

AUTOMATION OF METHODS USING CREPITUS AS A BIOMARKER FOR SPINAL JOINT FUNCTION

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Previous studies have demonstrated that Z joint crepitus can be detected using piezoelectric accelerometers to assess vibrations originating from the Z joints, however the analysis of this data is extremely time consuming. Therefore, the purpose of this study is to automate signal analysis on previously collected data from a spine phantom (Study #BS-1301). Reliability and validity of the methods will be established with new recordings from the spine phantom and comparing the results of the automated methods. If automation methods are found to be successful, future studies would further refine the methods using human subjects. (RS-2001)

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