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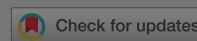
Research Articles

Trunk, Head, and Step Characteristics During Normal and Narrow-Based Walking Under Deteriorated Sensory Conditions

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groups trunk roll increased under impaired somatosensation in the narrow-based

walking condition (by 43.62%) but not in normal walking condition. Older participants adopted a more cautious strategy characterized by lower walking speed when walking on a narrow base and exhibited deteriorated integrative ability of the CNS for head control. Accurate lower limb somatosensation may play a critical role in narrow-based walking.

Keywords:

- gait
- head control
- trunk control
- step characteristics
- sensory integration

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