



OPEN MEDICAL INSTITUTE

SEMINAR REPORT

NEONATOLOGY
OMI MEX CHOP SEMINAR

June 28-30, 2022

Medical Education Beyond Borders



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OMI MEX CHOP SEMINAR IN NEONATOLOGY

June 28-30, 2022

34 fellows from Mexico
4 faculty members from the USA and Mexico
11 lectures given by faculty
11 interesting case presentations by fellows
1 excellent case presentation by a fellow

Group Photo of Faculty and Fellows



OMI MEX CHOP Seminar in Neonatology

Tuesday, June 28 – Thursday, June 30, 2022

	Tuesday June 28	Wednesday June 29	Thursday June 30
08:00 – 09:00	REGISTRATION & BREAKFAST	REGISTRATION & BREAKFAST	REGISTRATION & BREAKFAST
09:00 – 09:30 09:30 – 09:45	Introductions Pre-Seminar Test Opening Ceremony	POCUS Procedures in Neonates Jason Z. Stoller, MD	Modern Media for Neonatal Education Nicolas Bamat, MD, MSCE
10:00 – 11:00	Approach to Shock in Neonates Dustin Daniel Flannery, DO, MSCE	Nutrition in Patients with BPD Guadalupe Cordero González, MD	Workshop Fellows' Case Presentations Nicolas Bamat, MD, MSCE Guadalupe Cordero González, MD
11:00 – 11:30	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK
11:30 – 12:30	Hemodynamic Assessment with POCUS Jason Z. Stoller, MD	Medications to Prevent and Treat Neonatal Lung Disease Nicolas Bamat, MD, MSCE	Pain Management in the NICU Guadalupe Cordero González, MD
12:30 – 13:30	Updates in Neonatal Early Onset Sepsis Dustin Daniel Flannery, DO, MSCE	Neonatal Antimicrobial Stewardship Dustin Daniel Flannery, DO, MSCE	Post-Seminar Test Evaluation & Discussion
13:30 – 14:30	LUNCH	LUNCH	LUNCH CLOSING CEREMONY & AWARDS
14:30 – 15:30	Hypoxic-Ischemic Encephalopathy Jason Z. Stoller, MD	Ventilatory Support in the NICU Nicolas Bamat, MD, MSCE	
15:30 – 17:00	Workshop Fellows' Case Presentations Dustin Daniel Flannery, DO, MSCE Jason Z. Stoller, MD	Workshop Fellows' Case Presentations Nicolas Bamat, MD, MSCE Guadalupe Cordero González, MD Jason Z. Stoller, MD	

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 15.5 AMA PRA Category 1 Credit(s)[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



OPEN MEDICAL INSTITUTE

FACULTY BOOKLET

NEONATOLOGY
OMI MEX CHOP SEMINAR

June 28-30, 2022

Medical Education Beyond Borders





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
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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 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.



**Jason Z. Stoller, MD
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Jason Z. Stoller, MD is a Neonatologist with a focus on point-of-care ultrasound (POCUS). Dr. Stoller grew up in the western United States in the state of Colorado and completed his undergraduate studies at the University of Pennsylvania in Philadelphia, Pennsylvania. He graduated from the University of Pennsylvania School of Medicine and completed his Pediatrics residency at Hasbro Children's Hospital/Brown University in Providence, Rhode Island. His fellowship training in Neonatal-Perinatal Medicine was at the Children's Hospital of Philadelphia. Dr. Stoller was a Pediatric Scientist Development Program fellow and did his research training in the laboratory of Dr. Jonathan Epstein. He previously ran a research laboratory studying heart development. His current research and clinical interests focus on optimizing and improving utilization of POCUS in the neonatal intensive care unit. Dr. Stoller is currently on the faculty of the Perelman School of Medicine at the University of Pennsylvania and Children's Hospital of Philadelphia as a Professor of Clinical Pediatrics. He lives outside Philadelphia with his wife, Elizabeth, and children, Jake and Kyle.



Nicolas Bamat, MD, MSCE

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Nicolas Bamat, MD, MSCE is an Ecuadorian-American Neonatologist who specializes in lung disease of prematurity. Dr. Bamat grew up in Quito, Ecuador; Ossining, New York; and João Pessoa, Brazil. He completed his undergraduate studies at Williams College in Williamstown, Massachusetts. He graduated from the Perelman School of Medicine at the University of Pennsylvania (Penn) and remained there for pediatric residency and neonatal-perinatal medicine fellowship at the Children's Hospital of Philadelphia (CHOP). During his fellowship, he completed a Master of Science in Clinical Epidemiology at Penn. Dr. Bamat is an Assistant Professor of Pediatrics at Penn and practices within CHOP's Chronic Lung Disease Program, a multidisciplinary referral program for preterm infants with the most severe presentations of bronchopulmonary dysplasia. His research focuses on pharmacotherapeutic practices in this same population. He is funded by the National Institute of Child Health and Human Development for research on furosemide in severe bronchopulmonary dysplasia. Dr. Bamat is an Associate Editor for Cochrane Neonatal and serves as Operations Lead for the International Society for Evidence-Based Neonatology (EBNEO). He lives in Philadelphia with his wife, Dr. Tara Bamat, and their three children.



Guadalupe Cordero González, MD

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Guadalupe Cordero González, MD is a neonatologist who specializes in critical care of the newborn. Dr. Cordero González grew up in Mexico City. She graduated from the Faculty of Medicine of the National University of México (UNAM) and completed her pediatrics residency at the National Institute of Pediatrics. Her fellowship training in neonatology was at the National Institute of Perinatology. Dr. Cordero González's research interests include pulmonary physiology of the fetus and newborn, mechanical ventilation, nutrition, sepsis, neurodevelopment, and critical care of the newborn. Publications include reviews of asphyxia, apnea of the prematurity, parenteral nutrition, enteral nutrition, and mechanical ventilation. She has participated as professor in multiple pediatrics and neonatology seminars and is currently chief of the NICU at the National Institute of Perinatology where she is also an associate professor of neonatology and titular teacher of the high specialty course of critical care of the newborn. She works at the NICU at the Ajusco Medio Hospital and lives in Mexico City with Luckas and Happy, her beloved dogs.



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Dustin Daniel Flannery, DO, MSCE is an attending neonatologist at Children's Hospital of Philadelphia (CHOP) and CHOP Newborn Care at Pennsylvania Hospital, an Assistant Professor of Pediatrics at the Perelman School of Medicine at the University of Pennsylvania, and a core faculty member in the CHOP Center for Pediatric Clinical Effectiveness (CPCE). He is a graduate of the Pediatric Hospital Epidemiology and Outcomes Research Training (PHEOT) program managed by the CPCE, and the Master of Science in Clinical Epidemiology (MSCE) program at the University of Pennsylvania. Dr. Flannery received a Doctor of Osteopathic Medicine (DO) degree from the Philadelphia College of Osteopathic Medicine and a Bachelor of Science (BS) with Honors from Virginia Tech. After completing a residency and chief residency in Pediatrics at Alfred I. DuPont Hospital for Children/Thomas Jefferson University Hospital, he completed a fellowship in Neonatal-Perinatal Medicine at CHOP. His research interests are neonatal infectious diseases and antimicrobial stewardship. His current research projects involve 1) analyzing antimicrobial resistance patterns in neonatal intensive care units across the country; 2) analyzing contemporary maternal and neonatal seroepidemiology; and 3) identifying meaningful metrics of neonatal antibiotic use for more accurate inter-hospital comparison. He has received research funding from CHOP, National Institute Health, Agency for Healthcare Research and Quality, and Centers for Disease Control and Prevention. Dr. Flannery is a Philadelphia native and lives in the city with his husband, Christopher, and son, Alexander.



Becky Aguilar-Álvarez de Sáenz

Executive Director | AMSA

- Bachelors degree in economics, Instituto Tecnológico Autónomo de México (ITAM)
- Banking and financial career for 15 years
- Member of the Board Civic Committee, Ford Motor Company Mexico
- Treasurer of the Board of Trustees UNETE (Unión de Empresarios por la Tecnología en la Educación)
- Member of the International Women's Forum
- Member of the Mexican Council for International Affairs
- AMSA's Executive Director since 2010



Gerardo Legorreta Creel

President of the Board | AMSA

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Fellow Booklet

Neonatology



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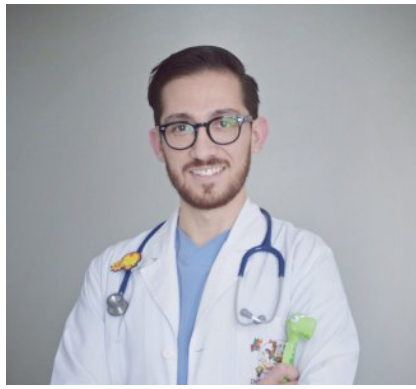
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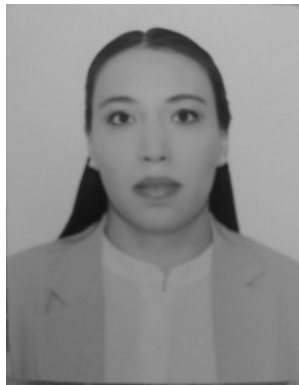
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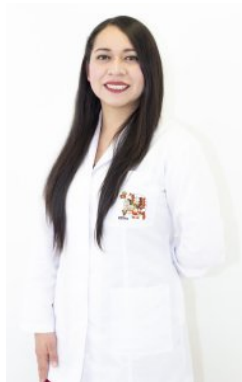
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María Fernanda Zárate Sevilla, MD
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Tuesday, June 28, 2022

We started our day with a delicious breakfast and registration. After that, we had a pre-seminar test that covered the different topics we would discuss throughout the week. Dr. Dustin Flannery kicked off our first day of the seminar with an interesting overview on the approach to shock in Neonate. It's always really interesting to review this topic because in my hospital we have a lot of very sick new-borns. After that, Dr. Jason Stoller gave the lecture on hemodynamic assessment with POCUS. It was amazing. In our NICU we have the equipment to do it, so I hope that with these lectures we are now more trained to do it all the time. Then, Dr. Dustin Flannery gave a seminar on updates in neonatal early onset sepsis, that even-though our countries have different epidemiology and micro-organisms, was really enriching. Then, we were able to interact with the faculty members during lunch, which gave us a much-needed opportunity to ask questions, share ideas, and network with one another. The last lecture of the day was with Dr. Jason Stoller on Hypoxic/Ischemic Encephalopathy, it was amazing to get to know the helix star. Finally, we saw fellows' case presentations, which were amazing.

Wednesday, June 29, 2022

Our second day of lectures started with a lecture from Dr. Jason Stoller about POCUS procedure in Neonates, which was really interesting, because as I said, we have the equipment in our unit, so it's great to learn how to use it. Up next was one of my favorite lectures with Dr. Guadalupe Cordero about nutrition in patients with BPD, because we have a lot of patients with this disease. Then, our lecture series continued with medications to prevent and treat neonatal lung disease and neonatal antimicrobial stewardship by Dr Nicolas Bamat and Dr.

Dustin Flannery respectively. I was able to have a better insight into current practices and possible future management modalities in patients with BPD, even though there is still a lot to learn and to study in these babies. We had lunch, and I was able to speak with Dr. Stoller about various topics. After that, we had an amazing seminar about ventilatory support in the NICU with Dr. Bamat. The afternoon was dedicated for fellows to present their own cases, and I was one of the presenters today. Needless to say, it was intimidating to present a case in English and in front of so many people, not to mention such a clever crowd, but I think I did it really well and my case was really interesting and unique.

Thursday, June 30, 2022

The last day started with Dr. Bamat giving an interesting lecture on modern media for neonatal education, which was followed by the last fellow case presentation, which was really amazing. Then, we had another engaging presentation by Dr. Guadalupe Cordero about pain management in the NICU. Next, we had the final exam and our last meal, which was delicious. I won the certificate for best participation, which was amazing! I'm so excited that I'll have the chance to go again to another seminar in Austria, and that I won because I had a lot of questions and a lot to share with everyone! Thank you, OMI and AMSA, for granting me the opportunity of a lifetime to be a part of an incredible cohort. Gracias de corazón.



Andrea Patricia González, MD
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Tuesday, June 28, 2022

Feeling excited and a little bit nervous about the seminar, I arrived at the beautiful “Mexican History Studies Center”, which where the event was held. It was a great surprise to see some of my former teachers and companions from my pediatrics and neonatology fellowship days. We had a nice breakfast, chatted a little, and went on to the seminar. We started with the pre-seminar test. I won't lie, some questions were easy but others, not so much. The first lecture about neonatal shock and its approach was given by Dr. Dustin Flannery, and the second lecture about hemodynamic assessment with pocus was given by Dr. Jason Z. Stoller. Both were easy to follow and both doctors made sure we understood everything. Then came the coffee break, followed by the next lectures about early onset sepsis and hypoxic ischemic encephalopathy. I truly enjoyed all of these and was truly amazed at the ability of the physicians to explain complicated themes in a simple and academic way. We then had a nice lunch, and I was lucky enough to share the table with one of the faculty members, Dr. Flannery. We had an interesting and pleasant chat. We then moved on to the case presentations which were all very interesting to listen to.

Wednesday, June 29, 2022

Day two started with breakfast and a nice chat with my friends. Then, we attended the lectures of the day. I think it's fascinating the impact nutrition has on the outcome of premature babies and it was impressive to find out how some treatments that we assumed were essential in the treatment of our babies, such as caffeine, don't seem to have that much of an impact according to recent evidence. Dr. Bamat's dynamic way of giving his lectures forced us to actively engage and I think it was a great exercise. After some coffee, delicious lunch, and some rest in which

we were able to talk and get to know Dr Bamat, more fellow cases were presented. After some interesting discussions, we finished for the day.

Thursday, June 30, 2022

The final day was bittersweet. We were happy for all the things we learned, but also a little sad it was over. We listened to two more lectures about social media and pain management in the neonate. I loved them both. Personally, the third day was the day I enjoyed the case's presentations the most. Afterwards, we did the post-seminar test and I felt happy that I didn't find the test to be that difficult anymore. Awards were given and I felt proud because one of my friends won! We had lunch (which was delicious), said goodbye and thank you, and that was it. I am amazed at how rewarding this experience was. Thank you for allowing me to experience this opportunity.



Karina Chávez
Instituto Nacional de Perinatología
Mexico City, Mexico

Tuesday, June 28, 2022

On the first day of the seminar, I met with my colleagues from the hospital, and we went together to the place where the seminar was going to be held. I was very excited to be able to attend. When we arrived, we registered and received the printout of the slides and materials so we could take notes. The faculty members introduced themselves first, and then all the participants. I was very happy to meet colleagues from the pediatrics residency who are doing neonatology at other institutions in Mexico City. I realized that despite being in the most important city in the country, the working conditions, the type of patients, and the treatments were different. The possibility to learn about the way of working in other hospitals allows you to know your patients better, evaluate the competencies, strengths, and weaknesses where you can make interventions.

Wednesday, June 29, 2022

The second day of the seminar began with a talk by Dr. Stoller, who shared his experience on ultrasound-guided procedures in neonates. I found it extremely important to be able to perform invasive procedures by ultrasound and thus reduce the most frequent complications and have a better outcome. Dr. Stoller shared very illustrative videos with us. Dr. Cordero presented the topic of nutrition in the prevention and management of bronchopulmonary dysplasia, and there was discussion on feeding techniques in critically ill neonates, including much participation from the audience expressing the main difficulties they face every day. Dr. Cordero shared her extensive experience at the Institute of Perinatology on feeding strategies, nutritional requirements, and how to set goals to take care of the positive energy balance and monitor proper growth. One of my favorite presentations was one by Dr. Nicolas Bamat. He did an activity where we used a red flag if we disagreed and a green flag if we agreed with an intervention. It was a very dynamic activity in which we could interact with all the participants.

The main topics in NICU were discussed, such as the use of caffeine, vitamin A, postnatal steroids, and diuretics. Dr. Bamat presented current evidence and how to critically analyze clinical research and apply it to practice.

Thursday, June 30, 2022

On the last day of the seminar, there was a sense of nostalgia about our experience. We started with Dr. Bamat's presentation about modern media for neonatal education, and how modern media can help educate and inform better neonatal care. He shared with us neonatology apps and blogs, and how technology surpasses our ability to learn but how we can select and take advantage of the information. The last session was pain management in the neonate. Dr. Cordero shared with us her experience in pain management, this encouraged different points of view since the availability of medications, the use of pain assessment scales, and other nonpharmacological methods such as breastfeeding, glucose, and skin to skin contact is different in all hospitals. As Jean Piaget said, the main objective of education should be the creation of men and women capable of doing new things, not simply repeating what other generations have done. Men and women who are creative, inventive, and discoverers can be critical and verify, not just accept everything that is offered. We are currently living in a race for knowledge that is being generated exponentially every day. The management of all this information can confuse healthcare workers about the main objectives, which are the benefit of the patient and their families. However, technology also brings us together and allows us to share our experiences to identify our weaknesses, value our strengths, and contribute to a higher quality of care in other places. This seminar has been a great opportunity to meet our colleagues from Mexico City, establish an exchange of information with doctors from other countries, and the ideal occasion to reaffirm that our work goes beyond knowledge. Neonatology is based on the care at the beginning of life, in the family, and in society. Thank you to AMSA and the OMI, Dr. Stoller, Dr. Bamat, Dr. Cordero, and Dr. Flannery. Thanks to our colleagues, the Institute National of Perinatology, and most importantly to our patients, without them this would not be a reality.