

	FAST/AD (n=83), a	FAST/IN (n=18), b	INTERMEDIATE (n=17), c	SLOW (n=90), d	F _{3,204}	P(FDR)	post-hoc	η ²
Mean age, years	61.89 (10.54)	68.44 (11.08)	68.35 (10.45)	68.21 (8.30)	7.250355	<0.001	a<d	
Spatiotemporal parameters								
Gait speed (cm/second)	84.42 (18.08)	81.96 (12.40)	65.44 (19.31)	43.73 (15.80)	91.15	<0.001	a>d, a>c, d<b, d<c, b>c	0.5727
Stride length, unaffected(cm)	99.31 (14.05)	91.63 (11.16)	81.55 (14.78)	63.50 (17.15)	81.26	<0.001	a d, a c, d b, d c	0.5444
Stride length, affected(cm)	98.71 (14.17)	91.94 (11.72)	81.00 (14.90)	64.02 (17.40)	74.53	<0.001	a d, a c, d b, d c	0.5229
Step length, unaffected(cm)	49.90 (7.21)	45.02 (7.36)	40.53 (7.64)	31.99 (13.23)	44.44	<0.001	a d, a c, d b, d c	0.3953
Step length, affected(cm)	48.80 (8.20)	46.52 (7.65)	40.50 (8.11)	31.95 (11.31)	46.46	<0.001	a d, a c, d b, d c	0.4059
Cadence (steps/minute)	101.76 (12.72)	106.82 (10.71)	95.43 (15.07)	81.87 (17.81)	30.43	<0.001	a>d, d<b, d<c	0.3091
Initial double support, unaffected(seconds)	0.19 (0.06)	0.24 (0.10)	0.25 (0.09)	0.50 (0.60)	9.34	<0.001	a<d	0.1207
Initial double support, affected(seconds)	0.18 (0.05)	0.22 (0.06)	0.24 (0.07)	0.38 (0.20)	32.84	<0.001	a<d, d>b, d>c	0.3256
Single support, unaffected(seconds)	0.47 (0.10)	0.60 (0.11)	0.55 (0.13)	0.78 (0.61)	8.52	<0.001	a<d	0.1113
Single support, affected(seconds)	0.44 (0.07)	0.50 (0.06)	0.50 (0.10)	0.53 (0.12)	12.16	<0.001	a<d	0.1517
Terminal double support, unaffected(seconds)	0.19 (0.05)	0.23 (0.06)	0.24 (0.05)	0.48 (0.41)	17.39	<0.001	a<d, d>b, d>c	0.2037
Terminal double support, affected(seconds)	0.19 (0.05)	0.21 (0.06)	0.22 (0.06)	0.38 (0.22)	24.37	<0.001	a<d, d>b, d>c	0.2639
Kinematic parameters (degrees)								
Stance phase								
Hip extension, unaffected	-11.27 (8.76)	7.08 (8.99)	2.88 (9.06)	5.25 (13.40)	37.28	<0.001	a d, a b, a c,	0.3541
Hip extension, affected	-10.33 (8.79)	7.40 (8.68)	1.56 (10.43)	2.50 (22.66)	11.57	<0.001	a d, a b, a c	0.1454
Knee flexion, unaffected	16.03 (8.64)	27.64 (11.37)	19.51 (9.30)	24.51 (10.80)	13.53	<0.001	a d, a b	0.1659
Knee flexion, affected	17.26 (8.62)	28.83 (6.65)	21.76 (9.39)	23.07 (10.45)	10.05	<0.001	a d, a b	0.1287
Ankle dorsiflexion, unaffected	16.38 (3.90)	16.13 (5.26)	17.57 (4.72)	18.64 (6.47)	2.97	0.036	a d,	0.0419
Ankle dorsiflexion, affected	17.21 (5.74)	15.31 (4.62)	17.93 (3.82)	17.67 (6.02)	0.95	0.419	n·s·	0.0137
Swing phase								
Hip flexion, unaffected	27.62 (8.74)	42.40 (9.88)	34.79 (10.70)	34.34 (13.61)	10.7	<0.001	a d, a b, d b,	0.1359
Hip flexion, affected	27.64 (8.69)	41.07 (9.81)	34.51 (10.79)	33.27 (12.93)	9.13	<0.001	a d, a b, d b	0.1184
Knee flexion, unaffected	51.48 (11.47)	74.83 (18.65)	56.66 (12.74)	50.79 (15.05)	16.13	<0.001	a b, d b, b c	0.1917
Knee flexion, affected	52.40 (11.08)	70.22 (8.43)	55.36 (14.51)	51.07 (15.99)	10.4	<0.001	a b, d b, b c	0.1327
Ankle dorsiflexion, unaffected	7.04 (5.22)	13.21 (11.90)	7.56 (6.48)	14.22 (6.68)	18.38	<0.001	a d, a b, d c	0.2128
Ankle dorsiflexion, affected	7.29 (4.66)	12.40 (8.14)	7.37 (5.58)	12.10 (8.70)	8.21	<0.001	a d, a b,	0.1077
Kinetic parameters								
Moment (Nm/kg)								
Hip extension, unaffected	0.83 (0.74)	0.71 (0.94)	0.54 (0.37)	0.55 (0.59)	2.81	0.043	a d,	0.0397
Hip extension, affected	0.61 (0.35)	0.64 (0.39)	1.70 (1.49)	0.58 (0.63)	15.45	<0.001	a c, d c, b c	0.1852
Knee extension, unaffected	0.50 (0.84)	1.22 (0.98)	0.81 (0.74)	0.90 (0.95)	4.69	0.004	a d, a b	0.0645
Knee extension, affected	0.50 (0.46)	1.01 (0.42)	0.34 (0.45)	0.88 (0.57)	13.02	<0.001	a d, a b, d c, b c	0.1607
Ankle extension, unaffected	1.34 (0.71)	1.04 (0.63)	0.90 (0.39)	0.98 (0.69)	4.96	0.003	a d,	0.0679
Ankle extension, affected	1.19 (0.30)	1.29 (0.66)	2.57 (1.14)	0.87 (0.56)	44.12	<0.001	a d, a c, d b, d c, b c	0.3935
Power generation (Watt/kg)								
Hip, unaffected	1.37 (1.08)	1.08 (1.20)	0.69 (0.34)	0.59 (0.74)	10.84	<0.001	a d, a c,	0.1375
Hip, affected	1.01 (0.62)	0.67 (0.47)	1.85 (1.45)	0.72 (1.49)	5.12	0.002	a c, d c, b c	0.07
Knee, unaffected	0.99 (1.28)	1.07 (0.55)	0.49 (0.44)	0.82 (1.06)	1.29	0.286	n·s·	0.0186
Knee, affected	0.62 (0.41)	0.79 (0.47)	3.39 (3.24)	0.69 (0.89)	30.82	<0.001	a c, d c, b c	0.3119
Ankle, unaffected	2.00 (1.33)	1.57 (1.05)	1.50 (0.99)	1.16 (1.19)	6.77	<0.001	a d,	0.0905
Ankle, affected	1.75 (0.89)	1.44 (1.00)	4.99 (2.93)	0.90 (0.87)	57.19	<0.001	a d, a c, d c, b c	0.4568

Data are mean (SD).

Supplementary Table 3. Quantitative gait analysis data in subgroups within the radiculopathy group