

研究業績 英文表記

和文	
表題	幼児における超音波画像法を用いて計測した 大腿四頭筋筋厚と下肢筋力, および大腿周径との関連
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英文	
Title	Relationship between Quadriceps Muscle Thickness and Leg Muscle Strength and Leg Circumference Measured by Ultrasound Imaging in Young Children Relationship between Quadriceps Muscle Thickness, Leg Muscle Strength, and Leg Circumference
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Abstract	<p>The purpose of this study was to investigate the relationship between quadriceps muscle thickness, lower limb muscle strength, and thigh circumference using ultrasound imaging in young children.</p> <p>The results showed that the muscle thickness of the quadriceps muscle was significantly related to lower limb muscle strength and thigh diameter. Subjects: Sixty-seven healthy older children. Methods: Five items, including lower thigh circumference, and quadriceps muscle thickness were investigated. Statistical analysis was performed using Pearson's correlation coefficient to examine the relationship between quadriceps muscle thickness and each measurement. The results of the single correlation analysis were as follows. Results: Single correlation analysis revealed that quadriceps muscle thickness was correlated with quadriceps muscle strength and thigh circumference. On the other hand, there were no significant correlations between quadriceps muscle thickness and other items. Multiple regression analysis revealed that quadriceps strength and thigh circumference were independently related to quadriceps thickness. Conclusion: Ultrasound imaging of the quadriceps femoris muscle is also useful in young children. The quadriceps muscle thickness was extracted as a parameter independently involved in quadriceps muscle thickness, indicating the possibility of utilizing quadriceps muscle thickness evaluation by ultrasound imaging even in young children.</p> <p>※Translated with www.DeepL.com/Translator (freeversion)</p>
keyword	CYoung children, ultrasound imaging method, thick thigh tendons

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