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| **Concept** | **Variable** | **Definition** | **Units** |
| **Ground Reaction Forces** | Peak VGRF | Peak vertical ground reaction force  | % |
| Loading Rate | Average vertical loading rate from 20-80% of the magnitude of the force between initial contact and the impact peak or 30.79% of time to peak VGRF if the impact peak was absent | % |
| Braking Impulse | Area under the curve of the posteriorly directed portion of the anterior-posterior ground reaction force | % |
| Propulsive Impulse | Area under the curve of the anteriorly directed portion of the anterior-posterior ground reaction force | % |
| **Spatio-temporal** | Ground Contact Time | Duration of stance phase, from initial contact to toe off. | % |
| Base of Gait | Medio-lateral distance at midstance between the body’s line of gravity and a heel marker placed at the midline of the heel and affixed to the shoe; positive values indicate a landing position ipsilateral to the line of gravity | cm |
| Foot Inclination Angle | Angle of the foot segment with respect to the horizontal plane at initial contact; positive values indicate a rearfoot landing posture | degree |
| **Joint Kinematics** | Peak Hip Flexion | The maximum hip flexion angle during stance phase | degree |
| Peak Hip Extension | The maximum hip extension angle during stance phase | degree |
| Peak Hip Adduction | The maximum hip adduction angle during stance phase | degree |
| Peak Pelvic Drop | The minimum frontal plane pelvic angle during stance phase | degree |
| Peak Knee Flexion | The maximum knee flexion angle during stance phase | degree |
| Peak Ankle Dorsiflexion | The maximum ankle dorsiflexion angle during stance phase | degree |
| **Joint Moments** | Peak Hip Extensor Moment | The maximum hip extensor moment during stance phase | % |
| Peak Hip Abductor Moment | The maximum hip abductor moment during stance phase | % |
| Peak Knee Extensor Moment | The maximum knee extensor moment during stance phase | % |
| Peak Ankle Plantarflexor Moment | The maximum ankle plantarflexor moment during stance phase | % |
| **Joint****Work** | Hip Positive Work | Area under the curve of all positive work (energy generation) at the hip during stance phase | % |
| Ankle Positive Work | Area under the curve of all positive work (energy generation) at the ankle during stance phase | % |
| Hip Negative Work | Area under the curve of all negative work (energy absorption) at the hip during stance phase | % |
| Knee Negative Work | Area under the curve of all negative work (energy absorption) at the knee during stance phase | % |
| Ankle Negative Work | Area under the curve of all negative work (energy absorption) at the ankle during stance phase | % |

 **Supplementary Table 1.** Definitions and calculations of variables of interest and corresponding units of asymmetry.