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Main Outcome Measure(s): Time to stabilization in the anterior-posterior (APTTS) and medial-lateral (MLTTS) directions.

height and from a starting position 70 cm from the center of the force plate.

**Results:** For APTTS, a condition-by-time interaction existed ( $F_{2.18} = 5.55$ , P =.013). For the AA condition, Tukey post hoc testing revealed faster pretest (2.734  $\pm$  0.331 seconds) APTTS than posttest (3.817  $\pm$  0.263 seconds). Post hoc testing also revealed that the AB condition provided faster APTTS (2.492  $\pm$  0.271 seconds) than AA (3.817  $\pm$  0.263 seconds) and NB (3.341  $\pm$  0.339 seconds) conditions during posttesting. No statistically significant findings were associated with MLTTS.

**Conclusions:** Fatigue increased APTTS for the AA condition. Because the AB condition was more effective than the other 2 conditions during the posttesting, the AB appears to be the best option for providing dynamic stability in the anterior-posterior direction during a landing task.

## Keywords: dynamic stability, postural control

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## Cited by

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