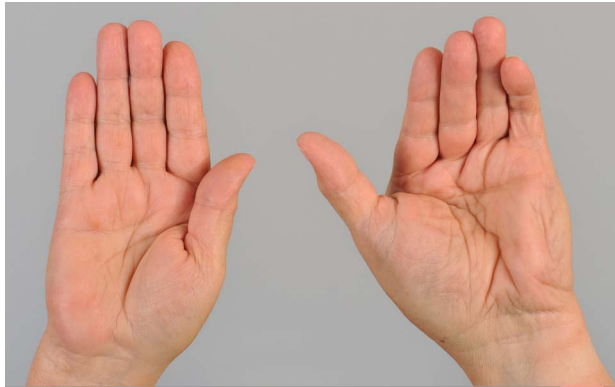


Teaching NeuroImages: Unilateral upper limb muscular hyperplasia

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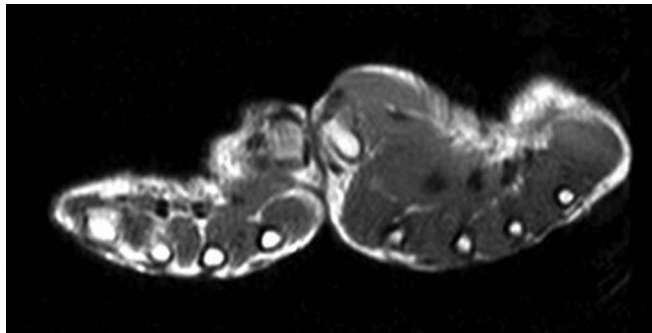
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Figure 1 General hypertrophy and increased muscle bulk of first interosseous muscle and ulnar deviation of digits



Hypertrophy of the left hand with an increased muscle bulk of the first dorsal interosseous muscle and ulnar deviation of digits II to V at the metacarpal joints.

Figure 2 MRI T1-weighted image of both hands



MRI T1-weighted image revealing diffuse enlargement of the muscles of the left hand.

A 64-year-old woman had a painful left hand her entire life. Examination revealed hypertrophy of the left arm and hand with an increased muscle bulk of the first dorsal interosseous muscle and ulnar deviation of digits II to V (figures 1 and 2). Except for large motor unit potentials with a normal interference pattern, EMG was normal. Brain imaging was normal.

Unilateral upper limb muscular hyperplasia is a rare, congenital, nonprogressive phenomenon. It involves the hand, hand and forearm, or the whole upper extremity.^{1,2} The etiology is unknown and not confined to a peripheral nerve, part of the brachial plexus, or nerve root.¹

AUTHOR CONTRIBUTIONS

H.J. Gilhuis: principal author, statistical analysis. M. Rafiee and M.J. Zwarts: coauthors.

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Go to Neurology.org for full disclosures. Funding information and disclosures deemed relevant by the authors, if any, are provided at the end of the article.

STUDY FUNDING

No targeted funding reported.

DISCLOSURE

The authors report no disclosures relevant to the manuscript. Go to Neurology.org for full disclosures.

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Neurology 2013;80:e170-e171

DOI 10.1212/WNL.0b013e31828c2efa

This information is current as of April 8, 2013

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