

UTILIZING A SPINE PHANTOM TO ASSESS ACCELEROMETRY

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The project will assess the accuracy of accelerometry methods using a spine phantom, a spine model (L1-5) embedded in silicone. Tunnels devoid of silicone extend from the mammillary processes of each vertebra to the posterior surface of the spine phantom. Accelerometers will be taped on the silicone over the spinous processes and 3cm left and right lateral to the L3/L4 spinous interspace. A High-Velocity, Low-Amplitude (HVLA) load will be applied to the mammillary processes while recordings are made from the accelerometers. The investigator analyzing the data will be blinded to the Z joints receiving the HVLA load.

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