COLUMBIA SEMINAR in SALZBURG

"Maternal and Infant Health"

May 13 – 19, 2018
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SALZBURG COLUMBIA SEMINAR MATERNAL & INFANT HEALTH

May 13 – 19, 2018

- 34 fellows from 25 different countries and regions
- 6 faculty members from the United States and Austria
- 21 lectures and 2 workshops given by faculty
- 33 interesting cases presented by fellows
- 4 cases selected by faculty to be published in the Online Case Library

Faculty Photo (L-R):

Richard A. Polin, MD; Ronald Wapner, MD; George R. Saade, MD; Sudha Kashyap, MBBS, DCH, FAAP; Friedrich Reiterer, MD; Alan H. Jobe, MD, PhD
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<th>Time</th>
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<th>Monday 14 May</th>
<th>Tuesday 15 May</th>
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<tr>
<td>07:00 – 08:00</td>
<td>BREAKFAST</td>
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<td>08:00 – 09:00</td>
<td>Introductions</td>
<td>Long Term Programming Effects of Early Nutrition</td>
<td>Study Design in Low Resource Settings</td>
<td>Total Parenteral Nutrition in the NICU</td>
<td>The Perinatal Microbiome and Prematurity</td>
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<td>09:00 – 10:00</td>
<td>An Evidence Based Approach to Early-Onset Sepsis</td>
<td>What is RDS?</td>
<td>Antenatal Steroids: Research Study Designs</td>
<td>Fetal Growth Restriction: Obstetrical Perspectives</td>
<td>New Concepts About Fetal Inflammation</td>
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<td>14:00 – 15:00</td>
<td>Basic Genetic Principles</td>
<td>Workshop Fellows’ Case Presentations</td>
<td>Free Afternoon</td>
<td>Workshop Fellows’ Case Presentations</td>
<td>Post-Seminar Test</td>
<td>Evaluation &amp; Discussion</td>
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<td>15:00 – 16:00</td>
<td>Neonatal Case Study</td>
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<td>16:00 – 17:00</td>
<td>Obstetrical Updates</td>
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<td>18:00 – 19:00</td>
<td>Faculty Only Meeting to Review the Week</td>
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COLUMBIA UNIVERSITY SEMINAR in SALZBURG

"MATERNAL AND INFANT HEALTH"

May 13 – 19, 2018

FACULTY
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 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.

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Richard A. Polin, MD (Course Director) is the William T. Speck Professor of Pediatrics at Columbia University, College of Physicians and Surgeons in the City of New York and has been Director of the Division of Neonatology at Morgan Stanley Children's Hospital of New York-Presbyterian since 1998. After earning BA and MD degrees from Temple University, Dr. Polin completed a pediatric internship and residency at Children's Memorial Hospital in Chicago, and a pediatric residency and neonatology fellowship at Babies' Hospital in NY. He was Pediatric Chief Resident there, from 1974-75 and Rustin McIntosh Fellow in Pediatrics from 1975-77. An Associate Pediatrician at Children's Hospital from 1975-1977, he was named Outstanding Pediatric Attending for 1976-1977. He won similar honors for 1978-79 and 1982-83 at The Children's Hospital of Philadelphia, where he held the positions of Director of the Housestaff Training Program, Assistant and Associate Physician-in-Chief, Academic Coordinator of Pediatrics, and Acting Director, Neonatology. Temple University's Medical School named Dr. Polin its outstanding alumnuus in 1995. In 1998, Dr. Polin returned to Morgan Stanley Children's Hospital of NY- Presbyterian as the Director of Neonatology and Vice-Chairman of the Department of Pediatrics. In 2005 he received the Physician of the Year Award both from the New York-Presbyterian Hospital Columbia University Medical Center and the Morgan Stanley Children's Hospital of New York-Presbyterian, Division of Nursing. In the spring of 2006 Dr. Polin received the National Neonatal Education Award from the AAP's Section on Perinatal Pediatrics. Dr. Polin has published over 200 original papers, 20 books (including Fetal and Neonatal Physiology, Workbook in Practical Neonatology, Pediatric Secrets, Fetal and Neonatal Secrets, Current Pediatric Therapy, Pocket Neonatology) and more than 200 abstracts. Dr. Polin is the Chair of the NICHD Neonatal Research Network executive steering committee, and he is the past chair of the Sub-board of Neonatal-Perinatal Medicine.

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Friedrich Reiterer, MD (Co-Course Director) is a Professor of Pediatrics at the Children’s Hospital of the Medical University of Graz, working as a neonatologist at the Clinical Division of Neonatology. After earning an MD degree from the University of Graz in 1979, he completed a general and pediatric internship in 1987. In 1989, he completed a postgraduate education at the university hospital for children, Queen Fabiola, in Brussels, Belgium, for research activity in the field of sudden infant death syndrome. From December 1990 to May 1992, Dr. Reiterer completed a research fellowship at the Children’s Hospital of Philadelphia, USA, working on pulmonary function testing in neonates and multichannel polysomnographic recording for evaluation of infant apnea. He continued his research activity in Graz in the respiratory field especially in the clinical application of pulmonary function testing in mechanically ventilated neonates. Beside his research activity he is regularly and actively involved in medical training programs for students, nurses and physicians and since 2005 he is faculty member and co-course director at the Maternal Infant Health seminars of the AAF in Salzburg. Dr. Reiterer is a member of the German-Austrian society for neonatal and pediatric intensive care. He is married and has two children.

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Alan H. Jobe, MD, PhD is a neonatologist and Professor of Pediatrics at Cincinnati Children's Hospital. His research contributions include studies of surfactant metabolism, the hormonal regulation of lung maturation, mechanisms of lung injury with mechanical ventilation, and neonatal resuscitation. He has been Chair of the NICHD Neonatal Research Network Steering Committee and Chair of the NICHD Global Research Network Steering Committee. He has a 26-year collaborative research project on fetal development with Professor John Newnham at the University of Western Australia. He remains actively involved with clinical and translational research to improve outcomes for infants. He was an Associate Editor for Journal of Pediatrics for 18 years. He presently is a consultant for the Bill and Melinda Gates Foundation for infant mortality. Noteworthy recognitions are the E. Mead Johnson Award for Pediatric Research, the Virginia Apgar Award from the AAP, the Mary Ellen Avery Award from the SPR and APS, and election to The US National Institute of Medicine.

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Sudha Kashyap, MBBS, DCH, FAAP is a Neonatologist at Children’s Hospital of New York, Columbia Presbyterian. She graduated from St Johns Medical College in Bangalore, India and received her DCH from Maulana Azad Medical College in Delhi, India. Following completion of fellowship training in Neonatal Perinatal Medicine at Columbia University Medical Center she joined the neonatal faculty in 1982. Dr. Kashyap’s research interest has been in Neonatal Nutrition, particularly studying the effects of varying dietary protein and energy intakes on the growth and metabolic tolerance of low birth weight infants and she has published extensively in this area. Her research has been supported by NIH grants. Dr. Kashyap currently is on the faculty of Columbia University Medical Center as a Professor of Pediatrics and is also an Attending Physician in the Division of Neonatology at Children’s Hospital of New York, Columbia Presbyterian.

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George R. Saade, MD is a Professor of Obstetrics and Gynecology, Professor of Cell Biology, Director of the Perinatal Research Division, Chief of Obstetrics and Maternal-Fetal Medicine and the Jennie Sealy Smith Distinguished Chair in Obstetrics and Gynecology at the University of Texas Medical Branch. In early 2014, Dr. Saade was appointed to the National Advisory Child Health and Human Development Council of the National Institutes of Health. He is an elected member of the Tau Beta Pi Engineering Honor Society and Alpha Omega Alpha. He is past president of the Society for Maternal Fetal Medicine and Chair of its Health Policy Committee. He is the editor-in-chief of the American Journal of Perinatology. Dr. Saade has served on a number of national and international advisory committees and scientific review panels, including NIH, CDC, March of Dimes, ACOG, Wellbeing/Royal College of Obstetricians and Gynaecologists, and the Health Research Council of New Zealand. He is currently the principal investigator on two (2) NIH-funded clinical research networks and the co-investigator on three (3) others. Dr. Saade is certified by the American Board of Obstetrics and Gynecology and is an examiner. His clinical area of expertise revolves around stillbirth and preterm birth. He has authored more than 300 peer-reviewed publications, and is the editor of the “Critical Care Obstetrics” and “Maternal Medicine” textbooks. He has been voted as Best Doctor and selected to Super Doctors several years in a row.

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Ronald Wapner, MD is currently the Vice Chair of Research in Obstetrics and Gynecology for Columbia University Irving Medical Center and Director of Reproductive Genetics. Dr. Wapner is an internationally known physician and researcher specializing in reproductive genetics. He pioneered the development of chorionic villus sampling (CVS) and multi-fetal reduction. He has authored or co-authored over 400 publications and he has been an active investigator in the area of Maternal-Fetal Medicine. He is either a principal or co-investigator for a number of NICHD sponsored multi-center studies. He serves as the center PI for the National Standards for Fetal Growth study and the NuMoM2B study at Columbia University in the Maternal Fetal Medicine Units Network and recently led a multicenter study evaluating the accuracy, efficacy, and clinical advantages of prenatal diagnosis using microarray analysis. The Society for Maternal-Fetal Medicine has honored Dr. Wapner with both a Lifetime Achievement Award (2015) and The Dru Carlson Memorial Award for Best Research in Ultrasound and Genetics (2017). He has had a significant role in the development of multidisciplinary research studies and clinical research centers throughout his career.

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Sunday evening, May 13: started my journey on Saturday 12TH may arrived on Sunday evening to Salzburg very tired. This is my second visit to this beautiful town, and I was wondered by raining seasons and plenty of greenery in this season. I found Schloss Arenberg very attractive & friendly. After welcome reception we rejoice very delicious dinner and were introduced to faculty, the program and to each other. The environment in Schloss Arenberg was again favorable and peaceful. Finally we went back to rooms and sleep, sleep, sleep.

Monday, May 14: Wake up at 6 o’clock without any inconvenient. After breakfast the seminar started. We gave short introduction about ourselves. Director of the Course Prof. Richard Polin introduced the aim and goals of the whole seminar (maternal and infant health). Pre-seminar test was very debatable, exchange of views: too many questions usually speaking and give multiple responses. But now we had to choose only one answer! The first lecture of Prof. Polin was dedicated to an evidence base approach to early onset of neonatal sepsis and help increase my knowledge on the rational for the use of antibiotics for treatment. Short coffee break and group photo with faculty. Than we listened to an evidence based approach to preterm labor by Prof. George R. Saade. It was very useful to learn different approach to prevent preterm labor. Than we leaned about rational use of postnatal steroids by Dr. Alan H. Jobe, it was very informative to learn the use and benefit of postnatal steroids especially for the clinical practice, as we don’t use the postnatal steroids. Lunch....

After lunch break the lecture on basic genetic principle by Prof. Ronald Wapner, the knowledge of genetic was of great significance and essential for treating the anomaly detected by karyotyping. Now I can say first judgement about the seminar: it was very bright and intelligent to integrate two type of specialist on one course: (maternal & infant health). Had dinner with new friends from Sweden & Mexico, the day ended with cheerful conversation.

Tuesday, May 15: Wake up, breakfast, coffee... Lecture on longterm programming effect of early nutrition by Prof. Sudha Kashyap, was very informative to know the effects of early growth on predisposition to metabolic syndrome. The next session on RDS by Dr. Alan H. Jobe was very
interesting topic and useful concept on molecular lung maturation plus surfactant interaction with antenatal steroid to further improve lung maturation.

The lecture on screening for fetal genetic disease by Prof. Ronald Wapner was a useful concept but we do not screen for genetic diseases in my country. The next presentation was on neonatal abstinence syndrome by Dr. Friedrich Reiterer, it was knowledgeable as its very rare condition in our setup.

Lunch...

Case presentations... My friend started as the first one. Mine was 3rd one. I must say I was a little nervous but friendly and kind position of Prof. Richard Polin, gave me confidence. I am pleased to faculty members for interesting discussion after my presentation. After dinner our new friends from Sweden, Mexico, Belarus and Russian went hiking to the hill of castle to view sunset and it was amazing.

**Wednesday, May 16:** We had interesting lectures on study design in low resource setting (Prof. George R. Saade), antenatal steroid research study design (Prof. Alan H. Jobe) and research studies of maternal – fetal medicine network (Prof. Ronald Waper). These all research lectures were very useful and increased my knowledge.

Lunch break...

We had free afternoon, we went around the town and shopping centers.

**Thursday, May 16:** We had comprehensive lectures on total parenteral nutrition in the NICU and enteral nutrition for preterm infants (Prof. Sudha Kashyap) this increased my understanding on nutrition aspect in neonate.

Lunch break...

Case presentation from the rest of colleagues and good discussion by the faculty. After dinner we had an amazing chamber music concert in Schloss Arenberg.

**Friday, May 17:** The last lectures and finally post seminar test. The whole week of compressive, interesting and crucial topics are of great benefit on my daily basic practice. At Graduation Dinner despite the solemnity and awards it was a little bit sorrowful. For this short period we have become attached to each other. Tomorrow is departure. A long journey, come back to our families, work and daily routine schedule. Thanks to Faculty and Administration of Schloss Arenberg for this wonderful week and the opportunity to be part of great seminar.

_Samina Chaki, MD (Tanzania)_
**Sunday, May 13:** It was my first day in Salzburg, I arrived in Salzburg airport after a very long flight but at the moment I was out of the plane I was very happy and excited. The weather was great, so cold for me but great and it was really easy to get to the hotel at Schloss Arenberg. I just followed the instructions that were sent to me by the seminar directors.

I took the bus no.10 from the airport and it took me directly to the Schloss Arenberg, which was one of the best places I have ever seen. After the welcome reception, we had a nice dinner with all of the fellows and professors who were very nice and super friendly.

I went straight to sleep, my room was very nice and the view from the window was amazing. I was ready for the next day.

**Monday, May 14:** I woke up at 6 am in the morning and went downstairs to the restaurant for breakfast. Everyone was there. I got to know people and introduced myself. It is very interesting meeting people from around of the world, there were pediatricians and obstetricians too.

After breakfast we went upstairs, at 8 am we had a pre-seminar test which was difficult for me and after that the lectures started. We had to learn a lot about neonatology and evidence based medicine, although I am an obstetric doctor but it was very good to learn about new things & updates in pediatrics from great doctors from Colombia hospital in the USA and from the professors from Austria as well. Thanks to Dr. Richard, Dr. George, Dr. Alan, Dr. Ronald and Dr. Sudha.

We had a break for coffee and it was also time for the group photo. Everyone was dressed up and I bet is will be a great photo. After that we had three more lectures before dinner. The food was great in any aspects and it was nice because they care about what we like and they prepared food for
Vegetarians alone. I was happy. After dinner, we had a walk around the place and came back to sleep.

**Tuesday, May 15**: I woke up, went to breakfast, then to the lecture hall. We had four lectures about new approaches in obstetrics and neonatology, it all aims to improve perinatal outcomes which is the thing we all are working for.

Later it was time for our case presentations to start, I was very nervous because I had to present at first. Actually people were very nice and supportive, and the professors are super kind. They made some comments about my presentation which I was very happy to hear & they clapped for me. Another 15 fellows presented after me and with every presentation, I learned a new thing from the case and from the professor’s comments.

The case presentations were really interesting. Later we were very hungry & dinner was great.

I went directly to sleep, it was raining so the room was cold but it became warmer and I slept comfortably.

**Wednesday, May 16**: I woke up and it’s still raining from last night, had coffee and breakfast. We had two lectures about pediatrics, than coffee break, we came back and had two more lectures before lunch. This was the best day because we had a free afternoon. So we went out in the city but because it was raining we couldn’t go to the lakes and mountain as I was planning. So we gathered around and we went to the EUROPARK. It was a very nice mall, we get to buy presents and a lot of MOZART chocolate which I think is a tradition…we had so much fun there. We went back at dinnertime then we went to sleep.

**Thursday, May 17**: I woke up at 7 am, I couldn’t sleep well last night. After breakfast I went to the lecture hall, we had a couple of lectures after which I had some coffee and the chef de cuisine made a very delicious dessert which made my day because I love sweets. We had two more lectures about nutrition for babies then it was lunchtime.

Then the rest of the group had to present their cases. It was very good presentations and I really enjoyed every case. I had a break before dinner, so I started writing this diary.

I can’t believe that tomorrow is the last day and after this I will be back home. We have to go back on 19th of may after the graduation day. It’s always good to go home with good memories, but I will miss Salzburg and my colleagues very much. We became a family and I am sure I will stay in contact with each one of this seminar.

Thanks to the AAF and great OMI programs for such a wonderful opportunity, I hope to come back again in other seminars and in other programs.

_Walaa M. Abdelrahman, MD (Sudan)_