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HUBUNGAN SELECTIVE CONTROL LOWER EXTREMITY DAN KEMAMPUAN BERJALAN PADA ANAK CEREBRAL PALSY TIPE SPASTIK
The Correlation Selective Control Lower Extremity and Walking Ability in Children with Spastic Cerebral Palsy

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Abstrak
Pendahuluan: Cerebral Palsy (CP) merupakan gangguan karena lesi pada otak yang mengakibatkan beberapa permasalahan pada tonus otot, postur, dan gerakan. Tipe yang sering ditemui adalah tipe spastik. Pada tipe spastik ini terdapat kelemahan pada bagian motor korteks yang akan menimbulkan spastisitas bahkan kontraktur sehingga sulit bergerak dan melakukan aktivitasnya. Gangguan pada CP spastik yang belum menjadi perhatian adalah gangguan pada selective motor control (SMC) yang merupakan salah satu faktor dalam perkembangan kemampuan motorik pada anak, dimana akan mempengaruhi kemampuan berjalannya. Penelitian ini dilakukan untuk mengetahui hubungan selective control lower extremity dan kemampuan berjalan pada anak dengan spastic cerebral palsy.
Metode: Penelitian ini menggunakan metode penelitian observasional analitik dengan pendekatan cross-sectional study yang dilakukan pada bulan Februari-Maret 2023. Subjek penelitian ini adalah anak CP spastik yang berada di YPKC Malang dan ASYA Therapy Center Mojokerto dengan usia 6-12 tahun dengan jumlah sebesar sebanyak 24 orang dengan menggunakan purposive sampling. Penelitian ini menggunakan alat ukur Selective Control of the Lower Extremity (SCALE) dan Gross Motor Function Classification System (GMFCS). **Hasil:** Analisis yang dilakukan adalah analisis bivariat dengan menggunakan spearman's rho dengan hasil uji spearman's rho ($p=0,000$). **Kesimpulan:** Terdapat hubungan antara selective control lower extremity dan kemampuan berjalan pada anak dengan spastic cerebral palsy.

Abstract
Introduction: Cerebral Palsy (CP) is a disorder due to lesions in the brain which results in several problems with muscle tone, posture, and movement. The type of CP which often encountered is the spastic type. In this type of spasticity, the damage lies in the motor cortex which will cause spasticity and even contractures, making it difficult to move and carry out activities. Disorders of spastic CP that have not received attention are disorders of selective motor control (SMC) which are one of the factors in the development of motor skills in children, which will affect their ability to walk. This study was conducted to determine the relationship between selective control of the lower extremity and the ability to walk in children with spastic cerebral palsy.
Methods: This study used an analytic observational research method with a cross-sectional study approach which was conducted in February-March 2023. The subjects of this study were children with spastic CP who were at YPKC Malang and ASYA Therapy Center Mojokerto with age of 6-12 years with a total of 24 subjects using purposive sampling. This study used the Selective Control of the Lower Extremity (SCALE) and Gross Motor Function Classification System (GMFCS) measuring instruments. **Results:** The analysis performed was bivariate analysis using Spearman's rho tests with Spearman's rho test results ($p=0,000$). **Conclusion:** There is a correlation between selective control of the lower extremity and the ability to walk in children with spastic cerebral palsy.

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