

Abstract

This bachelor thesis aims to provide a general overview of chemotherapy induced peripheral neuropathy (CIPN) in pediatric cancer patients. The first part describes common characteristics of polyneuropathy and specific attributes of CIPN, its incidence, clinical manifestation, risk factors and summary of most frequently used chemotherapy agents causing peripheral neuropathy. The second part reports current assessment strategies for CIPN based on clinical grading scales and then it reports present knowledge of rehabilitation interventions for patients with CIPN.

The thesis also includes description and translation of „pediatric-modified Total Neuropathy Score“ (ped-mTNS) and „Total Neuropathy Scale-Pediatric Vincristine“ (TNS-PV). In discussion part, there are summarized both advantages and disadvantages of CIPN testing systems. The TNS-PV was concluded as the most feasible scale for use in rehabilitation or oncology clinic settings.