研究業績　英文表記

和文	
表題	重症心身障害児（者）の BIA 法による身体組成評価
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英文	
Title	BIA-based body composition assessment for children/adults with severe motor and intellectual disabilities
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Abstract	This study examined the relationship between body weight and body composition measurements by bioelectrical impedance analysis among children/adults with severe motor and intellectual disabilities and body composition evaluation by bioelectrical impedance method. For 37 participants' body composition was assessed using a multi-frequency bioelectrical impedance measurement device （InBody S10）, and the association between each measurement value and the body weight as a clinically applied index of the nutritional status was examined through single correlation analysis. All components of the body composition （skeletal muscle mass, lean mass, and body fat mass） measured using BIA showed a significant correlation with the body weight, supporting the feasibility of BIAbased body composition assessment for children/adults with severe motor and intellectual disabilities. Furthermore, as multi-frequency bioelectrical impedance measurement devices also facilitate the calculation of the extracellular water/total body water （ECW/TBW） ratio and the evaluation of the cell structure and function （PA）, which are difficult with body weight measurement, they may be useful to assess such children/adults.
keyword	patients with severe motor and intellectual disabilities , bioelectrical impedance analysis， body composition

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