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Examination of intellectual function and individual profile of children with Down's syndrome:

Longitudinal analysis for 6 years in elementary school

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We investigated the developmental characteristics of intellectual functions and the typology of individual profiles and clarified their changes in children with Down's syndrome. We also conducted a longitudinal study using Tanaka Binet Intelligence Test V scores of the participants (N=18). The results suggested the intellectual function of children with Down's syndrome develops slowly. Moreover, children with Down's syndrome had relatively good grades for the intellectual category, "perceptual movement," whereas they had relatively low grades for "sentence comprehension/analogy," and "numerical concepts." Also, we extracted two clusters based on high and low pass rates of intellectual categories when categorizing the individual profiles of students in Grades 2 and 5. Many previous studies have suggested that children with Down's syndrome show relatively low memory performance. However, the results suggested some children would perform differently. No changes in individual profiles were observed due to the increase in the grade. It is necessary to increase the number of participants in consideration of mental age, and to consider intellectual function and individual profile including infancy and adolescence in future studies.

Key words

Down's syndrome, Childhood, Intellectual function, Individual profile, Longitudinal study

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