



OPEN MEDICAL INSTITUTE

SEMINAR REPORT

PEDIATRIC EMERGENCY MEDICINE

November 27 – December 3, 2022

A Global Educational Initiative by the
American Austrian Foundation

TABLE OF CONTENTS

1. GROUP PHOTO
2. SCHEDULE
3. FACULTY BIOGRAPHIES
4. FELLOWS' CONTACT INFORMATION
5. DIARY

SALZBURG CHOP SEMINAR IN PEDIATRIC EMERGENCY MEDICINE

November 27 – December 3, 2022

33 fellows from 29 different countries
5 faculty members from the USA and Austria
20 lectures given by faculty
33 interesting case presentations by fellows
6 excellent case presentations by fellows
1 Simulations & Procedures Workshop in cooperation with Laerdal

Group Photo of Faculty and Fellows





Salzburg CHOP Seminar in Pediatric Emergency Medicine Sunday, November 27 – Saturday, December 3, 2022



		Sunday 27.11.2022	Monday 28.11.2022	Tuesday 29.11.2022	Wednesday 30.11.2022	Thursday 01.12.2022	Friday 02.12.2022	Saturday 03.12.2022	
07:00	08:00		BREAKFAST	BREAKFAST	BREAKFAST	BREAKFAST	BREAKFAST	DEPARTURES	
08:00	09:00		Introductions Pre-Seminar Test	Anaphylaxis Ellen Szydlowski, MD	Head Injury: Concussion and Judicious Use of CTs Richard J. Scarfone, MD	Approach to the Sick Neonate Archana Verma, MD	Burn Management Ellen Szydlowski, MD		
09:00	10:00		Febrile Young Infant Richard J. Scarfone, MD	Upper Airway Obstruction Nicholas Tsarouhas, MD	Cervical Spine Trauma Archana Verma, MD	Respiratory Emergencies: Asthma and Bronchiolitis Richard J. Scarfone, MD	Red, Swollen Eye Richard J. Scarfone, MD		
10:00	10:30		COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK		
10:30	11:30		Status Epilepticus Nicholas Tsarouhas, MD	Selection of Intubation Medications Nicholas Tsarouhas, MD	Pediatric Rashes Ellen Szydlowski, MD	Newborn Life Support: What's New? Burkhard Simma, MD	Surgical Emergencies Richard J. Scarfone, MD		
11:30	12:30		Covid-19 MIS-C and Kawasaki Disease Archana Verma, MD	Pediatric Intubation Technique Archana Verma, MD	Sepsis Guidelines Burkhard Simma, MD	Limp Nicholas Tsarouhas, MD	Transport Medicine Nicholas Tsarouhas, MD		
12:30	14:00		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH		
14:00	15:00		Hand Emergencies Ellen Szydlowski, MD	Simulations & Procedures Workshop Ellen Szydlowski, MD Archana Verma, MD Burkhard Simma, MD	Free Afternoon	Workshop Fellows' Case Presentations Richard J. Scarfone, MD Nicholas Tsarouhas, MD Burkhard Simma, MD	Post-Seminar Test Evaluation & Discussion		
15:00	16:00	Minor Procedures Workshop Ellen Szydlowski, MD							
16:00	17:00	Minor Procedures Workshop Archana Verma, MD							
17:00	18:00		<i>17:00 - 17:15</i> OMI Presentation						
18:00	19:00	FACULTY MEETING TO REVIEW THE WEEK			DINNER		FAREWELL RECEPTION		
19:00	20:00	WELCOME RECEPTION & DINNER	DINNER	DINNER		DINNER	GRADUATION DINNER Certificates Awarded		
20:00	21:00					<i>20:30 - 21:30</i> CHAMBER MUSIC CONCERT			

Learning Objectives for Participants

At the conclusion of this seminar, the participant should be better able to:

1. Recognize and manage common medical emergencies in Pediatric Emergency Medicine.
2. Distinguish life threatening surgical emergencies in infants and children, from medical emergencies.
3. Understand the optimal strategies to manage pediatric trauma.
4. Manage resuscitative emergencies in critically ill infants and children.
5. Perform uncomplicated procedures in pediatric patients.

ACCME Accreditation Statement

Children's Hospital of Philadelphia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA Credit Designation Statement

Children's Hospital of Philadelphia designates this live activity for a maximum of 28.25 *AMA PRA Category 1 Credits*[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.



OPEN MEDICAL INSTITUTE

FACULTY BOOKLET

PEDIATRIC EMERGENCY MEDICINE SEMINAR IN SALZBURG

November 27 – December 3, 2022

A Global Educational Initiative by the
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 Zuckermandlpreis 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 New York 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 a 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.



**Nicholas Tsarouhas, MD
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Nicholas Tsarouhas, MD is an Attending Physician in the Pediatric Emergency Department at the Children's Hospital of Philadelphia (CHOP). He also serves as Medical Director of the Emergency Transport Team. Each year, the CHOP Transport Team transports over 5,000 ill and injured patients to CHOP by ground ambulance, rotor wing helicopter, and fixed wing airplane. The Transport Team retrieves patients locally, nationally, and internationally. In addition to his clinical duties, Dr Tsarouhas holds several other administrative duties at CHOP. He serves as the Chairperson of CHOP's Credentials Committee in charge of Physician Credentialing. He also has leadership roles in committees dedicated to Emergency Response, Capacity Management, and Clinical Communications. Dr. Tsarouhas' training included a three-year Pediatric Residency and then a three-year Pediatric Emergency Medicine Fellowship at CHOP. After fellowship, he was recruited by a non-pediatric hospital to create a separate Pediatric Emergency Department distinct from their "Adult" Emergency Department. Five years later, after successfully accomplishing this goal, he returned to CHOP to serve as an attending physician in the Pediatric Emergency Department. He is the recipient of several awards including the Senior Resident Humanitarian Award, the David Cornfeld Bedside Teaching Award, the Faculty Teaching Award, and the Blockley-Osler Teaching Award. His academic appointment is Professor of Clinical Pediatrics at the Perelman School of Medicine at the University of Pennsylvania.

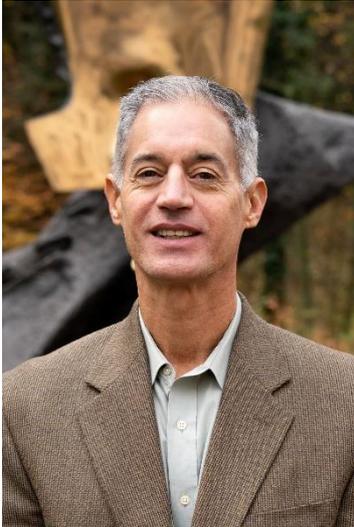


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Burkhard Simma, MD was born in Austria and completed his education at the Medical University of Innsbruck in Austria, graduating in 1983 as a medical doctor. He did his residency and fellowship in Pediatrics at the Children's Hospital of Innsbruck and trained in Neonatology and Neonatal Intensive Care Medicine in 1990. Dr. Simma was a Consultant at the Neonatal and Pediatric Intensive Care Unit of the Children's Hospital of Zürich, Switzerland (Director: PD Dr. S. Fanconi) between 1990 and 1992, a Consultant in the Neonatal and Pediatric Intensive Care Unit, and Director of the Neonatal Emergency Transport System at the Children's Hospital of the University of Innsbruck between 1992 and 2000. In 1994, he became a specialist in Intensive Care Medicine. He did a sabbatical in Australia at the Pediatric Intensive Care Unit, Royal Alexandra Hospital for Children in Sydney and Royal Children's Hospital in Melbourne. He is a member of several societies and Boards. Dr. Simma's main research interests are high frequency oscillation, head injury and hypertonic saline in children, cardiac output in mechanically ventilated children, resuscitation, and infant lung function testing. Dr. Simma has been a professor in pediatrics since 1999 and has been the head of the Children's Hospital, University Teaching Hospital Feldkirch, Austria since 2000. In January 2009, he was awarded the title of Professorship from the President of Austria.



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Richard J. Scarfone, MD is a Pediatric Emergency Medicine (PEM) physician at the Children's Hospital of Philadelphia (CHOP). Originally from New York City, he is a graduate of the Buffalo School of Medicine and completed pediatric residency training and a fellowship in PEM at the Children's Hospital of Pittsburgh. Dr. Scarfone is currently the Program Director of CHOP's PEM fellowship and the Medical Director of Emergency Preparedness for the division of emergency medicine at CHOP. Dr. Scarfone has won several teaching awards, including the Victor C. Vaughan Award for excellence in teaching, awarded by the house staff at St. Christopher's Hospital for Children, and the Faculty Teacher of the Year Award, awarded by the house staff at CHOP. Dr. Scarfone's principal educational interest is the impact of cognitive errors in medical decision-making. He co-leads CHOP's Center for Diagnostic Excellence.



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Ellen Szydlowski, MD is an Associate Professor of Pediatrics at the Perelman School of Medicine at the University of Pennsylvania. She works as an attending physician in Pediatric Emergency Medicine at both the large academic Children's Hospital of Philadelphia and one of their community affiliates in New Jersey. She is the Director of Procedural Education for the Division of Emergency Medicine and organizes multiple workshops throughout the year, educating medical students, residents, fellows, and attendings. In addition to her clinical duties, Dr. Szydlowski is Chair of the Faculty Recruitment Committee for the Division of Emergency Medicine and is the co-director of the annual CHOP Pediatric Emergency Medicine Course. Her other interests include being the Orthopedics liaison for the ED and chairing the ED/Orthopedics Quality Improvement committee. Additional QI initiatives include reviewing repeat ED visits that result in admission which most recently led to a manuscript that was published in *Pediatric Emergency Care*. Dr. Szydlowski received her medical degree from Jefferson Medical College and then completed a combined Internal Medicine-Pediatric residency at the University of Rochester, followed by a Pediatric Emergency Medicine fellowship at the University of Pittsburgh. She has been at CHOP for the past eight years.



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Archana Verma, MD is an Associate Professor of Pediatrics at the Perelman School of Medicine at the University of Pennsylvania. She works as an attending physician in Pediatric Emergency Medicine at both the large academic Children's Hospital of Philadelphia (CHOP) and their community affiliate hospital in New Jersey. She serves as Co-Director of the Pediatric Emergency Medicine Fellowship Program at CHOP as well as Co-Director of Pediatric Emergency Medicine Education at the New Jersey affiliate hospital. In addition to her clinical duties, Dr. Verma is active in the division's diversity, equity, and inclusion efforts. She also spends her academic time contributing to resident orientation and simulation activities, and particularly enjoys procedural education for residents and advanced practice providers. Dr. Verma received her medical degree from The State University of New York – Downstate Medical Center and then completed Pediatric Residency at the Children's Hospital of Montefiore, Albert Einstein College of Medicine, followed by a Pediatric Emergency Medicine Fellowship at Jacobi Medical Center, Albert Einstein College of Medicine. Dr. Verma has been at CHOP for the past eight years. She currently lives in Princeton, NJ with her husband Eric, son Deven (age 10), and daughter Sarina (age 6).

Fellow Booklet

Pediatric Emergency Medicine



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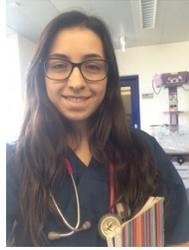
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DIARY



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Sunday, November 27, 2022

I arrived in Salzburg on a beautiful, sunny day. The city looked wonderful with its classical architecture, fortress, and mountains that mark the unique character of this place. The park around Schloss Arenberg was decorated in autumn colors. In the evening, we gathered in the lobby and met the faculty members. It was a nice time to start a conversation with colleagues from other countries. This is how I met extraordinary people from Ukraine, Poland, and Greece.

Monday, November 28, 2022

The seminar started in the lecture hall with a pre-seminar test, after which we all introduced ourselves with a bit of information regarding our basic background and where we work. Questions in the pre-seminar test made me analyze many aspects of pediatric practice. Therefore, the seminar program was even more attractive due to the diversity of information that was to be presented. In the following hours, lecturers presented essential aspects in the

management of the young infant with fever, of a child with convulsions, and complicated forms of COVID-19 in a child. During the second part of the day, the program was completed by an interactive session during which we were trained in minor procedures for hand injuries/emergencies. It was great to learn how to save a ring without cutting the finger!

Tuesday, November 29, 2022

Today was dedicated to major emergencies and the technique of intubating a pediatric patient. Lectures about anaphylaxis reinforced my knowledge in the field of severe allergic reactions, which is very important for any clinician to know. A hands-on workshop was organized for the second part of the day. Simulations included procedures such as chest compressions in an infant, an adult, newborn, and toddler intubation procedures. Using the video visualization of the intubation process was a new way of training for me, which significantly eases the maneuver. Later, I participated in complex simulations on the manikin where we worked as a team. I learned about role distribution, the decision-making process, and management of the critically ill patient.

Wednesday, November 30, 2022

We learned about head trauma, cervical spine trauma, rashes in children, and sepsis management in a pediatric patient. Each lecture included examples from clinical practice and clinical cases, therefore all the information was applicable and close to daily practice. In the afternoon, I went with my colleagues to the city where we walked the streets that are decorated for Christmas, enjoyed traditional sweets, admired the Christmas market, and bought souvenirs for our loved ones. At the same time, we discussed medical practice in our countries and what can be improved after we return back home.

Thursday, December 1, 2022

We began with a series of interesting lectures on the management of the critically ill newborn, emergency care in childhood asthma and bronchiolitis, and aspects of the differential diagnosis in children that limp. The second part of the day was marked by the presentation of clinical cases by fellows, which were interesting because there were cases from different countries. Some of them were rare, but some of them are from daily practice, such as one that explained about acetaminophen poisoning in an adolescent girl, which may be frequent but often mistaken. I enjoy hearing case presentations because you see different approaches in different countries that have various level of resources. This extremely interesting day finished with a real delight, an evening concert presented by young but very talented musicians. Afterwards, I had the wonderful opportunity to visit with my colleagues and new friends during a small cocktail reception. We took many pictures with colleagues and faculty members!

Friday, December 2, 2022

The morning began with a series of highly interesting lectures on pediatric burns, eye pathology, surgical emergencies, and important aspects of the transportation of pediatric patients with medical emergencies. This was a great week. I learned many new things from different areas of the world as well as the latest guidelines in Pediatric Emergency Medicine. The new knowledge will certainly change and improve my practice. In addition, I had the

opportunity to meet new friends, to learn traditions, and hear about how things are done in other countries. As I depart, I know that I learned important information for my practice, made new friendships, and built a network!



Amma Akyere Ekem, MBChB
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Sunday, November 27, 2022

I had a very stressful week back at home just before my trip to Austria, So I was looking forward to getting away as well as the entire experience itself. After two plane rides and a three-hour train ride, I finally arrived in Salzburg! Although tiring, the trip was exciting. We were met by the OMI staff and faculty upon arrival, with a welcome reception and cocktail hour later in the evening. Everyone was welcoming and helpful. It was also interesting to see how diverse our backgrounds were and humbling to know that out of about 350 applicants, 34 of us had been chosen.

Monday, November 28, 2022

The first day was quite intense, but generally thrilling. I was particularly nervous about the pre-seminar test, but we were told everyone had passed the test, which was great to hear! I enjoyed every single lecture and felt extremely proud of my home institution, because I realized that although we have limited resources back home, a large proportion of what we do is on par with other well-developed countries. The minor procedures workshop was very engaging. I got to use an intraosseous gun, which we do not have back at home. So far, another great aspect has been the food! I'm probably going to put on a few extra kilos by the end of the week.

Tuesday, November 29, 2022

I particularly enjoyed today's lectures on "upper airway obstruction, pediatric intubation techniques, and selection of intubation drugs. The latter especially made me appreciate how new research had debunked some old theories I had previously been taught. One new skill I learned was the Larson maneuver. We also had the simulation and procedures workshop which was extremely beneficial to me. A few of us visited the Salzburg Christmas market, and it felt good to bond with each other.

Wednesday, November 30, 2022

The highlight of my day was spending time with some of the other participants during our free afternoon. We took a walk downtown and visited the castle as well as Mozart's birthplace. I got to purchase a few items for my family back at home.

Thursday, December 1, 2022

I think today was one of my favorite aspects of the seminar. It was both eye-opening and stimulating to listen to the various cases presented by my colleagues. The Chamber music concert was beautiful and refreshing.

Friday, December 2, 2022

It's been a fantastic week, and I'm grateful I got to be a part of it! The main thing I'm taking back home with me is the need to get involved in data collection and research. It's been a great cultural experience and I can't wait to come back another time!



Christian Umuhoza, MD
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Sunday, November 27, 2022

While waiting for the other participants, I decided to visit Salzburg city on my own, which was really amazing. It was around 7:00 pm when I attended the first meeting between OMI staff, the faculty, and all participants who came from all over the world. I was so excited to meet such incredible clinicians with different cultural backgrounds. The speeches from the leadership and faculty were warm, encouraging, and pleasant. The official dinner that followed was nice and I had the opportunity to meet and interact with other participants, exchanging our clinical experiences, ideas, and points of views.

Monday, November 28, 2022

We started the day with a warm welcome from Dr. Nicholas Tsarouhas, followed by the pre-seminar assessment. Afterwards, we started with lectures, the first being on “the febrile young infant”, by Dr. Richard J. Scarfone. This topic is one of the most challenging for pediatric clinicians worldwide. The presentation was very methodical, detailed, easy to understand, and the information was up to date. The second presentation was a delight and was given by Dr Nicholas Tsarouhas. The “what, how, why” in relation to “pediatric status epilepticus” were discussed and addressed in detail. The coffee break that followed was pleasant. The next lecture on Kawasaki disease versus MIS-C (by Dr. Archana Verma) was able to resolve the dilemma on which clinical aspects and/or complementary examinations to consider while

differentiating these two entities. The lunch was a delight and the afternoon started and closed with very interesting teaching sessions including a lecture on the management of pediatric hand emergencies (by Dr. Ellen Szydlowski) followed by practical session on the insertion of intraosseous line, how to get a ring off when it is stuck on a finger, how to perform a digital/hand nerve block, how to change deficient or blocked tracheostomy or gastrostomy tubes, and how to perform a finger trephination in case of subungual hematoma. In the evening, I had the opportunity to work out in the gym at Schloss Arenberg for almost 45 minutes. The evening meal was delicious and I had the opportunity to chat with colleagues from other countries such as Ghana, Ethiopia, Serbia, Mexico, Estonia, Hungary, South Africa, and Nigeria.

Tuesday, November 29, 2022

The day began with the management of anaphylaxis in children (by Dr. Szydlowski). The role of epinephrine in the management was recalled and emphasized. Next came the lecture on upper airways obstruction by Dr. Tsarouhas; the infectious and non-infectious causes of this dreadful entity were redefined with a captivating clarity. The coffee break was convivial and followed by the third and fourth lectures presented by Dr. Tsarouhas and Dr. Verma successively; they covered the most common indications and contraindications of sedatives, paralytics, and the pediatric intubation procedure. The role of adjunct airways devices/maneuvers such as oropharyngeal airways, nasopharyngeal airways, laryngeal masks, CPAP, BiPAP, high nasal flow, bag and mask valve, and anesthesia bag-mask was discussed in detail. The afternoon was reserved for simulations. We covered different scenarios including the management of the sick child with signs of life, the collapsed infant/child, the pediatric trauma patient, the video guided intubation, pediatric and adult CPR using high fidelity mannequins (able to deliver real-time feedback), and honestly, I think that the experience was among the most thrilling and rewarding I have ever had in my whole medical training and career. We closed the day with a surprise-visit to the Christmas market, which left all of us amazed.

Wednesday, November 30, 2022

The first lecture of the day covered pediatric head trauma (Dr. Scarfone). Controversies about concussion definition, pathophysiology, who should get a head CT scan, when to return to play and to school were clearly explained and up to date recommendations were discussed. The second lecture covered the challenging topic of cervical spine trauma and was given by Dr. Verma. The role of the clinical exam was emphasized, and I learned the indications related to imagery exams. The third topic was on pediatric rashes with Dr. Szydlowski, and I was challenged with unusual, rare rashes such as Covid toes, Pernio (it was the first time I had heard about it, because in my country, cold weather is not common). The last topic of the day was on the very interesting topic of pediatric sepsis. I enjoyed the lecture a lot and was reminded again of the importance of clinical signs, the role of fluid, which fluid to choose, how much to give, and how to provide the fluid. I learned the four failures that lead to increased mortality in case of pediatric sepsis and what should be done to prevent that mortality. Lastly, I used my free afternoon for shopping with friends and visiting the Hohensalzburg Fortress as well as Mozart's birth house. The experience was unique and wonderful!

Thursday, December 1, 2022

I started the day with a great workout session in the Schloss' gym. At 8:00 am, our first lecture covered a very interesting presentation on rare inborn error metabolism (by Dr. Verma) that reminded me to always think outside the box and always be systematic in my clinical approach toward a sick pediatric patient. The lecture on lower airway emergencies followed (presented by Dr. Scarfone) and reminded me that MDI through spacer can work as well as nebulization for mild to moderate asthma, that dexamethasone is not inferior to prednisone in the treatment of asthma and that fluid and oxygen therapy, if needed, are generally enough for the classic bronchiolitis. The lecture on neonatal resuscitation (Dr. Simma) was very interesting and covered the most updated recommendations regarding neonatal resuscitation: which initial pressure to use, the indication of additional oxygen, the role of laryngeal mask and glucose in resuscitation, and the non-utility of routine suctioning in case of meconium for a non-vigorous neonate. Dr. Tsarouhas covered two cases of children with a limp, and it left me speechless due to the quality of his presentation style and skills, but also due to the complexity and uniqueness of the cases presented. The afternoon was for participants' cases presentations and each participant presented a case. This was the best moment of the day; I personally learned a lot and I had the opportunity to learn from and share experiences with colleagues from all over the world. The evening was crowned by a wonderful chamber music concert, which was held at Schloss Arenberg just for us! We ended the evening late after fruitful networking with a cup of wine or juice, generously offered by the OMI.

Friday, December 2, 2022

The last day of the seminar. The first two topics covered two interesting topics on burn management and red and swollen eyes. The importance of clinical signs and proper management was again highlighted. I learned a lot in these five days. I was reminded of the importance of taking proper patient history when working in an emergency department/unit. The importance of a well detailed physical exam was emphasized, and I learned to always think outside the box while managing critically ill patients. At the same time, I learned that routine does not always mean better; evidence should also be incorporated and implemented into my daily practice. However, the context should also be considered before coming to the final clinical decision. The faculty was engaging, experienced, and I really enjoyed their teaching style and approach. They didn't consider us as "students", they considered us as colleagues. I am willing and eager to go back to my home country and put into action what I learned through these workshops. I tasted multiculturalism through this seminar, and I really enjoyed meeting these incredible clinicians from all over the world. Salzburg gave me one of the most memorable and beautiful experiences of my life. The OMI gave me a unique networking experience and I gained new colleagues, new friends, new mentors, a new family, and new perspectives. Mwarakoze cyane (Thank you so much) OMI!