

SALZBURG WEILL CORNELL/NYPH SEMINAR

Anesthesiology and Intensive Care – 3-Year Curriculum

YEAR 1 (2018, 2021, 2024, etc.)

Core Area: Cardiothoracic

Subdivisions of Core Area:

1. Cardiac Physiology
2. Transesophageal Echocardiography
3. Cardiac Pharmacology – Vasoactive Drugs and Beta Blockers
4. Arrhythmias and Antiarrhythmic Therapy, Pacemakers, ICDs
5. Thoracic Anesthesia

Core Area: General

Subdivisions of Core Area:

1. Economics of Health Care
2. What's New in Neuromuscular Blockade
3. Anesthesia for Vascular Surgery
4. Ambulatory Anesthesia
5. New Developments in Regional Anesthesia

Core Area: Obstetrics

Subdivisions of Core Area:

1. Update on Obstetric Anesthesia

Core Area: Pain

Subdivisions of Core Area:

1. Multimodal Pain Management
2. Ultrasound Guided Regional Anesthesia

Core Area: Intensive Care

Subdivisions of Core Area:

1. Mechanical Ventilation in the ICU
2. ICU Sedation, Delirium, and Metabolic Issues
3. Sepsis and SIRS

Core Area: Pediatrics

Subdivisions of Core Area:

1. Regional Anesthesia in Children
2. Congenital Heart Disease
3. Update on Pediatric Anesthesia



YEAR 2 (2019, 2022, 2025, etc.)

Core Area: Cardiothoracic

Subdivisions of Core Area:

1. Thoracic Anesthesia and Analgesia

Core Area: General

Subdivisions of Core Area:

1. Neuropharmacology of General Anesthesia
2. Adverse Drug Reactions and Interactions
3. Coagulation, Coagulopathy and Anticoagulation
4. Blood Conservation and Transfusion Therapy
5. Anesthesia for Organ Transplantation
6. Geriatric Anesthesia
7. Morbid Obesity
8. Ultrasound-guided Vascular Techniques
9. Complications of Anesthesia and Patient Safety
10. Research Methodology
11. Perioperative Information Technology
12. Advances in Monitoring
13. Postoperative Nausea and Vomiting

Core Area: Pain

Subdivisions of Core Area:

1. Regional Anesthesia and Local Anesthetic Pharmacology

Core Area: Critical Care

Subdivisions of Core Area:

1. Cardiopulmonary Resuscitation
2. ARDS
3. Burns; Mass Casualty; Biological and Chemical Weapons

Core Area: Neuroanesthesia

Subdivisions of Core Area:

1. Neurophysiology – Cerebral Blood Flow, ICP
2. Postoperative Cognitive Dysfunction
3. Sedation, Amnesia and Awareness under Anesthesia
4. Neuroprotection and Stroke

YEAR 3 (2020, 2023, 2026, etc.)

Core Area: Cardiothoracic

Subdivisions of Core Area:

1. Pericardial and Mediastinal Diseases
2. Management of Perioperative Hypertension
3. Coronary Artery Disease, Heart Failure and Anesthesia

Core Area: General

Subdivisions of Core Area:

1. Malignant Hyperthermia
2. Patient Positioning and Neuropathy
3. Operating Room Management
4. Anesthesia for Prostatectomy and Robotic Procedures
5. Anesthesia Outside the Operating Room
6. Trauma Resuscitation and Anesthesia
7. Controlled Hypotension

Core Area: Pain

Subdivisions of Core Area:

1. Perioperative Pain Management
2. Common Chronic Pain Syndromes
3. Regional Anesthesia in Anticoagulated Patients
4. Opioid Dependence and Pain Therapy
5. Establishing a Pain Service

Core Area: Intensive Care

Subdivisions of Core Area:

1. Artificial Ventilation
2. Prevention and Treatment of Infection in the ICU

Core Area: Pediatrics

Subdivisions of Core Area:

1. Pediatric Preoperative Evaluation and Airway
2. Prevention and Management of Common Pediatric Anesthetic Complications
3. Pediatric Neuroanesthesia
4. Neonatal Physiology and Hypothermia