Table S1. Dual task walking performance before and after different tDCS followed by treadmill training.

Group	Bilateral tDCS+TT group (n=15)			Cathodal tDCS+TT group (n=15)			Sham tDCS+TT group (n=15)		
	pre	post	*p* [a]	pre	post	*p* [a]	pre	post	*p* [a]
CDTW									
Speed$_{(cm/sec)}$	50.11 (29.35, 74.88)	53.65 (28.58, 75.53)	n.s	39.71 (18.63, 59.48)	49.39 (21.55, 67.10)	<0.001	49.64 (27.00, 60.68)	50.71 (30.73, 69.95)	n.s
Cadence$_{(step/min)}$	76.22 (65.53, 96.63)	78.64 (65.50, 96.95)	n.s	60.87 (38.23, 80.4)	72.18(52.88, 85.10)	0.031	78.49 (58.48, 99.9)	76.24 (57.15, 102.73)	n.s
Step length$_{(A)(cm)}$	40.03 (30.50, 51.53)	43.81 (34.78, 54.01)	n.s	37.67 (30.16,51.49)	38.04 (23.18, 53.08)	n.s	37.92 (29.41, 45.84)	40.76 (30.15, 47.64)	n.s
Step length$_{(UA)(cm)}$	37.24 (27.90, 48.26)	35.17 (23.51, 48.43)	n.s	35.41 (24.71, 50.75)	35.00 (22.36, 43.69)	n.s	32.39 (21.12, 40.68)	34.79 (20.75, 48.85)	n.s
Step time $_{(A)(sec)}$	0.91 (0.67, 1.11)	1.00 (0.68, 1.20)	n.s	1.08 (0.81, 1.54)	0.93 (0.78, 1.31)	n.s	0.99 (0.62, 1.15)	1.11 (0.61, 1.26)	n.s
Step time$_{(UA)(sec)}$	0.77 (0.56, 0.75)	0.69 (0.53, 0.68)	n.s	0.92 (0.66, 1.70)	0.80 (0.62, 0.93)	n.s	0.73 (0.57, 0.73)	0.66 (0.54, 0.77)	n.s
DTC $_{(\%)}$	-17.62 (-24.70, -10.98)	-20.68 (-27.51, -11.73)	n.s	-24.05(-38.76, -6.18)	-23.53 (-37.76, -10.45)	n.s	-16.85 (-23.06, -6.64)	-24.75 (-34.03, -12.65)	n.s
MDTW									
Speed$_{(cm/sec)}$	52.45 (30.75, 78.45)	58.83 (36.68, 89.13)	n.s	47.19 (29.25, 59.30)	56.25 (33.15, 74.48)	0.001	42.78 (25.58, 58.65)	50.44 (30.60, 73.30)	<0.001
Cadence$_{(step/min)}$	76.02 (65.83, 90.53)	79.39 (62.43, 94.80)	n.s	75.26 (64.40, 92.53)	80.53 (71.30, 88.90)	0.007	77.06 (62.33, 99.3)	82.86 (65.20, 104.60)	0.002
Step length $_{(A)(cm)}$	39.96 (29.81, 51.41)	45.48 (35.07, 53.95)	n.s	37.94 (28.11,49.07)	42.01 (25.21, 56.34)	<0.001	35.69 (24.30, 42.46)	38.80 (29.10, 43.55)	<0.001
Step length$_{(UA)(cm)}$	32.68 (21.66, 44.26)	35.74 (24.46, 49.57)	0.007	33.52 (27.64, 43.93)	36.77 (26.08, 48.72)	0.026	28.93 (19.27, 40.51)	30.76 (20.13, 44.77)	0.014
Step time $_{(A)(sec)}$	0.91 (0.74, 1.06)	0.91 (0.64, 1.13)	n.s	0.94 (0.71, 1.06)	0.89 (0.74, 0.95)	0.036	1.05 (0.65, 1.20)	0.98 (0.65, 1.15)	n.s
Step time$_{(UA)(sec)}$	0.66 (0.56, 0.72)	0.64 (0.52, 0.73)	n.s	0.76 (0.61, 0.87)	0.69 (0.60, 0.71)	0.020	0.72 (0.57, 0.79)	0.62 (0.53, 0.73)	0.006
DTC $_{(\%)}$	-16.26 (-26.69, -8.95)	-12.24 (-22.70, -5.06)	n.s	-9.90 (-19.74, 4.98)	-11.37 (-19.17, -0.51)	n.s	-22.03(-31.77, -10.92)	-21.21 (-35.34, -11.94)	n.s

Data are presented as the median (Interquartile range). (The Shapiro-Wilk test was used to determine the values are not normally distributed.)

Abbreviations: CDTW, cognitive dual task walking; DTC, dual task cost; MDTW, motor dual task walking; ST, step time; SL, step length;.

[a] The pairwise comparisons of the GEE analyses with post hoc Bonferroni correction.

Table S2. Walking performance before and after different tDCS followed by treadmill training.

Group	Bilateral tDCS+TT group (n=15)			Cathodal tDCS+TT group (n=15)			Sham tDCS+TT group (n=15)		
	pre	post	*p* [a]	pre	post	*p* [a]	pre	post	*p* [a]
Speed$_{(cm/sec)}$	60.88 (34.40, 92.18)	64.32 (41.08, 94.23)	n.s	53.29 (27.83, 69.18)	63.42 (37.00, 86.75)	<0.001	57.30 (28.60, 67.80)	64.21 (34.93, 86.83)	0.024
Cadence$_{(step/min)}$	86.97(69.55, 102.47)	86.86 (69.20, 104.38)	n.s	78.97 (56.93, 100.10)	86.26(73.98, 101.10)	0.003	87.74 (69.75, 104.28)	89.21(69.13, 111.13)	n.s
Step length$_{(A)(cm)}$	46.20(32.67, 57.62)	46.94 (37.87, 58.04)	n.s	39.03 (26.04, 50.81)	44.44 (28.61, 56.91)	<0.001	43.63 (30.48, 54.43)	44.89 (35.08, 54.18)	n.s
Step length$_{(UA)(cm)}$	39.73(31.02, 49.78)	40.46 (28.03, 52.92)	n.s	36.81 (27.75, 48.95)	39.03(26.04, 50.81)	n.s	35.46 (26.73, 52.66)	37.43(26.73, 52.66)	n.s
Step time $_{(A)(sec)}$	0.88 (0.65, 1.05)	0.92 (0.62, 1.02)	n.s	0.91 (0.67, 1.15)	0.83 (0.64, 0.94)	n.s	0.88 (0.59, 1.04)	0.85 (0.63, 1.00)	n.s
Step time$_{(UA)(sec)}$	0.58 (0.52, 0.63)	0.67 (0.50, 0.69)	n.s	0.74 (0.57, 0.85)	0.65 (0.54, 0.69)	0.004	0.61 (0.50, 0.72)	0.60 (0.50, 0.70)	n.s

Data are presented as the median (Interquartile range). (The Shapiro-Wilk test was used to determine the values are not normally distributed.)

Abbreviations: ST, step time; SL, step length

[a] The pairwise comparisons of the GEE analyses with post hoc Bonferroni correction.

Table S3. Contralesional cortical activity and Fugl Meyer assessment before and after different tDCS followed by treadmill training.

Group	Bilateral tDCS+TT group (n=15)			Cathodal tDCS+TT group (n=15)			Sham tDCS+TT group (n=15)		
	pre	post	*p* [a]	pre	post	*p* [a]	pre	post	*p* [a]
TMS									
RMT (%)	61.00 (60.75, 64.25)	61.30 (60.25, 64.00)	n.s	53.07 (44.00, 56.25)	55.93(52.00, 61.25)	0.012	60.36 (52.25, 66.25)	61.50 (52.25, 68.25)	n.s
MEP (*u*V)	495.57(272.29, 593.46)	394.99(290.05, 524.05)	n.s	664.83(395.51, 896.27)	439.07(233.90, 590.83)	<0.001	413.80(243.92, 543.61)	350.48(185.58, 468.80)	n.s
SICI (%)	53.84 (51.92, 65.98)	46.70 (38.94, 53.57)	n.s	55.42 (42.39, 66.64)	55.86 (46.71, 66.49)	n.s	58.92 (46.72, 71.37)	54.38 (39.52, 64.22)	n.s
SP (ms)	131.68(121.75, 140.01)	135.92 (125.38, 145.65)	n.s	128.51(114.85, 136.02)	137.51(123.40, 147.57)	<0.001	129.50(108.94, 145.22)	130.76(112.38, 147.91)	0.013
FMA-LE	21.43 (19.00, 25.00)	21.86 (19.00, 25.00)	n.s	23.36 (19.75, 27.00)	24.07 (19.75, 28.00)	0.002	24.71 (23.00, 27.25)	24.86 (23.00, 27.25)	n.s

Data are presented as the median (Interquartile range). (The Shapiro-Wilk test was used to determine the values are not normally distributed.)

Abbreviations: FMA-LE, fugl meyer assessment-lower extremity; MEP, motor evoked potentials; RMT, resting motor threshold; SICI, short interval intracortical inhibition; SP, silent period.

[a] The pairwise comparisons of the GEE model analyses with post hoc Bonferroni correction.