



OPEN MEDICAL INSTITUTE

SEMINAR REPORT

PEDIATRIC ANESTHESIA AND CRITICAL CARE

January 16-22, 2022

A Global Educational Initiative by the
American Austrian Foundation

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SALZBURG CHOP SEMINAR IN PEDIATRIC ANESTHESIA AND CRITICAL CARE

January 16-22, 2022

34 fellows from 22 different countries
--

5 faculty members from the United States of America and Austria

21 lectures given by faculty

33 interesting case presentations by fellows
--

4 excellent case presentations by fellows

Group Photo of Faculty and Fellows





Salzburg CHOP Seminar in Pediatric Anesthesia and Critical Care Sunday, January 16 – Saturday, January 22, 2022



		Sunday 16.01.2022	Monday 17.01.2022	Tuesday 18.01.2022	Wednesday 19.01.2022	Thursday 20.01.2022	Friday 21.01.2022	Saturday 22.01.2022	
07:00	08:00		BREAKFAST	BREAKFAST	BREAKFAST	BREAKFAST	BREAKFAST	DEPARTURES	
08:00	09:00		Introductions Pre-Seminar Test	Hemolytic Uremic Syndrome Siegfried Roedl, MD	Lymphatic Imaging and Intervention in the 21st Century Aaron G. DeWitt, MD	Anesthesia-Induced Hypotension in Neonates Heather A. McClung Pasqualino, MD	Trauma and Traumatic Brain Injury in Children Justin L. Lockman, MD, MSEd		
09:00	10:00		Critical Care for the Anesthesiologist Justin L. Lockman, MD, MSEd	Ultrasound Evaluation of Shock and Hypotension Elaina E. Lin, MD	Plasmapheresis Siegfried Roedl, MD	Sedative Strategies for Patients with Cardiac Disease after Cardiac Surgery Aaron G. DeWitt, MD	Pediatric Burn Trauma Heather A. McClung Pasqualino, MD		
10:00	10:30		COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK		
10:30	11:30		Volume Treatment in Circulatory Compromised Patients Siegfried Roedl, MD	Management of the Pediatric Difficult Airway Elaina E. Lin, MD	Cardiac ICU Potpourri Aaron G. DeWitt, MD	Anesthesia for In-Utero Surgery Elaina E. Lin, MD	Pediatric Procedural Sedation Outside of the Operating Room Heather A. McClung Pasqualino, MD		
11:30	12:30		Medication Safety Heather A. McClung Pasqualino, MD	Neonatal Anesthesia Justin L. Lockman, MD, MSEd	Renal Replacement Therapy Siegfried Roedl, MD	An Approach for Difficult Conversations and Strong Emotions Aaron G. DeWitt, MD	Controversies and Overdose in Pediatric Anesthesia Justin L. Lockman, MD, MSEd		
12:30	14:00		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH		
14:00	15:00		Pediatric Point of Care Ultrasound Elaina E. Lin, MD	Workshop Fellows' Case Presentations Justin L. Lockman, MD, MSEd Elaina E. Lin, MD	Free Afternoon	Workshop Fellows' Case Presentations Heather A. McClung Pasqualino, MD Aaron G. DeWitt, MD	Post-Seminar Test Evaluation & Discussion		
15:00	16:00	Workshop How to Present a Case Case Presentations by Faculty to Fellows							
16:00	17:00	Justin L. Lockman, MD, MSEd Heather A. McClung Pasqualino, MD							
17:00	18:00		<i>17:00 - 17:15</i> OMI Presentation						
18:00	19:00	FACULTY MEETING TO REVIEW THE WEEK					FAREWELL RECEPTION		
19:00	20:00	WELCOME RECEPTION & DINNER	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. Review topics affecting the care and safety of critically-ill pediatric patients in both the intensive care unit and the operating room.
2. Explain the unique challenges of caring for neonates requiring general anesthesia.
4. Discuss models and techniques for sedation of pediatric patients outside of the operating room.
5. Recognize the value of point of care ultrasound techniques in diagnosing common critical care emergencies.

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 **20,25** *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 ANESTHESIA AND CRITICAL CARE SEMINAR IN SALZBURG

January 16-22, 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 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 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 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.



**Heather A. McClung Pasqualino, MD
(Course Director)**

Associate Medical Director, Radiology Anesthesia Sedation Services

Department of Anesthesiology and Critical Care Medicine
Children's Hospital of Philadelphia

Assistant Professor of Clinical Anesthesiology and Critical Care

Perelman School of Medicine at University of Pennsylvania

3401 Civic Center Boulevard

9th Floor, Suite 9329/General Anesthesia Division

Philadelphia, PA 19104

USA

Phone: +1-215-327-9648

Fax: +1-215-590-1415

Email: mcclungh@chop.edu

Heather McClung Pasqualino, MD is currently a pediatric anesthesiologist at the Children's Hospital of Philadelphia. Dr. McClung is from the Philadelphia area and graduated from LaSalle University in Philadelphia, Pennsylvania where she also played for the LaSalle University women's soccer team. She worked for SmithKline Beecham Pharmaceuticals Department of Bone and Cartilage Biology before attending Johns Hopkins Medical School in Baltimore, Maryland. Dr. McClung completed residency training in anesthesiology at The Hospital of the University of Pennsylvania and a fellowship in pediatric anesthesia at The Children's Hospital of Philadelphia. She spent the first 10 years of her pediatric anesthesia career at St. Christopher's Hospital for Children in Philadelphia which is also the area's regional burn treatment center. Dr. McClung subsequently returned to join the faculty of The Children's Hospital of Philadelphia (CHOP) where she has been the Associate Medical Director for Radiology Anesthesia Sedation Services as well as serving in many other operational and quality improvement roles within the department. Her interests are non-operating room anesthesia (NORA) as well as quality improvement and medication safety. She lives outside of Philadelphia with her husband, Dominic, and their two sons who keep her very busy with basketball games.



**Justin L. Lockman, MD, MEd
(Co-Course Director)**

Associate Chair, Education
Department of Anesthesiology and Critical Care Medicine
Children's Hospital of Philadelphia
Associate Professor of Clinical Anesthesiology and Critical Care
Perelman School of Medicine at University of Pennsylvania
3401 Civic Center Boulevard
Wood Building, Suite 6026A/Critical Care Medicine
Philadelphia, PA 19104
USA

Phone: +1-267-426-0669
Fax: +1-215-590-1924
Email: LockmanJ@chop.edu

Justin Lockman, MD, MEd is a pediatrician and anesthesiologist who specializes in pediatric critical care and pediatric anesthesiology. Dr. Lockman grew up outside of Washington, DC (in the State of Maryland) as one of seven children in his family. After graduating from The College of William and Mary in Williamsburg, Virginia, Dr. Lockman attended medical school at Vanderbilt University in Nashville, Tennessee. He subsequently completed residency training in general pediatrics as well as anesthesiology before completing fellowship training in both pediatric anesthesia and pediatric critical care – all at Johns Hopkins Hospital in Baltimore, Maryland. After joining the faculty of Children's Hospital of Philadelphia (CHOP) in Philadelphia, Pennsylvania in 2011, Dr. Lockman completed a master's degree in medical education. He spent years as the Pediatric Anesthesiology Fellowship program director at CHOP, and for several years now has served as Associate Chair for Education for the Department of Anesthesiology and Critical Care Medicine at CHOP. Dr. Lockman's research interests include medical education, simulation-based learning, and professionalism in medicine. He is a peer reviewer for several journals in his fields of expertise, and he also serves on the Board of Directors for the Society for Pediatric Anesthesia. He lives outside of Philadelphia with his wife, Meghan, and their two children, Sam and Penelope, all of whom have travelled to Salzburg with him this week. And he spends all of his spare time playing piano in a jazz trio.



**Siegfried Roedl, MD
(Co-Course Director)**

Professor of Pediatrics
Pediatric Intensive Care Unit
Department of Pediatrics
University Hospital Graz
Auenbruggerplatz 34
8036 Graz
Austria

Phone: +43-664-9319139
Fax: +43-316-385-14824
Email: siegfried.roedl@medunigraz.at

Siegfried Roedl, MD completed his medical studies at the Karl Franzens University Graz, Austria and did his residency training at the University Hospital Graz, Austria. He also studied computer engineering at The Technical University of Graz. Dr. Roedl has been a staff member of the Pediatric Intensive Care Unit at the University Hospital Graz, Austria since 1998. He has managed and studied extracorporeal treatments in pediatric patients. This includes renal replacement treatment by the means of CAPD and HDF (involving him in the pediatric kidney transplantation program as a pediatric intensivist), plasmapheresis (involving him in the long-term treatment of these patients with immunosuppression), ECMO and cardiac support with the Berlin heart device, as well as treatment of patients with multi organ system failure in the Pediatric Intensive Care Unit. Dr. Roedl is currently Professor of Pediatrics and head of the 12-bed Pediatric Intensive Care Unit of the Department of Pediatrics, Medical University of Graz, Austria.



Aaron G. DeWitt, MD

Assistant Professor of Clinical Pediatrics and of Clinical
Anesthesiology & Critical Care
University of Pennsylvania Perelman School of Medicine
Children's Hospital of Philadelphia
The Cardiac Center
3400 Civic Center Blvd., 8NE50
Philadelphia, PA 19104
USA

Phone: +1-267-353-2108
+1-215-590-2367
Fax: +1-215-590-5824
Email: dewitta@chop.edu

Aaron DeWitt, MD is a pediatric cardiologist who specializes in the critical care of neonates and children with congenital & acquired heart disease and adults with congenital heart disease. Dr. DeWitt grew up in Hudson River Valley of Upstate New York. He completed his undergraduate studies at Dartmouth College in Hanover, New Hampshire before returning to his home state of New York to attend medical school at the University of Rochester in Rochester, NY. After graduating, he remained in Rochester, NY for his internship, residency, and chief residency in pediatrics. Finally, his training took him to Ann Arbor, Michigan for pediatric cardiology fellowship following which he was the Samara Mendu fellow in cardiac critical care. Since 2014, he has been assistant professor in the division of cardiac critical care medicine and The Children's Hospital of Philadelphia and Perelman School of Medicine. Dr. DeWitt's research, educational, and quality improvement interests include neonates with critical heart disease, palliative care in pediatric heart patients, and improving care delivery to heart patients with chronic critical illness. He is also inpatient medical director of Jill & Mark Fishman Center for Lymphatic Disorders, the world's premier center for patients with lymphatic disease. He lives just outside of Philadelphia with his wonderful wife Charu and their two children, Riya and Milun.



Elaina E. Lin, MD

Department of Anesthesiology and Critical Care Medicine,
Children's Hospital of Philadelphia
Assistant Professor
Perelman School of Medicine at the University of
Pennsylvania
3401 Civic Center Blvd
Main Building Suite 9329
Philadelphia, PA 19104
USA

Phone: +1-267-426-5366
Fax: +1-215-590-1415
Email: line1@chop.edu

Elaina E. Lin, MD is an anesthesiologist who specializes in pediatric anesthesiology. Dr. Lin attended medical school at the Johns Hopkins School of Medicine in Baltimore, Maryland, and subsequently completed her residency in anesthesiology at the Johns Hopkins Hospital in Baltimore, Maryland. She completed fellowship training in pediatric anesthesiology at The Children's Hospital of Philadelphia in Philadelphia, Pennsylvania. She joined the faculty at The Children's Hospital of Philadelphia and the University of Pennsylvania in 2011. Dr. Lin is the director of perioperative ultrasound at The Children's Hospital of Philadelphia. Her research interests include perioperative use of point-of-care ultrasound and anesthesia for fetal surgery. She is a peer reviewer for several journals. She lives in the suburbs of Philadelphia with her husband and two young children. In her free time, she enjoys playing tennis.

Fellow Booklet

Pediatric Anesthesia and Critical Care



Lilit Azatyan, MD
Yerevan State Medical University after Mkhitar
Heratsi
Department of Anesthesiology and Intensive
Care
Pushkin Street, 56
0002 Yerevan
Armenia
azatyanlilit96@gmail.com



Myagmarsuren Bat-Erdene, MD
Songinokhairkhan General Hospital
Department of Emergency Medicine
Songinokhairkhan District, 19th Committee
11000 Ulaanbaatar
Mongolia
myagaicu@gmail.com



Marsela Biqiku, MD
Vlora Hospital
Department of Anesthesiology and Intensive
Care
Rruga Belul Hatibi
38 Vlora
Albania
drmarselabiqiku@gmail.com



Furaha Nzanzu Blaise Pascal, MD
University of Malawi
Department of Anesthesiology and Intensive
Care
Chipatala Street
265 Blantyre
Malawi
blaisepascal.furaha@gmail.com



Margarita Borislavova, MD
Pirogovo Emergency Hospital
Department of Anesthesiology and Intensive
Care
Bul. "General Eduard I. Totleben" 21
1000 Sofia
Bulgaria
drborislavova.m@gmail.com



Anna Brugger, MD
LKH Leoben
Department of Pediatrics
Vordernberger Straße 42
8700 Leoben
Austria
anna.brugger11@gmail.com



Andrea Castro - De Los Santos, MD
Centenario Hospital Miguel Hidalgo
Department of Anesthesiology and Intensive
Care
Av Ferrocarril S/N Alameda
20259 Aguascalientes
Mexico
castroandrea@gmail.com



Nuno Cordeiro, MD
Centro Hospitalar de Lisboa Ocidental
Department of Anesthesiology and Intensive
Care
Estrada do Alto do Forte do Duque
1449-005 Lisbon
Portugal
nunoacordeiro@gmail.com



Iveta Daukste, MD
Children's Clinical University Hospital of Riga
Department of Anesthesiology and Intensive
Care
Vienibas gatve 45
LV1004 Riga
Latvia
ivve@inbox.lv



Bojana Drobnjak, MD
Maribor Medical University Center
Department of Anesthesiology and Intensive
Care
Ljubljanska 5
2000 Maribor
Slovenia
bojana18novembar@gmail.com



Martin Genzor, MD
Pediatric Cardiocenter, National Institute of
Cardiovascular Diseases
Department of Anesthesiology and Intensive
Care
Pod Krásnou Hôrkou 1
83348 Bratislava
Slovakia
genzor.martin@gmail.com



Sanja Golubic-Nichevska, MD
University Clinic of Pediatric Surgery
Department of Anesthesiology and Intensive
Care
Vodnjanska
1000 Skopje
North Macedonia
sanja.golubic22@gmail.com



Berfin Göres, MD
LKH Leoben
Department of Pediatrics
Vorderberger Straße 42
8700 Leoben
Austria
berfin.goeres@gmail.com



Siarhei Hapanovich, MD
Mogilev City Hospital
Department of Anesthesiology and Intensive
Care
Academic Pavlov, 2
212018 Mogilev
Belarus
gapanovich9946@gmail.com



Ondřej Hubálek, MD
University Hospital Motol
Department of Anesthesiology and Intensive
Care
V Úvalu
15000 Prague
Czech Republic
o.hubalek@seznam.cz



Jovana Jevdjic, MD
University Clinical Center of Republic of Srpska
Department of Anesthesiology and Intensive
Care
Dvanaest beba bb
78000 Banja Luka
Bosnia and Herzegovina
sofipan92@gmail.com



Susanna Kaljurand, MD
Tartu University Hospital
Department of Anesthesiology and Intensive
Care
Puusepa 8
50406 Tartu
Estonia
susanna.korgvee@gmail.com



Alije Keka Sylaj, MD
Clinical and University Center of Kosovo
Department of Anesthesiology and Intensive
Care
Rrethi i Spitalit, Street: p.n
10000 Prishtina
Kosovo
alije.keka@uni-pr.edu



Ilke Kupeli, MD
Biruni University
Department of Anesthesiology and Intensive
Care
Beşyol, Eski Londra Asfaltı No:10, 34295
34250 Istanbul
Turkey
ilkeser2004@gmail.com



Antonia Kustura, MD
University Hospital Center Sestre Milosrdnice
Department of Anesthesiology and Intensive
Care
Vinogradska cesta 29
10000 Zagreb
Croatia
antonia.kustura@gmail.com



Goda Laucaityte, MD
Hospital of Lithuanian University of Health
Sciences Kaunas Clinics
Department of Pediatrics
Eiveniu Street 2
50161 Kaunas
Lithuania
glaucaityte@gmail.com



Kseniia Lyzohub, MD
Kharkiv Medical Academy of Postgraduate
Education
Department of Emergency Medicine
Amosova Street 58
61176 Kharkiv
Ukraine
kslizogub@gmail.com



Arpine Manukyan, MD
Yerevan State Medical University after Mkhitar
Heratsi
Department of Anesthesiology and Intensive
Care
Abovyan 60
0025 Yerevan
Armenia
drarpinemanukyan@gmail.com



Raphael Andreas Marginter, MD
LKH Leoben
Department of Pediatrics
Vordernbergerstraße 42
8700 Leoben
Austria
raphael.marginter@gmx.at



Soňa Mečířová, MD
The General University Hospital in Prague
Department of Pediatrics
Ke Karlovu 455/2
12000 Prague
Czech Republic
sona.mecirova@seznam.cz



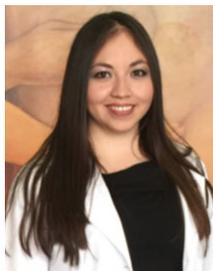
Rosa Ixchel Palma Soto, MD
Private Practice
Department of Anesthesiology and Intensive
Care
Cto. Frida Kahlo
66260 San Pedro Garza Garcia
Mexico
rosixps@gmail.com



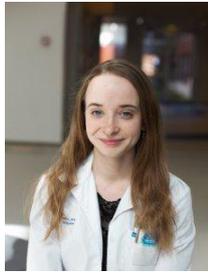
Zuzana Petrikova, MD
Children's Faculty Hospital Banská Bystrica
Department of Anesthesiology and Intensive
Care
Nám. L. Svobodu 4
97401 Banská Bystrica
Slovakia
zuzankapetrikova@yahoo.com



Gloria Maria Prada Hervella, MD
Complejo Hospitalario Universitario de Santiago
de Compostela
Department of Anesthesiology and Intensive
Care
Feans 25, 1B
15705 Santiago de Compostela
Spain
pradahervella@gmail.com



Diana Verónica Reyes García, MD
National Institute of Perinatology
Department of Anesthesiology and Intensive
Care
Montes Urales 800
11000 Mexico City
Mexico
dian.reyesg@gmail.com



Anni Ruul, MD
North Estonian Medical Centre Foundation
Department of Anesthesiology and Intensive
Care
J.Sütiste tee 19
13419 Tallinn
Estonia
ruulanni@gmail.com



Eliisa Seedre, MD
Tallinn Children's Hospital
Department of Anesthesiology and Intensive
Care
Tervise 28
13419 Tallinn
Estonia
eliisa.seedre@gmail.com



Vedran Stevanovic, MD
University Hospital for Infectious Diseases "Dr
Fran Mihaljević"
Department of Infectious Diseases
Mirogojska 8
10000 Zagreb
Croatia
vedran.stevanovic@gmail.com



Anna Wollschläger, MD
Klinikum Klagenfurt
Department of Pediatrics
Feschnigstraße 11
9020 Klagenfurt
Austria
wollschlaeger.anna@gmail.com



Ansis Ziemelis, MD
Children Clinical University Hospital
Department of Anesthesiology and Intensive
Care
Vienības gatve 45
LV1004 Riga
Latvia
ziemelis.ansis@gmail.com

DIARY



Eliisa Seedre, MD
Tallinn Children's Hospital
Department of Anesthesiology and Intensive Care
Estonia

Sunday, January 16, 2022

I arrived in Salzburg by train from Munich. The ride over was wonderful, seeing all the mountains and beautiful nature. Even though it was only January, I could feel spring in the air. After a nice walk in the city, I reached Schloss Arenberg and was warmly greeted by the staff. That same night, we had a nice welcome dinner, where I was able to meet all the participants. It was very interesting to hear little facts about their countries and work. The food was delicious, and the hours passed quickly.

Monday, January 17, 2022

The seminar started off with a wonderful lecture by Dr. Lockman about anesthesia in the critically ill. He made everybody part of his presentation and it was very interesting to hear different approaches to one clinical situation. I absolutely loved this lecture. Another lecture that I enjoyed a lot was about medical errors; I was very impressed to see how much effort is put into dealing with this common but often unreported problem. Having a special system that is especially focused on finding, documenting, and preventing common medication errors seems very necessary and I hope that my hospital will get there as well. During the evening, we had a lovely walk around the city. After another delicious dinner, it was time to call it a day and we all headed back to our rooms.

Tuesday, January 18, 2022

The first lecture of the day was about HUS. I do not know much about this syndrome, so there was a lot of new information for me. The second lecture was about ultrasound. I am a big fan of ultrasound and try to use it whenever possible in my everyday work. I have never used IVC/AO diameter comparison, so even though I knew most of the information already, there was still something to learn. Dr. Lin explained things wonderfully. She gave the next lecture as well, which was about difficult airways in pediatric patients. That was extremely useful, and I learned a lot. For example, I have never used the combination of videolaryngoscope and fiberoptic bronchoscope for difficult airway, but after this lecture I plan to do it whenever the opportunity presents itself. The last lecture of the day was from Dr. Lockman which was about neonates. It was comforting to know that even someone as experienced as him is afraid of these little creatures. Once again, it was a very intriguing lecture and the way he managed to engage everyone is simply beautiful. After lunch, we heard case presentations from other fellows. It was nice to learn about which problems people are facing in different countries.

Wednesday, January 19, 2022

Dr. DeWitt spoke in the morning about lymphatic imaging and interventions. It was one of the lectures I was looking forward to the most, as I know nearly nothing about it. Back home in Estonia, we are currently having trouble with one patient who has lymphatic drainage issues. He also gave another lecture focused on quality improvement. I've got to admit that it did not sound exciting at first, but in the end, I found it super interesting and enjoyed it a lot. There were two more lectures by Dr. Roedl, plasmapheresis and CRRT. I found them to be excellent topics. For our free afternoon, colleagues from Estonia and I took a trip to the zoo, which was awesome! I saw sloths eating carrots and leopards raising their family. The sun was shining on the snowy mountains as we sat down for a cup of coffee – what more can one ask for.

Thursday, January 20, 2022

What a fascinating day! It is hard to choose a favorite lecture, as they were all awesome. Dr. McClung Pasqualino spoke about anesthesia-induced hypotension in neonates, and it was comforting to see that this problem is the same all around the world. Dr. DeWitt presented some excellent lectures as well. The first was about sedation after cardiac surgery. Even though I do not perform post cardiac surgery care myself, I think his talk is applicable in a normal PICU as well...Dexmedetomidine for the win! His second lecture was about difficult conversations, and it was one of the most important lectures of the week. It is a subject we almost never speak of but must face, nevertheless. I believe that our job doesn't end when we run out of treatment options. Part of our job is to help families deal with horrible situations and if we are not trained for this, we may cause more pain for them. Then there was the sci-fi part of the day, where Dr. Lin spoke about in-utero surgery. I've only ever seen it in movies and to me it was out of this world! It will surely be something I will tell my friends about back home. The day ended with an amazing concert, where we heard an impeccable violinist and pianist. It was nice listening to Mozart in Salzburg. We finished the evening in the lobby, where we learned some Austrian traditions and got to know each other better.

DIARY



Nuno Cordeiro, MD
Centro Hospitalar de Lisboa Ocidental
Department of Anesthesiology and Intensive Care
Portugal

Sunday, January 16, 2022

I arrived in Salzburg late on Saturday (after spending a day and a half in Vienna), so Sunday was my first full day in the city. I completed check-in the day before, so after a great night of sleep and breakfast at Schloss Arenberg's fantastic facilities, I was ready to explore Salzburg. After a short 10-minute walk to the city center, I climbed all the way to Hohensalzburg Fortress, where I had a beautiful panoramic view of Salzburg. After hiking back down, I decided to try Café Tomaselli's famous Apfelstrudel before continued to explore the old town (Salzburg Cathedral, the Residenzplatz, Mirabell Palace and Gardens, and more). After a late lunch (Austrian schnitzel), it was time to head back to Schloss Arenberg. At 7pm, we all met in the lobby, where Dr. Wolfgang Aulitzky introduced the seminar week and all the safety measures put in place to ensure we stay health and virus-free. This was also our first contact with the amazing faculty from CHOP. The day ended with the welcome dinner, where we started to get to know all the fellows. Anesthesiologists, pediatricians, intensivists, and trainees from all around the world had come together to learn together and from one another!

Monday, January 17, 2022

The second day started with a brief presentation from the course director, Dr. Heather A. Pasqualino, followed by the pre-seminar test on the topics we would discuss in the next days. Afterwards, it was time for the lectures to begin. The first one was on critical care for the anesthesiologist by Dr. Justin L. Lockman. In an extremely interactive and case-based atmosphere, we covered a range of critical topics from intracranial hypertension to ARDS and HFOV. After enjoying coffee break, it was time to learn about volume treatment in circulatory compromised patients with Dr. Siegfried Roedl. To end the morning, medication safety by Dr. Heather A. Pasqualino was a refreshing topic, which we should discuss more often during training. After lunch, pediatric POCUS by Dr. Elaina Lin was on the menu. We covered lung, airway, heart, and gastric ultrasound in an interactive way. Is it replacing the good old stethoscope? Or just when is it doing so? After a brief session on how to present a case presentation and an introduction to the OMI/AAF, the day was over. Time for a quick evening walk in the city and dinner at Schloss Arenberg.

Tuesday, January 18, 2022

The third day started with an unfamiliar topic for me as an anesthesia trainee - hemolytic uremic syndrome by Dr. Siegfried Roedl. The next sessions, both by Dr. Elaina Lin, were on US evaluation of shock and hypotension and management of the pediatric difficult airway. As always, we could openly discuss different approaches and country specificities, from which we all have a lot to learn! The morning finished with an eye-catching session by Dr. Justin L. Lockman, called why am I afraid of babies? Yes, given the major physiological and management implications, we should all be! That is one of the reasons these seminars are so important. After a hands-on ultrasound training with Dr. Elaina Lin, the afternoon was dedicated to our case presentations. In an open and friendly environment, we were able to present and discuss both interesting and challenging cases we had back at home. In fact, we do learn a lot from these shared experiences, not only regarding medical decisions, but also management of our environment and resource limitations. The week was flying by and after dinner we had time to enjoy Salzburg's night atmosphere.

Wednesday, January 19, 2022

Wednesday started with a session on lymphatic imaging and intervention in the 21st century by Dr. Aaron G. DeWitt. It was a fascinating topic which was new for the majority of the fellows I spoke with. During the morning, Dr. Aaron G. DeWitt also presented on cardiac ICU potpourri. The session focused on collaborative quality improvement and how a well conducted approach can actually have a significant impact on patient outcomes. The morning ended with talks on plasmapheresis and renal replacement therapy, both by Dr. Siegfried Roedl. After lunch, we had the afternoon free. We decided to do some hiking on Kapuzinerberg (640 meter elevation) from where the 360° panoramic views of Salzburg were astonishing. The rest of the day was spent in the city center, where we tasted Café Furst's chocolate Mozartkugel.

Thursday, January 20, 2022

The day began with a session on anesthesia-induced hypotension in neonates by Dr. Heather A. Pasqualino, focusing on what contributes and how to (try) to define and treat it. Afterwards, Dr. Aaron G. DeWitt gave a lecture on sedative strategies for patients with cardiac diseases after cardiac surgery, and later a very useful lesson on difficult conversations and strong emotions. In that session, we learned some techniques to approach these defying situations. Anesthesia for in-utero surgery by Dr. Elaine Lin was also a hot topic of the day given all the implications of the anesthetic management of these patients. The afternoon was dedicated to fellows' case presentations and discussion, which was once again a valuable exchange of experiences. After, it was time to enjoy the snow that had begun to fall and eat dinner. The day ended with a fantastic chamber music concert at Schloss Arenberg, complete with piano and violin performances by Wonji Kim-Ozim and Gerda Guttenberg-Bastian.

Friday, January 21, 2022

The last day was dedicated to pediatric trauma (burn and TBI), pediatric procedural sedation outside of the operating room, and controversies and overdose in pediatric anesthesia. All topics which we may encounter daily. After the post-seminar test and some COVID-testing, the week came to an end with the farewell reception and graduation dinner.

During this week, fellows from Albania, Armenia, Austria, Azerbaijan, Belarus, Bosnia and Herzegovina, Bulgaria, Congo, Croatia, Czech Republic, Estonia, Kosovo, Latvia, Lithuania, Mexico, North Macedonia, Portugal, Slovakia, Spain, Turkey, Ukraine, and faculty from the USA all gathered together at Salzburg's Schloss Arenberg. The continuous intercultural exchange of medical knowledge and expertise is, in fact, one of the major advantages of the OMI seminars.

I am really pleased to have taken part in this program. The OMI and CHOP are undoubtedly making a difference in world healthcare by allowing doctors from all over the world to join and learn together. The organization was flawless and Ms. Stephanie Faschang, Ms. Kaitlyn Maneiro, Ms. Melanie Plemely, Mr. Daniel Kos, Ms. Edlira Kastrati, and everyone (whose name I missed) involved in the orchestration of the seminar at Schloss Arenberg made this an unforgettable week. We have also to appreciate all the faculty from the Children's Hospital of Philadelphia. Not only did they give us great lectures, but were also very approachable, creating an easy-going seminar atmosphere which maximized our learning opportunities.

Not only do we take back home a lot of state-of-the-art medical knowledge, but also a new and huge network of colleagues and friends from all over the world. I cannot wait to come again someday!