

精神遅滞児のバランス障害克服のための指導に関する研究

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Problems in Balancing Movements of Children with Mental Retardation

Research Project

Project/Area Number

05680204

Research Category

Grant-in-Aid for General Scientific Research (C)

Allocation Type

Single-year Grants

Research Field

教科教育

Research Institution

Kanazawa University

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Children with mental retardation / Balancing movements / Optokinetic nystagmus / Body sway / Behavior regulation

Research Abstract

In order to clarify the relationship between problems of balancing movement and visual perception in children with mental retardation, optokinetic nystagmus of eye movement, body sway under visual stimuli controlled were investigated.

1.Low functioning of optokinetic nystagmus in children with mental retardation was found. The lower the function of optokinetic nystagmus is, the lower the score of balancing movements becomes.

2.Body sway measured by a force platform was generally larger in children with mental retardation. The larger the sway is, the lower the balancing ability becomes. But in Down syndrome it was found that their sway were rather small although their balancing abilities were seemed very low. It was suggested that measuring head sway was needed to resolve this contradiction.

The relationship between balancing movements and behavior regulation were also investigated. Behavior regulation of children with mental

retardation was evaluated by Garfield's motor impersistence test. The poorer the behavior regulation was, the poorer was one foot balancing. It was thought that a physical setting that required people to figure out how to maintain their posture using external cues intuitively, worked effectively to improve the balancing movement of children with mental retardation who had showed a poorer level of behavior regulation.

Research Products (5 results)

All Other

All Publications (5 results)

- [Publications] 国分充 他: "知能障害児童及び成人のバランス運動と行動調整能力" 特殊教育学研究. 31(4). 27-35 (1994) ▼

- [Publications] 国分充 他: "幼児期の身体動揺に視覚が及ぼす影響の動揺方向による差異" Equilibrium Research. 53(2). 299-305 (1994) ▼

- [Publications] 国分充: "精神遅滞児・者のバランスの多要因的・多水準的解析" 風間書房, 248 (1994) ▼

- [Publications] Mitsuru Kokubun et al.: "Relation between Balance Performance and Behavior Regulation of Persons with Mental Retardation" The Japanese Journal of Special Education. 27-35 (1994) ▼

- [Publications] Mitsuru Kokubun and Toshihide Koike: "Problems in Balance Performance in Mental Retardation" Medicine and Sports Science. (in press). (1995) ▼

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