

Table S1. IMU head, thorax acceleration state space reconstruction

Segment/Joint (Axis)	Interval	EDim		ELag	
		Min	Max	Min	Max
Head (X)	1	4	4	10	10
	2	4	4	10	10
	3	4	4	10	10
	4	4	4	10	10
	5	4	4	10	10
Head (Y)	1	4	4	10	10
	2	4	4	10	10
	3	4	4	10	10
	4	4	4	10	10
	5	4	4	10	10
Head (Z)	1	4	4	10	10
	2	4	4	10	10
	3	4	4	10	10
	4	4	4	5	10
	5	3	4	10	10
Thorax (X)	1	4	4	10	10
	2	4	4	10	10
	3	4	4	10	10
	4	4	4	10	10
	5	4	4	10	10
Thorax (Y)	1	4	4	10	10
	2	4	4	10	10
	3	4	4	10	10
	4	4	4	10	10
	5	4	4	10	10
Thorax (Z)	1	4	4	9	10
	2	4	4	9	10
	3	4	4	8	10
	4	4	4	9	10
	5	4	4	8	10

Edim = embedding dimension, Elag = time delay, Min = minimum, Max = maximum

Table S2. IMU pelvis acceleration state space reconstruction

Segment/Joint (Axis)	Interval	EDim		Elag	
		Min	Max	Min	Max
Pelvis (X)	1	4	4	10	10
	2	4	4	10	10
	3	4	4	10	10
	4	4	4	10	10
	5	4	4	10	10
Pelvis (Y)	1	4	4	10	10
	2	4	4	10	10
	3	4	4	10	10
	4	4	4	10	10
	5	4	4	10	10
Pelvis (Z)	1	4	4	10	10
	2	4	4	10	10
	3	4	4	10	10
	4	4	4	10	10
	5	4	4	10	10

Edim = embedding dimension, Elag = time delay, Min = minimum, Max = maximum

Table S3. IMU shank acceleration state space reconstruction

Segment/Joint (Axis)	Interval	EDim		ELag	
		Min	Max	Min	Max
Left Shank (X)	1	4	4	10	10
	2	4	4	10	10
	3	4	4	10	10
	4	4	4	10	10
	5	4	4	10	10
Left Shank (Y)	1	4	4	10	10
	2	4	4	10	10
	3	4	4	10	10
	4	4	4	10	10
	5	4	4	10	10
Left Shank (Z)	1	4	4	10	10
	2	4	4	10	10
	3	4	4	9	10
	4	4	4	9	10
	5	4	4	10	10
Right Shank (X)	1	4	4	10	10
	2	4	4	10	10
	3	4	4	10	10
	4	4	4	10	10
	5	4	4	10	10
Right Shank (Y)	1	4	4	10	10
	2	4	4	10	10
	3	4	4	10	10
	4	4	4	10	10
	5	4	4	10	10
Right Shank (Z)	1	4	4	10	10
	2	4	4	9	10
	3	4	4	10	10
	4	4	4	10	10
	5	4	4	10	10

EDim = embedding dimension, Elag = time delay, Min = minimum, Max = maximum

Table S4. VICON Neck, thorax kinematic state space reconstruction

Segment/Joint (Axis)	Interval	EDim		ELag	
		Min	Max	Min	Max
Neck (X)	1	3	4	10	10
	2	3	4	10	10
	3	3	4	2	10
	4	3	4	9	10
	5	3	4	10	10
Neck (Y)	1	3	4	10	10
	2	3	4	10	10
	3	3	4	10	10
	4	3	4	10	10
	5	3	4	10	10
Neck (Z)	1	3	4	10	10
	2	3	4	10	10
	3	4	4	10	10
	4	3	4	10	10
	5	3	4	10	10
Thorax (X)	1	3	4	8	10
	2	3	4	8	10
	3	3	4	7	10
	4	4	4	8	10
	5	3	4	8	10
Thorax (Y)	1	3	4	10	10
	2	3	4	10	10
	3	3	4	10	10
	4	3	4	10	10
	5	3	4	10	10
Thorax (Z)	1	3	4	9	10
	2	3	4	10	10
	3	3	4	10	10
	4	3	4	10	10
	5	3	4	10	10

Edim = embedding dimension, Elag = time delay, Min = minimum, Max = maximum

Table S5. VICON pelvis kinematic state space reconstruction

Segment/Joint (Axis)	Interval	EDim		ELag	
		Min	Max	Min	Max
Pelvis (X)	1	3	4	10	10
	2	3	4	10	10
	3	3	4	9	10
	4	3	4	10	10
	5	3	4	10	10
Pelvis (Y)	1	3	4	7	10
	2	3	4	8	10
	3	3	4	9	10
	4	3	4	9	10
	5	3	4	9	10
Pelvis (Z)	1	3	4	10	10
	2	3	4	9	10
	3	3	4	9	10
	4	3	4	10	10
	5	3	4	10	10

Edim = embedding dimension, Elag = time delay, Min = minimum, Max = maximum

Table S6. VICON hip kinematics state space reconstruction

Segment/Joint (Axis)	Interval	EDim		ELag	
		Min	Max	Min	Max
Left Hip (X)	1	3	4	7	10
	2	3	4	7	10
	3	3	4	7	10
	4	4	4	7	10
	5	3	4	7	10
Left Hip (Y)	1	3	4	8	10
	2	3	4	7	10
	3	3	4	7	10
	4	3	4	8	10
	5	3	4	7	10
Left Hip (Z)	1	3	4	4	10
	2	3	4	4	10
	3	4	4	4	10
	4	3	4	4	10
	5	3	4	4	10
Right Hip (X)	1	4	4	7	10
	2	4	4	7	10
	3	4	4	6	10
	4	4	4	6	10
	5	4	4	6	10
Right Hip (Y)	1	3	4	8	10
	2	3	4	7	10
	3	3	4	7	10
	4	3	4	6	10
	5	3	4	7	10
Right Hip (Z)	1	3	3	4	10
	2	3	3	4	10
	3	3	3	4	10
	4	3	3	4	10
	5	3	3	4	10

Edim = embedding dimension, Elag = time delay, Min = minimum, Max = maximum

Table S7. VICON knee kinematics state space reconstruction

Segment/Joint (Axis)	Interval	EDim		ELag	
		Min	Max	Min	Max
Left Knee (X)	1	4	4	5	10
	2	4	4	5	10
	3	4	4	5	10
	4	4	4	5	10
	5	4	4	5	10
Left Knee (Y)	1	4	4	5	10
	2	4	4	5	10
	3	4	4	5	10
	4	4	4	5	10
	5	4	4	5	10
Left Knee (Z)	1	3	3	3	10
	2	3	3	3	10
	3	3	3	3	8
	4	3	3	3	10
	5	3	3	3	10
Right Knee (X)	1	4	4	6	10
	2	4	4	6	10
	3	4	4	6	10
	4	4	4	5	10
	5	4	4	5	10
Right Knee (Y)	1	3	4	6	10
	2	3	4	6	10
	3	3	4	5	10
	4	3	4	6	10
	5	3	4	5	10
Right Knee (Z)	1	3	3	3	10
	2	3	3	3	6
	3	3	3	3	5
	4	3	3	3	5
	5	3	3	3	8

Edim = embedding dimension, Elag = time delay, Min = minimum, Max = maximum

Table S8. VICON ankle kinematics state space reconstruction

Segment/Joint (Axis)	Interval	EDim		ELag	
		Min	Max	Min	Max
Left Ankle (X)	1	4	4	8	10
	2	4	4	8	10
	3	4	4	8	10
	4	4	4	7	10
	5	4	4	8	10
Left Ankle (Y)	1	4	4	5	10
	2	4	4	5	10
	3	4	4	5	10
	4	4	4	5	10
	5	4	4	5	10
Left Ankle (Z)	1	3	4	10	10
	2	3	4	10	10
	3	3	4	10	10
	4	3	4	10	10
	5	3	4	10	10
Right Ankle (X)	1	4	4	9	10
	2	3	4	9	10
	3	3	4	7	10
	4	4	4	7	10
	5	4	4	7	10
Right Ankle (Y)	1	4	4	7	10
	2	4	4	6	10
	3	4	4	7	10
	4	4	4	6	10
	5	4	4	6	10
Right Ankle (Z)	1	3	4	8	10
	2	3	4	8	10
	3	3	4	9	10
	4	3	4	9	10
	5	3	4	8	10

Edim = embedding dimension, Elag = time delay, Min = minimum, Max = maximum

Table S9: Reliability cycling performance variables

Value	Interval	Mean (SD)			ICC _(3,1) (95%CI)		ICC _(3,1) mean (95%CI)		TE (stzd) (LL/UL)		TE (stzd) mean (LL/UL)	
		Sn. 1	Sn. 2	Sn. 3	2-1	3-1	3-2		2-1	3-1	3-2	
P	1	227.1 (72.4)	240.2 (74.1)	244.4 (68.1)	0.89 (0.67 – 0.97)	0.88 (0.64 – 0.96)	0.87 (0.61 – 0.96)	0.88 (0.73 – 0.96)	0.78 (0.56 – 1.33)	0.82 (0.58 – 1.39)	0.86 (0.61 – 1.47)	0.76 (0.61 – 1.07)
	2	199.0 (58.9) [†]	211.4 (66.1) [†]	213.8 (58.4) [†]	0.95 (0.82 – 0.98)	0.96 (0.88 – 0.99)	0.96 (0.88 – 0.99)	0.96 (0.90 – 0.99)	0.54 (0.38 – 0.92)	0.43 (0.31 – 0.73)	0.44 (0.31 – 0.74)	0.46 (0.37 – 0.65)
	3	193.4 (54.2) [†]	206.3 (62.3) [†]	206.3 (60.0) [†]	0.97 (0.89 – 0.99)	0.94 (0.81 – 0.98)	0.93 (0.79 – 0.98)	0.95 (0.87 – 0.98)	0.41 (0.29 – 0.70)	0.56 (0.40 – 0.95)	0.60 (0.42 – 1.01)	0.51 (0.41 – 0.72)
	4	196.7 (52.2) [†]	204.7 (60.7) [†]	205.0 (61.0) [†]	0.97 (0.91 – 0.99)	0.94 (0.82 – 0.98)	0.95 (0.84 – 0.99)	0.96 (0.89 – 0.99)	0.38 (0.27 – 0.65)	0.55 (0.39 – 0.94)	0.51 (0.36 – 0.87)	0.47 (0.38 – 0.66)
	5	207.9 (46.0) [†]	210.7 (55.7) [†]	220.2 (60.3) [†]	0.95 (0.83 – 0.98)	0.94 (0.81 – 0.98)	0.95 (0.84 – 0.99)	0.95 (0.87 – 0.98)	0.52 (0.37 – 0.89)	0.57 (0.40 – 0.96)	0.51 (0.36 – 0.87)	0.52 (0.41 – 0.72)
C	1	90.0 (10.0)	91.2 (9.8)	92.4 (8.0)	0.79 (0.43 – 0.94)	0.78 (0.40 – 0.93)	0.82 (0.48 – 0.94)	0.80 (0.57 – 0.93)	1.13 (0.80 – 1.93)	1.17 (0.83 – 1.98)	1.06 (0.75 – 1.79)	0.98 (0.78 – 1.37)
	2	86.3 (8.3) [†]	87.3 (8.9) [†]	88.4 (5.6) [†]	0.85 (0.56 – 0.95)	0.86 (0.58 – 0.96)	0.86 (0.59 – 0.96)	0.86 (0.68 – 0.95)	0.93 (0.66 – 1.58)	0.90 (0.64 – 1.54)	0.89 (0.63 – 1.52)	0.83 (0.66 – 1.16)
	3	85.4 (7.9) [†]	86.7 (8.3) [†]	87.1 (5.1) [†]	0.89 (0.66 – 0.97)	0.80 (0.44 – 0.94)	0.75 (0.33 – 0.92)	0.82 (0.62 – 0.94)	0.79 (0.56 – 1.34)	1.11 (0.79 – 1.89)	1.29 (0.91 – 2.18)	0.92 (0.73 – 1.29)
	4	86.1 (7.6) [†]	86.5 (7.8) [†]	87.0 (5.3) [†]	0.92 (0.74 – 0.98)	0.83 (0.51 – 0.95)	0.83 (0.51 – 0.95)	0.87 (0.70 – 0.95)	0.67 (0.47 – 1.14)	1.01 (0.72 – 1.72)	1.01 (0.71 – 1.71)	0.80 (0.64 – 1.13)
	5	88.0 (5.8)	87.5 (6.7) [†]	89.3 (5.6) [†]	0.93 (0.77 – 0.98)	0.86 (0.60 – 0.96)	0.89 (0.66 – 0.97)	0.90 (0.76 – 0.97)	0.63 (0.44 – 1.06)	0.88 (0.63 – 1.50)	0.80 (0.57 – 1.35)	0.71 (0.57 – 1.00)
F	1	139.3 (32.4) [†]	145.2 (33.3) [†]	146.6 (30.8) [†]	0.90 (0.70 – 0.97)	0.91 (0.72 – 0.97)	0.91 (0.72 – 0.97)	0.91 (0.79 – 0.97)	0.73 (0.52 – 1.24)	0.70 (0.50 – 1.19)	0.70 (0.50 – 1.19)	0.67 (0.53 – 0.94)
	2	128.1 (27.9) [†]	133.7 (30.8) [†]	134.7 (28.6) [†]	0.95 (0.83 – 0.98)	0.97 (0.90 – 0.99)	0.97 (0.91 – 0.99)	0.96 (0.91 – 0.99)	0.52 (0.37 – 0.89)	0.39 (0.28 – 0.66)	0.38 (0.27 – 0.65)	0.43 (0.34 – 0.60)
	3	125.9 (26.2) [†]	131.8 (29.3) [†]	131.8 (29.4) [†]	0.97 (0.89 – 0.99)	0.96 (0.86 – 0.99)	0.95 (0.84 – 0.99)	0.96 (0.90 – 0.99)	0.41 (0.29 – 0.69)	0.47 (0.34 – 0.81)	0.52 (0.37 – 0.88)	0.46 (0.36 – 0.64)
	4	127.3 (25.3) [†]	131.2 (28.7) [†]	131.1 (29.9) [†]	0.96 (0.88 – 0.99)	0.96 (0.86 – 0.99)	0.96 (0.87 – 0.99)	0.96 (0.90 – 0.99)	0.43 (0.31 – 0.73)	0.48 (0.34 – 0.82)	0.45 (0.32 – 0.77)	0.44 (0.35 – 0.62)
	5	132.0 (23.7) [†]	133.9 (26.6) [†]	137.1 (29.4) [†]	0.94 (0.81 – 0.98)	0.95 (0.85 – 0.99)	0.96 (0.87 – 0.99)	0.95 (0.89 – 0.98)	0.56 (0.40 – 0.96)	0.49 (0.35 – 0.83)	0.45 (0.32 – 0.77)	0.49 (0.39 – 0.68)
P/m	1	3.0 (1.0)	3.1 (0.9)	3.2 (0.9)	0.87 (0.61 – 0.96)	0.90 (0.69 – 0.97)	0.86 (0.58 – 0.96)	0.88 (0.72 – 0.96)	0.87 (0.62 – 1.48)	0.75 (0.53 – 1.28)	0.90 (0.64 – 1.54)	0.78 (0.62 – 1.09)
	2	2.6 (0.7) [†]	2.7 (0.8) [†]	2.8 (0.7) [†]	0.93 (0.78 – 0.98)	0.96 (0.87 – 0.99)	0.95 (0.84 – 0.99)	0.95 (0.87 – 0.98)	0.61 (0.43 – 1.03)	0.45 (0.32 – 0.77)	0.51 (0.36 – 0.87)	0.51 (0.41 – 0.72)
	3	2.5 (0.6) [†]	2.7 (0.7) [†]	2.7 (0.6) [†]	0.96 (0.86 – 0.99)	0.92 (0.74 – 0.98)	0.89 (0.67 – 0.97)	0.92 (0.82 – 0.97)	0.48 (0.34 – 0.82)	0.67 (0.47 – 1.13)	0.78 (0.55 – 1.32)	0.62 (0.49 – 0.87)

Value	Interval	Mean (SD)			ICC _(3,1) (95%CI)		ICC _(3,1) mean (95%CI)		TE (stzd) (LL/UL)			TE (stzd) mean (LL/UL)
		Sn. 1	Sn. 2	Sn. 3	2-1	3-1	3-2		2-1	3-1	3-2	
4		2.6	2.7	2.6	0.96	0.92	0.92	0.93	0.46	0.66	0.67	0.57
		(0.6) [†]	(0.7) [†]	(0.6) [†]	(0.87 – 0.99)	(0.75 – 0.98)	(0.74 – 0.98)	(0.84 – 0.98)	(0.33 – 0.79)	(0.46 – 1.11)	(0.47 – 1.13)	(0.46 – 0.81)
5		2.7	2.7	2.8	0.92	0.91	0.92	0.92	0.66	0.70	0.66	0.64
		(0.5) [†]	(0.6) [†]	(0.6) [†]	(0.75 – 0.98)	(0.72 – 0.97)	(0.75 – 0.98)	(0.81 – 0.97)	(0.47 – 1.13)	(0.50 – 1.19)	(0.47 – 1.12)	(0.51 – 0.89)

P = Power (watts), C = Cadence (revolutions/min), F = Force (Newtons), P/m = Power / mass (Watts/kg); Sn = session; SD = standard deviation; ICC = intraclass correlation coefficient; CI = confidence interval; TE (stzd) = standardized typical error; LL = lower limit; UL = upper limit.

† < 0.05 vs. Interval 1

Table S10. Reliability of the LyE for head acceleration

ACC	Interval	Mean (SD)			ICC(3,1) (95%CI)			ICC(3,1) mean (95%CI)	TE (stzd) (LL/UL)			TE (stzd) mean (LL/UL)
		Sn. 1	Sn. 2	Sn. 3	2-1	3-1	3-2		2-1	3-1	3-2	
Hx	1	1.4 (0.3)	1.4 (0.3)	1.3 (0.2)	0.72 (0.27-0.91)	0.74 (0.-32-0.92)	0.89 (0.67-0.97)	0.77 (0.53-0.92)	1.39 (0.98-2.36)	1.31 (0.93-2.22)	0.78 (0.55-1.32)	1.03 (0.82-1.44)
	2	1.4 (0.2)	1.5 (0.2) ^a	1.4 (0.2)	0.76 (0.35-0.92)	0.80 (0.45-0.94)	0.85 (0.55-0.95)	0.80 (0.58-0.93)	1.26 (0.89-2.14)	1.10 (0.78-1.87)	0.95 (0.67-1.61)	0.97 (0.77-1.35)
	3	1.5 (0.2) ^a	1.5 (0.2) ^a	1.5 (0.2) ^a	0.83 (0.52 – 0.95)	0.91 (0.72 – 0.97)	0.93 (0.77 – 0.98)	0.89 (0.75 – 0.96)	1.00 (0.71 – 1.69)	0.71 (0.50 – 1.21)	0.62 (0.44 – 1.06)	0.73 (0.58 – 1.02)
	4	1.6 (0.3) ^{ab}	1.6 (0.3) ^{ab}	1.5 (0.3) ^{ab}	0.86 (0.58 – 0.96)	0.90 (0.69 – 0.97)	0.96 (0.86 – 0.99)	0.91 (0.78 – 0.97)	0.91 (0.64 – 1.54)	0.75 (0.53 – 1.27)	0.48 (0.34 – 0.82)	0.68 (0.54 – 0.95)
	5	1.7 (0.2) ^{abc}	1.7 (0.2) ^{abc}	1.7 (0.2) ^{abc}	0.88 (0.65 – 0.96)	0.77 (0.39 – 0.93)	0.92 (0.75 – 0.98)	0.87 (0.70 – 0.95)	0.81 (0.58 – 1.38)	0.99 (0.70-1.68)	0.65 (0.46 – 1.11)	0.80 (0.64 – 1.13)
Hy	1	1.2 (0.2)	1.2 (0.3)	1.3 (0.2)	0.76 (0.35 – 0.92)	0.90 (0.69 – 0.97)	0.80 (0.45 – 0.94)	0.81 (0.60 – 0.93)	1.26 (0.89 – 2.13)	0.75 (0.53 – 1.28)	1.10 (0.78 – 1.87)	0.94 (0.75 – 1.32)
	2	1.3 (0.2)	1.3 (0.2)	1.3 (0.2)	0.69 (0.23 – 0.90)	0.79 (0.42 – 0.93)	0.77 (0.37 – 0.93)	0.75 (0.49 – 0.91)	1.46 (1.04 – 2.48)	1.15 (0.81 – 1.95)	1.22 (0.87 – 2.08)	1.08 (0.86 – 1.52)
	3	1.3 (0.2)	1.4 (0.2)	1.4 (0.2) ^a	0.72 (0.28 – 0.91)	0.76 (0.36 – 0.92)	0.90 (0.70 – 0.97)	0.80 (0.59 – 0.93)	1.37 (0.97 – 2.32)	1.24 (0.88 – 2.10)	0.74 (0.52 – 1.25)	0.96 (0.76 – 1.34)
	4	1.4 (0.2) ^{ab}	1.5 (0.3) ^{ab}	1.5 (0.3) ^{ab}	0.70 (0.25 – 0.90)	0.69 (0.23 – 0.90)	0.75 (0.33 – 0.92)	0.72 (0.45 – 0.90)	1.43 (1.01 – 2.42)	1.46 (1.46 – 2.27)	1.28 (0.91 – 2.18)	1.13 (0.90 – 1.59)
	5	1.5 (0.2) ^{abc}	1.6 (0.3) ^{abc}	1.6 (0.4) ^{abc} _d	0.76 (0.35 – 0.92)	0.65 (0.15 – 0.88)	0.88 (0.64 – 0.96)	0.78 (0.55 – 0.92)	1.25 (0.88 – 2.12)	1.62 (1.15 – 2.75)	0.81 (0.58 – 1.38)	1.01 (0.81 – 1.42)
Hz	1	1.3 (0.3)	1.4 (0.4)	1.4 (0.5)	0.53 (-0.03 – 0.84)	0.48 (-0.10-0.81)	0.75 (0.33-0.92)	0.61 (0.30 – 0.85)	2.03 (1.44 – 3.45)	2.14 (1.52 – 3.64)	1.29 (0.91 – 2.19)	1.31 (1.04 – 1.84)
	2	1.4 (0.2)	1.5 (0.3)	1.5 (0.5)	0.68 (0.21 – 0.90)	0.56 (0.02 – 0.85)	0.68 (0.20 – 0.90)	0.64 (0.34 – 0.86)	1.50 (1.06 – 2.55)	1.91 (1.35-3.24)	1.52 (1.07 – 2.57)	1.27 (1.01 – 1.78)
	3	1.5 (0.3) ^a	1.5 (0.4)	1.6 (0.6)	0.68 (0.20 – 0.89)	0.65 (0.15 – 0.89)	0.88 (0.64 – 0.96)	0.76 (0.52 – 0.91)	1.52 (1.08 – 2.58)	1.60 (1.13-2.72)	0.82 (0.58 – 1.39)	1.05 (0.84 – 1.47)
	4	1.6 (0.3) ^a	1.6 (0.6) ^a	1.6 (0.6)	0.64 (0.13 – 0.88)	0.70 (0.25 – 0.91)	0.84 (0.54 – 0.95)	0.75 (0.50 – 0.91)	1.65 (1.17 – 2.81)	1.42 (1.01 – 2.42)	0.96 (0.68 – 1.63)	1.07 (0.86 – 1.50)
	5	1.7 (0.3) ^{ab}	1.7 (0.5) ^a	1.7 (0.6) ^{ab}	0.67 (0.18– 0.89)	0.63 (0.12 – 0.88)	0.93 (0.77 – 0.98)	0.78 (0.54 – 0.92)	1.55 (1.10 – 2.63)	1.66 (1.18 – 2.82)	0.63 (0.45 – 1.07)	1.02 (0.81 – 1.42)

ACC =

acceleration; Hx = head longitudinal; Hy = head medio-lateral; Hz = head anterior-posterior; Sn = session; SD = standard deviation; ICC = intraclass correlation coefficient; CI = confidence interval;

TE (stzd) = standardized typical error; LL = lower limit; UL = upper limit.

a < 0.05 vs interval 1; b < 0.05 vs. interval 2; c < 0.05 vs. interval 3; d < 0.05 vs. interval 4

Table S11. Reliability of the LyE for thorax acceleration

ACC	Interval	Mean (SD)			ICC _(3,1) (95%CI)			ICC _(3,1) mean (95%CI)	TE (stzd) (LL/UL)			TE (stzd) mean (LL/UL)
		Sn. 1	Sn. 2	Sn. 3	2-1	3-1	3-2		2-1	3-1	3-2	
Tx	1	1.2 (0.3)	1.2 (0.2)	1.2 (0.2)	0.73 (0.29 – 0.91)	0.80 (0.44 – 0.94)	0.91 (0.72 – 0.97)	0.81 (0.60 – 0.93)	1.36 (0.96 – 2.30)	1.12 (0.79 – 1.90)	0.70 (0.50 – 1.20)	0.95 (0.75 – 1.33)
	2	1.3 (0.3)	1.3 (0.2)	1.3 (0.3)	0.85 (0.57 – 0.96)	0.90 (0.68 – 0.97)	0.92 (0.75 – 0.98)	0.89 (0.75 – 0.96)	0.92 (0.65 – 1.57)	0.76 (0.54 – 1.29)	0.66 (0.47 – 1.12)	0.72 (0.58 – 1.01)
	3	1.3 (0.3) [†]	1.3 (0.2)	1.3 (0.3)	0.89 (0.67 – 0.97)	0.87 (0.61 – 0.96)	0.93 (0.76 – 0.98)	0.89 (0.76 – 0.96)	0.78 (0.55 – 1.33)	0.87 (0.61 – 1.47)	0.64 (0.45 – 1.08)	0.72 (0.57 – 1.01)
	4	1.4 (0.3) _a	1.3 (0.2) _{ab}	1.3 (0.3) ^{ab}	0.86 (0.58 – 0.96)	0.86 (0.59 – 0.96)	0.89 (0.66 – 0.97)	0.87 (0.71 – 0.96)	0.90 (0.64 – 1.53)	0.89 (0.63 – 1.52)	0.79 (0.56 – 1.34)	0.79 (0.63 – 1.11)
	5	1.4 (0.3) _{abc}	1.4 (0.3) _{abc}	1.4 (0.3) _{abc}	0.93 (0.78 – 0.98)	0.85 (0.56 – 0.95)	0.91 (0.73 – 0.97)	0.90 (0.76 – 0.97)	0.61 (0.43 – 1.04)	0.94 (0.67 – 1.60)	0.69 (0.49 – 1.16)	0.71 (0.57 – 1.00)
Ty	1	1.4 (0.2)	1.4 (0.2)	1.3 (0.2)	0.50 (-0.07-0.82)	0.68 (0.20 – 0.89)	0.65 (0.16 – 0.89)	0.60 (0.29 – 0.85)	2.17 (1.54 – 3.69)	1.52 (1.08 – 2.58)	1.60 (1.13 – 2.72)	1.33 (1.05 – 1.86)
	2	1.4 (0.3)	1.4 (0.2)	1.4 (0.2)	0.70 (0.24 – 0.90)	0.80 (0.45 – 0.94)	0.89 (0.66 – 0.97)	0.79 (0.56 – 0.93)	1.44 (1.02 – 2.45)	1.09 (0.78 – 1.86)	0.80 (0.57 – 1.36)	1.00 (0.79 – 1.40)
	3	1.5 (0.3)	1.5 (0.2)	1.4 (0.2)	0.77 (0.37 – 0.93)	0.73 (0.30 – 0.91)	0.89 (0.67 – 0.97)	0.79 (0.56 – 0.92)	1.23 (0.87 – 2.08)	1.33 (0.94 – 2.26)	0.78 (0.55 – 1.32)	1.00 (0.80 – 1.40)
	4	1.5 (0.3) _{abc}	1.5 (0.2) _{ab}	1.5 (0.2) ^{ab}	0.72 (0.27 – 0.91)	0.76 (0.35 – 0.92)	0.88 (0.64 – 0.96)	0.78 (0.54 – 0.92)	1.38 (0.98 – 2.34)	1.25 (0.88 – 2.12)	0.82 (0.58 – 1.40)	1.02 (0.81 – 1.42)
	5	1.6 (0.3) _{abc}	1.6 (0.3) _{abc}	1.6 (0.2) _{abc}	0.88 (0.63 – 0.96)	0.78 (0.41 – 0.93)	0.93 (0.79 – 0.98)	0.86 (0.69 – 0.95)	0.84 (0.59 – 1.42)	1.17 (0.83 – 1.98)	0.60 (0.43 – 1.02)	0.81 (0.65 – 1.14)
Tz	1	1.6 (0.6)	1.7 (0.5)	1.7 (0.5)	0.50 (-0.07-0.83)	0.58 (0.03 – 0.86)	0.92 (0.74 – 0.98)	0.65 (0.35 – 0.87)	2.16 (1.53 – 3.67)	1.87 (1.33 – 3.18)	0.67 (0.48 – 1.14)	1.26 (1.00 – 1.76)
	2	1.8 (0.4) _a	1.8 (0.4)	1.8 (0.5)	0.74 (0.32 – 0.92)	0.63 (0.12 – 0.88)	0.94 (0.80 – 0.98)	0.78 (0.54 – 0.92)	1.31 (0.92 – 2.22)	1.68 (1.19 – 2.85)	0.57 (0.41 – 0.98)	1.02 (0.81 – 1.42)
	3	1.9 (0.3) _a	1.8 (0.4)	1.9 (0.4)	0.82 (0.48 – 0.94)	0.79 (0.42 – 0.93)	0.98 (0.94 – 0.99)	0.87 (0.71 – 0.96)	1.05 (0.75 – 1.79)	1.14 (0.81 – 1.94)	0.31 (0.22 – 0.53)	0.79 (0.63 – 1.11)
	4	2.0 (0.3) ^a	1.9 (0.5) _a	2.0 (0.3) _a	0.64 (0.13 – 0.88)	0.81 (0.46 – 0.94)	0.88 (0.62 – 0.96)	0.77 (0.53 – 0.92)	1.65 (1.17 – 2.80)	1.09 (0.77 – 1.85)	0.84 (0.60 – 1.43)	1.03 (0.82 – 1.45)
	5	2.0 (0.3) _{ab}	2.0 (0.4) _a	2.0 (0.4) _{ab}	0.65 (0.15 – 0.89)	0.56 (0.02 – 0.85)	0.96 (0.86 – 0.99)	0.75 (0.50 – 0.91)	1.60 (1.13 – 2.72)	1.92 (1.36 – 3.25)	0.47 (0.33 – 0.79)	1.07 (0.85 – 1.50)

ACC = acceleration Tx = thorax longitudinal direction, Ty = thorax medio-lateral, Tz = thorax anterior-posterior, Sn = session; SD = standard deviation; ICC= intraclass correlation

coefficient; CI = confidence interval; TE (stdz) = standardized typical error; LL = lower limit; UL = upper limit.

† < 0.05 vs. Sn. 1; ‡ < 0.05 vs. Sn. 2. a < 0.05 vs interval 1; b < 0.05 vs. interval 2; c < 0.05 vs. interval 3

Table S12. Reliability of the LyE for pelvis acceleration

ACC	Interval	Mean (SD)			ICC _(3,1) (95%CI)			ICC _(3,1) mean (95%CI)			TE (stzd) (LL/UL)		TE (stzd) mean (LL/UL)	
		Sn. 1	Sn. 2	Sn. 3	2-1	3-1	3-2	2-1	3-1	3-2				
Px	1	1.4 (0.3)	1.3 (0.2)	1.2 (0.2) _†	0.01 (-0.55-0.56)	0.07 (-0.50 -0.60)	0.50 (-0.07-0.83)	0.13 (-0.14-0.53)	21.79 (15.44-37.00)	7.77 (5.51-13.20)	2.16 (1.53 – 3.67)	1.87 (1.49 – 2.63)		
	2	1.3 (0.2)	1.2 (0.2)	1.2 (0.1) _†	0.15 (-0.44-0.65)	0.22 (-0.38-0.69)	0.64 (0.13-0.88)	0.27 (-0.04-0.64)	5.07 (3.59 – 8.60)	4.05 (2.87 – 6.88)	1.64 (1.17 – 2.79)	1.74 (1.39 – 2.44)		
	3	1.3 (0.3)	1.2 (0.2)	1.2 (0.2)	0.02 (-0.54-0.57)	0.40 (-0.20-0.78)	0.68 (0.20 – 0.90)	0.32 (0.00 – 0.68)	13.34 (9.45-22.66)	2.64 (1.87 – 4.47)	1.51 (1.87 – 4.47)	1.69 (1.34 – 2.36)		
	4	1.3 (0.2)	1.2 (0.2)	1.2 (0.2)	0.05 (-0.52-0.59)	0.50 (-0.07-0.82)	0.73 (0.29 – 0.91)	0.39 (0.06 – 0.73)	8.96 (6.35-15.22)	2.17 (1.54 – 3.68)	1.35 (0.96 – 2.30)	1.61 (1.28 – 2.25)		
	5	1.3 (0.2)	1.2 (0.2)	1.2 (0.2)	0.12 (-0.46-0.63)	0.59 (0.05 – 0.86)	0.62 (0.10 – 0.87)	0.46 (0.13 – 0.77)	5.74 (4.07 – 9.75)	1.82 (1.29 – 3.10)	1.72 (1.22 – 2.92)	1.52 (1.21 – 2.13)		
Py	1	1.4 (0.2)	1.4 (0.2)	1.4 (0.2)	0.00 (-0.55-0.55)	0.06 (-0.51-0.59)	0.63 (0.12 – 0.88)	0.16 (-0.12-0.56)	43.14 (30.56-73.66)	8.63 (6.11-14.65)	1.68 (1.19 – 2.85)	1.85 (1.47 – 2.59)		
	2	1.4 (0.2)	1.3 (0.2) _a	1.3 (0.1)	0.13 (-0.45 – 0.64)	0.18 (-0.41-0.67)	0.79 (0.41 – 0.93)	0.31 (-0.01-0.67)	5.45 (3.86 – 9.26)	4.52 (3.20 – 7.67)	1.16 (0.82 – 1.97)	1.70 (1.35 – 2.38)		
	3	1.4 (0.2)	1.4 (0.2)	1.3 (0.1)	0.37 (-0.23-0.77)	0.35 (-0.25-0.76)	0.78 (0.41-0.93)	0.46 (0.13-0.77)	2.82 (2.00-4.78)	2.91 (2.06-4.93)	1.16 (0.82-1.97)	1.52 (1.21 – 2.12)		
	4	1.4 (0.2)	1.4 (0.2)	1.4 (0.1)	0.44 (-0.15-0.80)	0.44 (-0.15-0.80)	0.72 (0.28 – 0.91)	0.52 (0.19 – 0.80)	2.44 (1.73 – 4.14)	2.44 (1.73 – 4.14)	1.36 (0.97 – 2.32)	1.45 (1.15 – 2.03)		
	5	1.4 (0.2)	1.4 (0.2)	1.4 (0.2)	0.61 (0.09 – 0.87)	0.57 (0.03 – 0.86)	0.71 (0.26 – 0.91)	0.63 (0.33 – 0.86)	1.73 (1.23 – 2.94)	1.88 (1.33 – 3.19)	1.40 (0.99 – 2.38)	1.28 (1.02 – 1.79)		
Pz	1	1.9 (0.3)	1.8 (0.5)	1.7 (0.3) _†	0.53 (-0.04-0.84)	0.49 (-0.08-0.82)	0.69 (0.21 – 0.90)	0.58 (0.26 – 0.83)	2.06 (1.46 – 3.50)	2.20 (1.56 – 3.74)	1.49 (1.06 – 2.53)	1.36 (1.08 – 1.90)		
	2	1.8 (0.3)	1.7 (0.4)	1.7 (0.3)	0.77 (0.37 – 0.93)	0.71 (0.26 – 0.91)	0.65 (0.16 – 0.89)	0.71 (0.44 – 0.89)	1.22 (0.87 – 2.08)	1.41 (1.00 – 2.39)	1.60 (1.13 – 2.71)	1.15 (0.91 – 1.61)		
	3	1.8 (0.3)	1.7 (0.4)	1.7 (0.3)	0.82 (0.49 – 0.95)	0.79 (0.42 – 0.93)	0.62 (0.10 – 0.87)	0.74 (0.49 – 0.91)	1.04 (0.73 – 1.76)	1.14 (0.81 – 1.94)	1.72 (1.22 – 2.93)	1.09 (0.86 – 1.52)		
	4	1.8 (0.3)	1.7 (0.4)	1.7 (0.3)	0.78 (0.39 – 0.93)	0.83 (0.51 – 0.95)	0.60 (0.08 – 0.87)	0.73 (0.47 – 0.90)	1.19 (0.84 – 2.01)	1.00 (0.71 – 1.71)	1.77 (1.25 – 3.00)	1.11 (0.88 – 1.55)		
	5	1.8 (0.3)	1.8 (0.3)	1.7 (0.3)	0.81 (0.47 – 0.94)	0.89 (0.67 – 0.97)	0.84 (0.53 – 0.95)	0.84 (0.66 – 0.95)	1.07 (0.76 – 1.82)	0.77 (0.55 – 1.31)	0.98 (0.70 – 1.67)	0.86 (0.69 – 1.21)		

ACC = acceleration Px = pelvis longitudinal direction, Py = pelvis medio-lateral, Pz = pelvis anterior-posterior, Sn = session; SD = standard deviation; ICC= intraclass correlation coefficient; CI = confidence interval; TE (stzd) = standardized typical error; LL = lower limit; UL = upper limit. † < 0.05 vs. Sn. 1; ‡ < 0.05 vs. Sn. 2. a < 0.05 vs interval 2

Table S13. Reliability of the LyE for the left shank acceleration

ACC	Interval	Mean (SD)			ICC _(3,1) (95%CI)			ICC _(3,1) mean (95%CI)			TE (stdz) (LL/UL)			TE (stdz) mean (LL/UL)		
		Sn. 1	Sn. 2	Sn. 3	2-1	3-1	3-2	2-1	3-1	3-2	2-1	3-1	3-2	2-1	3-1	3-2
LSx	1	2.7	2.8	2.8	0.58	0.70	0.82	0.70	1.84	1.45	1.03	1.17				
		(0.2)	(0.3)	(0.2)	(0.05-0.86)	(0.24-0.90)	(0.50 - 0.95)	(0.42 - 0.89)	(1.30 - 3.13)	(1.03 - 2.46)	(0.73 – 1.74)	(0.93 – 1.64)				
	2	2.7	2.7	2.7	0.61	0.73	0.83	0.72	1.75	1.33	1.02	1.13				
		(0.3)	(0.3)	(0.3)	(0.09-0.87)	(0.30-0.92)	(0.51-0.95)	(0.45 – 0.90)	(1.24 – 2.97)	(0.94 – 2.25)	(0.73 – 1.73)	(0.90 – 1.58)				
	3	2.7	2.8	2.7	0.69	0.72	0.92	0.78	1.46	1.36	0.68	1.02				
		(0.3)	(0.3) _†	(0.3)	(0.23-0.90)	(0.29-0.91)	(0.74-0.98)	(0.54-0.92)	(1.03-2.48)	(0.96-2.31)	(0.48-1.16)	(0.81-1.43)				
	4	2.7	2.8	2.8	0.59	0.76	0.89	0.74	1.81	1.24	0.79	1.09				
		(0.3)	(0.3) _†	(0.3) _†	(0.06-0.86)	(0.36-0.92)	(0.66-0.97)	(0.49 – 0.91)	(1.28 – 3.08)	(0.88 – 2.11)	(0.56 – 1.33)	(0.87 – 1.52)				
	5	2.7	2.7	2.8	0.50	0.74	0.88	0.72	2.18	1.31	0.84	1.14				
		(0.2)	(0.3)	(0.3)	(-0.08-0.82)	(0.32-0.92)	(0.63-0.96)	(0.45 – 0.90)	(1.54 – 3.70)	(0.93 – 2.22)	(0.60 – 1.43)	(0.90 – 1.59)				
LSy	1	3.1	3.2	3.1	0.35	0.39	0.91	0.55	2.91	2.70	0.71	1.40				
		(0.2)	(0.2)	(0.2)	(-0.25-0.76)	(-0.21-0.78)	(0.72-0.97)	(0.23 – 0.82)	(2.06 – 4.94)	(1.91 – 4.58)	(0.50 – 1.20)	(1.12 – 1.96)				
	2	3.0	3.1	3.1	0.50	0.48	0.88	0.63	2.19	2.25	0.82	1.29				
		(0.2)	(0.3)	(0.2)	(-0.08-0.82)	(-0.10-0.82)	(0.64-0.96)	(0.32 – 0.86)	(1.55 – 3.71)	(1.59 – 3.81)	(0.58 – 1.39)	(1.02 – 1.80)				
	3	3.0	3.1	3.1	0.68	0.55	0.89	0.70	1.52	1.98	0.78	1.17				
		(0.3)	(0.2) _†	(0.2)	(0.20-0.89)	(-0.01-0.84)	(0.67-0.97)	(0.42-0.89)	(1.08-2.58)	(1.40-3.36)	(0.55-1.32)	(0.93-1.64)				
	4	3.0	3.1	3.1	0.73	0.59	0.85	0.71	1.34	1.81	0.92	1.15				
		(0.3)	(0.2) _†	(0.2) _†	(0.30-0.91)	(0.06-0.86)	(0.57-0.96)	(0.44 – 0.89)	(0.95-2.28)	(1.28 – 3.07)	(0.65 – 1.57)	(0.91-1.60)				
	5	3.0	3.1	3.1	0.70	0.64	0.86	0.72	1.43	1.63	0.91	1.13				
		(0.3)	(0.2) _†	(0.2) _†	(0.24-0.90)	(0.14-0.88)	(0.58-0.96)	(0.45 – 0.90)	(1.01 – 2.43)	(1.15 – 2.76)	(0.64 – 1.55)	(0.90 – 1.58)				
LSz	1	3.1	3.3	3.1	0.24	0.53	0.78	0.60	2.05	1.98	1.10	1.28				
		(0.3)	(0.2)	(0.3)	(-0.36-0.70)	(-0.03-0.84)	(0.61-0.88)	(0.44-0.75)	(1.67-2.66)	(1.61-2.56)	(0.90-1.42)	(1.12-1.51)				
	2	3.1	3.2	3.1	0.11	0.49	0.52	0.39	6.01	2.20	2.08	1.60				
		(0.3)	(0.2) _†	(0.3) [‡]	(-0.47-0.63)	(-0.08-0.82)	(-0.04-0.83)	(0.06 – 0.73)	(4.25-10.20)	(1.56 – 3.74)	(1.47 – 3.53)	(1.28 – 2.25)				
	3	3.1	3.2	3.1	0.22	0.57	0.27	0.38	4.05	1.88	3.49	1.61				
		(0.3)	(0.2) _†	(0.3)	(-0.38-0.69)	(0.03-0.85)	(-0.33-0.72)	(0.06 – 0.72)	(2.87 - 6.88)	(1.33 – 3.19)	(2.47 – 5.93)	(1.28 – 2.26)				
	4	3.1	3.3	3.1	0.36	0.55	0.24	0.40	2.86	1.97	3.83	1.60				
		(0.3)	(0.2) _†	(0.3) [‡]	(-0.24-0.76)	(0.00-0.85)	(-0.36-0.70)	(0.07 – 0.73)	(2.03 – 4.86)	(1.39 – 3.34)	(2.72 – 6.51)	(1.27 – 2.23)				
	5	3.1	3.3	3.2	0.26	0.35	0.62	0.44	3.61	1.72	2.91	1.54				
		(0.2)	(0.2) _†	(0.3) [‡]	(-0.34-0.71)	(-0.25-0.76)	(0.10-0.87)	(0.11 – 0.76)	(2.56 – 6.13)	(1.22 – 2.92)	(2.06 – 4.95)	(1.23 – 2.16)				
RSx	1	2.7	2.8	2.7	0.61	0.76	0.68	0.67	1.75	1.24	1.52	1.21				
		(0.3)	(0.3)	(0.3)	(0.08-0.87)	(0.36-0.92)	(0.20-0.89)	(0.38 – 0.88)	(1.24 – 2.98)	(0.88-2.10)	(1.08 – 2.58)	(0.97 – 1.70)				
	2	2.6	2.8	2.7	0.82	0.86	0.77	0.81	1.04	0.89	1.22	0.94				
		(0.3)	(0.3) _†	(0.3)	(0.49-0.94)	(0.59-0.96)	(0.37-0.93)	(0.61-0.94)	(0.74 – 1.77)	(0.63-1.51)	(0.87 – 2.08)	(0.74 – 1.31)				
	3	2.6	2.8	2.7	0.82	0.63	0.72	0.79	1.06	1.18	1.37	0.99				
		(0.3)	(0.4) _†	(0.3)	(0.48-0.94)	(0.12-0.88)	(0.28-0.91)	(0.56-0.93)	(0.75-1.80)	(0.83-2.00)	(0.97 – 2.33)	(0.79 – 1.39)				

ACC	Interval	Mean (SD)			ICC _(3,1) (95%CI)			ICC _(3,1) mean (95%CI)			TE (stzd) (LL/UL)			TE (stzd) mean (LL/UL)		
		Sn. 1	Sn. 2	Sn. 3	2-1	3-1	3-2	2-1	3-1	3-2	2-1	3-1	3-2	2-1	3-1	3-2
RSy	4	2.6 (0.3)	2.8 (0.4) _†	2.7 (0.2)	0.74 (0.32-0.92)	0.81 (0.46-0.94)	0.64 (0.13-0.88)	0.73 (0.46 – 0.90)	1.30 (0.92 – 2.21)	1.08 (0.77 – 1.84)	1.65 (1.17 – 2.81)	1.12 (0.89 – 1.57)				
		2.7 (0.3)	2.8 (0.4)	2.8 (0.3)	0.75 (0.35-0.92)	0.80 (0.45-0.94)	0.68 (0.20-0.90)	0.74 (0.49 – 0.91)	1.26 (0.89 – 2.14)	1.10 (0.78 – 1.86)	1.51 (1.07 – 2.56)	1.09 (0.86 – 1.52)				
	1	3.1 (0.2)	3.1 (0.4)	3.1 (0.1)	0.28 (-0.32-0.72)	0.54 (-0.02-0.84)	0.41 (-0.18-0.79)	0.38 (0.05-0.72)	3.43 (2.43-5.83)	2.01 (1.42 – 3.41)	2.57 (1.82-4.37)	1.62 (1.29-2.27)				
		3.0 (0.2)	3.1 (0.3)	3.2 (0.2)	0.54 (-0.01-0.84)	0.58 (0.05-0.60)	0.60 (0.07-0.86)	0.57 (0.25-0.83)	1.99 (1.41 – 3.38)	1.84 (1.30-3.12)	1.79 (1.27 – 3.05)	1.37 (1.09 – 1.92)				
	3	3.0 (0.3)	3.0 (0.4)	3.2 (0.2)	0.63 (0.12-0.88)	0.56 (0.01-0.85)	0.60 (0.07-0.86)	0.60 (0.29 – 0.84)	1.68 (1.19 – 2.85)	1.94 (1.37 - 3.29)	1.79 (1.27 - 3.04)	1.33 (1.06 – 1.86)				
		3.0 (0.3)	3.0 (0.4)	3.2 (0.2) _†	0.68 (0.20-0.90)	0.63 (0.11-0.88)	0.52 (-0.05-0.83)	0.61 (0.30-0.85)	1.51 (1.07 – 2.56)	1.69 (1.20 – 2.87)	2.10 (1.48-3.56)	1.31 (1.04 – 1.84)				
RSz	5	3.0 (0.3)	3.1 (0.4)	3.2 (0.2) _†	0.67 (0.19-0.89)	0.71 (0.26-0.91)	0.66 (0.16-0.89)	0.67 (0.39-0.88)	1.54 (1.09-2.61)	1.41 (1.00-2.40)	1.59 (1.12-2.70)	1.21 (0.96 – 1.70)				
		3.0 (0.3)	3.1 (0.3)	3.0 (0.3)	0.01 (-0.55-0.56)	-0.06 (-0.60-0.51)	0.82 (0.49-0.94)	0.27 (-0.04-0.64)	29.35 (20.79-49.83)	0.59 (0.42-1.00)	0.66 (0.54-0.86)	1.74 (1.39 - 2.44)				
	2	3.0 (0.3)	3.1 (0.3)	3.0 (0.3)	0.05 (-0.51-0.59)	0.03 (-0.53-0.57)	0.78 (0.39-0.93)	0.30 (-0.01-0.67)	8.89 (6.30-15.09)	11.74 (8.32-19.93)	1.19 (0.84-2.01)	1.70 (1.36-2.39)				
		3.0 (0.3)	3.1 (0.3)	3.1 (0.2)	0.03 (-0.53-0.57)	0.04 (-0.52-0.58)	0.76 (-0.52-0.58)	0.28 (-0.04-0.65)	12.92 (9.15-21.93)	9.95 (7.05-16.90)	1.25 (0.89-2.13)	1.73 (1.38-2.43)				
	4	3.1 (0.3)	3.1 (0.3)	3.1 (0.2)	-0.03 (-0.58-0.53)	0.01 (-0.54-0.56)	0.57 (0.02-0.85)	0.15 (-0.13-0.55)	0.58 (0.41-0.98)	19.49 (13.81-33.09)	1.91 (1.35-3.24)	1.86 (1.48-2.60)				
		3.1 (0.3)	3.1 (0.3)	3.1 (0.2)	0.07 (-0.50-0.60)	0.07 (-0.50-0.60)	0.52 (-0.04-0.84)	0.20 (-0.10-0.59)	7.77 (5.51-13.20)	7.67 (5.43-13.01)	2.07 (1.46-3.51)	1.81 (1.44-2.54)				

ACC = acceleration, LSx = left shank longitudinal direction, LSy = left shank medio-lateral, LSz = left shank anterior-posterior, RSx = right shank longitudinal, RSy = right shank acceleration direction, RSz = right shank anterior-posterior, Sn = session; SD = standard deviation; ICC = intraclass correlation coefficient; CI = confidence interval; TE (stzd) = standardized typical error; LL = lower limit; UL = upper limit.

† < 0.05 vs. Sn. 1; ‡ < 0.05 vs. Sn. 2.

Note: Bolded is when raw data was used

Table S14. Reliability of the LyE for neck angular kinematics

Kin	Interval	Mean (SD)			ICC _(3,1) (95%CI)			ICC _(3,1) mean (95%CI)		TE (stzd) (LL/UL)			TE (stzd) mean (LL/UL)
		Sn. 1	Sn. 2	Sn. 3	2-1	3-1	3-2		2-1	3-1	3-2		
Nx	1	2.5 (0.4)	2.5 (0.4)	2.5 (0.5)	0.19 (-0.40-0.67)	0.37 (-0.23-0.77)	0.64 (-0.23-0.77)	0.41 (0.09 – 0.74)	4.34 (3.07 – 7.37)	2.81 (1.99 – 4.78)	1.64 (1.16 – 2.79)	1.58 (1.26 – 2.21)	
	2	2.5 (0.5)	2.5 (0.5)	2.4 (0.4)	0.31 (-0.29-0.74)	0.22 (-0.38-0.69)	0.84 (0.53 – 0.95)	0.46 (0.13 – 0.77)	3.18 (2.25 – 5.40)	4.00 (2.83 – 6.79)	0.98 (0.70 – 1.67)	1.52 (1.21 – 2.13)	
	3	2.4 (0.5)	2.6 (0.4)	2.4 (0.7)	0.39 (-0.21-0.78)	-0.09 (-0.61-0.49)*	0.53 (-0.03-0.84)	0.25 (-0.05-0.63)	2.69 (1.91 – 4.57)	1.19 (0.84-2.02)*	2.05 (1.45 – 3.47)	1.76 (1.40 – 2.46)	
	4	2.6 (0.3)	2.5 (0.4)	2.6 (0.4)	0.99 (0.98 – 1.00)	0.44 (-0.22-0.80)	1.00 (0.99 – 1.00)	0.99 (0.98 – 1.00)	0.18 (0.12 – 0.31)	0.14 (0.10 – 0.24)	2.44 (1.70 – 4.28)	0.18 (0.15 – 0.25)	
	5	2.7 (0.4) _c	2.7 (0.4)	2.6 (0.5) _c	0.57 (0.02 – 0.85)	0.51 (-0.06-0.83)	0.92 (0.75 – 0.98)	0.68 (0.40 – 0.88)	1.90 (1.35 – 3.23)	2.12 (1.50 – 3.59)	0.66 (0.47 – 1.13)	1.20 (0.95 – 1.68)	
Ny	1	1.8 (0.9)	2.0 (0.8)	2.1 (0.9)	-0.08 (-0.60-0.50)*	0.54 (-0.01-0.84)	0.01 (-0.54-0.56)	0.18 (-0.11-0.57)	1.79 (1.27-3.04)*	1.99 (1.41 – 3.39)	18.99 (13.38-32.07)	0.87 (0.76-1.03)	
	2	2.0 (0.8)	1.8 (0.9)	1.9 (0.8)	0.65 (0.16 – 0.89)	0.87 (0.61 – 0.96)	0.79 (0.42 – 0.93)	0.77 (0.53 – 0.92)	1.60 (1.13 – 2.71)	0.87 (0.61 – 1.47)	1.14 (0.81 – 1.94)	1.04 (0.83 – 1.46)	
	3	2.1 (0.8)	1.9 (0.9)	2.1 (0.7)	0.76 (0.35 – 0.92)	0.90 (0.68 – 0.97)	0.87 (0.60 – 0.96)	0.84 (0.65 – 0.94)	1.25 (0.89 – 2.12)	0.76 (0.54 – 1.30)	0.88 (0.62 – 1.49)	0.88 (0.70 – 1.23)	
	4	2.2 (0.8)	2.0 (0.8)	2.1 (0.8)	0.78 (0.41 – 0.93)	0.95 (0.83 – 0.99)	0.87 (0.61 – 0.96)	0.87 (0.71 – 0.96)	1.17 (0.83 – 1.98)	0.52 (0.37 – 0.88)	0.86 (0.61 – 1.46)	0.79 (0.63 – 1.11)	
	5	2.3 (0.9) _a	2.2 (0.6) _b	2.2 (0.8)	0.30 (-0.30-0.73)	0.95 (0.83 – 0.98)	0.49 (-0.08-0.82)	0.64 (0.34 – 0.86)	3.27 (2.31 – 5.55)	0.53 (0.38 – 0.90)	2.21 (1.56 – 3.74)	1.27 (1.01 – 1.78)	
Nz	1	0.3 (0.6)	0.1 (1.5)	0.2 (0.6)	0.51 (-0.06-0.83)	0.34 (-0.26-0.75)	0.49 (-0.09-0.82)	0.43 (0.10 – 0.75)	2.14 (1.52 – 3.64)	2.22 (1.57 – 3.76)	2.96 (2.10 – 5.03)	1.55 (1.24 – 2.18)	
	2	0.6 (1.0)	0.8 (1.2) _a	0.2 (0.6) _‡	0.85 (0.57 – 0.96)	0.65 (0.15 – 0.88)	0.46 (-0.13 – 0.81)	0.68 (0.39 – 0.88)	0.92 (0.65 – 1.57)	1.62 (1.15 – 2.75)	2.36 (1.67 – 4.00)	1.20 (0.96 – 1.68)	
	3	0.9 (1.2) _a	0.6 (1.2) _a	0.4 (0.9)	0.83 (0.51 – 0.95)	0.55 (-0.01-0.84)	0.73 (0.30 – 0.91)	0.72 (0.44 – 0.90)	1.01 (0.72 – 1.72)	1.98 (1.40 – 3.37)	1.34 (0.95 – 2.28)	1.14 (0.91 – 1.60)	
	4	0.9 (1.2) _a	0.8 (1.2) _a	0.5 (0.9)	0.69 (0.22 – 0.90)	0.79 (0.41 – 0.93)	0.58 (0.05 – 0.86)	0.69 (0.41 – 0.88)	1.47 (1.04 – 2.50)	1.15 (0.82 – 1.96)	1.84 (1.30 – 3.12)	1.19 (0.95 – 1.66)	
	5	0.5 (1.1)	0.9 (1.2) _a	0.5 (0.9)	0.87 (0.61 – 0.96)	0.91 (0.72 – 0.97)	0.84 (0.54 – 0.95)	0.87 (0.71 – 0.96)	0.86 (0.61 – 1.46)	0.71 (0.50 – 1.20)	0.97 (0.68 – 1.64)	0.79 (0.63 – 1.10)	

Kin = Kinematics, Nx = neck flexion, Ny = neck lateral flexion, Nz = neck rotation, Sn = session; SD = standard deviation; ICC = intraclass correlation coefficient; CI = confidence interval; TE (stzd) = standardized typical error; LL = lower limit; UL = upper limit.

† < 0.05 vs. Sn. 1; ‡ < 0.05 vs. Sn. 2. a < 0.05 vs interval 1; b < 0.05 vs. interval 2; c < 0.05 vs. interval 3

Note: bolded* = raw data used to calculate typical error

Table S15. Reliability of the LyE for thorax angular kinematics

Kin	Interval	Mean (SD)			ICC _(3,1) (95%CI)		ICC _(3,1) mean (95%CI)		TE (stzd) (LL/UL)			TE (stzd) mean (LL/UL)	
		Sn. 1	Sn. 2	Sn. 3	2-1	3-1	3-2		2-1	3-1	3-2		
Tx	1	2.6 (0.5)	2.5 (0.9)	2.8 (0.2)	0.33 (-0.27-0.75)	0.07 (-0.50-0.60)	0.19 (-0.40-0.67)	0.24 (-0.06-0.62)	1.40 (1.14-1.81)	1.40 (1.14-1.81)	0.97 (0.79-1.25)	1.05 (0.92-1.25)	
	2	2.7 (0.6)	2.3 (0.8)	2.4 (0.8)	0.53 (-0.03-0.84)	0.12 (-0.47-0.63)	0.32 (-0.28-0.74)	0.33 (0.01 – 0.69)	2.05 (1.45 – 3.48)	5.84 (4.14 – 9.92)	3.10 (2.19 – 5.26)	1.67 (1.33 – 2.34)	
	3	2.7 (0.6)	2.4 (0.8)	2.5 (0.9)	0.42 (-0.17-0.79)	0.16 (-0.43-0.66)	0.10 (-0.48-0.62)	0.21 (-0.08-0.60)	2.54 (1.80 – 4.31)	4.85 (3.43 – 8.23)	6.37 (4.51-10.81)	1.80 (1.43 – 2.52)	
	4	2.7 (0.5)	2.5 (0.8)	2.6 (0.6)	0.31 (-0.29-0.74)	0.09 (-0.48- 0.61)	0.27 (-0.34-0.71)	0.25 (-0.06-0.63)	3.19 (2.26 – 5.42)	6.59 (4.67 – 11.20)	3.55 (2.51 – 6.03)	1.76 (1.40 – 2.47)	
	5	2.9 (0.5)	2.6 (0.7)	2.7 (0.4)	0.10 (-0.48-0.62)	-0.22 (-0.69-0.38)*	0.11 (-0.47-0.62)	0.03 (-0.21-0.43)	6.31 (4.47 – 10.72)	1.02 (0.72-1.74)*	6.12 (4.33-10.39)	1.97 (1.57 – 2.77)	
Ty	1	2.5 (0.4)	2.9 (0.3) _†	2.9 (0.3)	-0.08 (-0.61-0.49)*	0.52 (-0.05-0.83)	-0.26 (-0.71-0.34)*	0.11 (-0.16-0.51)	0.68 (0.48-1.16)*	2.10 (1.49 – 3.57)	0.65 (0.46-1.10)*	1.90 (1.51 – 2.66)	
	2	2.6 (0.5)	2.8 (0.3)	2.8 (0.4)	0.31 (-0.30-0.74)	0.30 (-0.30-0.73)	0.39 (-0.20-0.78)	0.33 (0.01 – 0.69)	3.22 (2.28 – 5.47)	3.26 (2.31 – 5.53)	2.68 (1.90 – 4.55)	1.68 (1.34 – 2.35)	
	3	2.7 (0.4)	2.9 (0.3)	2.9 (0.4)	0.37 (-0.23-0.76)	0.60 (0.08 – 0.87)	0.51 (-0.06-0.83)	0.50 (0.17 – 0.79)	2.83 (2.01 – 4.81)	1.77 (1.25 – 3.01)	2.14 (1.51 – 3.63)	1.47 (1.17 – 2.06)	
	4	2.7 (0.4)	2.9 (0.3) _†	2.9 (0.3) _†	0.25 (-0.35-0.70)	0.49 (-0.08-0.82)	0.74 (0.32 – 0.92)	0.49 (0.17 – 0.79)	3.73 (2.64 – 6.33)	2.19 (1.55 – 3.72)	1.30 (0.92 – 2.20)	1.48 (1.18 – 2.07)	
	5	2.8 (0.4) _a	3.0 (0.3) _b	2.9 (0.4)	0.57 (0.03 – 0.85)	0.45 (-0.14-0.80)	0.61 (0.08 – 0.87)	0.54 (0.21 – 0.81)	1.89 (1.34 – 3.21)	2.39 (1.69 – 4.06)	1.75 (1.24 – 2.97)	1.42 (1.13 – 1.99)	
Tz	1	-0.1 (0.0)	-0.1 (0.0)	-0.1 (0.0)	0.62 (0.11 – 0.87)	0.12 (-0.46-0.63)	0.17 (-0.43-0.66)	0.32 (0.00 – 0.68)	1.70 (1.21 – 2.89)	5.71 (4.04 – 9.69)	4.77 (3.38 – 8.10)	1.68 (1.34 – 2.36)	
	2	-0.1 (0.1)	0.2 (0.8)	-0.1 (0.0)	-0.06 (-0.60-0.51)*	0.58 (0.04 – 0.86)	0.00 (-0.55-0.55)*	-0.03 (-0.24-0.36)	1.15 (0.81-1.95)*	1.85 (1.31 – 3.15)	1.85 (1.31-3.15)*	2.03 (1.61 – 2.84)	
	3	-0.1 (0.0)	0.2 (0.8)	-0.1 (0.0)	-0.01 (-0.56-0.55)*	0.26 (-0.35-0.71)	-0.03 (0.58-0.53)*	-0.02 (-0.24-0.37)	1.16 (0.82-1.97)*	3.63 (2.57 – 6.17)	1.17 (0.83-1.99)*	2.02 (1.61 – 2.83)	
	4	-0.1 (0.1)	0.2 (0.8)	-0.1 (0.0)	-0.08 (-0.60-0.50)*	-0.05 (-0.59-0.52)*	0.02 (-0.54-0.57)	-0.03 (-0.24 – 0.36)	1.24 (0.88-2.11)*	0.09 (0.07-0.16)*	13.66 (9.68 – 23.19)	2.02 (1.61 – 2.83)	
	5	-0.1 (0.0)	0.2 (0.9)	-0.1 (0.0)	0.01 (-0.55-0.56)	-0.03 (-0.57-0.53)*	-0.04 (-0.58-0.53)*	-0.01 (-0.23-0.38)	20.94 (14.84-35.56)	0.08 (0.05-0.13)*	1.29 (0.91-2.19)*	2.01 (1.60 – 2.82)	

Kin = Kinematics, Tx = spinal flexion, Ty = spinal lateral flexion, Tz = thorax rotation, Sn = session; SD = standard deviation; ICC = intraclass correlation coefficient; CI = confidence

interval; TE (stzd) = standardized typical error; LL = lower limit; UL = upper limit.

† < 0.05 vs. Sn. 1; ‡ < 0.05 vs. Sn. 2. a < 0.05 vs interval 1; b < 0.05 vs. interval 2

Note: bolded* = raw data used to calculate typical error

Table S16. Reliability of the LyE for pelvis angular kinematics

Kin	Interval	Mean (SD)			ICC _(3,1) (95%CI)		ICC _(3,1) mean (95%CI)		TE (stdz) (LL/UL)			TE (stdz) mean (LL/UL)	
		Sn. 1	Sn. 2	Sn. 3	2-1	3-1	3-2		2-1	3-1	3-2		
Px	1	-0.1 (0.0)	-0.1 (0.0)	-0.1 (0.0)	0.06 (-0.51-0.59)	0.39 (-0.21-0.77)	0.63 (0.12 – 0.88)	0.34 (0.02 – 0.70)	8.25 (5.85-14.01)	2.71 (1.92 – 4.60)	1.67 (1.18 – 2.83)	1.66 (1.32 – 2.32)	
	2	-0.1 (0.0)	-0.1 (0.0)	-0.1 (0.0)	0.72 (0.27 – 0.91)	0.64 (0.14 – 0.88)	0.44 (-0.15–0.80)	0.61 (0.30 – 0.85)	1.39 (0.98 – 2.36)	1.64 (1.16 – 2.78)	2.46 (1.74 – 4.17)	1.32 (1.05 – 1.85)	
	3	-0.1 (0.0) _a	-0.1 (0.0)	-0.1 (0.0) _†	0.34 (-0.26-0.75)	0.56 (0.01 – 0.85)	0.26 (-0.35-0.71)	0.41 (0.08 – 0.74)	2.96 (2.10 – 5.03)	1.93 (1.36 – 3.27)	3.65 (2.59 – 6.20)	1.59 (1.26 – 2.22)	
	4	-0.1 (0.0)	-0.1 (0.0)	-0.1 (0.0) _b	0.42 (-0.17-0.79)	0.43 (-0.16-0.79)	0.53 (-0.03-0.84)	0.47 (0.14 – 0.77)	2.53 (1.79 – 4.29)	2.49 (1.77 – 4.23)	2.05 (1.45 – 3.48)	1.51 (1.20 – 2.12)	
	5	-0.1 (0.0)	-0.1 (0.0)	-0.1 (0.0)	0.51 (-0.05-0.83)	0.18 (-0.42-0.66)	0.60 (0.07 – 0.86)	0.44 (0.11 – 0.76)	2.11 (1.49 – 3.58)	4.61 (3.26 – 7.82)	1.80 (1.27 – 3.05)	1.54 (1.23 – 2.16)	
Py	1	-0.1 (0.1)	-0.1 (0.1) _†	-0.1 (0.1) _†	0.31 (-0.29-0.74)	0.24 (-0.36-0.70)	0.19 (-0.41-0.67)	0.25 (-0.06-0.63)	3.17 (2.25 – 5.38)	3.75 (2.66 – 6.37)	4.43 (3.14 – 7.53)	1.76 (1.40 – 2.47)	
	2	-0.1 (0.0)	-0.1 (0.0)	-0.1 (0.1)	0.55 (-0.01-0.84)	0.58 (0.05 – 0.86)	0.92 (0.75 – 0.98)	0.70 (0.43 – 0.89)	1.98 (1.40 – 3.37)	1.84 (1.30 – 3.13)	0.66 (0.46 – 1.11)	1.16 (0.92 – 1.63)	
	3	-0.1 (0.0)	-0.1 (0.1)	-0.1 (0.1)	0.34 (-0.26-0.75)	0.31 (-0.29-0.74)	0.68 (0.20 – 0.90)	0.46 (0.13 – 0.77)	2.98 (2.11 – 5.05)	3.18 (2.25 – 5.40)	1.51 (1.07 – 2.56)	1.52 (1.21 – 2.13)	
	4	-0.1 (0.0)	-0.1 (0.1)	-0.1 (0.0)	0.69 (0.22 – 0.90)	0.24 (-0.35-0.70)	0.24 (-0.36-0.70)	0.41 (0.08 – 0.74)	1.47 (1.04 – 2.50)	3.79 (2.69 – 6.44)	3.77 (2.67 – 6.41)	1.59 (1.26 – 2.22)	
	5	-0.1 (0.1) _a	-0.1 (0.0)	-0.1 (0.0)	0.47 (-0.11-0.81)	0.57 (0.03 – 0.85)	0.46 (-0.12-0.81)	0.51 (0.18 – 0.80)	2.29 (1.63 – 3.90)	1.89 (1.34 – 3.20)	2.32 (1.64 – 3.94)	1.46 (1.16 – 2.05)	
Pz	1	-0.1 (0.0)	0.3 (1.0)	-0.1 (0.0)	0.00 (-0.56-0.55)*	0.02 (-0.54-0.56)	0.21 (-0.39-0.68)	0.10 (-0.16-0.50)	1.42 (1.00-2.41)*	17.01 (12.05-28.87)	4.13 (2.92 – 7.01)	1.90 (1.52 – 2.67)	
	2	-0.1 (0.0)	0.2 (1.0)	-0.1 (0.1)	-0.01 (-0.56-0.55)*	-0.05 (-0.58-0.52)	0.20 (-0.39-0.68)	0.10 (-0.16-0.50)	1.35 (0.96-2.30)*	0.14 (0.10-0.24)*	4.22 (2.99-7.17)	1.91 (1.52 – 2.68)	
	3	-0.1 (0.0)	0.2 (1.0)	-0.1 (0.0)	-0.02 (-0.57-0.54)*	-0.21 (-0.68-0.39)	0.03 (-0.53-0.57)	0.00 (-0.22-0.40)	1.45 (1.03-2.46)*	0.07 (0.05-0.13)*	12.60 (8.93-21.40)	2.00 (1.59 – 2.80)	
	4	-0.1 (0.0)	0.2 (1.0)	-0.1 (0.1)	-0.02 (-0.57-0.54)*	0.02 (-0.54-0.56)	0.03 (-0.53-0.57)	0.00 (-0.22-0.39)	1.49 (1.05-2.52)*	16.30 (11.54-27.67)	12.89 (9.13-21.88)	2.00 (1.59-2.80)	
	5	-0.1 (0.0)	0.3 (1.0)	-0.1 (0.0)	0.00 (-0.55-0.56)	0.36 (-0.24-0.76)	0.00 (-0.55-0.55)*	0.00 (-0.22-0.39)	31.76 (22.50 -53.93)	2.86 (2.03 – 4.86)	1.48 (1.05-2.51)*	2.00 (1.59 – 2.80)	

Px = pelvic tilt, Py = pelvic obliquity, Pz = pelvic rotation, Sn = session; SD = standard deviation; ICC = intraclass correlation coefficient; CI = confidence interval; TE (stdz) = standardized typical error; LL = lower limit; UL = upper limit.

† < 0.05 vs. Sn. 1; ‡ < 0.05 vs. Sn. 2. a < 0.05 vs interval 1; b < 0.05 vs. interval 2

Note: bolded* = raw data used to calculate typical error

Table S17. Reliability of the LyE for left and right hip kinematics

Kin	Interval	Mean (SD)			ICC _(3,1) (95%CI)			ICC _(3,1) mean (95%CI)			TE (stzd) (LL/UL)			TE (stzd) mean (LL/UL)		
		Sn. 1	Sn. 2	Sn. 3	2-1	3-1	3-2	2-1	3-1	3-2	2-1	3-1	3-2	2-1	3-1	3-2
LHx	1	2.5 (0.4)	2.4 (0.6)	2.3 (0.6)	0.61 (0.09 – 0.87)	0.65 (0.16 – 0.89)	0.25 (-0.35-0.71)	0.49 (0.16 – 0.78)	1.74 (1.23 – 2.95)	1.60 (1.13 – 2.71)	3.69 (2.62 – 6.27)	1.49 (1.18 – 2.08)				
	2	2.3 (0.4)	2.3 (0.4)	2.1 (0.7)	0.56 (0.02 – 0.85)	0.48 (-0.10-0.81)	0.17 (-0.43-0.66)	0.37 (0.05 – 0.72)	1.91 (1.35-3.25)	2.27 (1.61-3.86)	4.76 (3.37 – 8.08)	1.63 (1.29 – 2.28)				
	3	2.5 (0.4)	2.3 (0.5)	2.2 (0.6)	0.67 (0.18 – 0.89)	0.36 (-0.24-0.76)	0.26 (-0.35-0.71)	0.40 (0.07 - 0.73)	1.55 (1.10 – 2.64)	2.84 (2.01 – 4.82)	3.64 (2.58 – 6.18)	1.59 (1.27 – 2.23)				
	4	2.5 (0.4)	2.3 (0.5)	2.2 (0.4)	0.56 (0.01 – 0.85)	0.30 (-0.30-0.73)	0.54 (-0.03-0.84)	0.48 (0.15 – 0.78)	1.93 (1.37 – 3.27)	3.28 (2.33 – 5.57)	2.03 (1.44 – 3.44)	1.50 (1.20 – 2.10)				
	5	2.5 (0.4)	2.2 (0.5)	2.3 (0.4)	0.68 (0.20 – 0.90)	0.75 (0.34 – 0.92)	0.79 (0.42 – 0.94)	0.74 (0.49 – 0.91)	1.51 (1.07 – 2.56)	1.27 (0.90 – 2.16)	1.14 (0.81 – 1.93)	1.09 (0.87 – 1.53)				
LHy	1	2.7 (0.5)	2.6 (0.5)	2.6 (0.5)	0.72 (0.53-0.85)	0.60 (0.35-0.77)	0.84 (0.71-0.91)	0.71 (0.57-0.82)	1.27 (1.03-1.64)	1.68 (1.37-2.18)	0.91 (0.74-1.17)	1.10 (0.96-1.30)				
	2	2.6 (0.5)	2.5 (0.5)	2.6 (0.4)	0.69 (0.22 – 0.90)	0.64 (0.13 – 0.88)	0.54 (-0.02-0.84)	0.63 (0.32 – 0.86)	1.47 (1.04 – 2.50)	1.64 (1.16 – 2.79)	2.02 (1.43 – 3.43)	1.29 (1.02 – 1.80)				
	3	2.6 (0.5)	2.5 (0.6)	2.6 (0.5)	0.80 (0.45 – 0.94)	0.71 (0.25 – 0.91)	0.55 (0.00 – 0.85)	0.69 (0.41 – 0.89)	1.11 (0.78 – 1.88)	1.42 (1.01 – 2.41)	1.95 (1.38 – 3.31)	1.18 (0.94 – 1.65)				
	4	2.7 (0.5)	2.5 (0.5)	2.6 (0.4)	0.67 (0.18)	0.76 (0.35 – 0.92)	0.58 (0.04 – 0.86)	0.67 (0.37 – 0.87)	1.55 (1.10 – 2.63)	1.26 (0.89 – 2.13)	1.86 (1.31 – 3.15)	1.23 (0.98 – 1.72)				
	5	2.7 (0.5)	2.6 (0.5)	2.6 (0.5)	0.63 (0.12 – 0.88)	0.73 (0.30 – 0.92)	0.65 (0.15 – 0.89)	0.67 (0.38 – 0.88)	1.68 (1.19 – 2.85)	1.33 (0.94 – 2.26)	1.60 (1.13 – 2.72)	1.22 (0.97 – 1.71)				
LHz	1	2.3 (0.6)	2.4 (0.5)	2.4 (0.3)	0.48 (-0.10-0.81)	0.25 (-0.35-0.71)	0.84 (0.52-0.95)	0.50 (0.17 – 0.79)	2.27 (1.61 – 3.86)	3.71 (2.63 – 6.29)	0.99 (0.70 – 1.68)	1.47 (1.17 – 2.05)				
	2	2.2 (0.5)	2.2 (0.4)	2.3 (0.4)	0.47 (-0.11-0.81)	0.30 (-0.30-0.73)	0.87 (0.61 – 0.96)	0.53 (0.21 – 0.81)	2.28 (1.62 – 3.88)	3.25 (2.30 – 5.51)	0.86 (0.61 – 1.46)	1.43 (1.14 – 2.00)				
	3	2.1 (0.7)	2.1 (0.6) _a	2.0 (0.6) _a	0.78 (0.40 – 0.93)	0.58 (0.04 – 0.86)	0.64 (0.14 – 0.88)	0.67 (0.38 – 0.88)	1.17 (0.83 – 1.99)	1.85 (1.31 – 3.13)	1.64 (1.16 – 2.78)	1.22 (0.97 – 1.70)				
	4	2.2 (0.7)	2.1 (0.6)	2.3 (0.4) _c	0.73 (0.29 – 0.91)	0.56 (0.01 – 0.85)	0.51 (-0.06-0.83)	0.62 (0.31 – 0.85)	1.35 (0.95 – 2.29)	1.93 (1.37 – 3.28)	2.13 (1.51 – 3.61)	1.30 (1.03 – 1.82)				
	5	2.3 (0.6)	2.2 (0.6)	2.4 (0.4) _c	0.44 (-0.14-0.80)	0.80 (0.44 – 0.94)	0.39 (-0.21-0.78)	0.53 (0.20 - 0.81)	2.41 (1.71 – 4.10)	1.12 (0.79 – 1.90)	2.68 (1.90 – 4.55)	1.43 (1.14 – 2.01)				
RHx	1	2.5 (0.6)	2.6 (0.9)	2.8 (0.4)	-0.09 (-0.61-0.49)*	0.56 (0.01 – 0.85)	0.08 (-0.50-0.60)	0.10 (-0.16-0.50)	1.63 (1.16-2.77)*	1.94 (1.37 – 3.29)	7.37 (5.22-12.51)	1.91 (1.52 – 2.68)				
	2	2.5 (0.3)	2.5 (0.9)	2.7 (0.3)	-0.06 (-0.59-0.51)*	0.83 (0.52 – 0.95)	0.03 (-0.53-0.57)	0.08 (-0.17-0.48)	1.36 (0.96-2.31)*	1.00 (0.71 – 1.69)	11.85 (8.40-20.13)	1.92 (1.53 – 2.70)				
	3	2.6 (0.4)	2.5 (0.9)	2.8 (0.3)	-0.02 (-0.57-0.54)*	0.82 (0.48-0.94)	-0.09 (-0.61-0.49)*	0.05 (-0.19-0.45)	1.37 (0.97 – 2.33)*	1.05 (0.74 – 1.78)	1.39 (0.99-2.36)*	1.95 (1.55 – 2.74)				

Kin	Interval	Mean (SD)			ICC _(3,1) (95%CI)			ICC _(3,1) mean (95%CI)			TE (stzd) (LL/UL)			TE (stzd) mean (LL/UL)		
		Sn. 1	Sn. 2	Sn. 3	2-1	3-1	3-2	2-1	3-1	3-2	2-1	3-1	3-2	2-1	3-1	3-2
	4	2.7 (0.4)	2.5 (0.9)	2.7 (0.4)	-0.27 (-0.71-0.34)*	0.40 (-0.20-0.78)	0.05 (-0.51-0.59)	-0.04 (-0.25-0.34)	1.57 (1.11-2.67)*	2.64 (1.87 – 4.49)	8.93 (6.33-15.16)	2.04 (1.62 – 2.85)				
	5	2.7 (0.4)	2.5 (0.9)	2.7 (0.4)	0.01 (-0.54-0.56)	0.86 (0.58 – 0.96)	0.20 (-0.39-0.68)	0.23 (-0.07-0.61)	19.14 (13.36-32.50)	0.91 (0.65 – 1.55)	4.22 (2.99 – 7.17)	1.78 (1.42 – 2.50)				
	1	3.1 (0.4)	3.2 (0.2)	3.2 (0.2)	0.74 (0.32 – 0.92)	0.54 (-0.02-0.84)	0.48 (-0.10-0.81)	0.61 (0.30 – 0.85)	1.30 (0.92 – 2.20)	2.01 (1.43 – 3.42)	2.27 (1.61 – 3.86)	1.32 (1.05 – 1.84)				
	2	3.0 (0.3)	3.2 (0.3) _†	3.1 (0.2)	0.68 (0.20 – 0.90)	0.28 (-0.32-0.72)	0.44 (-0.14-0.80)	0.49 (0.16 – 0.79)	1.51 (1.07 – 2.56)	3.43 (2.43 – 5.83)	2.42 (1.71 – 4.10)	1.48 (1.18 – 2.07)				
	3	3.0 (0.3)	3.2 (0.3) _†	3.2 (0.1) _{b†}	0.88 (0.64 – 0.96)	0.47 (-0.11-0.81)	0.51 (-0.06-0.83)	0.68 (0.39 – 0.88)	0.82 (0.58 – 1.40)	2.28 (1.62 – 3.87)	2.11 (1.50 – 3.59)	1.21 (0.96 – 1.69)				
RH _y	4	3.1 (0.3)	3.2 (0.4) _†	3.3 (0.2)	0.73 (0.30 – 0.91)	0.30 (-0.31-0.73)	0.47 (-0.12-0.81)	0.55 (0.23 – 0.82)	1.33 (0.94 – 2.26)	3.30 (2.34 – 5.60)	2.31 (1.64 – 3.93)	1.40 (1.11 – 1.96)				
	5	3.2 (0.4) _{bc}	3.2 (0.3)	3.3 (0.2)	0.84 (0.53 – 0.95)	0.41 (-0.18 – 0.79)	0.40 (-0.20 – 0.78)	0.61 (0.30 – 0.85)	0.98 (0.70 – 1.67)	2.57 (1.82 – 4.37)	2.66 (1.88 – 4.51)	1.31 (1.04 – 1.84)				
	1	2.2 (0.7)	2.0 (0.8)	2.2 (0.6)	0.66 (0.18 – 0.89)	0.61 (0.09 – 0.87)	0.29 (-0.31-0.73)	0.52 (0.20 – 0.81)	1.56 (1.10 – 2.65)	1.73 (1.23 – 2.94)	3.36 (2.38 – 5.70)	1.44 (1.14 – 2.01)				
	2	2.2 (0.7)	1.9 (0.7)	2.2 (0.6)	0.76 (0.35 – 0.92)	0.61 (0.09 – 0.87)	0.31 (-0.29-0.74)	0.57 (0.25 – 0.83)	1.25 (0.89 – 2.13)	1.75 (1.24 – 2.97)	3.18 (2.25 – 5.40)	1.38 (1.10 – 1.93)				
	3	2.3 (0.6)	2.1 (0.7)	2.2 (0.8)	0.66 (0.16 – 0.89)	0.71 (0.27 – 0.91)	0.25 (-0.36-0.70)	0.53 (0.20 – 0.81)	1.59 (1.13 – 2.70)	1.39 (0.99 – 2.37)	3.74 (2.65 – 6.35)	1.44 (1.14 – 2.01)				
RH _z	4	2.4 (0.6)	2.2 (0.7)	2.3 (0.7)	0.77 (0.37 – 0.93)	0.70 (0.24 – 0.90)	0.30 (-0.30-0.73)	0.58 (0.26 – 0.83)	1.21 (0.86 – 2.06)	1.44 (1.02 – 2.45)	3.26 (2.31 – 5.53)	1.36 (1.08 – 1.90)				
	5	2.5 (0.6)	2.1 (0.8) _†	2.4 (0.7)	0.35 (-0.26-0.76)	0.73 (0.29 – 0.91)	0.29 (-0.31-0.73)	0.44 (0.11 – 0.76)	2.95 (2.09 – 5.00)	1.35 (0.96 – 2.29)	3.36 (2.38 – 5.71)	1.55 (1.23 – 2.17)				

Kin = kinematics LHx = left hip flexion/extension, LHy = left hip abduction/adduction, LHz = left hip rotation, RHx = right hip flexion/extension, RH_y = right hip abduction/adduction, RH_z = right hip rotation, Sn = session; SD = standard deviation; ICC = intraclass correlation coefficient; CI = confidence interval; TE (stzd) = standardized typical error; LL = lower limit; UL = upper limit.

† < 0.05 vs. Sn. 1; ‡ < 0.05 vs. Sn. 2

a < 0.05 vs interval 1; b < 0.05 vs. interval 2; c < 0.05 vs. interval 3

Note: bolded* = raw data used to calculate typical error

Table S18. Reliability of the LyE for left and right knee kinematics

Kin	Interval	Mean (SD)			ICC _(3,1) (95%CI)			ICC _(3,1) mean (95%CI)			TE (stzd) (LL/UL)			TE (stzd) mean (LL/UL)
		Sn. 1	Sn. 2	Sn. 3	2-1	3-1	3-2	2-1	3-1	3-2	2-1	3-1	3-2	
LKx	1	1.9 (0.5)	2.0 (0.5)	1.8 (0.5)	0.53 (-0.03-0.84)	0.83 (0.52 – 0.95)	0.87 (0.61 – 0.96)	0.75 (0.50 – 0.91)	2.03 (1.44 – 3.45)	1.00 (0.71 – 1.70)	0.86 (0.61 – 1.47)	1.07 (0.85 – 1.50)		
	2	1.8 (0.5)	1.9 (0.5)	1.7 (0.5)	0.56 (0.01 – 0.85)	0.82 (0.48 – 0.94)	0.88 (0.64 – 0.96)	0.76 (0.51 – 0.91)	1.94 (1.38 – 3.30)	1.05 (0.75 – 1.79)	0.82 (0.58 – 1.40)	1.06 (0.84 – 1.49)		
	3	1.9 (0.6)	1.9 (0.5)	1.9 (0.5)	0.44 (-0.15-0.80)	0.82 (0.49 – 0.95)	0.79 (0.42 – 0.93)	0.69 (0.40 – 0.88)	2.46 (1.74 – 4.18)	1.04 (0.73 – 1.76)	1.15 (0.81 – 1.95)	1.19 (0.95 – 1.67)		
	4	2.0 (0.5)	2.0 (0.5)	1.9 (0.5)	0.42 (-0.17-0.79)	0.86 (0.59 – 0.96)	0.80 (0.44 – 0.94)	0.71 (0.43 – 0.89)	2.51 (1.78 – 4.27)	0.90 (0.63 – 1.52)	1.11 (0.78 – 1.88)	1.16 (0.92 – 1.62)		
	5	2.1 (0.5) _b	2.0 (0.6) _†	1.8 (0.4) _‡	0.47 (-0.11-0.81)	0.77 (0.38 – 0.93)	0.83 (0.51 – 0.95)	0.69 (0.40 – 0.88)	2.30 (1.63 – 3.91)	1.20 (0.85 – 2.04)	1.00 (0.71 – 1.70)	1.19 (0.95 – 1.67)		
LKy	1	2.2 (0.5)	2.1 (0.5)	2.2 (0.6)	0.23 (-0.37-0.69)	0.73 (0.29-0.91)	0.14 (-0.45-0.64)	0.38 (0.05 – 0.72)	3.93 (2.79 – 6.68)	1.36 (0.96 – 2.30)	5.37 (3.80 – 9.12)	1.62 (1.29 – 2.27)		
	2	2.1 (0.5)	2.0 (0.5)	2.1 (0.5)	0.21 (-0.38-0.69)	0.71 (0.27 – 0.91)	0.24 (-0.36-0.70)	0.40 (0.08 – 0.74)	4.08 (2.89 – 6.93)	1.39 (0.99 – 2.36)	3.76 (2.66 – 6.38)	1.59 (1.26 – 2.23)		
	3	2.2 (0.5)	2.0 (0.6)	2.1 (0.5)	0.26 (-0.34-0.71)	0.64 (0.14 – 0.88)	0.26 (-0.34-0.71)	0.37 (0.05 – 0.72)	3.60 (2.55 – 6.11)	1.64 (1.16 – 2.78)	3.60 (2.55 – 6.11)	1.63 (1.30 – 2.28)		
	4	2.3 (0.5)	2.0 (0.6)	2.1 (0.5)	0.27 (-0.33-0.71)	0.58 (0.04-0.86)	0.30 (-0.30-0.73)	0.37 (0.05 – 0.72)	3.53 (2.50 – 6.00)	1.87 (1.32 – 3.17)	3.24 (2.29 – 5.50)	1.63 (1.30 – 2.28)		
	5	2.3 (0.4)	2.1 (0.6)	2.1 (0.6)	0.33 (-0.27-0.75)	0.58 (0.04 -0.86)	0.17 (-0.42-0.66)	0.35 (0.03 – 0.70)	3.03 (2.14 – 5.14)	1.84 (1.31 – 3.13)	4.63 (3.28 – 7.86)	1.65 (1.31 – 2.31)		
LKz	1	1.4 (0.7)	1.5 (0.8)	1.4 (0.8)	0.29 (-0.32-0.72)	-0.06 (-0.59-0.51)*	0.39 (-0.21-0.78)	0.22 (-0.08-0.61)	3.38 (2.39 – 5.73)	1.50 (1.07-2.55)*	2.68 (1.90 – 4.55)	1.79 (1.42 – 2.51)		
	2	1.3 (0.6)	1.4 (0.8)	1.3 (0.7)	0.27 (-0.34-0.71)	-0.04 (-0.58-0.52)*	0.37 (-0.24-0.76)	0.21 (-0.09-0.60)	3.54 (2.51 – 6.01)	1.36 (0.96-2.31)*	2.83 (2.01 – 4.81)	1.80 (1.43 – 2.52)		
	3	0.9 (0.2) _{ab}	1.1 (0.4) _a	0.9 (0.3) _{ab}	0.53 (-0.04-0.84)	0.86 (0.58 – 0.96)	0.47 (-0.11-0.81)	0.57 (0.25 – 0.83)	2.06 (1.46 – 3.49)	0.90 (0.64 – 1.53)	2.30 (1.63 – 3.91)	1.38 (1.10 – 1.93)		
	4	1.0 (0.2) _a	1.1 (0.4)	1.2 (0.6)	0.21 (-0.39-0.69)	0.38 (-0.22-0.77)	0.22 (-0.38-0.69)	0.27 (-0.04-0.65)	4.10 (2.90 – 6.96)	2.77 (1.96 – 4.71)	3.98 (2.82 – 6.75)	1.73 (1.38 – 2.43)		
	5	0.9 (0.2) _{ab}	1.0 (0.2) _{ab}	1.3 (0.8)	0.77 (0.37 – 0.93)	0.29 (-0.31-0.73)	0.23 (-0.37-0.69)	0.29 (-0.03-0.66)	1.22 (0.86 – 2.06)	3.32 (2.35 – 5.63)	3.91 (2.77 – 6.64)	1.72 (1.37 – 2.41)		
RKx	1	2.1 (0.5)	2.2 (0.3)	2.2 (0.5)	0.34 (-0.26-0.75)	0.66 (0.16 – 0.89)	0.26 (-0.35-0.71)	0.46 (0.13 – 0.77)	2.98 (2.11 – 5.06)	1.58 (1.12 – 2.69)	3.64 (2.58 – 6.19)	1.52 (1.21 – 2.13)		
	2	2.1 (0.5)	2.1 (0.2)	2.2 (0.5)	0.27 (-0.33-0.72)	0.43 (-0.16-0.79)	0.21 (-0.39-0.68)	0.33 (0.01-0.69)	3.52 (2.49 – 5.97)	2.49 (1.77 – 4.23)	4.12 (2.92 – 7.00)	1.68 (1.33 – 2.35)		
	3	2.1 (0.4)	2.1 (0.4)	2.2 (0.5)	0.37 (-0.23-0.77)	0.51 (-0.06-0.83)	0.15 (-0.44-0.65)	0.35 (0.03-0.70)	2.81 (1.99 – 4.77)	2.13 (1.51 – 3.61)	5.02 (3.55 – 8.52)	1.65 (1.32 – 2.32)		

Kin	Interval	Mean (SD)			ICC ^(3,1) (95%CI)			ICC ^(3,1) mean (95%CI)			TE (stzd) (LL/UL)			TE (stzd) mean (LL/UL)
		Sn. 1	Sn. 2	Sn. 3	2-1	3-1	3-2	2-1	3-1	3-2	2-1	3-1	3-2	
RKy	4	2.1	2.1	2.2	0.55	0.41	0.32	0.41	1.98	2.61	3.14	1.58		
		(0.4)	(0.3)	(0.5)	(-0.01-0.84)	(-0.19-0.78)	(-0.29-0.74)	(0.09 – 0.74)	(1.40 – 3.37)	(1.85 – 4.42)	(2.23 – 5.34)	(1.26 – 2.21)		
	5	2.1	2.1	2.2	0.60	0.55	0.31	0.47	1.79	1.96	3.19	1.51		
		(0.4)	(0.3)	(0.6)	(0.07 – 0.87)	(0.00 – 0.85)	(-0.29-0.74)	(0.14 – 0.78)	(1.27 – 3.04)	(1.39 – 3.33)	(2.26 – 5.42)	(1.20 – 2.11)		
	1	2.4	2.6	2.6	0.29	0.53	0.49	0.45	3.38	2.04	2.22	1.53		
		(0.5)	(0.3)	(0.5)	(-0.32-0.72)	(-0.03-0.84)	(-0.09-0.82)	(0.12 – 0.77)	(2.40 – 5.74)	(1.45 – 3.47)	(1.57 – 3.77)	(1.22 – 2.14)		
	2	2.4	2.5	2.5	0.13	0.36	0.42	0.33	5.43	2.85	2.51	1.67		
		(0.4)	(0.3)	(0.5)	(-0.45-0.64)	(-0.24-0.76)	(-0.17-0.79)	(0.01 – 0.69)	(3.84 – 9.21)	(2.02 – 4.85)	(1.78 – 4.27)	(1.33 – 2.35)		
	3	2.4	2.5	2.6	0.79	0.82	0.67	0.77	1.13	1.04	1.55	1.03		
		(0.5)	(0.3)	(0.5)	(0.39 – 0.93)	(0.45 – 0.94)	(0.18 – 0.89)	(0.53 – 0.92)	(0.79 – 1.98)	(0.73 – 1.83)	(1.09 – 2.62)	(0.81 – 1.44)		
4	2.4	2.5	2.6	0.39	0.66	0.53	0.55	2.70	1.57	2.03	1.40			
	(0.5)	(0.3)	(0.5)	(-0.21-0.77)	(0.17 – 0.89)	(-0.03-0.84)	(0.23 – 0.82)	(1.92 – 4.59)	(1.11 – 2.66)	(1.44 – 3.45)	(1.11 – 1.96)			
RKz	1	2.4	2.5	2.6	0.33	0.59	0.50	0.49	3.05	1.83	2.15	1.48		
		(0.7)	(0.3)	(0.6)	(-0.27-0.75)	(0.05 – 0.86)	(-0.07-0.83)	(0.16 – 0.79)	(2.16 – 5.17)	(1.30 – 3.11)	(1.52 – 3.65)	(1.18 – 2.08)		
	2	1.3	1.2	1.1	0.36	-0.14	0.51	0.27	2.89	1.06	2.13	1.74		
		(0.5)	(0.6)	(0.5)	(-0.25-0.76)	(-0.65-0.44)*	(-0.06-0.83)	(-0.04-0.64)	(2.05 – 4.91)	(0.75-1.80)*	(1.51 – 3.61)	(1.39 – 2.44)		
	3	1.2	1.2	1.1	0.30	-0.15	0.47	0.23	3.27	0.98	2.28	1.78		
		(0.5)	(0.6)	(0.4)	(-0.30-0.73)	(-0.65-0.44)*	(-0.11-0.81)	(-0.07-0.62)	(2.32 – 5.56)	(0.69-1.66)*	(1.61 – 3.87)	(1.42 – 2.49)		
	4	1.0	1.0	1.0	0.84	0.52	0.60	0.68	0.98	2.09	1.77	1.20		
		(0.1)	(0.1)	(0.1)	(0.53 – 0.95)	(-0.05-0.83)	(0.07 – 0.87)	(0.39 – 0.88)	(0.69 – 1.66)	(1.48 – 3.55)	(1.26 – 3.01)	(0.96 – 1.68)		
	5	1.0	1.0	1.0	0.84	0.75	0.87	0.81	0.98	1.28	0.88	0.95		
		(0.2) _a	(0.1)	(0.1)	(0.53 – 0.95)	(0.34 – 0.92)	(0.60 – 0.96)	(0.60 – 0.93)	(0.70 – 1.67)	(0.90 – 2.17)	(0.62 – 1.49)	(0.76 – 1.33)		
	5	1.0	1.0	1.1	0.85	0.24	0.16	0.29	0.92	3.77	4.95	1.72		
		(0.1)	(0.2)	(0.4)	(0.57 – 0.96)	(-0.36-0.70)	(-0.43-0.65)	(-0.02-0.66)	(0.65 – 1.57)	(2.67 – 6.40)	(3.50 – 8.40)	(1.37 – 2.41)		

Kin = kinematics LKx = left knee flexion/extension, LKy = left knee valgus/varum, LKz = left knee rotation, RKx = right knee flexion/extension, RKy = right knee valgus/varum, RKz = right knee rotation, Sn = session; SD = standard deviation; ICC = intraclass correlation coefficient; CI = confidence interval; TE (stzd) = standardized typical error; LL = lower limit; UL = upper limit.

† < 0.05 vs. Sn. 1; ‡ < 0.05 vs. Sn. 2.

a < 0.05 vs interval 1; b < 0.05 vs. interval 2

Note: bolded* = raw data used to calculate typical error

Table S19. Reliability of the LyE for left and right ankle kinematics

Kin	Interval	Mean (SD)			ICC _(3,1) (95%CI)			ICC _(3,1) mean (95%CI)			TE (stzd) (LL/UL)			TE (stzd) mean (LL/UL)
		Sn. 1	Sn. 2	Sn. 3	2-1	3-1	3-2	2-1	3-1	3-2	2-1	3-1	3-2	
LAX	1	1.0 (0.5)	0.9 (0.4)	0.9 (0.4)	0.82 (0.48 – 0.94)	0.70 (0.24 – 0.90)	0.78 (0.40 – 0.93)	0.77 (0.53 – 0.92)	1.05 (0.75 – 1.79)	1.44 (1.02 – 2.44)	1.18 (0.83 – 2.00)	1.04 (0.83 – 1.46)		
	2	0.9 (0.5)	0.9 (0.4)	0.9 (0.3)	0.61 (0.08 – 0.87)	0.22 (-0.38-0.69)	0.34 (-0.26-0.75)	0.42 (0.09 – 0.74)	1.76 (1.25 – 2.98)	4.03 (2.86 – 6.85)	2.99 (2.12 – 5.08)	1.57 (1.25 – 2.21)		
	3	0.9 (0.5)	1.0 (0.4)	0.9 (0.4)	0.74 (0.31 – 0.92)	0.19 (-0.40-0.67)	0.32 (-0.28-0.74)	0.45 (0.12 – 0.76)	1.32 (0.94 – 2.24)	4.33 (3.07 – 7.36)	3.13 (2.21 – 5.31)	1.53 (1.22 – 2.15)		
	4	0.9 (0.5)	1.0 (0.4)	1.0 (0.3)	0.66 (0.17 – 0.89)	0.12 (-0.47-0.63)	0.33 (-0.27-0.75)	0.39 (0.06 – 0.72)	1.57 (1.11 – 2.67)	5.84 (4.14 – 9.92)	3.05 (2.16 – 5.18)	1.61 (1.28 – 2.26)		
	5	0.9 (0.5)	1.0 (0.30)	1.0 (0.4)	0.35 (-0.25-0.76)	0.42 (-0.18-0.79)	0.03 (-0.53-0.57)	0.22 (-0.07-0.61)	2.92 (2.07 – 4.97)	12.12 (8.58-20.57)	2.56 (1.81 – 4.35)	1.79 (1.42 – 2.50)		
LAY	1	1.8 (0.5)	1.8 (0.4)	1.8 (0.5)	0.40 (-0.27-0.78)	0.63 (0.07 – 0.88)	0.32 (-0.28-0.74)	0.46 (0.12 – 0.77)	2.61 (1.83 – 4.59)	1.67 (1.16 – 2.93)	3.14 (2.22 – 5.33)	1.52 (1.19 – 2.12)		
	2	1.7 (0.5)	1.8 (0.3)	1.7 (0.4)	0.44 (-0.15-0.80)	0.73 (0.29 – 0.91)	0.42 (-0.17-0.79)	0.55 (0.23 – 0.82)	2.45 (1.73 – 4.15)	1.35 (0.96 – 2.30)	2.54 (1.80 – 4.30)	1.40 (1.11 – 1.96)		
	3	1.7 (0.6)	1.8 (0.4)	1.8 (0.5)	0.36 (-0.24-0.76)	0.66 (0.16 – 0.89)	0.52 (-0.04-0.83)	0.52 (0.20 – 0.80)	2.84 (2.01 – 4.82)	1.59 (1.12 – 2.69)	2.08 (1.47 – 3.53)	1.44 (1.15 – 2.02)		
	4	1.8 (0.6)	1.8 (0.5)	1.9 (0.5)	0.66 (0.16 – 0.89)	0.74 (0.27 – 0.91)	0.74 (0.31 – 0.92)	0.71 (0.43 – 0.89)	1.58 (1.12 – 2.69)	1.31 (0.91 – 2.30)	1.31 (0.93 – 2.23)	1.15 (0.92 – 1.63)		
	5	1.7 (0.5)	1.8 (0.5)	1.8 (0.5)	0.66 (0.17 – 0.89)	0.78 (0.40 – 0.93)	0.79 (0.42 – 0.93)	0.74 (0.49 – 0.91)	1.57 (1.12 – 2.67)	1.17 (0.83 – 1.99)	1.14 (0.81 – 1.94)	1.09 (0.87 – 1.52)		
LAz	1	3.1 (0.3)	2.9 (0.3) _†	2.9 (0.4) _†	0.65 (0.11 – 0.88)	0.71 (0.22 – 0.91)	0.87 (0.62 – 0.96)	0.76 (0.50 – 0.91)	1.59 (1.11 – 2.78)	1.39 (0.97 – 2.45)	0.86 (0.61 – 1.46)	1.06 (0.83 – 1.48)		
	2	3.0 (0.2)	2.9 (0.3)	2.8 (0.3)	0.60 (0.08 – 0.87)	0.70 (0.24 – 0.90)	0.89 (0.67 – 0.97)	0.75 (0.50 – 0.91)	1.77 (1.25 – 3.01)	1.44 (1.02 – 2.44)	0.78 (0.55 – 1.33)	1.07 (0.85 – 1.50)		
	3	3.0 (0.2)	2.9 (0.3)	2.9 (0.3)	0.67 (0.19 – 0.89)	0.72 (0.28 – 0.91)	0.75 (0.34 – 0.92)	0.72 (0.45 – 0.90)	1.54 (1.09 – 2.61)	1.36 (0.96 – 2.31)	1.26 (0.89 – 2.14)	1.13 (0.90 – 2.14)		
	4	3.0 (0.3)	3.0 (0.3)	2.9 (0.3)	0.58 (0.04 – 0.86)	0.82 (0.48 – 0.94)	0.62 (0.10 – 0.87)	0.67 (0.38 – 0.88)	1.86 (1.32 – 3.16)	1.05 (0.74 – 1.78)	1.72 (1.22 – 2.91)	1.22 (0.97 – 1.71)		
	5	3.1 (0.2)	3.0 (0.3)	3.0 (0.4)	0.38 (-0.22-0.77)	0.67 (0.18 – 0.89)	0.69 (0.21 – 0.90)	0.60 (0.29 – 0.85)	2.77 (1.96 – 4.70)	1.56 (1.10 – 2.64)	1.49 (1.05 – 2.52)	1.32 (1.05 – 1.85)		
RAX	1	1.0 (0.5)	1.0 (0.4)	1.0 (0.5)	0.38 (-0.22-0.77)	0.46 (-0.13-0.81)	0.56 (0.01 – 0.85)	0.47 (0.14 – 0.77)	2.74 (1.94 – 4.65)	2.36 (1.67 – 4.00)	1.92 (1.36 – 3.27)	1.51 (1.20 – 2.12)		
	2	1.0 (0.4)	1.0 (0.4)	1.0 (0.4)	0.73 (0.29 – 0.91)	0.50 (-0.08-0.82)	0.53 (-0.04-0.84)	0.59 (0.27 – 0.84)	1.35 (0.96 – 2.29)	2.18 (1.54 – 3.70)	2.06 (1.46 – 3.50)	1.35 (1.07 – 1.89)		
	3	1.0 (0.3)	1.0 (0.5)	1.0 (0.3)	0.49 (-0.15-0.82)	0.26 (-0.42-0.71)	0.50 (-0.07-0.83)	0.44 (0.11 – 0.76)	2.19 (1.53 – 3.84)	3.57 (2.49 – 6.26)	2.17 (1.53 – 3.68)	1.54 (1.21 – 2.15)		

RAY	4	1.0 (0.4)	1.0 (0.5)	0.9 (0.4)	0.46 (-0.12-0.81)	0.46 (-0.13-0.81)	0.51 (-0.05-0.83)	0.48 (0.15 – 0.78)	2.33 (1.65 – 3.96)	2.35 (1.66 – 3.98)	2.11 (1.49 – 3.58)	1.49 (1.19 – 2.09)
	5	1.0 (0.3)	1.0 (0.5)	1.0 (0.4)	0.67 (0.18 – 0.89)	0.89 (0.65 – 0.97)	0.79 (0.43 – 0.94)	0.78 (0.54 – 0.92)	1.55 (1.10 – 2.64)	0.80 (0.57 – 1.37)	1.13 (0.80 – 1.92)	1.02 (0.81 – 1.43)
	1	2.1 (0.4)	2.2 (0.4)	2.1 (0.4)	0.80 (0.44 – 0.94)	0.24 (-0.36-0.70)	0.19 (-0.40-0.67)	0.40 (0.07 – 0.73)	1.11 (0.79 – 1.89)	3.79 (2.68 – 6.43)	4.38 (3.10 – 7.44)	1.60 (1.27 – 2.24)
	2	2.1 (0.4)	2.1 (0.3)	2.1 (0.4)	0.77 (0.37 – 0.93)	-0.02 (-0.57-0.54)*	-0.01 (-0.56-0.54)*	0.20 (-0.09-0.59)	1.22 (0.86 – 2.07)	0.82 (0.58-1.40)*	0.78 (0.55-1.32)*	1.81 (1.44 – 2.53)
	3	2.2 (0.3)	2.2 (0.3)	2.2 (0.5)	0.70 (0.23 – 0.90)	0.54 (-0.02-0.84)	0.64 (0.14 – 0.88)	0.62 (0.31 – 0.85)	1.45 (1.03 – 2.46)	2.02 (1.43 – 3.42)	1.63 (1.15 – 2.76)	1.30 (1.04 – 1.83)
	4	2.2 (0.4)	2.1 (0.3)	2.1 (0.4)	0.39 (-0.21-0.77)	0.50 (-0.07-0.83)	0.27 (-0.33-0.72)	0.40 (0.07-0.74)	2.70 (1.92 – 4.59)	2.16 (1.53 – 3.68)	3.49 (2.47 – 5.93)	1.59 (1.27 – 2.23)
	5	2.2 (0.4)	2.2 (0.4)	2.1 (0.5)	0.55 (-0.01-0.84)	0.28 (-0.32-0.72)	0.52 (-0.05-0.83)	0.44 (0.11-0.76)	1.98 (1.40 – 3.36)	3.41 (2.42 – 5.80)	2.10 (1.49 – 3.56)	1.55 (1.23 – 2.17)
	1	3.1 (0.4)	3.1 (0.4)	3.1 (0.4)	0.48 (-0.10-0.82)	0.62 (0.09 – 0.87)	0.71 (0.26 – 0.91)	0.61 (0.30 – 0.85)	2.25 (1.60 – 3.83)	1.73 (1.22 – 2.93)	1.41 (1.00 – 2.40)	1.32 (1.05 – 1.84)
	2	3.0 (0.3)	2.9 (0.3)	3.0 (0.4)	0.57 (0.03 – 0.86)	0.63 (0.12 – 0.88)	0.71 (0.25 – 0.91)	0.64 (0.34 – 0.86)	1.88 (1.33 – 3.19)	1.67 (1.19 – 2.84)	1.42 (1.01 – 2.42)	1.27 (1.01 – 1.77)
	3	3.1 (0.3)	3.0 (0.3)	3.0 (0.4)	0.46 (-0.13-0.81)	0.48 (-0.10-0.82)	0.76 (0.35 – 0.92)	0.58 (0.26 – 0.83)	2.36 (1.68 – 4.02)	2.24 (1.59 – 3.81)	1.25 (0.89 – 2.13)	1.36 (1.09 – 1.31)
RAZ	4	3.1 (0.3)	3.1 (0.3)	3.1 (0.3)	0.84 (0.54-0.95)	-0.10 (-0.62-0.48)	0.01 (-0.55-0.56)	0.30 (-0.02-0.67)	0.97 (0.69-1.65)	0.68 (0.48-1.15)*	21.29 (15.08-36.14)	1.71 (1.36-2.39)
	5	3.1 (0.3)	3.1 (0.3)	3.1 (0.4)	0.44 (-0.14-0.80)	0.50 (-0.07-0.83)	0.64 (0.14 – 0.88)	0.54 (0.22 – 0.81)	2.42 (1.71 – 4.10)	2.16 (1.53 – 3.67)	1.63 (1.15 – 2.77)	1.41 (1.13 – 1.98)

Kin = kinematics LAx = left ankle dorsi/plantarflexion, LAy = left foot progression, LAZ = left foot rotation, RAx = right ankle dorsi/plantaflexion, RAY = right foot progression, RAZ = right foot rotation, Sn = session; SD = standard deviation; ICC = intraclass correlation coefficient; CI = confidence interval; TE (stzd) = standardized typical error; LL = lower limit; UL = upper limit.

† < 0.05 vs. Sn. 2; ‡ < 0.05 vs. Sn. 3.

Note: bolded* = raw data used to calculate typical error