

Title: Neuromuscular Function of the Ankle Joint Following Lateral Ankle Sprain: What is the difference between a coper and a non-coper? A Systematic Review.

Journal: *Sports Medicine*

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Supplement 1: Search strategy for databases

(a) PubMed

Number	Search items
#1	"Ankle Injuries"[Mesh] OR ankle injury OR ankle sprain OR lateral ankle sprain* OR ankle inversion trauma OR ankle, lateral ligament sprain OR ankle instability OR chronic ankle instability OR ankle, mechanical instability OR ankle, functional instability OR ankle, perceived instability OR ankle, proprioceptive deficits OR ankle, neuromuscular deficits OR ankle, residual symptoms OR ankle, sensorimotor deficits OR ankle, recurrent injury OR ankle, giving way
#2	"Muscle Strength"[Mesh] OR "Electromyography"[Mesh] OR "Reflex, Monosynaptic"[Mesh] OR "H-Reflex"[Mesh] OR "Muscle Contraction"[Mesh] OR Strength ratio OR Muscle activation OR Muscle contraction OR Limb Symmetry Index OR Force steadiness OR EMG OR Electromyogra* OR neurophysiolog* OR neuromuscular OR contraction* OR H-reflex* OR M-wave OR morpholog* OR Pennation angle OR Fiber length OR Fascicle OR physiolog* OR performance OR Torque variability OR voluntar* OR activation OR activity OR inhibition OR function OR dysfunction OR mass OR volume OR composition OR cross-sectional area OR weakness OR atrophy OR power OR reflex* OR myograph* OR excitability OR excitation OR Rate*of*force development OR Stiffness
#3	“coper” OR “non-coper”

(b) Web of Science

Number	Search items
#1	TS= (Ankle Injuries OR ankle injury OR ankle sprain OR lateral ankle sprain* OR ankle inversion trauma OR ankle, lateral ligament sprain OR ankle instability OR chronic ankle instability OR ankle, mechanical instability OR ankle, functional instability OR ankle, perceived instability OR ankle, proprioceptive deficits OR ankle, neuromuscular deficits OR ankle, residual symptoms OR ankle, sensorimotor deficits OR ankle, recurrent injury OR ankle, giving way)
#2	TS=(Muscle Strength OR Electromyography OR Reflex, Monosynaptic OR H-Reflex OR Muscle Contraction OR Strength ratio OR Muscle activation OR Muscle contraction OR Limb Symmetry Index OR Force steadiness OR EMG OR Electromyogra* OR neurophysiolog* OR neuromuscular OR contraction* OR H-reflex* OR M-wave OR morpholog* OR Pennation angle OR Fiber length OR Fascicle OR physiolog* OR performance OR Torque variability OR voluntar* OR activation OR activity OR inhibition OR function OR dysfunction OR mass OR volume OR composition OR cross-sectional area OR weakness OR atrophy OR power OR reflex* OR myograph* OR excitability OR excitation OR Rate*of*force development OR Stiffness)
#3	ALL=(coper OR non-coper)

(c) Embase

Number	Search items
#1	'ankle injuries'/exp OR 'ankle sprain'/exp OR 'ankle instability'/exp OR 'ankle injury':ti,ab,kw OR 'lateral ankle sprain*':ti,ab,kw OR 'ankle inversion trauma':ti,ab,kw OR 'ankle, lateral ligament sprain':ti,ab,kw OR 'chronic ankle instability':ti,ab,kw OR 'ankle, mechanical instability':ti,ab,kw OR 'ankle, functional instability':ti,ab,kw OR 'ankle, perceived instability':ti,ab,kw OR 'ankle, proprioceptive deficits':ti,ab,kw OR 'ankle, neuromuscular deficits':ti,ab,kw OR 'ankle, residual symptoms':ti,ab,kw OR 'ankle, sensorimotor deficits':ti,ab,kw OR 'ankle, recurrent injury':ti,ab,kw OR 'ankle, giving way':ti,ab,kw
#2	'muscle strength'/exp OR 'electromyography'/exp OR 'reflex, monosynaptic'/exp OR 'h reflex'/exp OR 'muscle activation'/exp OR 'emg'/exp OR 'muscle contraction'/exp OR 'limb symmetry index'/exp OR 'force steadiness'/exp OR 'm wave'/exp OR 'pennation angle'/exp OR 'fiber length'/exp OR 'fascicle'/exp OR 'performance'/exp OR 'activation'/exp OR 'activity'/exp OR 'inhibition'/exp OR 'function'/exp OR 'mass'/exp OR 'volume'/exp OR 'weakness'/exp OR 'atrophy'/exp OR 'power'/exp OR 'excitability'/exp OR 'excitation'/exp OR 'stiffness'/exp OR 'strength ratio':ti,ab,kw OR electromyogra*:ti,ab,kw OR neurophysiolog*:ti,ab,kw OR neuromuscular:ti,ab,kw OR contraction*:ti,ab,kw OR 'h reflex*':ti,ab,kw OR morpholog*:ti,ab,kw OR physiolog*:ti,ab,kw OR 'torque variability':ti,ab,kw OR voluntar*:ti,ab,kw OR dysfunction:ti,ab,kw OR composition:ti,ab,kw OR 'cross-sectional area':ti,ab,kw OR reflex*:ti,ab,kw OR myograph*:ti,ab,kw OR 'rate*of*force development':ti,ab,kw
#3	coper OR 'non coper'

(d) SPORTDiscus

Number	Search items
#1	Ankle Injuries OR ankle injury OR ankle sprain OR lateral ankle sprain* OR ankle inversion trauma OR ankle, lateral ligament sprain OR ankle instability OR chronic ankle instability OR ankle, mechanical instability OR ankle, functional instability OR ankle, perceived instability OR ankle, proprioceptive deficits OR ankle, neuromuscular deficits OR ankle, residual symptoms OR ankle, sensorimotor deficits OR ankle, recurrent injury OR ankle, giving way
#2	Muscle Strength OR Electromyography OR Reflex, Monosynaptic OR H-Reflex OR Muscle Contraction OR Strength ratio OR Muscle activation OR Muscle contraction OR Limb Symmetry Index OR Force steadiness OR EMG OR Electromyogra* OR neurophysiolog* OR neuromuscular OR contraction* OR H-reflex* OR M-wave OR morpholog* OR Pennation angle OR Fiber length OR Fascicle OR physiolog* OR performance OR Torque variability OR voluntar* OR activation OR activity OR inhibition OR function OR dysfunction OR mass OR volume OR composition OR cross-sectional area OR weakness OR atrophy OR power OR reflex* OR myograph* OR excitability OR excitation OR Rate*of*force development OR Stiffness
#3	coper OR non-coper
#4	S1 AND S2 AND S3

Search items

(ALL ("coper" OR "non-coper")) AND (TITLE-ABS-KEY ("Muscle Strength" OR "Electromyography" OR "Reflex, Monosynaptic" OR "H-Reflex" OR "Muscle Contraction" OR "Strength ratio" OR "Muscle activation" OR "Muscle contraction" OR "Limb Symmetry Index" OR "Force steadiness" OR "EMG" OR "Electromyogra*" OR "neuropsycholog*" OR "neuromuscular" OR "contraction*" OR "H-reflex*" OR "M-wave" OR "morpholog*" OR "Pennation angle" OR "Fiber length" OR "Fascicle" OR "physiolog*" OR "performance" OR "Torque variability" OR "voluntar*" OR "activation" OR "activity" OR "inhibition" OR "function" OR "dysfunction" OR "mass" OR "volume" OR "composition" OR "cross-sectional area" OR "weakness" OR "atrophy" OR "power" OR "reflex*" OR "myograph*" OR "excitability" OR "excitation" OR "Rate*of*force development" OR "Stiffness")) AND (TITLE-ABS-KEY ("Ankle Injuries" OR "ankle injury" OR "ankle sprain" OR "lateral ankle sprain*" OR "ankle inversion trauma" OR "ankle, lateral ligament sprain" OR "ankle instability" OR "chronic ankle instability" OR "ankle, mechanical instability" OR "ankle, functional instability" OR "ankle, perceived instability" OR "ankle, proprioceptive deficits" OR "ankle, neuromuscular deficits" OR "ankle, residual symptoms" OR "ankle, sensorimotor deficits" OR "ankle, recurrent injury" OR "ankle, giving way"))
