Accepted Manuscript

The influence of joint rigidity on impact efficiency and ball velocity in football kicking

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PII: S0021-9290(18)30112-X

DOI: https://doi.org/10.1016/j.jbiomech.2018.02.015

Reference: BM 8577

To appear in: Journal of Biomechanics

Accepted Date: 9 February 2018



Please cite this article as: J.C.A. Peacock, K. Ball, The influence of joint rigidity on impact efficiency and ball velocity in football kicking, *Journal of Biomechanics* (2018), doi: https://doi.org/10.1016/j.jbiomech.2018.02.015

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ACCEPTED MANUSCRIPT

1	Title
2	The influence of joint rigidity on impact efficiency and ball velocity in football kicking
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12	Address: Office PB2, Victoria University, Footscray Park Campus, Footscray, Australia
13	Key words
14	Australian Football, Soccer, ball velocity, plantarflexion
15	Word count
16	2900 words
17	Abstract
18	Executing any skill with efficiency is important for performance. In football kicking,
19	conflicting and non-significant results have existed between reducing ankle plantarflexion during
20	foot-ball contact with impact efficiency, making it unclear as to its importance as a coaching
21	instruction. The aims of this study were to first validate a mechanical kicking machine with a non-
22	rigid ankle, and secondly compare a rigid to a non-rigid ankle during the impact phase of football
23	kicking. Measures of foot-ball contact for ten trials per ankle configuration were calculated from data

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