

Muscle in adult with spinal deformity

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*Prospective Study***Volume and fat infiltration of spino-pelvic musculature in adults with spinal deformity**

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Abstract**AIM:** To investigate fat infiltration and volume of spino-pelvic muscles in adults with spinal deformity (ASD) with MRI and 3D reconstructions.**METHODS:** 19 female ASD patients (mean age 60±13) were included prospectively and consecutively and had T1-weighted Turbo Spin Echo sequence MRIs with Dixon method from the proximal tibia up to T12 vertebra. The Dixon methods permitted to evaluate the proportion of fat inside each muscle (fat_water ratio). In order to investigate the accuracy of the Dixon method for estimating fat versus water, the same MRI acquisition was performed on phantoms of four vials composed of different proportion of fat versus water. With Muscl'X software, 3D reconstructions of 17 muscles

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