



Overground Walking

6 strides · captured 22 Apr 2026, 08:50 · demo-subject

NOTES

[FICTIONAL]: 68 y/o male, 8 months post left MCA ischemic stroke, presenting with residual right-sided hemiparesis affecting gait. Community ambulator, uses a single-point cane for longer distances, no cane required indoors. Reports increased fatigue and occasional right foot-drag by the end of longer outings (>15 min continuous walking). No falls in the past 3 months, though patient reports two near-falls, both on uneven outdoor surfaces. Completed 12 weeks of outpatient physical therapy post-discharge, currently attending maintenance sessions biweekly. Mild spasticity noted in right ankle plantarflexors; no fixed contracture. Patient reports right hip and knee feel "less reliable" than left, particularly during turning or stepping over obstacles.

METRIC OVERVIEW

Gait speed (m/s)

1.68 m/s



Stride length (m)

L R
1.79 m 1.76 m



Cadence (steps/min)

115.0 spm



Double support (% gait cycle)

L R
14.0 % 15.0 %



Step length symmetry (% R/L)

103.0 %



Step width (cm)

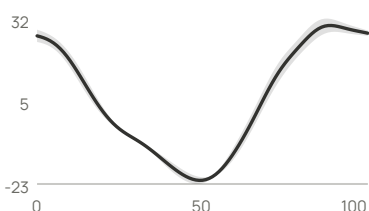
11.4 cm



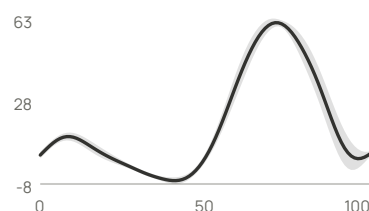
NORMALIZED JOINT KINEMATICS

— Left — Right 95% CI

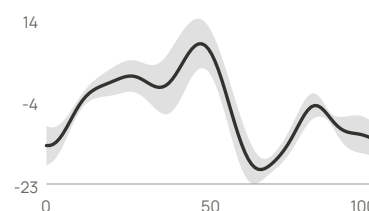
Hip Flexion (R) · R-cycle (°)



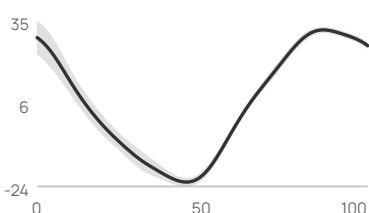
Knee Flexion (R) · R-cycle (°)



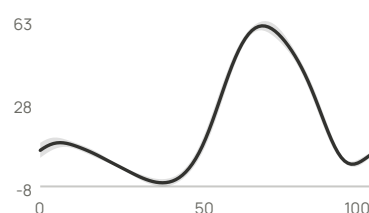
Ankle Dorsiflexion (R) · R-cycle (°)



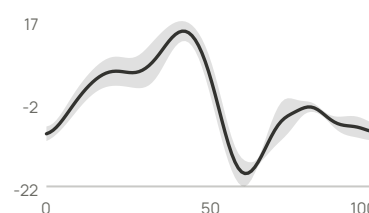
Hip Flexion (L) · L-cycle (°)



Knee Flexion (L) · L-cycle (°)



Ankle Dorsiflexion (L) · L-cycle (°)



DETAILED RESULTS

METRIC	LEFT	RIGHT	ASYMMETRY
Gait speed (m/s)	1.7 m/s		
Cadence (steps/min)	115 spm		
Stride length (m)	1.79 m	1.76 m	1.7%
Step width (cm)	11 cm		
Double support (% gait cycle)	14 %	15 %	6.7%
Step length symmetry (% R/L)	103 %		
Peak trunk lean during stance (deg)	-2 °	3 °	196.0%
Peak knee extension during stance (deg)	-7 °	-7 °	1.5%
Peak ankle dorsiflexion during stance (deg)	15 °	9 °	42.8%
Hip extension at toe-off (deg)	10 °	13 °	21.8%
Peak dynamic knee valgus (deg)	0 °	2 °	85.7%
Foot progression angle (deg)	7 °	12 °	37.6%
Pelvic drop at midstance (deg)	1 °	0 °	60.0%
Knee flexion at initial contact (deg)	7 °	5 °	39.2%
Peak hip adduction during swing (deg)	7 °	3 °	51.5%
Stance time (s)	0.59 s	0.61 s	2.5%
Swing time (s)	0.46 s	0.43 s	7.0%

MEDIA

