

Corrigendum

Corrigendum to “Spinal and supraspinal control of motor function during maximal eccentric muscle contraction: Effects of resistance training”
[J Sport Health Sci 7 (2018) 282–293]

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This is a corrigendum to the published paper entitled “Spinal and supraspinal control of motor function during maximal eccentric muscle contraction: Effects of resistance training”.¹

On pages 288–9, the paragraph “It has been suggested that a number of these pathways and spinal circuitry inputs affect the expression of ECC muscle strength *in vivo*^{16,17} (cf. the Fig. 5 in Ref. 17). All of these pathways may exhibit adaptive plasticity with training.^{27,99} Thus, evoked V-wave and H-reflex responses recorded during maximal ECC plantar flexor contraction were found to increase (~60% and ~40%, respectively) after a period of HLRT conducted in form of maximal ECC resistance training⁵⁰ (Fig. 8), suggesting that modulations in supraspinal and/or spinal neuronal pathways can indeed be achieved with resistance training to produce substantial gains in maximal ECC muscle strength.”

Should be extended with the following sentence:

“Similar observations recently were reported by Tallent and coworkers, where 4 weeks of ECC training for the ankle dorsiflexors led to 57% increased V-wave amplitudes in the Tibia Anterior (TA) muscle during maximal ECC muscle actions, which was accompanied by a 19% gain in maximal ECC dorsiflexor MVC.”²

References

1. Aagaard P. Spinal and supraspinal control of motor function during maximal eccentric muscle contraction: Effects of resistance training. *J Sport Health Sci* 2018;7:282–93.
2. Tallent J, Goodall S, Gibbon KC, Hortobágyi T, Howatson G. Enhanced corticospinal excitability and volitional drive in response to shortening and lengthening strength training and changes following detraining. *Front Physiol* 2017;8:57. doi:10.3389/fphys.2017.00057.

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