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Name of journal: World Journal of Orthopedics

ESPS Manuscript NO: 16973

Manuscript Type: ORIGINAL ARTICLE

Observational Study

Standardized quantitative measurements of wrist cartilage in healthy humans using 3T magnetic resonance imaging

Jean-Vincent Zink, Philippe Souteyrand, Sandrine Guis, Christophe Chagnaud, Yann Le Fur, Daniela Militianu, Jean-Pierre Mattei, Michael Rozenbaum, Itzhak Rosner, Maxime Guye, Monique Bernard, David Bendahan

Abstract

AIM: To quantify the wrist cartilage cross-sectional area in humans from a 3D magnetic resonance imaging (MRI) dataset and to assess the corresponding reproducibility.

METHODS: The study was conducted in 14 healthy volunteers (6 females and 8 males) between 30 and 58 years old and devoid of articular pain. Subjects were asked to lie down in the supine position with the right hand positioned above the pelvic region on top of a home-built rigid platform attached to the scanner bed. The wrist was wrapped with a flexible surface coil. MRI investigations were performed at 3T



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