

## **aBFPO061p Prosthetics and Orthotics – lecture**

- 1) Definition of orthopedic prosthetics and its sub-disciplines. System of rehabilitation in prosthetics, relation "sick patient - aid".
- 2) Examination of patients in orthopedic prosthetics. Rehabilitation-prosthetic care of flat feet.
- 3) Working with plaster, plaster negative and positive, imprint, casting. Rehabilitation - prosthetic care in idiopathic scoliosis.
- 4) Measurement sheet, suspension and support points in prosthetics. System of rehabilitation care in prosthetics (preparatory, periprosthetic and post-prosthetic care).
- 5) Biomechanics of hand and types of grips. Vertebrogenic syndromes and their prosthetic-rehabilitation treatment.
- 6) Taping, technique, skin care, use. Postoperative rehabilitation care for amputated lower extremities.
- 7) Elastic stockings, keloid compression - purpose, use. Rehabilitation of amputated lower extremities after receiving prosthesis.
- 8) Amputation schemes and techniques for lower limb amputation. Prosthetic-rehabilitation care for patients with Scheuermann's disease.
- 9) Principles of lower limb prosthesis, PTB and KBM system. Rehabilitation-prosthetic care in flat feet in children.
- 10) Principle of ostomy, ostomy, hernia and abdominal belts, suspensors. Rehabilitation-prosthetic treatment of the amputated upper limb.
- 11) Classical, expressive and oseointegrative prosthesis of lower limbs. Rehabilitation-prosthetic treatment of pes.equinovarus and hip dysplasia.
- 12) Structure and types of orthoses. Rehabilitation-prosthetic care of lumbago.
- 13) Orthopedic footwear, classification, description, use. Rehabilitation-prosthetic treatment of entesopathies (elbow, knees).
- 14) Construction of lower limb prosthesis from tubular systems. Rehabilitation-prosthetic care of the knee ligament sculptures.
- 15) Complications of amputation-palsy-Rehabilitation-prosthetic care of cerebral palsy.
- 16) Biomechanics and kinesiology of walking, walking with lower limb prosthesis. Specialties of prosthetic-rehabilitation care by age categories.
- 17) Unequal length of lower limbs, prosthetic solution. Rehabilitation-prosthetic care in cervicalgia.

- 18) Adjuvants for movement, crutches, sticks, principles of use. Rehabilitation-prosthetic care for amputees in the thigh.
- 19) Peripheral paresis and their treatment with orthoses. Rehabilitation-prosthetic treatment of flat feet.
- 20) Wheelchair indication, types and use. Rehabilitation-prosthetic care of lower limb arthrosis.
- 21) Principles of construction of upper limb prostheses. Rehabilitation-prosthetic care of spondylolisthesis of lumbar spine
- 22) Principles of biomechanical prostheses of upper limbs, indications. Rehabilitation-prosthetic care of shoulder and knee injuries.
- 23) Ways of relieving lower limbs after surgery (crutches, sticks). Rehabilitation-prosthetic treatment of a condition after a stroke.
- 24) Spine fractures and their treatment with torso orthoses. Historical development of orthopedic prosthetics
- 25) Orthopedic workplace and its department, personal equipment. Rehabilitation-prosthetic treatment of Perthes' disease in children
- 26) A voucher for a prosthetic device. Stages of rehabilitation after amputation of the lower limb.
- 27) The principle of torso orthoses and their construction. Rehabilitation-prosthetic care after injuries of cervical spine.
- 28) Principles of using aids for self-service of low-mobility, blind and deaf people. Rehabilitation-prosthetic care of patients with osteoporosis.
- 29) Comprehensive rehabilitation - technical means. Rehabilitation-prosthetic care of rupture of dorsal aponeurosis of the fingers of the hand.
- 30) Application of electronics in prosthetics - tendency. Rehabilitation-prosthetic care of axial deviations of lower limbs (varus, valgus).