

## Examinational questions for 5<sup>th</sup> year foreign students

1. Examination of orthopedic patients. Methods of extremities axis assessment. Main types of extremities axis deformations. Ways of definition of an axis of an extremity.
2. Examination of orthopedic patients. Methods of extremities length measuring. Types of extremities length discrepancy and methods of their assessment.
3. Examination of orthopedic patients. Methods of joints range of motion assessment. Types of contractures.
4. Absolute and relative clinical symptoms of fractures and dislocations. Types of bone fragments displacement.
5. Conservative and operative methods of fractures treatment. Concept about a stable and functional osteosynthesis.
6. Bone healing (physiological and reparative), stages of bone callus formation.
7. Bone healing abnormalities (delayed union, non-union, malunion). Causes. Treatment methods. Bone grafting.
8. Fractures of a clavicle: diagnostics, complications, treatment methods
9. Clavicle dislocations: classification, treatment methods
10. Traumatic dislocations of a shoulder. Classification. Trauma mechanism. Clinic. Methods of reduction. Treatment.
11. Recurrent shoulder dislocation. Causes, diagnostics, treatment.
12. Fractures of a surgical neck of a shoulder. Classification. Diagnostics. Treatment.
13. Fractures of a shaft of the humerus. Classification, complications. Diagnostics. Treatment.
14. Supracondylar and intercondylar fractures of a shoulder. Classification. Diagnostics. Treatment.
15. Vascular and neurologic complications of supracondylar and intercondylar fractures of a shoulder. Diagnostics. Treatment.
16. Traumatic dislocations of a forearm. Classification. Trauma mechanism. Clinic. Methods of reduction. Treatment.
17. Olecranon fractures: trauma mechanism, diagnostics, methods of conservative and operative treatment.
18. Forearm diaphyseal fractures: classification, typical bone fragments displacement. Diagnostics. Emergency medical care and treatment.
19. Fractures of distal metaepiphysis of the radius (Kolles's and Smith's fractures): a trauma mechanism, diagnostics, typical bone fragments displacement, treatment.
20. Fractures, dislocations of carpal bones (scaphoid, semi-lunar): clinic, diagnostics. Conservative and operative methods of treatment.
21. Fractures of metacarpal bones and phalanxes of fingers: diagnostics, treatment.
22. Flexor tendons Injuries, their diagnostics, treatment.
23. Extensor tendons Injuries, their diagnostics. Conservative and operative treatment of extensor tendons injuries.

24. AO classification of pelvic fractures. Trauma mechanism. Clinic and diagnostics of pelvic fracture.
25. Conservative and operative methods of treatment of patients with different types of pelvic fractures.
26. Classification of spinal fractures. Trauma mechanism, general principles of treatment.
27. Fractures of cervical spine. Clinic, diagnostics, treatment.
28. Fractures of thoracic spine. Treatment.
29. Fractures of lumbar spine. Clinic, diagnostics, treatment.
30. Methods of the uncomplicated and complicated fractures of vertebrae bodies treatment: conservative and operational methods of treatment.
31. Classification of proximal femur fractures. Peculiarities of bone regeneration in this zone.
32. Medial fractures of a femur, classification, treatment methods. Peculiarities of bone healing.
33. Trochanteric femoral fractures. Trauma mechanism, clinic, diagnostics, treatment methods.
34. Traumatic hip dislocations. Classification. Trauma mechanism. Clinic. Methods of reduction. Treatment. Complications.
35. Fractures of the shaft of the femur. Clinic, diagnostics, treatment methods
36. Patella fractures and dislocations - a clinical picture, diagnostics, methods treatment
37. Fractures of femoral and tibial condyles. Mechanism, clinic, diagnostics, treatment.
38. Injuries of meniscuses. Classification. Diagnostics, treatment
39. Injuries of a knee joint ligaments: collateral and crucial ligaments, patella tendon. Clinical signs. Diagnostics, treatment.
40. Traumatic crus dislocations. Classification. Trauma mechanism. Complications. Clinic. Methods of reduction. Treatment.
41. Malleolar fractures, classification (pronation ionic and supination), clinic, diagnostics.
42. Malleolar fractures, conservative and operative methods of treatment.
43. Fractures of talus and calcaneus, trauma mechanism, clinic, diagnostics and treatment.
44. Fractures of metatarsal bones and phalanxes of fingers. Diagnostics. Treatment.
45. Congenital hip displasia. Etiology. Pathological anatomy. Degrees of hip displasia and their characteristic.
46. Clinical symptoms of congenital hip displasia in newborns. Radiological and ultrasonic diagnostics. Hilgenreynner's scheme.
47. Congenital hip displasia, clinic, diagnostics in newborns, at the age of 3-4 months, after a year.
48. Conservative (May'a traction) and operative treatment of congenital hip displasia in children.
49. Differential diagnostics of congenital hip displasia in children at different ages. Operative treatment.
50. Conservative treatment of congenital hip displasia - during the early neonatal period, till 1 year, after a year, complication of conservative and operational methods of treatment.
51. Congenital clubfoot. Classification. Clinical signs in various age groups.

52. Congenital clubfoot. Classification of deformation by severity by Bernstein. Principles of conservative and operative treatment.
53. Conservative treatment of a congenital clubfoot at different ages. Surgical treatment - treatment terms, the general principles. Main methods.
54. Congenital torticollis, classification, clinic, differential diagnostics during the early age periods.
55. Treatment of a congenital torticollis - conservative, operative.
56. Scoliosis. Concept definition. Pathogenesis. Classification.
57. Scoliosis. Clinic. Radiological diagnostics. Signs of possible deformation progressing (clinical and radiological).
58. Clinical and radiological principles of a scoliosis course prognosis. Conservative and operative treatment.
59. Scoliosis. Modern conservative and operative treatment.
60. Etiology, pathogenesis, clinic and diagnostics of osteoarthroses.
61. Classification. Conservative and operative treatment of osteoarthroses.
62. Flatfoot deformity. Clinic. Diagnostics. Treatment methods.
63. Hallux valgus deformity. Clinic. Diagnostics. Treatment methods.
64. Static foot deformities (flatfoot, hallux valgus), clinic, radiological diagnostics, conservative and operative treatment.
65. Pes plano-valgus, main components of deformity. Methods of clinical and instrumental diagnostics (X-ray, plantography, pedobarography).
66. Pes plano-valgus deformity in children. Methods of conservative and operative treatment.
67. Main types and features of fractures in children. Radiological diagnostics. Basic principles of conservative treatment.
68. Fractures of bones in newborns (humeral, a femur). Clinic, diagnostics and principles of conservative treatment.
69. Traumatic disease, periods, treatment at pre-hospital and hospital stages. Classification of IV fluids.
70. Traumatic disease (multiple trauma). Acute period. Treatment of patients with traumatic shock. Principles of massive blood loss treatment.
71. Osteochondropathy, etiology and pathogenesis. Osteochondropathy of a femoral head (Perthes's disease), clinic, radiological diagnostics, treatment.
72. Malignant bone tumors. Osteogenic sarcoma. Osteoblastoclastoma. Clinic, X-ray - and CT diagnostics. General principles of treatment.
73. Malignant tumors of not osteogenic origin. Ewing's sarcoma, clinic, radiological diagnostics, differential diagnostics, treatments.
74. Deformations of extremities in children with cerebral palsy. Clinic, diagnostics, treatment methods.
75. Traumatic osteomyelitis: etiology, pathogenesis, diagnostics and treatment.

76. Delayed union, non-union, malunion: classification, clinical, radiological characteristics, medical tactics. Bone grafting in orthopedics.
77. Anomalies of fingers development: Syndactyly, polydactyly, ectrodactyly. Terms of operative treatment.
78. Continuous skeletal traction, indications, advantages and disadvantages. Technique.
79. Fatty embolism, pathogenesis, clinic, treatment diagnostics.
80. Trombembolism, prevention, pathogenesis, clinic, diagnostics, treatment.
81. Injuries of a shoulder rotatory cuff, clinic, diagnostics. Treatment methods.
82. External fixation in orthopedics, indications and contraindications.
83. Orthopedic products: ortosis, corsets, tutor. Orthopedic footwear.
84. Scapula fractures. Clinic. Diagnosis. Treatment.
85. Traumatic dislocations. Frequency. Classification (fresh, old, not reducible, recurrent, complicated and uncomplicated). Diagnostics methods. Principles of treatment.
86. Folkmann's ischemic contracture. Pathogenesis. Diagnostics. Treatment methods.