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ASSESSMENT TOOLS

ANAESTHESIOLOGY, RESUSCITATION, INTENSIVE CARE

Curriculum	31.05.01 General Medicine
Specialty	General Medicine
Form of education	Full-time
Designer Department	Cardiology
Graduate Department	Internal Diseases

Sample tasks and tests

List of essay topics.

Topic 1. Theoretical and practical issues of anesthesiology

1. Classification of pain. Pain mechanisms. Antinociceptive systems.
2. Narcotic and non-narcotic analgesics.
3. Components and stages of general anesthesia.
4. Early postoperative period.
5. Regional anesthesia.

Topic 2. Intensive therapy of acute respiratory failure

1. Diagnosis and intensive therapy of acute respiratory failure.
2. Acute respiratory distress syndrome.
3. severe pneumonia.
4. Asthmatic status.
5. Thromboembolism of the pulmonary artery.

Topic 3. Intensive therapy of acute cardiovascular failure

1. Resuscitation and intensive therapy of acute myocardial infarction.
2. Resuscitation and intensive therapy of life-threatening cardiac rhythm disorders.
3. intensive therapy of arterial hypertension.
4. Intensive therapy of acute cardiovascular insufficiency in children.
5. Invasive and non-invasive hemodynamic monitoring.

Topic 4. Resuscitation and intensive therapy of shock states

1. Pathophysiology, diagnosis, principles of intensive therapy of shock.
2. Cardiogenic shock.
3. Hemorrhagic shock.
4. Septic shock.
5. Anaphylactic shock.

Topic 5. Resuscitation and intensive care of acute disorders of consciousness

1. Examination and therapy of patients in a comatose state. 1.
2. Algorithm of seizure syndrome correction.
3. Diagnosis of brain death.
4. Intensive therapy of craniocerebral trauma.
5. Intensive therapy of CNMK.

Topic 6. Methods of resuscitation of terminal conditions

1. Basic resuscitation measures.
2. Advanced resuscitation measures.
3. Pediatric and neonatal resuscitation.
4. Treatment of life-threatening tachy- and bradyarrhythmias.
5. Intensive therapy of postreanimation disease.

Topic 7. Disorders of acid-base and water-electrolyte metabolism

1. acidosis, causes, diagnosis, treatment.
2. Alkalosis, causes, diagnosis, treatment.
3. Dehydration, clinic, diagnosis, treatment.
4. Hyperhydration, clinic, diagnosis, treatment.
5. Violation of sodium and potassium metabolism.

Topic 8. Basics of infusion therapy and parenteral nutrition

1. Classification, indications and contraindications to infusion therapy.
2. The use of colloids and crystalloids.
3. Catheterization of central and peripheral veins.
4. Methods of enteral nutrition.
5. Rules of parenteral nutrition.

Topic 9. Resuscitation and intensive care for exo- and endotoxycosis

1. Classification and general principles of therapy of acute poisoning.
2. Clinic, diagnosis and intensive therapy in poisoning with alcohol surrogates.
3. Clinic, diagnosis and intensive therapy in poisoning with cauterizing liquids.
4. Clinic, diagnosis and intensive therapy in carbon monoxide poisoning.
5. Features of resuscitation and intensive care of acute poisoning in children, elderly, old age.

Points for oral quiz.

1. Methods of local anesthesia.
2. Methods of general anesthesia.
3. Combined anesthesia
4. Intensive therapy of acute respiratory failure
5. Resuscitation and intensive care in acute respiratory failure due to massive pneumonia
6. Acute respiratory distress syndrome
7. Intensive therapy of acute cardiovascular failure
8. Resuscitation and intensive therapy of acute heart failure
9. Invasive and non-invasive hemodynamic monitoring
10. Resuscitation and intensive therapy of shock states
11. Traumatic shock - pathophysiology, diagnostics, principles of intensive therapy
12. Septic shock, pathophysiology, principles of diagnostics and intensive therapy
13. Resuscitation and intensive therapy of acute disorders of consciousness
14. General issues of clinic, diagnosis, intensive therapy of acute disorders of consciousness.
15. Intensive therapy of acute disorders of consciousness in craniocerebral trauma.
16. Intensive therapy of acute disorders of consciousness in cerebral circulatory disorders.
17. Methods of resuscitation of terminal conditions
18. Protocols of resuscitation measures at pre-hospital and hospital stages
19. Intensive therapy of post-reanimation disease
20. Pathophysiology of disorders of acid-alkaline state and water-electrolyte metabolism
21. Types of acute disorders of acid-base state.
22. Methods of treatment of acute disorders of acid-basic state
23. Types of acute disorders of water-electrolyte balance
24. Methods of treatment of acute disorders of water-electrolyte balance
25. Characteristics of infusion media: crystalloid, colloidal on the basis of dextran, hydroxyethyl starch, modified gelatin

26. Vascular access: catheterization of peripheral and central veins.
27. Resuscitation and intensive care for exo- and endotoxemia
28. Diagnosis and intensive care of the most common poisonings
29. First aid in acute poisoning. Antidote therapy. Characteristics of methods of active detoxification