

SIMULTANEOUS CREPITUS AND DIAGNOSTIC ULTRASOUND ASSESSMENT OF THE LUMBAR ZYGAPOPHYSEAL JOINTS

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This project is a continuation of Analysis of Crepitus in Human Subjects (H-2101). The twofold purpose of this project is to: 1) assess the feasibility of simultaneously recording zygapophyseal (Z) joint crepitus using piezoelectric accelerometers and Z joint motion using diagnostic ultrasound (US), and 2) qualitatively assess the US images with particular focus on images taken of Z joints exhibiting crepitus. The two modalities have the potential of providing complementary assessment of normal and abnormal functioning of the Z joints, which can be used to help determine the effects of SMT and other treatments on Z joint function. (H-2302)

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