Anterior tarsal tunnel syndrome: an atypical involvement in primary neural leprosy
Síndrome do túnel do tarso anterior: um comprometimento atípico na hanseníase neural primária

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Anterior tarsal tunnel syndrome is a compressive neuropathy of the deep peroneal nerve in the anterior ankle at the extensor retinaculum. Several factors may be the cause of anterior tarsal tunnel syndrome: trauma, fractures, subluxation, abnormal posture, edema and others, although there is no association with infectious diseases1,2.

We report on a 37-year-old woman, with a family history of leprosy, with positive serological (ELISA anti-PGL 1) and molecular (real-time PCR/qPCR of slit-skin smear) tests, without skin lesions. Electroneuromyography showed a demyelinating sensory-motor deep peroneal nerve impairment in the ankle, with secondary axonal loss. Peripheral sensory nerve biopsy, confirmed by molecular methods, revealed an atypical primary neural leprosy3,4.

Figure. Motor conduction study demonstrating normal parameters in the right peroneal nerve (A), but with a focal myelin impairment of the left peroneal nerve (B) in the anterior ankle (evident prolongation of distal motor latency). A sensory conduction study demonstrated normal parameters on the right deep peroneal nerve (C), but with reduction of the conduction velocity and the amplitude of the sensory action potential on the left deep peroneal nerve (D). Biopsy of the peripheral nerve – sensory branch of the deep peroneal nerve (E). Area of hypoesthesia corresponding with the deep peroneal nerve (F).

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References


