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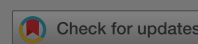
Articles

Changes in Kicking Pattern: Effect of Experience, Speed, Accuracy, and Effective Striking Mass

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Results

Results indicated that experience and speed affect absolute timing of joint velocities with no changes in the relative timing of peak joint velocity across independent factors. Chi-square analysis indicated that calculated effective mass is not independent of ankle velocity. ANOVA indicated that experienced performers displayed less variability error than did inexperienced performers.

Conclusion

It was concluded that: (a) Experience, velocity, and accuracy do not affect the relative timing of kicks; (b) kickers trade ankle velocity at impact for greater effective striking mass and ball velocity; and (c) variability in ball placement is affected by experience.

Keywords:

- constraints
- dynamic systems
- pattern change
- striking mass

Notes

¹ Data re... a principal
compon... study were
entered... ater than
1.0. The... ual effective
mass, ba... ed that the
variable... variance in
the data



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