



INTENSIVE THERAPY AND ANESTHESIOLOGY (COMPULSORY)

ORAL EXAM TOPICS

(for those, who are retaking the testexam)

On the exam, 2 themes („A” and „B”) will be asked!

„A”

1. Shock states: Pathophysiology, Classification, Diagnosis, Therapy
2. Cardiogenic shock: pathophysiology, causes and therapy
3. Anaphylactic shock: pathophysiology, causes and therapy
4. Haemorrhagic shock: pathophysiology, causes and therapy
5. Electrolyte homeostasis and disturbances: hypo- and hyperkalaemia, hypo- and hypernatraemia
6. Acid-base balance disorders and their therapy: metabolic and respiratory acidosis, alkalosis
7. Fluid homeostasis and its disturbances: Dehydration, hypo- and hypervolaemic states and their therapy
8. Volume therapy (indication, colloid and crystalloid solutions) and transfusion
9. Sepsis, SIRS, septic shock and MOF: pathophysiology, diagnosis and therapy

10. Basics of acute respiratory failure and ventilatory support
11. Obstructive pulmonary disease and Asthma Attack (pathomechanism, diagnostic steps and therapy)
12. Pneumonias (community and hospital acquired) and ARDS
13. Postoperative respiratory failure and weaning

„B”

1. Acute renal insufficiency: pathomechanism and therapy
2. Acute pancreatitis: pathomechanism and therapy
3. Diabetic disorders (DKA, HHS and hyperglycaemia)
4. GI bleeding: pathomechanism and therapy
5. Acute hepatic failure and coma hepaticum
6. Acute left and heart failure and acute coronary syndromes in the ICU

- 7. Basics of antiarrhythmic therapy:
cardioversion and chemotherapy of
tachy- and bradyarrhythmias**
- 8. 11. The polytrauma patient:
pathomechanism and basics of
therapy**
- 9. 12. Basics of anesthesiology I.:
anxiolytics, opiates, muscle relaxants**
- 10. 13. Basics of anesthesiology II:
hypnotics (thiopentone, propofol,
etomidate and ketamine)**
- 11. 14. Basics of anesthesiology III:
inhalative agents (N₂O, Halotane,
Enflurane, Isoflurane, Sevoflurane
and Desflurane)**
- 12. Basics of anesthesiology IV.: epidural
and spinal anesthesia, local
anesthetics (lidocaine, procaine,
bupivacaine, ropivacaine)**
- 13. Pulmonary embolism and DIC:
pathophysiology, diagnosis and
therapy**
- 14. Stroke: pathophysiology, diagnosis
and therapy**