Abstract:

This thesis is working with theoretical aspects of psychological construct called executive functions, integrative models and various cases from clinical practice. Second part is elaborating neuroanatomy of frontal lobes with main interest on functional systems of the prefrontal cortex. Third aspect of this thesis is introduction to the clinical perspectives of traumatic brain injury. The last section works with neuropsychological assessment including subchapter containing informations about most popular neuropsychological methods of executive function diagnostics. The practical part includes design of research from the field of diffuse axonal injury diagnostics. It suggests possible method of detecting this „silent“ brain injury.

Keywords:

executive functions, prefrontal cortex, traumatic brain injury, neuropsychological assessment