



PHYSIOTHERAPIST SPECIALISATION FINAL EXAM THESIS

A ./ GENERAL PHYSIOTHERAPY THESIS:

1. Movement therapy and physiotherapy management for the angiology patient
2. Definition of kinesiology, kinematics and biomechanics. Osteo-arthrokinematics of the joints, main- accessory motions, active and passive motions
3. Definition, causes and consequences of hypo- and hypermobility of the joints, definition of contracture, prevention and treatment possibilities
4. Types of muscles, the basics of skeletal muscle training
5. Techniques for relaxing and stretching of the muscle tissue
6. Basics of cardiovascular training, physiological mechanisms of circulation enhancement at physical exercising
7. Back school programmes in childhood and adulthood
8. Physiotherapy examination of patients with musculoskeletal diseases
9. Physiotherapy examination of cardiology patients
10. Physiotherapy examination of pulmonology patients
11. Physiotherapy examination of neurology patients
12. Gait school: physiologic, pathologic gait, the correct use of walking aids
13. Methods of chest physiotherapy
14. The Bobath method
15. The cognitive and movement developmental milestones of a healthy newborn
16. PNF- method and its application possibilities
17. Orthopedic manualtherapy and its application possibilities
18. Joint protection during physiotherapeutic procedures, joint protection from the patient's and the physiotherapist's point of view.
19. Physiotherapy management strategies in psychiatry
20. Neurohabilitation training- Katona method
21. Massage (classic swedish massage, segment, connective tissue massage, scar massage)
22. Electrotherapy (low frequency treatments)
23. Electro-gymnastics/electromyostimulation, electrodiagnostics
24. Hydrotherapy (subaqual training), thermotherapy
25. Balneotherapy, climate therapy
26. Pain processing in the human nervous system, treatment of pain, methods of analgesia (TENS, midrange frequency treatments)
27. Technical rehabilitation
28. Definition of rehabilitation, functionality, International classification of functionalities, disabilities and health
29. Spine structure, joints, and its osteo-and arthrokinematics
30. Joint structure, osteo-and arthrokinematics of the joints of the lower limb
31. Joint structure, osteo-and arthrokinematics of the joints of the upper limb
32. General physiotherapy principles and methods in traumatology physiotherapy according to the applied medical care
33. Physiotherapy examination and treatment of patients with rheumatologic disease.

B./ SPECIAL PHYSIOTHERAPY THESIS



I. Physiotherapy of internal medicine

1. Chronic obliterative arterial disease, its clinical symptoms (Fontaine stages), and its conservative and surgical therapy
2. Subclavian steal syndrome, Raynaud's disease and syndrome, Symptoms of Buerger's disease, its conservative and surgical therapy. Thoracic outlet syndrome (TOS)
3. Conservative and surgical therapy of venous diseases - varicosities (primary, secondary), deep vein thrombosis, superficial thrombophlebitis, postthrombotic syndrome
4. Coronary artery disease (CAD), angina pectoris, acute myocardial infarction. Phases of cardiological rehabilitation. Low, medium, and high-risk group criteria. Physiological effects of cardiorespiratory training. Absolute and relative contraindications, Determination of load intensity
5. Main classification of cardiology surgeries, the aims and methods of postoperative cardiology physiotherapy, determination of load intensity
6. Movement therapy of obesity, hypertonia, and diabetes mellitus.
7. Clinical background of obstructive pulmonary disease (COPD) and its treatment possibilities
8. Clinical background of asthma bronchiale, examination, and its treatment possibilities
9. Clinical background of cystic fibrosis, its examination and treatment possibilities
10. Clinical background, examination and treatment options for major restrictive respiratory diseases
11. Disorders of the diaphragm, physiotherapy management and diaphragm exercises. pleuritis.
12. Clinical background of respiratory failure, role of the physiotherapist in the course of weaning from assisted ventilation.
13. Pre- and postoperative physiotherapy treatment for lung surgeries

II. Orthopedic physiotherapy

14. Functional disorders of the spine, possibilities of examination and treatment
15. Examination and treatment methods of chest deformities
16. Orthopedic disorders of the hip joint in childhood, examination and treatment possibilities
17. Orthopedic disorders of the hip joint in adulthood, examination and treatment possibilities
18. Orthopedic diseases of the knee, examination and treatment options
19. Orthopedic diseases of the ankle and foot, examination and treatment possibilities
20. Structural disorders of the spine (scoliosis, Scheuermann)
21. Orthopedic disorders of the upper limb, examination and treatment possibilities

II. Obstetrics and gynecology physiotherapy



22. Prenatal period from the viewpoint of physiotherapy
23. Physiotherapy of the postpartum period
24. Classification of incontinence, relevant movement therapy programs in incontinence
25. Physiotherapy management of menopause

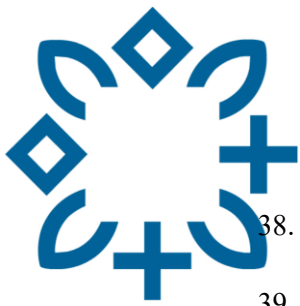
IV. Infant and pediatric physiotherapy

26. Classification, symptoms and main principles of treatment of pyramidal CP
27. Classification, symptoms and main principles of treatment of extrapyramidal CP
28. Complex physiotherapy of plexus brachialis lesion.
29. Complex physiotherapy of SMA
30. Valvular heart diseases, heart diseases in childhood

V. Traumatology physiotherapy

31. Spine injuries with and without the injury of the spinal cord. Rehabilitation after spinal cord injury.
32. Injuries of shoulder-girdle, shoulder, and upper arm. Rehabilitation depending on the applied medical care.
33. Injuries of the distal part of the upper arm and the lower arm. Rehabilitation depending on the applied medical care
34. Injuries of the distal part of the lower arm bones and injuries of the hand: bone, tendon, and nerve injuries. Examination of the hand. Rehabilitation depending on the applied medical care. Physiotherapy methods.
35. Injuries of the pelvis and proximal part of the femur. Rehabilitation depending on the applied medical care. Geriatric aspects. Process of the mobilization, gait with walking aids.
36. Injuries and fractures of the distal part of the femur and proximal part of the tibia, injuries of other constituents of the knee joint. Complex physiotherapy treatment possibilities.
37. Injuries of the tibia, talocrural and subtalar joint injuries, and other injuries at the tarsus, metatarsus, and toes. Rehabilitation depending on medical care. Providing gradualism of loading, using supplementary tools in case of permanent damages.

VI. Neurological physiotherapy



38. Peripheral paralysis disorders. Specialties of patient examination. Principles of the treatment, structure of physiotherapy.
39. Physiotherapy of multiple sclerosis, its rehabilitation.
40. Physiotherapy of muscle disorders
41. Physiotherapy of stroke, rehabilitation and techniques of patient mobilisation.
42. Physiotherapy of Parkinson's disease.
43. Physiotherapy of peripheral facial nerve paresis.
44. Comparing the symptoms of the central and peripheral nervous system damages
45. Pre- and postoperative physiotherapy of neurosurgery

VII. Rheumatological physiotherapy

46. Pathomechanism of Rheumatoid Arthritis. The main aspects of patient examination and the structure of physiotherapy treatment considering the upper limb.
47. Pathomechanism of Rheumatoid Arthritis. Main aspects of patient examination and the structure of physiotherapy treatment considering the lower limb
48. Osteoporosis. Main aspects of patient examination. Stages of prevention and its content. Structure of physiotherapy treatment.
49. The pathomechanism of SPA and main aspects of its physiotherapy treatment
50. Soft-tissue rheumatism around the shoulder and main aspects of its physiotherapy
51. Soft-tissue rheumatism (except the shoulder). Classification of fibromyalgia, its cause, symptoms and physiotherapy.
52. Etiology, classification of LBP, the physiotherapy treatment of acute, subacute and chronic LBP