Impaired Transmission in the Corticospinal Tract and G
Persons

Journal of Neurophysiology

104, 1167-1176

DOI: 10.1152/jn.00382.2010

Citation Report

#	Article	IF	Citations
1	Childhood development of common drive to a human leg muscle during ankle dorsiflexion and gait. Journal of Physiology, 2010, 588, 4387-4400.	1.3	65
2	Changes in input-output relations in the corticospinal pathway to the lower limb muscles during robot-assisted passive stepping. , 2011, 2011, 4140-4.		1
3	Volitional Muscle Strength in the Legs Predicts Changes in Walking Speed Following Locomotor Training in People With Chronic Spinal Cord Injury. Physical Therapy, 2011, 91, 931-943.	1.1	44
4	Involvement of the corticospinal tract in the control of human gait. Progress in Brain Research, 2011, 192, 181-197.	0.9	76
5	Plasticity of Adult Sensorimotor System. Neural Plasticity, 2012, 2012, 1-2.	1.0	6
6	Plasticity of Corticospinal Neural Control after Locomotor Training in Human Spinal Cord Injury. Neural Plasticity, 2012, 2012, 1-13.	1.0	40
7	Impaired crossed facilitation of the corticospinal pathway after cervical spinal cord injury. Journal of Neurophysiology, 2012, 107, 2901-2911.	0.9	42
8	Spinal Cord Injury: Harnessing Spike Timing to Induce Plastic Change. Current Biology, 2012, 22, R1039-R1040.	1.8	1
9	Motor Recovery after Spinal Cord Injury Enhanced by Strengthening Corticospinal Synaptic Transmission. Current Biology, 2012, 22, 2355-2361.	1.8	181
10	The motor cortex drives the muscles during walking in human subjects. Journal of Physiology, 2012, 590, 2443-2452.	1.3	282
11	Corticospinal reorganization after spinal cord injury. Journal of Physiology, 2012, 590, 3647-3663.	1.3	147
12	Synchronous EMG Activity in the Piper Frequency Band Reveals the Corticospinal Demand of Walking Tasks. Annals of Biomedical Engineering, 2013, 41, 1778-1786.	1.3	31
13	Functional implications of corticospinal tract impairment on gait after spinal cord injury. Spinal Cord, 2013, 51, 852-856.	0.9	15
14	The role of motor-evoked potentials in the management of cervical spondylotic myelopathy. Spine Journal, 2013, 13, 1077-1079.	0.6	18
15	Muscle Coherence during Controlled Voluntary Movement in Healthy Subjects and Patients with Spinal Cord Injury: Contraction and Velocity Dependence. Biosystems and Biorobotics, 2013, , 685-689.	0.2	0
16	Corticospinal Reorganization after Locomotor Training in a Person with Motor Incomplete Paraplegia. BioMed Research International, 2013, 2013, 1-8.	0.9	17
17	Failure of normal development of central drive to ankle dorsiflexors relates to gait deficits in children with cerebral palsy. Journal of Neurophysiology, 2013, 109, 625-639.	0.9	38
18	Facilitation of Corticospinal Connections in Able-bodied People and People With Central Nervous System Disorders Using Eight Interventions. Journal of Clinical Neurophysiology, 2013, 30, 66-78.	0.9	27

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19	Converging Clinical and Engineering Research on Neurorehabilitation. Biosystems and Biorobotics, 2013, , .	0.2	9
20	Reliability and Agreement of Intramuscular Coherence in Tibialis Anterior Muscle. PLoS ONE, 2014, 9, e88428.	1.1	36
21	Gait training reduces ankle joint stiffness and facilitates heel strike in children with Cerebral Palsy. NeuroRehabilitation, 2014, 35, 643-655.	0.5	37
22	Tibialis Anterior muscle coherence during controlled voluntary activation in patients with spinal cord injury: diagnostic potential for muscle strength, gait and spasticity. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 23.	2.4	19
23	Effects of spinal cord injury-induced changes in muscle activation on foot drag in a computational rat ankle model. Journal of Neurophysiology, 2015, 113, 2666-2675.	0.9	3
24	Impaired gait function in adults with cerebral palsy is associated with reduced rapid force generation and increased passive stiffness. Clinical Neurophysiology, 2015, 126, 2320-2329.	0.7	53
25	Gait training facilitates central drive to ankle dorsiflexors in children with cerebral palsy. Brain, 2015, 138, 589-603.	3.7	74
26	Taking the next step: cortical contributions to the control of locomotion. Current Opinion in Neurobiology, 2015, 33, 25-33.	2.0	166
27	Tibialis Anterior electromyographic analysis during fast dorsiflexion: Relationship with recovery of gait, muscle strength and evoked potentials during subacute spinal cord injury. , 2015, , .		1
28	Training with robot-applied resistance in people with motor-incomplete spinal cord injury: Pilot study. Journal of Rehabilitation Research and Development, 2015, 52, 113-130.	1.6	43
29	Spinal cord injury affects I-wave facilitation in human motor cortex. Brain Research Bulletin, 2015, 116, 93-97.	1.4	15
30	Comprehensive assessment of walking function after human spinal cord injury. Progress in Brain Research, 2015, 218, 1-14.	0.9	5
31	Assessment of transmission in specific descending pathways in relation to gait and balance following spinal cord injury. Progress in Brain Research, 2015, 218, 79-101.	0.9	43
32	Restoring Walking after Spinal Cord Injury. Neuroscientist, 2015, 21, 203-215.	2.6	46
33	Descending motor pathways and cortical physiology after spinal cord injury assessed by transcranial magnetic stimulation: a systematic review. Brain Research, 2015, 1619, 139-154.	1.1	31
34	A Review on Locomotor Training after Spinal Cord Injury: Reorganization of Spinal Neuronal Circuits and Recovery of Motor Function. Neural Plasticity, 2016, 2016, 1-20.	1.0	57
35	Emerging Techniques for Assessment of Sensorimotor Impairments after Spinal Cord Injury. , 2016, , .		2
36	Descending neural drives to ankle muscles during gait and their relationships with clinical functions in patients after stroke. Clinical Neurophysiology, 2016, 127, 1512-1520.	0.7	35

#	Article	IF	Citations
37	Measuring human locomotor control using EMG and EEG: Current knowledge, limitations and future considerations. European Journal of Sport Science, 2016, 16, 416-426.	1.4	31
38	Spike-timing-dependent plasticity in lower-limb motoneurons after human spinal cord injury. Journal of Neurophysiology, 2017, 118, 2171-2180.	0.9	72
39	Modulation of corticospinal input to the legs by arm and leg cycling in people with incomplete spinal cord injury. Journal of Neurophysiology, 2017, 118, 2507-2519.	0.9	18
40	Longitudinal estimation of intramuscular Tibialis Anterior coherence during subacute spinal cord injury: relationship with neurophysiological, functional and clinical outcome measures. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 58.	2.4	13
41	Supraspinal Control Predicts Locomotor Function and Forecasts Responsiveness to Training after Spinal Cord Injury. Journal of Neurotrauma, 2017, 34, 1813-1825.	1.7	32
42	Progressive practice promotes motor learning and repeated transient increases in corticospinal excitability across multiple days. Brain Stimulation, 2018, 11, 346-357.	0.7	28
43	Increased central common drive to ankle plantar flexor and dorsiflexor muscles during visually guided gait. Physiological Reports, 2018, 6, e13598.	0.7	33
44	Operant conditioning of the tibialis anterior motor evoked potential in people with and without chronic incomplete spinal cord injury. Journal of Neurophysiology, 2018, 120, 2745-2760.	0.9	6
45	Changes in lower limb muscle synchronisation during walking on highâ€heeled shoes. Healthcare Technology Letters, 2018, 5, 236-238.	1.9	3
46	Impaired Ability to Suppress Excitability of Antagonist Motoneurons at Onset of Dorsiflexion in Adults with Cerebral Palsy. Neural Plasticity, 2018, 2018, 1-11.	1.0	5
47	Operant Up-Conditioning of the Tibialis Anterior Motor-Evoked Potential in Multiple Sclerosis: Feasibility Case Studies. Neural Plasticity, 2018, 2018, 1-10.	1.0	10
48	Age-Related Declines in the Ability to Modulate Common Input to Bilateral and Unilateral Plantar Flexors During Forward Postural Lean. Frontiers in Human Neuroscience, 2018, 12, 254.	1.0	19
49	Modulation of soleus stretch reflexes during walking in people with chronic incomplete spinal cord injury. Experimental Brain Research, 2019, 237, 2461-2479.	0.7	17
50	Increased intramuscular coherence is associated with temporal gait symmetry during split-belt locomotor adaptation. Journal of Neurophysiology, 2019, 122, 1097-1109.	0.9	15
51	Playing Exergames Facilitates Central Drive to the Ankle Dorsiflexors During Gait in Older Adults; a Quasi-Experimental Investigation. Frontiers in Aging Neuroscience, 2019, 11, 263.	1.7	8
52	Contribution of corticospinal drive to ankle plantar flexor muscle activation during gait in adults with cerebral palsy. Experimental Brain Research, 2019, 237, 1457-1467.	0.7	5
53	Corticospinal control of normal and visually guided gait in healthy older and younger adults. Neurobiology of Aging, 2019, 78, 29-41.	1.5	41
54	Bilateral Assessment of the Corticospinal Pathways of the Ankle Muscles Using Navigated Transcranial Magnetic Stimulation. Journal of Visualized Experiments, 2019, , .	0.2	7

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55	Operant conditioning of the motor-evoked potential and locomotion in people with and without chronic incomplete spinal cord injury. Journal of Neurophysiology, 2019, 121, 853-866.	0.9	9
56	Increased EMG intermuscular coherence and reduced signal complexity in Parkinsonâ€™s disease. Clinical Neurophysiology, 2019, 130, 259-269.	0.7	32
57	Gait-synchronized oscillatory brain stimulation modulates common neural drives to ankle muscles in patients after stroke: A pilot study. Neuroscience Research, 2020, 156, 256-264.	1.0	10
58	Gaitâ€combined transcranial alternating current stimulation modulates cortical control of muscle activities during gait. European Journal of Neuroscience, 2020, 52, 4791-4802.	1.2	12
59	The effects of walking training onset on motor evoked potentials after acute spinal cord injury. Neuroscience Letters, 2020, 739, 135338.	1.0	1
60	Smaller muscle mass is associated with increase in EMGâ€“EMG coherence of the leg muscle during unipedal stance in elderly adults. Human Movement Science, 2020, 71, 102614.	0.6	7
61	Disrupted Ankle Control and Spasticity in Persons With Spinal Cord Injury: The Association Between Neurophysiologic Measures and Function. A Scoping Review. Frontiers in Neurology, 2020, 11, 166.	1.1	5
62	Corticospinal Control of Human Locomotion as a New Determinant of Age-Related Sarcopenia: An Exploratory Study. Journal of Clinical Medicine, 2020, 9, 720.	1.0	5
63	A pilot study assessing reliability and ageâ€related differences in corticomuscular and intramuscular coherence in ankle dorsiflexors during walking. Physiological Reports, 2020, 8, e14378.	0.7	14
64	Magnification of visual feedback modulates corticomuscular and intermuscular coherences differently in young and elderly adults. NeuroImage, 2020, 220, 117089.	2.1	15
65	Time-series changes in intramuscular coherence associated with split-belt treadmill adaptation in humans. Experimental Brain Research, 2021, 239, 2127-2139.	0.7	8
66	Muscle network topology analysis for the classification of chronic neck pain based on EMG biomarkers extracted during walking. PLoS ONE, 2021, 16, e0252657.	1.1	11
67	Properties of the surface electromyogram following traumatic spinal cord injury: a scoping review. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 105.	2.4	17
68	Delayed and reduced intralimb muscular coupling during postural reactions in individuals with incomplete spinal cord injury. Gait and Posture, 2021, 88, 84-93.	0.6	1
69	Intramuscular Coherence of the Lower Flexor Muscles during Robotic Ankle-Assisted Gait. Journal of Motor Behavior, 2022, 54, 344-353.	0.5	2
70	Increased intensity of unintended mirror muscle contractions after cervical spinal cord injury is associated with changes in interhemispheric and corticomuscular coherences. Behavioural Brain Research, 2022, 417, 113563.	1.2	1
71	Transcranial Magnetic Stimulation and Spinal Cord Injury. , 2012, , 323-336.		3
72	Transcranial Magnetic Stimulation and Spinal Cord Injury. , 2012, , 323-336.		4

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73	Training with robot-applied resistance in people with motor-incomplete spinal cord injury: Pilot study. Journal of Rehabilitation Research and Development, 2015, 52, 113-130.	1.6	4
74	Different modulation of oscillatory common neural drives to ankle muscles during abrupt and gradual gait adaptations. Experimental Brain Research, 2022, 240, 871-886.	0.7	5
75	Quantitative electrophysiological assessments as predictive markers of lower limb motor recovery after spinal cord injury: a pilot study with an adaptive trial design. Spinal Cord Series and Cases, 2022, 8, 26.	0.3	1
76	Effects of Transcranial Direct Current Stimulation of Bilateral Supplementary Motor Area on the Lower Limb Motor Function in a Stroke Patient with Severe Motor Paralysis: A Case Study. Brain Sciences, 2022, 12, 452.	1.1	1
77	Linking sensorimotor plasticity, the motor cortex, and spinal cord injury. , 2022, , 301-313.		0
78	Effect of 3-Hour Ankle Joint Immobilization with an Ankle Foot Orthosis on Corticospinal Excitability and Ankle Joint Angle Excursion During Gait. SSRN Electronic Journal, 0, , .	0.4	0
79	Modulation of Muscle Synergies in Lower-Limb Muscles Associated With Split-Belt Locomotor Adaptation. Frontiers in Human Neuroscience, 0, 16, .	1.0	2
80	Corticospinal control of a challenging ankle task in incomplete spinal cord injury. Journal of Neurotrauma, 0, , .	1.7	1
81	Intramuscular coherence during challenging walking in incomplete spinal cord injury: Reduced high-frequency coherence reflects impaired supra-spinal control. Frontiers in Human Neuroscience, 0, 16, .	1.0	6
82	Corticospinal Excitability Quantification During a Visually-Guided Precision Walking Task in Humans: Potential for Neurorehabilitation. Neurorehabilitation and Neural Repair, 0, , 154596832211249.	1.4	0
83	Is there frequency-specificity in the motor control of walking? The putative differential role of alpha and beta oscillations. Frontiers in Systems Neuroscience, 0, 16, .	1.2	3
85	Priming locomotor training with transspinal stimulation in people with spinal cord injury: study protocol of a randomized clinical trial. Trials, 2023, 24, .	0.7	1