



2022 SPECIALTY REVIEW IN NEONATOLOGY
The Premier Board Review Course in Neonatal-Perinatal Medicine
 March 1-6, 2022 | San Diego, CA

DAY 1 – TUESDAY, MARCH 1, 2022

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 | David Burchfield, 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 | |
| 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 | |
| 1:30 pm – 2:15 pm | Neonatal Thermoregulation and Heat Loss: Problem-Based Review and Tutorial | Fernando Moya, MD |
| 2:15 pm – 3:00 pm | <i>The Dharmapuri Vidyasagar Lectureship</i> Fetal and Neonatal Growth / Aberrant Growth States: Problem-Based Review | David L. Weisoly, DO |
| 3:00 pm – 4:00 pm | Water Balance, Electrolytes and Acid Base: Problem-Based Review and Tutorial | Fernando Moya, MD |
| 4:00 pm – 4:30 pm | Break | |
| 4:30 pm – 5:30 pm | Classic Neonatology Problems and Associations – An Interactive High Yield Review for Neonatologists | Matthew Saxonhouse, MD David L. Weisoly, DO |
| 5:30 pm – 6:00 pm | Dermatology Photo Quiz: Rashes and Skin Disorders of the Neonate | Matthew Saxonhouse, MD David L. Weisoly, DO |



DAY 2 – WEDNESDAY, MARCH 2, 2022

Neonatal Gastroenterology and Nutrition

| Time | Topic | Speaker |
|---------------------|--|--|
| 8:00 am – 10:15 am | Problem-Based Gastroenterology Review – an Audience-Participatory Tutorial | Camilia Martin, MD James Moore, MD, PhD |
| 10:15 am – 10:45 am | Break & Exhibits | |
| 10:45 am – 12:15 pm | All About Neonatal Nutrition – an Audience-Participatory Tutorial | James Moore, MD, PhD David L. Weisoly, DO |
| 12:15 pm – 1:15 pm | Lunch & Exhibits | |

Neonatal Hematology / Bilirubin / Neonatal Nephrology

| Time | Topic | Speaker |
|-------------------|--|--|
| 1:15 pm – 2:45 pm | 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 & Exhibits | |
| 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 Audience Response Quiz on Blood Smears | Matthew Saxonhouse, MD |
| 4:30 pm – 5:15 pm | Neonatal Nephrology: Renal Development and Function, Renal Failure | Ravi M. Patel, MD, MSc |
| 5:15 pm – 6:00 pm | Neonatal Nephrology: AKI and Nephrology Problems/Calculations | Ravi M. Patel, MD, MSc |
| 6:00 pm | Adjourn | |
| 7:00 pm – 9:00 pm | SR Battle of the Boards – 6th Edition!! An Evening of Quiz Questions & Camaraderie! | Dara Brodsky, MD Camilia Martin, MD James Moore, MD, PhD Matthew Saxonhouse, MD David L. Weisoly, DO |



DAY 3 – THURSDAY, MARCH 3, 2022

Neonatal Respiratory System

| Time | Topic | Speaker |
|---------------------|---|--------------------------------------|
| 8:00 am – 9:00 am | Birth Transition and Extrauterine Adaptation/Neonatal Resuscitation | Lucky Jain, MD |
| 9:00 am – 9:45 am | Lung Development and What Can Go Wrong | Lucky Jain, MD |
| 9:45 am – 10:15 am | Break & Exhibits | |
| 10:15 am – 11:00 am | RDS and Surfactant Proteins/Surface Tension and Balloon Problems | Lucky Jain, MD |
| 11:00 am – 12:00 pm | Respiratory Mechanics: Respiratory Physiology, Pulmonary Function Testing | David Burchfield, MD |
| 12:00 pm – 1:00 pm | Lunch & Exhibits | |
| 1:00 pm – 2:00 pm | Pulmonary Hypertension: Hypoxic Respiratory Failure / MAS / PPHN and Intrinsic Pulmonary Disorders or Anomalies Resulting in PPHN | David Burchfield, MD |
| 2:00 pm – 2:45 pm | Interactive Case-Based Review of O ₂ and CO ₂ Physiology, Alveolar Gas Equation, Bohr Effect with Audience Response | Martin Keszler, MD |
| 2:45 pm – 3:30 pm | Physiology of Mechanical Ventilation: Do You Understand the Modes, Loops and Curves? A Case-Based Review with Audience Response | Martin Keszler, MD |
| 3:30 pm – 4:00 pm | Break & Exhibits | |
| 4:00 pm – 5:30 pm | Pulmonary Problem-Solving Workshop / Tutorial I (Audience Response Quiz Session) | Lucky Jain, MD Martin Keszler, MD |
| 5:30 pm – 6:30 pm | Pulmonary Problem-Solving Workshop / Tutorial II | Lucky Jain, MD Martin Keszler, MD |
| 6:30 pm – 7:30 pm | Reception (TBD) | |



DAY 4 – FRIDAY, MARCH 4, 2022

Neonatal Cardiovascular System

| Time | Topic | Speaker |
|---------------------|---|-------------------|
| 8:00 am – 8:35 am | Cardiovascular Physiology of the Fetus | 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 | |
| 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 | |
| 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 | Pathophysiology of Cerebral Blood Flow, Intracranial Pressure, and IVH | Michael Weiss, MD |
| 3:45 pm – 4:30 pm | White Matter Injury, HIE, Intracranial and Extracranial Hemorrhage | Michael Weiss, MD |
| 4:30 pm – 5:00 pm | Break | |
| 5:00 pm – 7:15 pm | A New Cardiovascular Physiology Problem Solving Tutorial | Dara Brodsky, MD Laurie Armsby, MD |



DAY 5 – SATURDAY, MARCH 5, 2022

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 | Break | |
| 11:00 am – 12:30 pm | Neonatal Neurology: Review of Neonatal Neurologic Disorders, Seizures, Cerebral Palsy and Neurodevelopmental Outcomes of CP | TBA |
| 12:30 pm – 1:30 pm | Lunch | |
| 1:30 pm – 3:00 pm | Review of Core Scholarly Activities and Biostatistics for the Neonatologist | John Zupancic, MD |
| 3:00 pm – 3:30 pm | Break | |

Neonatal Infectious Diseases

| Time | Topic | Speaker |
|-------------------|---|----------------|
| 3:30 pm – 5:00 pm | <i>The Richard Rivas Memorial Award Lecture*</i> Neonatal Bugs: Bacterial, Viral and Fungal Infections – An Interactive Review with Audience Response | James Wynn, MD |
| 5:00 pm – 6:15 pm | I.D. Clinical Dilemmas and Photographic Tutorial: Audience Response Quiz Session | James Wynn, MD |



DAY 6 – SUNDAY, MARCH 6, 2022

Neonatal Endocrinology and Metabolism

| Time | Topic | Speaker |
|---------------------|---|---------------|
| 8:00 am – 8:45 am | Neonatal Thyroid and Pituitary Disorders | Tandy Aye, MD |
| 8:45 am – 9:30 am | Adrenal Gland Disorders / Steroid Pathways / CAH Review | Tandy Aye, MD |
| 9:30 am – 10:15 am | Calcium and Phosphorus Metabolism and Disorders | Tandy Aye, MD |
| 10:15 am – 10:45 am | Break | |
| 10:45 am – 11:30 am | Pathophysiology of Glucose Metabolism and Homeostasis | Tandy Aye, MD |

Core Scholarly Activities / Biostatistics for the Neonatologist: Part II

| Time | Topic | Speaker |
|---------------------|---|-----------------|
| 11:30 am – 12:15 pm | Lunch | |
| 12:15 pm – 2:00 pm | Audience Response Quiz: “Do You Really Understand the Stats?” | Reese Clark, MD |

Neonatal Immunology

| Time | Topic | Speaker |
|-------------------|---|----------------|
| 2:00 pm – 2:45 pm | High Yield Clinical Immunology for the Neonatologist | James Wynn, MD |
| 2:45 pm | Closing Remarks CE / Course Evaluations Adjourn | |