

ABSTRACT

Title of diploma thesis: Chaining of the musculoskeletal disorders from various viewpoints in physiotherapy

Objective: The purpose of this thesis is to research available literary sources describing the possible mechanisms of chaining of musculoskeletal disorders from various viewpoints in physiotherapy.

Methods: This diploma thesis has descriptively-analytical character. It is structured in the form of literary research.

Results: On the basis of the researched literary sources, the thesis shows the possible mechanisms of chaining of musculoskeletal disorders. The mechanisms are as follows: Reactions of movement system to postural instability, relations of body segments in closed kinetic chains, compensations of joint blockades in the spine, influence of tensile forces in fascial system, rebuilding of motor stereotypes due to dysfunction of one of their elements, activation of muscles together with motor stereotype, which don't contribute to its function, influence of one stabilization synergy on the function of the other during punctum fixum stabilization, relations between agonistic and antagonistic muscles, relations between tonic and phasic muscles, reflex changes in one spinal segment (or adjacent segments) due to nociceptive irritation, protective activity of muscles (with possibility of their dysfunction) due to nociceptive irritation and change of movement system behaviour due to nociceptive irritation, reflex influence from specific places in movement system.

Key words: chain, chaining, disorder, function, movement system