

**Examination questions in**  
**clinical skills**  
**for International Faculty of Medicine and Stomatology students**

NN 1 – 16 “Clinical skills” IV semester  
NN 17 – 28 “Clinical skills ” VII-VIII semester  
NN 29 – 43 “Clinical skills ” XI-XII semester

1. Antisepsis and aseptic principles. Hand-hygiene technique.
2. Technique of applying and removing sterile gloves.
3. Vital signs: pulse, respiratory rate, blood pressure. Pulse oximetry.
4. Moving and turning the patient in bed, bed linen changing technique. Sanitary treatment of the bedridden patient, treatment and prevention of bedsores. Rules for heat and ice therapy. Nasopharyngeal smear technique.
5. Dangerous waste classification and segregation.
6. Parenteral and intradermal injection.
7. Intramuscular injection (Gospel, gluteal, the deltoid muscle), (indications, contraindications). Vaccination procedure.
8. Intravenous injection (indications, contraindications).
9. Peripheral vein catheterization; using of the infusion system: (indications, contraindications, complications).
10. Bladder catheterization technique, urine collection specimen, indications, contraindications, complications.
11. Nasogastric intubation indications, contraindications, complications.
12. First aid for external bleeding. Capillary, venous, arterial pressing bandage. First aid for nosebleeding, Bandage on the finger, wrist joint, elbow, knee, ankle-leg joints.
13. Determining the underlying cardiovascular vital signs: Determination of arterial pulse, blood pressure, non-invasive determination, respiration rate determination.
14. First aid for injuries (shoulder, collarbone, ankle and shin-ankle).
15. Transporting the patient to walk, wheelchair, stretcher, shield, by hand, with a crutch.
16. Adult Resuscitation- Basic Life Support (BLS): Assessment of vital signs –peripheral pulse, arterial pulse , blood pressure measurement. The principles of first aid : Action plan of first aid, alphabet of first aid DR CAB (doctor CAB), cardio-pulmonary resuscitation, heart direct and indirect massage technique.
17. Basic principles of communication with the patient. Communication skills doctor-patient relationship, patient's rights, doctor's rights and responsibilities, introducing doctor to the patient, medical interviewing. At lecture there will be discussed doctor –patient relationship according to Calgary-Cambridge model, medical interviewing and counseling skills, criteria of standard patient assessment.
18. Hand washing technique. Sterile glove donning technique. Bimanual examination technique. Vaginal Speculum Insertion/removal technique. Stabilizing the cervix with teniculum and its removing technique. Sounding technique of the uterus. IUD insertion technique.

19. Obstetrical forceps, types, function, indications and contraindications for forceps delivery, prerequisites for assisted vaginal delivery, correct application of forceps in cephalic presentation.
20. PAP smear taking technique. Bimanual examination technique. Outlet obstetrical forceps use in cephalic presentation
21. General examination of the newborn, steps of examination: pulmonary system, cardiovascular system, newborn posture, skin, skull, face, eyes, oral cavity, neck. Assessment of vital signs: pulse rate, respiration, temperature, saturation. Physical growth evaluation.
22. Newborn Emergency Care. Identification of danger signs. Common causes of cardio-respiratory arrest. Bag and mask ventilation. Chest compression (in neonates and pediatric patients.).
23. Removal of a foreign body from the respiratory tract of a newborn and infant.
24. Demonstration locations and sequence of points for lung auscultation, simulation of breath sounds (vesicular, bronchi-vesicular cavernous breath abnormal bronchial breath, wheezes, fine crackles, pleural rub, coarse crackles,). Auscultation results of lung edema, egophonia, stridor.
25. Demonstration locations and sequence of points for heart auscultation, simulation of heart sounds, physiological and pathological sounds, murmurs.
26. Nasogastric intubation indications, contraindications, complications.
27. Bladder catheterization technique in females, urine collection specimen, indications, contraindications, complications.
28. Bladder catheterization technique in males, urine collection specimen, indications, contraindications, complications.
29. Auscultation of lungs in adults and its X-rays images. Demonstration locations and sequence of points for auscultation on simulator. Identification of different auscultation sounds. Assessment of different X-ray images (normal and abnormal).
30. Auscultation of the heart (in adults). Demonstration locations and sequence of points for auscultation. Normal heart sounds, splitting of the sounds, pathological sounds. Heart murmurs(systolic and diastolic).
31. Basics of Ultrasound Examination. Basic Ultrasound: Scanning and evaluation of internal organs: liver, gallbladder, kidneys and heart.
32. ECG: Interpretation of normal ECG and the main types of pathological ECG. Demonstration/teaching of ECG technique, interpretation of normal electrocardiogram. ECG signs of ventricular hypertrophy and atrial dilatation, signs of ischemia and MI.
33. Interpretation of arrhythmias. Pathophysiology, aetiology, Normal sinus rhythm, Sinus tachycardia, bradycardia, Atrial fibrillation, Atrial flutter, Supraventricular tachycardia, Monomorphic ventricular tachycardia, Polymorphic ventricular tachycardia, Ventricular fibrillation, Pulseless electrical activity, Asystole, First-degree AV block, Second-degree AV block (type I, type II), Third-degree AV block, LBBB and RBBB.
34. Adult resuscitation. Management of arrhythmias. Cardiopulmonary Resuscitation: Chest compressions, Opening airways, mouth-to-mouth resuscitation, bag-valve-mask ventilation; Defibrillator (defibrillation, synchronized cardioversion)
35. Surgery. Repair of Special Structures and Ligation Techniques. Vaccination technique, expected complications and first aid: Hand wash procedure, sterile glove put on/take of. First

aid or external bleeding. Debridement. Suturing. Repair of special structures and ligation techniques.

36. Types of wounds. Torose and uninterrupted suture. Simple and surgical knots. Ligation of the soft tissues in the cavity.
37. Trauma management.
38. First aid of fracture.
39. First aid of burns and scalds.
40. First aid of external bleeding.
41. Ophthalmology. Using rules of fundocopy. Findings of Ophthalmological examination: normal, hypertensive retinopathy, diabetic retinopathy, papilloedema, central retinal vein occlusion, central retinal artery occlusion, senile macular degeneration, glaucoma.
42. Otology, Ear examination and diagnosis of various pathologies. PCR test technique. To demonstrate the use of otoscope on simulator. To inspect ear canals of variable sizes; To inspect eardrum and identify middle otitis (mucous and serous), chronic and acute purulent otitis media.
43. To recognize cholesteatoma; to identify clinical picture of tympanosclerosis; to recognize the clinical picture of eardrum membrane perforation trauma; to perform clinical skills of sulphur cork removal; to perform foreign body removal technique from outer ear canal.