

2024 SPECIALTY REVIEW IN NEONATOLOGY
The Premier Board Review Course in Neonatal-Perinatal Medicine
February 19 – 24, 2024 | Caesars Palace, Las Vegas, NV
Emperors Level – Augustus Ballroom 5 & 6

DAY 1 – MONDAY, FEBRUARY 19, 2024

Introduction to the Course

Time	Topic	Speaker
8:00 am – 8:10 am	Welcome and Overview of Course	David L. Weisoly, DO

Maternal-Fetal Medicine

Time	Topic	Speaker
8:10 am – 9:00 am	The Placenta: Structure, Function and Maternal Disorders Affecting the Fetus	Blake Porter, MD
9:00 am – 10:00 am	Maternal-Fetal Medicine High Yield Problem-Based Review: Part 1	Blake Porter, MD
10:00 am – 10:30 am	Break – Augustus 3 & 4	
10:30 am – 11:30 am	Maternal-Fetal Medicine High Yield Problem-Based Review: Part 2	Blake Porter, MD
11:30 am – 12:00 pm	Board Exam Preparation: What Can You Do to Succeed?	David L. Weisoly, DO

General Care of the Neonate / Pharmacology / Fluids and Electrolytes / Birth Transition / Derm

Time	Topic	Speaker
12:00 pm – 12:30 pm	Neonatal Pharmacology Rapid Review: Audience Response Quiz Session	David L. Weisoly, DO
12:30 pm – 1:30 pm	Lunch – Augustus 3 & 4	
1:30 pm – 2:15 pm	Neonatal Thermoregulation and Heat Loss: Problem-Based Review and Tutorial	Fernando Moya, MD
2:15 pm – 3:15 pm	The Dharmapuri Vidyasagar Lectureship Everything You Need to Know About Fetal and Neonatal Growth in 2024	David L. Weisoly, DO
3:15 pm – 4:15 pm	Water Balance, Electrolytes and Acid Base: Problem-Based Review and Tutorial	Fernando Moya, MD
4:15 pm – 4:45 pm	Break – Augustus 3 & 4	
4:45 pm – 5:15 pm	Dermatology Photo Quiz: Rashes and Skin Disorders of the Neonate	Matthew Saxonhouse, MD
5:15 pm – 6:15 pm	Classic Neonatology Problems and Associations – An Interactive High Yield Review for Neonatologists	Matthew Saxonhouse, MD David L. Weisoly DO

Neonatal Gastroenterology and Nutrition

Time	Topic	Speaker
8:00 am – 10:15 am	Problem-Based Gastroenterology Review – a New Tutorial with Audience-Response Quiz	Camilia Martin, MD* James Moore, MD, PhD
10:15 am – 10:45 am	Break – Augustus 3 & 4	
10:45 am – 12:15 pm	All About Neonatal Nutrition – a Clinical-Based Audience-Participatory Tutorial	James Moore, MD, PhD David L. Weisoly, DO
12:15 pm – 1:15 pm	Lunch – Augustus 3 & 4	

Neonatal Hematology / Bilirubin / Neonatal Nephrology

Time	Topic	Speaker
1:15 pm – 2:45 pm	The Richard Rivas Memorial Award Lecture* All About Hematology: <ul style="list-style-type: none"> Review of Hematopoiesis, Hemoglobin and Red Cell Disorders Review of Platelets and Coagulation 	Matthew Saxonhouse, MD
2:45 pm – 3:15 pm	Break – Augustus 3 & 4	
3:15 pm – 4:30 pm	All About Hematology – continued: <ul style="list-style-type: none"> Pathophysiology, Prevention and Management of Bilirubin, Jaundice and Kernicterus 	Matthew Saxonhouse, MD
4:30 pm – 5:15 pm	Neonatal Nephrology: Disorders of Renal Development and Function, Renal Failure / Chronic Kidney Disease in the Neonate	Ravi M. Patel, MD
5:15 pm – 6:00 pm	Neonatal Nephrology: Acute Kidney Injury (AKI) and Difficult Nephrology Dilemmas (with some calculations)	Ravi M. Patel, MD
6:00 pm	Adjourn	
7:00 pm – 8:30 pm	Test Your Knowledge: A Fun Board-Type Question and Answer Session	Dara Brodsky, MD Camilia Martin, MD James Moore, MD, PhD Matthew Saxonhouse, MD David L. Weisoly, DO

Neonatal Respiratory System

Time	Topic	Speaker
8:00 am – 9:30 am	Birth Transition and Extrauterine Adaptation/Neonatal Resuscitation/Fetal Lung Fluid	Lucky Jain, MD
9:30 am – 10:30 am	Respiratory Prep for the Neonatal Boards I: Embryology, Lung Development, and Surfactant	Andrew Dylag, MD
10:30 am – 11:00 am	<i>Break & Exhibits – Palace Ballroom</i>	
11:00 am – 11:45 am	Respiratory Prep for the Neonatal Boards II: Pulmonary Mechanics	Andrew Dylag, MD
11:45 am – 12:15 pm	Respiratory Prep for the Neonatal Boards III: Mechanical Ventilation	Martin Keszler, MD
12:15 pm – 1:15 pm	<i>Lunch & Exhibits – Palace Ballroom</i>	
1:15 pm – 2:15 pm	Respiratory Prep for the Neonatal Boards IV: O ₂ /CO ₂ Gas Exchange	Martin Keszler, MD
2:15 pm – 3:30 pm	Applying Pulmonary Concepts to Clinical Disease	Andrew Dylag, MD Martin Keszler, MD
3:30 pm – 4:00 pm	<i>Break & Exhibits – Palace Ballroom</i>	
4:00 pm – 5:30 pm	Respiratory Disease Question and Answer	Andrew Dylag, MD Martin Keszler, MD
5:30 pm – 6:30 pm	<i>Reception – Palace Ballroom</i>	

Neonatal Cardiovascular System

Time	Topic	Speaker
8:00 am – 8:35 am	Cardiovascular Physiology of the Fetus with Clinical Applications	Dara Brodsky, MD
8:35 am – 9:15 am	Cardiac Hemodynamics in the Newborn	Dara Brodsky, MD
9:15 am – 9:45 am	Review of the Pathophysiology and Pharmacotherapy of Neonatal Shock	Dara Brodsky, MD
9:45 am – 10:15 am	Break & Exhibits – Palace Ballroom	
10:15 am – 10:45 am	Cardiac Physiology	Laurie Armsby, MD
10:45 am – 12:00 pm	The Physiology of Congenital Heart Disease and PDA – Part I: Case-Based Examples	Laurie Armsby, MD
12:00 pm – 1:30 pm	Lunch & Exhibits – Palace Ballroom	
1:30 pm – 2:15 pm	The Physiology of Congenital Heart Disease – Part II: Case-Based Examples	Laurie Armsby, MD
2:15 pm – 3:00 pm	ECG, Dysrhythmias and Electrocardiography: A Case-Based Review	Laurie Armsby, MD

Neonatal Neurology / CV Physiology Tutorial

Time	Topic	Speaker
3:00 pm – 3:45 pm	Neurology I: Cerebral Blood Flow, Intracranial Pressure, and IVH	Suman Ghosh, MD
3:45 pm – 4:30 pm	Neurology II: White Matter Injury, HIE, Intracranial and Extracranial Hemorrhage	Suman Ghosh, MD
4:30 pm – 5:00 pm	Break – Augustus 3 & 4	
5:00 pm – 7:15 pm	Cardiovascular Physiology Problem-Solving Tutorial	Dara Brodsky, MD Laurie Armsby, MD

**Genetics, Central Nervous System Part II, Neonatal Neurology and Core Scholarly Activities /
Biostatistics**

Time	Topic	Speaker
8:00 am – 9:00 am	Genetics Principles and Inborn Errors of Metabolism	Michael Gambello, MD
9:00 am – 10:30 am	Chromosome, Mendelian, and Non-Mendelian Disorders: High Yield Rapid Review	Michael Gambello, MD
10:30 am – 11:00 am	<i>Break & Exhibits – Palace Ballroom</i>	
11:00 am – 12:30 pm	Neonatal Neurology III: Review of Neonatal Neurologic Disorders, Seizures, Cerebral Palsy (CP) and Neurodevelopmental Outcomes of CP	Suman Ghosh, MD
12:30 pm – 1:30 pm	<i>Lunch & Exhibits – Palace Ballroom</i>	
1:30 pm – 3:30 pm	Review of Core Scholarly Activities, Management of Neonatal Care Systems, Quality Improvement and Biostatistics for the Neonatologist	John Zupancic, MD
3:30 pm – 4:00 pm	<i>Break – Augustus 3 & 4</i>	

Neonatal Infectious Diseases

Time	Topic	Speaker
4:00 pm – 5:00 pm	Neonatal Bacterial Infections – An Interactive Review with Audience Response	James Wynn, MD
5:00 pm – 6:00 pm	Neonatal Viral Infections – An Interactive Review with Audience Response	James Wynn, MD
6:00 pm – 6:30 pm	Neonatal Infection Potpourri – Audience Response Quiz Session	James Wynn, MD

Neonatal Endocrinology and Metabolism

Time	Topic	Speaker
8:00 am – 8:45 am	Neonatal Thyroid and Pituitary Disorders	Mark Vanderwel, MD
8:45 am – 9:30 am	Adrenal Gland Disorders / Steroid Pathways / CAH Review	Mark Vanderwel, MD
9:30 am – 10:15 am	Calcium and Phosphorus Metabolism and Disorders	Mark Vanderwel, MD
10:15 am – 10:45 am	<i>Break – Augustus 3 & 4</i>	
10:45 am – 11:30 am	Pathophysiology of Glucose Metabolism and Homeostasis	Mark Vanderwel, MD

Neonatal Immunology and Course Conclusion

Time	Topic	Speaker
11:30 am – 12:30 pm	High Yield Clinical Immunology for the Neonatologist	James Wynn, MD
12:30 pm	<i>Closing Remarks CE / Course Evaluations Adjourn</i>	