Spine</strong></td>
<td>Robert J. Winchell, MD, FACS</td>
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<td><strong>Appendicitis</strong></td>
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<td><strong>Small Bowel Obstruction</strong></td>
<td>Daniel R. Margulis, MD, FACS</td>
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<td><strong>Controversies and Recommendations in Modern Trauma Resuscitation</strong></td>
<td>George C. Velmahos, MD, PhD, MSc, FACs, FACC, MCM, MCR, FRCS, FRCPs</td>
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<td><strong>Cholecystitis</strong></td>
<td>Andre Campbell, MD, FACs, FACP, FACC</td>
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<td><strong>Vascular Injuries</strong></td>
<td>Andre Campbell, MD, FACs, FACP, FACC</td>
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<td><strong>Chest Wall Reconstruction</strong></td>
<td>Julia Starlinger, MD, PhD</td>
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<td><strong>Control of Exsanguinating Pelvic Bleeding</strong></td>
<td>Klaus U. Klein, MD, MBA</td>
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<td><strong>Penetrating Abdominal Trauma: Operative Therapy is Best</strong></td>
<td>Daniel R. Margulis, MD, FACS</td>
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<td><strong>The Non-Operative Management of Penetrating Abdominal Injuries: A Heresy or a New Religion?</strong></td>
<td>Patrick Starlinger, MD, PhD, FEB (F)</td>
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<td><strong>Management of Traumatic Liver Injuries</strong></td>
<td>Patrick Starlinger, MD, PhD, FEB (F)</td>
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<td><strong>Skeletal Limb Reconstruction: The Pendulum Swings</strong></td>
<td>Gerald E. Wozasek, MD</td>
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<td><strong>Anatomical Considerations of IM Humeral Nailing and Lengthening</strong></td>
<td>Gerald E. Wozasek, MD</td>
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<td><strong>Polytrauma Strategies</strong></td>
<td>Julia Starlinger, MD, PhD</td>
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<td><strong>Emergency Treatment of Severely Injured Patients in the Trauma Room</strong></td>
<td>Julia Starlinger, MD, PhD</td>
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<td><strong>Management of Hip Fractures</strong></td>
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<td><strong>Damage Control Surgery’ Early Total Care</strong></td>
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<td><strong>Trauma Induced Coagulopathy: Pathophysiology and Treatment Options</strong></td>
<td>Herbert Schoehl, MD</td>
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<td>Andre Campbell, MD, FACs, FACP, FACC</td>
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<td><strong>Basic Ventilator Management</strong></td>
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Robert J. Winchell, MD, FACS

G. Thomas Shires II Professor of Surgery
Professor of Medical Ethics in Medicine
Chief of Trauma, Burns, Acute and Critical Care
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Robert J. Winchell, MD, FACS (Course Director) is the G. Thomas Shires II Professor of Surgery, Professor of Medical Ethics in Medicine, and Chief of the Division of Trauma, Burns, Acute and Critical Care at Weill Cornell Medicine in New York City. Dr. Winchell received his undergraduate degree from the California Institute of Technology, his M.D. from Yale University, and did his internship, General Surgery residency, and Trauma and Critical Care Fellowship at the University of California, San Diego. Dr. Winchell has served on the American College of Surgeons Committee on Trauma for over 20 years, as Chair of the Trauma Systems Evaluation and Planning Committee, and as Special Consultant for International Quality Programs. He has been deeply involved in the development and evolution of trauma systems throughout the world, including seminal work with the Committee on Trauma's Trauma System Consultation Program, and work with the WHO Global Alliance for the Care of the Injured. Dr. Winchell is the author of more than 100 scientific papers and book chapters, and has given over 200 regional, national and international presentations. He is an Associate Editor for the Journal of Trauma and Acute Care Surgery, a Section Editor for the European Journal of Trauma, and a reviewer for several other journals including Trauma and Acute Care Surgery Open, the Archives of Surgery, and the World Journal of Surgery.
Harald K. Widhalm, MD, MBA (Co-Course Director) is an Orthopedic and Trauma Surgeon who has finished his final year of residency in 2011 within the Trauma Surgery Department of the Medical University of Vienna. He has been actively involved together with other colleagues in founding the largest center for the diagnosis and treatment of cartilage lesions. Besides working in the outpatient clinic for cartilage lesions, Dr. Widhalm is currently working in the Sports medicine field on biomechanical research studies including anterior cruciate ligament injuries and treatment strategies. At the Medical University of Vienna, he is working for several years in the outpatient specialty clinic for cartilage lesions, for sports and for head injuries. He is currently head of the outpatient clinic for sports injuries. From 2013 to 2014, Dr. Widhalm was elected by the Arthroscopic Association (AGA) for working as a research fellow at the University of Pittsburgh (USA) in the Department of Orthopedics and Sports medicine, leaded by world famous Prof. Dr. Freddie H. Fu. Beside that he has had in the past, the opportunity to gain valuable work and visit colleagues at Ann Arbor University, Michigan as well as at Janeway Child Health Centre, St. John’s, Newfoundland and Mount Sinai Hospital in New York. During his time within these organizations, he very much appreciated both the work ethic and dedication of his professional colleagues. In June 2016 Dr. Widhalm successfully passed the habilitation in trauma surgery at the Medical University of Vienna with the topic: “New MRI images for visualization of cartilage lesions in the knee.” In 2018 he reached his second degree for Orthopedics after working for one year at the Department of Orthopedics in Zwettl. He is currently working as Medical Specialist for Orthopedics and Trauma at the Department of Orthopedics and Traumatology at the Medical University of Vienna. Besides working in the hospital, he looks after a few professional athletes and is the Medical Chief Director of professional sports events such as tennis, golf, sailing, etc. Beside that Dr. Widhalm enjoys practicing sports himself. Moreover, he is named 5-times Austrian Champion in the H-Boot Sailing Class.
Andre Campbell, MD, FACS, FACP, FCCM

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Andre Campbell MD, FACS, FACP, FCCM is currently Professor of Surgery at the University of California, San Francisco, School of Medicine. In addition, he is also an attending trauma surgeon at Zuckerberg San Francisco General Hospital and Trauma Center. Dr. Campbell attended Harvard University where he received his Bachelor of Arts degree in Biology in 1980. He attended medical school at the University of California, San Francisco and received his MD degree in 1985. His formal training was at Columbia University Medical Center in New York City. Dr. Campbell is fully trained in internal medicine, general surgery, and surgical critical care. He has been on the faculty at University of California, San Francisco based at San Francisco General Hospital for the past 23 years. His research and clinical interest have been the ICU care of trauma patients, acute lung injury after trauma, the abdominal compartment syndrome, and surgical education. Dr. Campbell is the one for most decorated surgical educators at UCSF. He has received numerous awards from medical school students at the School of Medicine. His educational accomplishments have been celebrated both locally at UCSF and nationally. He was recognized for his educational accomplishments as a founding member of the Haile T. Debas Academy of Medical Educators. In addition, in 2003, he was appointed Endowed Chair of Surgical Education at University of California, San Francisco for two five-year terms. He is in director of the third-year medical student undergraduate education program all the UCSF hospitals. Dr. Campbell has directed the Surgical Critical Care Fellowship at the University of California, San Francisco for 18 years and has trained many fellows who now practice trauma, surgical critical care and acute care surgery around the United States and the World. He has also served as Medical Director of the Trauma Intensive Care Unit at San Francisco General Hospital. He was selected to serve on the Verification Review Committee of the American College of Surgeons Committee on Trauma. In addition, he serves on the Board of Governors of the American College of Surgeons. He was given the honor of presenting “The Last Lecture 2016” at UCSF by a majority of students from all five graduate programs. Dr. Campbell is a master surgeon, teacher, mentor, clinical researcher, and clinical educator in the department of surgery at UCSF.
Klaus U. Klein, MD, MBA

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Klaus U. Klein, MD, MBA is an anesthesiologist and intensive care physician who specializes in how to avoid perioperative organ damage and to promote rapid recovery from surgery. Dr. Klein grew up in Frankfurt/Main in Germany and completed his undergraduate studies at Medical Schools in Erlangen-Nuremberg and Heidelberg-Mannheim. He completed his junior house officer rotation at The Royal London Hospital, Plymouth Hospitals and Torbay Hospital in the United Kingdom and his residency at Johannes-Gutenberg University Medical Center in Mainz, Germany. After having moved to the Medical University of Vienna, Austria, he became Associate Professor for Anesthesia and Critical Care Medicine. Dr. Klein’s research interests include injury of vital organs such as the lungs, heart, and brain in the perioperative setting. In particular, he is interested in unravelling the injurious effects of altered oxygen conditions (oxygen oscillations, hyperoxia) in acute lung injury and obstructive sleep apnea. Further, his research focuses on the protective effects of argon preconditioning on lungs and myocardium. Dr. Klein has an expertise in translational research environments, including cell culture experiments, small and large animal experiments and clinical research. Clinical interests include quality programmes, as well as economic and sustainability projects. Recent publications include manuscripts in the British Journal of Anesthesia, European Journal of Anesthesiology, Anesthesia and Analgesia and Shock. He is a peer reviewer for multiple anesthesia and critical care journals. Dr. Klein’s research efforts have earned him ongoing grants from the Austrian Science Fund FWF and the Major of the City of Vienna Scientific Fund. In 2022, Dr. Klein became Head of the Department of Anesthesiology at Sanatorium Hera in Vienna, Austria.
Johannes Leitgeb, MD, PhD

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Johannes Leitgeb, MD, PhD is specialized in cranio-cerebral and abdominal trauma. He grew up in Vienna and graduated at University of Vienna in 1997. He began his training as a resident at the Trauma department at Medical University of Vienna in 1999 and became a consultant in 2005. During his training he spent 6 months at the department of Trauma Surgery at the University of Capetown in the Groote Schuur Hospital (South Africa), where he earned extensive experience in blunt and penetrating abdominal trauma and surgery. In 2015, he qualified as an associate Professor at Medical University of Vienna and passed his Habilitation: „Untersuchungen zum Schädel-Hirn-Trauma in Österreich und seinen Nachbarstaaten“. He completed his PhD Studium (Public Heath) at University of Tranava in 2017 (PhD Defensio: “Economic effects of severe TBI”). In the year 2022 he had a guest professorship at Universities in Vietnam, Thailand and the Philippines. Johannes Leitgeb is currently at the Trauma department of Vienna Medical University and is in a managerial capacity: Head of task group Traumatic Brain Injury (TBI) of ÖGU (Austrian Society of Traumatology) and President of IGEH/INRO (Internationale Gesellschaft zur Erforschung von Hirntraumata / International Neurotrauma Research Organization). He lives in Vienna with his wife Kathi and his 4 children.
Daniel R. Margulies, MD, FACS

Professor of Surgery
Director, Trauma and Acute Care Surgery
Chief, Section of Trauma, Emergency Surgery & Surgical Intensive Care
Associate Director, Division of General Surgery
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Daniel R. Margulies, MD, FACS is the Chief, Section of Trauma, Emergency Surgery and Surgical Intensive Care at Cedars-Sinai Medical Center in Los Angeles, California. He is Professor of Surgery at Cedars-Sinai Medical Center and also Health Sciences Clinical Professor of Surgery at the University of California at Los Angeles David Geffen School of Medicine. He is board certified in general surgery and surgical critical care. Dr. Margulies earned his bachelor’s degree from Stanford University in mechanical engineering and earned his medical degree from the University of Hawaii John A. Burns School of Medicine, the in the state he grew up in. He completed his general surgery internship and residency at the University of Hawaii School of Medicine, followed by a Clinical Fellowship in Surgical Critical Care at Cedars-Sinai Medical Center. Dr. Margulies has been a staff physician and member of the faculty at Cedars-Sinai Medical Center, a Level I Trauma Center, for over twenty-five years. In his current role as Trauma Medical Director and Director of Acute Care Surgery he oversees trauma, emergency surgery and surgical critical care. Dr. Margulies is dedicated to professional organizations both regionally and nationally. He is an active member of the American College of Surgeons’ Committee on Trauma (COT) and recently served as Chairman of the Verification Review Committee. He is past President of the Southwestern Surgical Congress, and of the Southern California Chapter of the American College of Surgeons, past Chairman of the Southern California Committee on Trauma and past Commissioner for the State of California Emergency Medical Services Commission after serving as a Los Angeles County commissioner to the Emergency Medical Services. He is active in many societies and serves on the editorial board for The Journal of Trauma and Acute Care Surgery. In addition to his clinical and teaching interests as faculty of the general surgery residency program, and as past director of the Surgical Critical Care Fellowship at Cedars-Sinai, Dr. Margulies has a wide interest in surgical research in trauma and surgical critical care. He is widely published in peer-reviewed journals.
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Herbert Schöchl, MD is vice Director of the Department of Anesthesiology and Intensive Care Medicine at the AUVA Trauma Hospital Salzburg, Austria. Herbert Schöchl received his medical degree from the University of Innsbruck in 1984. He started with the anesthesia training at the University Hospital of Salzburg. He has undertaken several clinical posts, including staff anesthesiologist in both cardiac and vascular surgery at the University Hospital Salzburg. He spent 6 years as the vice-director of the emergency medical service in Salzburg and was also responsible for the rescue helicopter service for the area of Salzburg. Since 1998 he is appointed to at the AUVA Trauma Hospital in Salzburg. Additionally, he has a research contract at the AUVA Trauma Research Centre, the “Ludwig Boltzmann Institute of experimental and clinical Traumatology” in Vienna. His primary interest of research focuses on diagnoses and treatment strategies of trauma-induced coagulopathy. He developed hemostatic treatment algorithms based on visco-elastic test results. He is the author of over 150 publications and reviewer for major journals. Moreover, he is founding member of the Austrian task force for “perioperative coagulation management” of the Austrian Society of Anesthesiology and Intensive Care Medicine.
Julia Starlinger, MD, PhD is a trauma surgeon who specializes in the treatment of polytrauma patients as well as spine surgery. Dr. Starlinger grew up in Upper Austria and completed her undergraduate studies at Kremsmuenster Abbey School, Austria. She graduated from Vienna Medical School in 2010. During her medical school she spend one year at the Zürich Medical School, Switzerland. For her exceptional study achievements, she received an honor grant from the Medical University of Vienna twice. She completed her trauma surgery residency at Vienna General Hospital, which is a level-one trauma center and spent her fellowship training in spine surgery at the Orthopedic Hospital Speising, Vienna with Prof. Michael Ogon. She had further fellowship training on spine surgery at the BGU Frankfurt/Main, Germany under the guidance of Prof. Kandziora, which was supported by an AO spine fellowship grant. Dr. Starlinger’s research interests include bone biology, biology of fracture healing and pathophysiology of fracture non-union. She did her PhD in the program „bone and joint regeneration“ investigating the role of various cytokines during human fracture healing. Dr. Starlinger’s research efforts have earned her grants, e.g. from the Medical Scientific Fund of the Mayor of the City of Vienna. She is a peer reviewer for several orthopedic journals. Dr. Starlinger is currently holding a faculty position at the Medical University of Vienna as Consultant for Trauma Surgery. She lives in Vienna with her husband Patrick.
Patrick Starlinger, MD, PhD, FEBS (HPB) is a general surgeon at the Medical University of Vienna with a prime interest in hepatobiliary, pancreatic and colorectal surgery. While he did most of his training in Austria, he additionally is liver and pancreas surgery fellowship trained at Mayo Clinic, Rochester, MN and still holds an ongoing research position there. He is further European Board of Surgery certified in liver and pancreas surgery. His training also led him to Stanford University, CA as well as Switzerland. He was awarded several awards for his research activities as well as teaching skills. His clinical practice includes complex abdominal surgical oncology, but also a significant amount of acute care surgery. In addition to his busy clinical practice, he is leading a translational research group with a prime interest in liver regeneration and neoplastic liver disease. His total amount of acquired funding for his research exceeds $4000000 and is documented in multiple high-impact publications. Given his translational research focus, he established a network to reliably investigate blood and tissue parameters of patients undergoing liver resection. Importantly, he has gained extensive experience in systematic high-quality bio-banking of patient blood and tissue to perform RNA, DNA and protein analyses. Secondly, he has established national as well as international collaborations (experimental as well as clinical). He has been elected as a member of the clinical research team the European Society of Surgical Oncology (ESSO) and am participating in multinational clinical trials. At this point in time, he is general surgery faculty at the medical university of Vienna and holding an Assoc. Prof. Position.
George C. Velmahos, MD, PhD, MEd, FACS, FCCM, MCCM, FRCS, FRCPS is the John F. Burke Professor of Surgery at Harvard Medical School and the Chief of the Division of Trauma, Emergency Surgery, and Surgical Critical Care at the Massachusetts General Hospital in Boston, Massachusetts, USA. He received his medical degree and a doctorate from the University of Athens Medical School in Athens, Greece. He also has a Masters in Medical Education from the University of Southern California. He is a Fellow of the American College of Surgeons, American College of Critical Care Medicine, Royal College of Surgeons of Edinburgh, and Royal College of Physicians and Surgeons of Glasgow. He is the Trauma Program Leader for the Center for Integration of Medicine with Innovative Technology (CIMIT), and the Founder of the Center for Early Trauma Research at Massachusetts General Hospital. He is also an Honorary Professor of Surgery at the University of Witwatersrand (Johannesburg, South Africa), the Aristoteleion University of Thessaloniki (Salonica, Greece), and the University of Thessalia (Larissa, Greece). Dr. Velmahos belongs to multiple surgical societies and has chaired numerous committees. He serves as an Editor of Current Trauma Reports and Associate Editor or member of the Editorial Board in nearly all major surgical journals. He received the honorary title of Master of Critical Care from the Critical Care Society. Dr. Velmahos has published over 500 peer-reviewed articles, over 70 books and book chapters, and scores of other publications. He is the Director of multiple educational courses, including the annual Harvard Trauma and Critical Care Symposium.
Gerald E. Wozasek, MD

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Gerald E. Wozasek, MD is an orthopedic surgeon, traumatologist and sports medicine doctor, who is a full professor and senior faculty member at the Department of Orthopedics and Traumatology at the Medical University Vienna in Austria. Dr. Wozasek is the Director of the Service for Posttraumatic Deformity and Limb Reconstruction. He graduated from the University Innsbruck School of Medicine and completed his residency in traumatology in Linz and Vienna. His fellowship training in Orthopedics was in Switzerland (Zuerich, St. Gallen) and Louisville (Kuentscher fellowship). Furthermore, he was a visiting Professor at the Department of Orthopedic Surgery, Wake Forest University in Winston-Salem/North Carolina. Dr. Wozasek's research interests include deformity treatment and bone reconstruction. Recent publications include the new technique of intramedullary telescopic limb lengthening especially of the humerus. He is a peer reviewer for the journal "Injury". His scientific work includes 249 publications and book chapters. Additionally, he is team doctor of the Austrian National Skiing Team.
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OMI VOICES

“Dr. Velmahos’ lecture about pelvic bleeding was followed by a great discussion about the management of penetrating abdominal injuries and whether it should be done using conservative treatment or surgical intervention.”

Mohammed Salam Mohammed Abdunbulu, MD
OMI fellow from Qatar

“We covered a variety of topics and even if our fields of interest differ, ultimately our skill set as general, orthopedic, or trauma surgeons intersect when it comes to trauma and emergency management. This week, many life-saving tips and tricks were shared, and those little things can totally alter the outcome of an entire treatment.”

Justyna Zagaj, MD
OMI fellow from Poland

“The chest wall reconstruction lecture by Dr. Winchell was particularly helpful, as I often have patients requiring this service and many books do not have very clear guidelines on what to do and how to do it.”

Perfector Mulenga Katongo, MD
OMI fellow from Zambia
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