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The measurement of tibial acceleration in runners. A review of the factors that can affect tibial acceleration during running and evidence based guidelines for its use.

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Highlights

- The link between tibial acceleration and bone strain is yet to be proven
- Tibial acceleration is an appropriate proxy measure of the impact forces
- Low mass, well affixed devices should be used to improve accuracy
- Triaxial accelerometers should be used, so that all components can be measured
- Relationships between lower limb effective mass and tibial acceleration are still unclear

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