

**Title:** Influence of distance between the rotation axis of back support and the hip joint on shear force applied to buttocks in a reclining wheelchair's back support

**Authors:** Kenichi Kobara, RPT, PhD<sup>1)\*</sup>, Hiroshi Osaka, RPT, MS<sup>1,2)</sup>, Tomotaka Ito, RPT, MS<sup>1,2)</sup>

Daisuke Fujita, RPT, MA<sup>1)</sup>, Susumu Watanabe, RPT, PhD<sup>1)</sup>

1) Department of Rehabilitation, Faculty of Health Science and Technology, Kawasaki University of Medical

Welfare, 288 Matsushima, Kurashiki, Okayama 701-0193, Japan

2) Doctoral Program, Graduate School of Health Sciences, Hiroshima University, 2-3 Kasumi 1-chome, Minami-ku,

Hiroshima 734-8551, Japan

\***Correspondence to:** K. Kobara

**Tel:** +81 86462 1111. **Fax:** +81 86464 1109. **E-mail:** rptkob@mw.kawasaki-m.ac.jp

**Running title:** Influence of sitting position on shear force