

Assessment of conventional and non-conventional wheelchair propulsion using surface electromyography activity of shoulder muscles

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The high demand on the upper limbs during propulsion on the standard wheelchair is contributing to multiple injuries of the rotator cuff. Since the conventional wheelchair is being responsible of a second handicap, a new prototype based on a lever system has been suggested to reduce the risk of shoulder injuries. The objective of this study is to compare shoulder muscle activity during propulsion on the conventional and non-conventional wheelchair. 18 able-bodied were recruited from

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