Validation of Clinical Observation of Aberrant Movement Patterns in Patients with Mechanical Low Back Pain

Investigators

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Summary / Overview

Observation of abnormal back movement patterns is considered an important characteristic in identifying patients who will respond positively to low back stabilization exercises or who have low back pain attributed to clinical spinal instability. However, the validity of clinical observations of these poor movement patterns has not been determined. The purpose of this line of research is to: 1) determine the validity of clinical observations by examining physical therapist’s ability to identify subjects with current or previous MLBP, 2) determine the agreement between clinical observations of trunk movement and kinematic analysis in recognizing abnormal trunk movement patterns, 3) characterize (describe and quantify) spine and pelvis movements of typical and aberrant patterns during trunk forward bend using kinematic and force plate data, and 4) determine the ability of core stabilization exercise to resolve trunk movement coordination impairments during active forward bending. The results of these studies will determine the diagnostic accuracy of clinical observation of aberrant movement patterns and provide additional criteria that can be used to improve the ability of healthy care providers to identifying and resolve impaired movement patterns.
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Participating Sites

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Articles


Presentations


