

# Department of Anesthesiology, Intensive Care Medicine and Resuscitation, University Hospital Ostrava

## TRAINING POSSIBILITIES

### 1. General anesthesia

Our department encompasses all basic and specialized types of general anesthesia during general surgery including: abdominal (inclusion basic and advanced laparoscopy), colorectal, thoracic, vascular, hepatobiliary and pediatric surgery. Moreover, there are high standard traumatologic and orthopedic surgery, neurosurgery, urologic surgery, otorhinolaryngology, oral and maxillofacial surgery, obstetric and gynecologic surgery as well as burn and plastic surgery, etc.

- Introduction into preparation of patients before anesthesia
- Observation of whole spectrum of above mentioned surgery procedures
- Education of principles of general anesthesia
- Administration of sedation
- Possibility to practical training in intubation and vascular cannulation
- Perioperative hemodynamic management
- Perioperative respiratory management
- Introduction to function of Recovery Room

### 2. Regional anesthesia

Training in various type of regional anesthesia (local, topical, peripheral nerve blocks, spinal, epidural).

### 3. Intensive care medicine

Department of Anesthesiology, Intensive Care Medicine and Resuscitation owns 23 ICU beds in four departments, which provide high standard of care for all patients suffering from or at risk of organ failure.

- Education in principles of perioperative intensive care
- Basics of intensive care diagnostics and monitoring
- Management of sepsis and multiple organ dysfunction

Most forms of organ replacement therapy, especially lung (mechanical ventilation, veno-venous form of extracorporeal membrane oxygenation) and kidneys (intermittent and continuous renal-replacement therapy).

Practical training in all aspects of mechanical ventilation (basic protective settings, ventilator-induced/associated injury, weaning from mechanical ventilation, etc.).

- Practical exercise in hemodynamic monitoring and optimization

Intensive care management of severe forms of traumatic brain injury (advanced neuroinvasive monitoring – intracranial pressure, jugular oxymetry, transcranial dopplerometry).

- Multiple trauma management
- Principles of management of sedation in intensive care
- Basics in ultrasonography in intensive care (lung sonography, echocardiography, UZ-guided vascular cannulation, etc.)

#### 4. **Pain management**

Education in general aspects of pain management in the department as well as at the other departments (Acute Pain Service).

Length of training: **2-4 weeks**

Content of training: the training can be modified according to the needs of trainee

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