Introduction in PMR

- Medical rehabilitation and physical medicine. Definitions given by the World Health Organization (WHO) and the European Union of Specialist Physicians, Physical Medicine and Rehabilitation section.
- 2. Purposes of Physical Medicine and Rehabilitation.
- 3. Principles of Physical Medicine and Rehabilitation
- 4. Rehabilitation assistance in the health system. Structure of rehabilitation services.
- 5. Competences of medical specialists in medical rehabilitation and physical medicine
- 6. Disability and Functioning. Definitions and examples.
- International Classification of Functioning, Disability, Health (ICF). Model of functioning, disability and health according to the WHO. Example of application of the CIF model.
- 8. Definitions and examples of structural / functional deficiencies.
- 9. Definitions and examples of activity limitations and participation restrictions.
- 10. Environmental and personal factors within the ICF. Definitions, examples.

Methods in rehabilitation medicine

- 1. Physio-balneotherapy a component part of medical rehabilitation. Application of physical factors in rehabilitation and the advantages of non-drug treatment.
- 2. Mechanism / effects of action and effects of action of physical factors.
- 3. Classifications of physical factors.
- 4. General principles of application of physical factors. Indications and contraindications for the application of physical factors.
- 5. Basic balneotherapeutic factors, their origin and classification. Physical properties of the water factor. Mechanisms of action of hydrotherapy on systems and organs. The effects and benefits of hydrotherapy.
- 6. Means of physiotherapy in medical rehabilitation. Therapeutic exercice.
- 7. Classification criteria for physical therapy. Therapeutic effects of physical therapy.
- 8. Principles of application of occupational therapy.

MSK rehabilitation

- 1. Assessment musculoskeletal system
- 2. General principles of performing assessment of joints and muscles
- 3. Functional assessment of posture and alignment disorders
- 4. General principles of medical rehabilitation treatment in degenerative joint pathology

- 5. General principles of medical rehabilitation treatment in inflammatory joint pathology
- 6. General principles of medical rehabilitation treatment in post-traumatic limb injuries
- 7. General principles of medical rehabilitation treatment in of scoliosis and kyphosis

Rehabilitation in pulmonary and cardiac disease

- 1. Functional assement of the respiratory system.
- 2. Pulmonary rehabilitation indications, methods, breathing tehniques.
- 3. Rehabilitation in COPD.
- 4. Cardiovascular rehabilitation. Definition. Objectives of cardiovascular rehabilitation. Indications, contraindications.
- 5. Assesment in cardiovascular pathology. Functional diagnostic methods. Indications, contraindications.
- 6. Cardiopulmonary testing.
- 7. Phases of cardiovascular rehabilitation. Secondary prophylaxis measures in cardiovascular recovery.
- 8. Medical rehabilitation of patients after myocardial infarction.

Neurorehabilitation

- 1. Neurorehabilitation: definition, epidemiology, motor impairments after stroke.
- 2. Indications for neurorehabilitation, functional neurological deficits and the main limitations of activity. Precautions / Contraindications
- 3. Neuroplasticity: definition, concept, mechanisms, the relationship of interdependence, neuroimaging.
- 4. Mechanisms and principles of rehabilitation, The International Classification of Functioning, Disability and Health (ICF)
- 5. Principles of rehabilitation, the role of the doctor and the patient in the rehabilitation model.
- 6. Types of rehabilitation, multidisciplinary team approach, principles of neurological assessment. Scales.
- 7. Rehabilitation procedures in the management of spasticity, bowel and bladder incontinence. Coginitive and perception therapy.