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1: [Arch Phys Med Rehabil.](#) 2008 Jul;89(7):1407-9.

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FULL-TEXT ARTICLE

**Intradermal botulinum toxin type A injection effectively reduces residual limb hyperhidrosis in amputees: a case series.**

[Charrow A](#), [DiFazio M](#), [Foster L](#), [Pasquina PF](#), [Tsao JW](#).

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**OBJECTIVE:** To study the effectiveness of botulinum toxin type A (BTX-A) therapy for residual limb hyperhidrosis, prosthesis fit and function, and residual and phantom limb pain in patients with limb amputation. **DESIGN:** Consecutive case series. **SETTING:** Outpatient physical medicine and rehabilitation clinic.

**PARTICIPANTS:** Walter Reed Army Medical Center patients (N=8) with unilateral traumatic upper- or lower-limb amputation. **INTERVENTION:** BTX-A was injected transdermally in a circumferential pattern around the residual limb by using a 1-cm matrix grid. **MAIN OUTCOME MEASURE:** A 10-cm continuous Likert visual analog scale was used to assess residual limb sweating and pain and prosthesis fit and function before and 3 weeks after BTX-A injections. **RESULTS:** Patients reported a significant reduction in sweating and improvement in prosthesis fit and function after treatment. However, residual limb and phantom pain were unaffected by treatment. **CONCLUSIONS:** BTX-A may be an effective treatment for residual limb hyperhidrosis, resulting in subjective improvement in prosthesis fit and functioning. BTX-A should be considered as a method to manage excessive sweating in the residual limb of traumatic amputees.

PMID: 18586144 [PubMed - in process]

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