

BACHELOR THESIS ABSTRACT

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Title: Developmental coordination disorder

Subtitle: Diagnosis and therapy from the physiotherapist's perspective

Abstract:

This theoretical bachelor thesis is devoted to the topic of developmental coordination disorder, its diagnosis and therapy from the perspective of a physiotherapist. In the theoretical part it summarizes the current level of knowledge about developmental coordination disorder, its etiology, risk factors, comorbidities, manifestation, diagnostic and therapeutic options.

The aim of the second part of the thesis was to make a systematic review about the latest physiotherapy options for developmental coordination disorder and their effectiveness. The search included 16 randomised controlled trials from 2017-2023 investigating the impact of different therapeutic approaches on children with DCD aged up to 12 years. The results of the search summarise the current status and direction of research in the field of DCD therapy. The studies included in the search section looked at influencing a variety of manifestations of DCD, ranging from instability, motor learning problems and predictive motor control, imagery and movement planning, visual control, and others. Therapeutic approaches aimed at addressing some of the aforementioned difficulties include kinesiology taping, active video games using the Wii or Xbox, task-oriented training, Cognitive Orientation to Daily Occupational Performance, imagery and simultaneous movement training, visual control training, basic movement skills training, and more. With the exception of one study, all of these studies achieved at least some degree of positive results due to the therapy used, or their results were found to be significant for the direction of further research and therapy.

The bachelor thesis also includes an information brochure aimed at providing basic information about developmental coordination disorder to patients and their parents.

Key Words: Developmental coordination disorder, neurodevelopmental motor disorder, therapy, diagnosis, physiotherapy