

NEW DYNAMIC METHODS FOR POSTURE TESTING BASED ON THE SUBJECT'S FORWARD LEANING AND PHASE PLANE APPLICATION

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Abstract

An analysis of the human body centre of gravity movement using a force platform is a common method in the posturographic diagnosis. Both, static and dynamic methods of posture testing, based on a forward leaning as a response to the standardised visual step signal, and a new method of analysis of these reactions, using the phase plane method, are presented in the paper. Data characterising the new dynamic and static tests, known from literature, were classified by pair wise k-nearest neighbor and multidimensional analysis of variance methods.

Keywords: posturography, posture, dynamic posturographic tests, phase plane method in posturography