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» Journal Abstract


A new instrument for recording the spine contourograph
V Hein

Biol Sport 2003; 20 (1):

ICID: 6707

Article type: Original article

IC™ Value: 10.26

Abstract provided by Publisher 

The purpose of this investigation was to evaluate the acceptability of a new instrument for recording the contourograph of spine curvature. The instrument based on distance measurements from the points of the spine curvature to the vertical line by the infrared optical sensor. The acceptability of measurements was assessed. The agreement of the test-retest measurements recorded using the designed instrument was analysed by the limits of agreement techniques. The validation of the lumbar sacrum angle calculated on the spine contourograph was evaluated against the measurements of the inclinometer. The amount of disagreement between test-retest values of the measured points on the spine contourograph calculated using the limits of agreement technique statistics ranged from 4.9% to 6.2%. The results of this study allowed to suggest that the designed instrument was a sensitive tool in assessing a different impact on the spine curvature.

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