



# OPEN MEDICAL INSTITUTE

## CURRICULUM

ANESTHESIOLOGY AND  
INTENSIVE CARE  
SEMINARS IN SALZBURG

A Global Educational Initiative by the  
American Austrian Foundation

## YEAR 1 (2024, 2027, 2030, 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 (2022, 2025, 2028, 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 (2023, 2026, 2029, 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