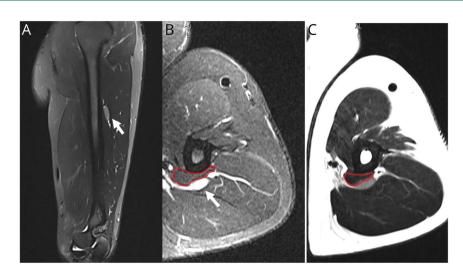
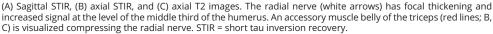
Teaching NeuroImage: Radial Compression Neuropathy Secondary to Accessory Belly of the Triceps Muscle

Pablo Bastias, MD,* Romulo Melo, MD, Jose Manuel Matamala, MD, PhD, Nicholas Earle, MD, and Ignacio Acosta, MD*

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Figure 1 Left Arm MRI Without Contrast





A 43-year-old man presented with 5 months of left hand pain, extensor weakness, and dorsal sensory loss. There was no history of trauma, infection, or exercise-related symptoms. Neurologic examination showed atrophy and weakness (4/5 on the Medical Research Council scale) of the left brachioradialis, wrist, and finger extensor muscles. Sensation to pinprick and touch was reduced over the dorsum of the left hand. Nerve conduction velocity showed a reduction in compound muscle action potential (1.0 mV) and sensory nerve action potential (14 μ V) amplitudes in the left radial nerve. No conduction blocks or focal slowing were recorded. EMG also showed active denervation of the brachioradialis and forearm extensor muscles, sparing the triceps. An axonal radial sensorimotor neuropathy proximal to the brachioradialis muscle was diagnosed. Left arm MRI, ultrasound, and surgical exploration showed an entrapment of the radial nerve in the upper arm due to a triceps accessory muscle belly (Figures 1 and 2). Muscle anatomical variants are an infrequent cause of radial nerve entrapment, and images are crucial to identify this etiology.^{1,2}

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Correspondence Dr. Acosta ignacioacosta@uchile.cl

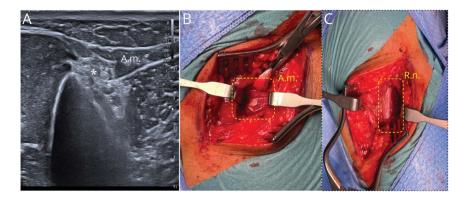
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^{*}These authors contributed equally to this work.

From the Neurology and Translational Neurophysiology Laboratory (NODO Lab) (P.B., J.M.M., I.A.), University of Chile, Medicine Faculty; Hospital Clínico de la Fuerza Aérea de Chile (FACh) (P.B.), General Dr. Raúl Yazigi J.; Neurology and Psychiatry Department (J.M.M, I.A), Clinica Alemana de Santiago de Chile; Departamento Cirugía (R.M), Clínica Alemana, Santiago, Chile; Departamento de Ciencias Neurológicas Oriente (R.M., J.M.M., I.A.), University of Chile; Instituto Milenio de Neurociencia Biomedica (BNI) (J.M.M.), University of Chile; Servicio de Neurocirugía, Instituto de Neurocirugía Dr. Asenjo (R.M); Neurology and Neurosurgery Department (N.E.), Clínica Davila; and Neurology Department (I.A.), Hospital del Salvador, Santiago, Chile.

Figure 2 XXX



Left radial nerve (R.n.) ultrasound (A). The R.n. (asterisk) has increased echogenicity and crosssectional area at the middle third of the humerus; the accessory belly of the triceps muscle (A.m.) is shown. Surgical decompression pre-R.n. release (B) and post-R.n. release (C) confirmed this entrapment etiology.

Author Contributions

P. Bastias: drafting/revision of the manuscript for content, including medical writing for content; major role in the acquisition of data; study concept or design; analysis or interpretation of data. R. Melo: drafting/revision of the manuscript for content, including medical writing for content; analysis or interpretation of data. J.M. Matamala: drafting/revision of the manuscript for content, including medical writing for content; analysis or interpretation of data. N. Earle: drafting/revision of the manuscript for content, including medical writing for content; analysis or interpretation of data. I. Acosta: drafting/revision of the manuscript for content, including medical writing for content; major role in the acquisition of data; study concept or design; analysis or interpretation of data.

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