

## Accepted Manuscript

Title: Chronic exertional compartment syndrome in hands successfully treated with botulinum toxin-A: a case

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1 **REHAB-D-17-00172R2**

2 **Chronic exertional compartment syndrome in hands successfully treated with**

3 **botulinum toxin-A: a case**

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24 **Key words.** Chronic exertional compartment syndrome, botulinum toxin; hand;

25 evaluation

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28 **Dear Editor.** We report the case of a 30-year-old right-handed manual worker consulted for

29 anterior bilateral arm pain during motorcycling and strength training. Intramuscular pressure

30 measurement (IMP) during exercise revealed 45- and 49-mmHg pressure in the anterior

31 compartment of the right and left arm, respectively. Treatment with bilateral surgical

32 fasciotomy was successful. One year later, the patient consulted for bilateral hand pain

33 located on both the first dorsal and ventral space between the thumb and index finger. He had

34 stopped strength training, and the pain was present during his job, triggered by minimal

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