

ANESTHESIOLOGY – MEDICINE 5th YEAR

SEMINARS:

The seminars are designed so that the student processes particular subject area, usually in the form of PowerPoint presentations. The teacher (mentor) evaluates student presentation (grades 1-5). Each absence from seminars must be additionally passed (colloquium) at the respective teachers. Without it, the student is not allowed to approach the final exam!!

Seminar topics and mentors:

- S1. Fluid Therapy and Venous Access (central, peripheral) (2 hours) – Doc. S. Glumac
- S2. Cardiopulmonary Reanimation (2 hours) – Doc. M. Lojpur
- S3. Local Anesthetics (2 hours) – Doc. I. Agnic
- S4. Acute Pain. Postoperative Pain (2 hours) – Doc. I. Agnic
- S5. Chronic pain. Pain Clinics (2 hours) – S. Kraljevic, M.Sc.
- S6. Non-invasive Monitoring of Vital Parameters (2 hours) – N. Dropulic, Ph.D.
- S7. Emergencies caused by Environmental Factors (2 hours) - B. Ivancev, Ph.D.
- S8. Hemodynamics (1 hour) – B. Ivancev, Ph.D. + Vasoactive drugs (1 hour) – S. Dosenovic, Ph.D.
- S9. Acute Coronary Syndrome (2 hours) – M. Lojpur, Ph.D.
- S10. Oxygen Therapy (2 hours) – B. Duplancic, Ph.D.

DETAILED SCHEDULE WITH PARTICIPATING STUDENTS (yellow)

S1. Fluid Therapy and Venous Access, (2 hours), November 29th

Mentor: S. Glumac, sandro.glumac@gmail.com

a) Intravenous cannulas, catheters + Venous approach, central and peripheral (30 min) **1**

b) Crystalloids and colloids (30 min) **2**

Discussion: 30 min

S2. Cardiopulmonary reanimation (2 hours) November 30th

Mentor: M. Lojpur, mihajlo.lojpur@gmail.com

a) BLS 1 – ventilation, compressions, AED (30 min) **3**

b) ALS 1 – Drugs in CPR (15 min) **4**

c) ALS 2- bradycardia and tachycardia algorithms, pacemakers, cardioversion (25 min)

5

Discussion: 20 min

S3. Local Anesthetics (2 hours) December 1st

Mentor: I. Agnić, agnic33@gmail.com,

a) Overview and classification of LAs (30 min) **6**

b) Local and systemic complications of local anesthetics; Treatment of local anesthetic toxicity (30 min) **7**

Discussion: 30 min

S4. Acute Pain. Postoperative Pain. December 2nd

Mentor: I. Agnić, agnic33@gmail.com,

a) Analgesics (opioid and non-opioid analgesics (30 min) **8**

b) Postoperative pain (epidural, nerve blocks, ...) (30 min) **9**

Discussion: 30 min

S5. Chronic pain (2 hours) December 3rd

Mentor: S. Kraljevic, suzyenkraljevic@ymail.com

a) Chronic Pain Treatment, Back Pain Treatment (30 min.) **10**

b) Neuropathic Pain (30 min.) **11**

Discussion: 30 min

S6. Non-invasive Monitoring of Vital Parameters (2 hours) December 6th

Mentor: N. Dropulic, natasa.dropulic@inet.hr

a) monitoring of cardiac function and circulation (30 min) **12**

b) monitoring of ventilation + other monitoring – INVOS, BIS, temperature (30 min) **1**

Discussion: 30 min

S7. Emergencies caused by Environmental Factors (2 hours) December 7th

Mentor: B. Ivančev, bozena.ivancev@gmail.com

a) Drowning, Near-drowning; Hypothermia (30 min) **2**

b) Electrical Injuries. Lightning Injuries. Envenomations – snakes (30 min) **3**

Discussion: 30 min

S8.

A. Hemodynamics. (1 hour) December 8th

Mentor: B. Ivančev, bozena.ivancev@gmail.com,

a) Basic physiology – cardiac output, systemic and pulmonary vascular resistance, (15 min) **4**

b) Hemodynamic effects of anesthetics, opioids and relaxants (15 min)

Discussion: 15 min **5**

B. Vasoactive drugs, (1 hour), December 8th

Mentor: S. Dosenovic, sdosenovic@yahoo.com,

a) Inotrope drugs (15 min) **6**

b) Vasoconstrictors and Vasodilators. (15 min) **7**

Discussion: 15 min

S9. Acute Coronary Syndrome (2 hours) December 9th

Mentor: M. Lojpur, mihajlo.lojpur@gmail.com

a) Ischemic Heart Disease; Definition, epidemiology, pathogenesis (30min) **8**

b) ACS – diagnosis, clinical symptoms and signs, treatment (30 min) **9**

Discussion 30 min

S10. Oxygen therapy (2 hours) December 10th

Mentor: B. Duplančić, bozidarduplancic@gmail.com

a) Oxygen - the storage, transport and handling. Oxygen therapy - masks nasal catheters, Venturi masks (20 min) **10**

b) Oxygen toxicity (20 min) **11**

c) Oxygen therapy during COVID 19 pandemics (20 min) **12**

Discussion: 30 min

Students' numbers in yellow and green colour