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Entrapment neuropathies in diabetes mellitus

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Abstract

Neuropathy is a common complication of diabetes mellitus with a wide clinical spectrum that encompasses generalized to focal and multifocal forms. Entrapment neuropathies, which are focal forms, are so frequent at any stage of the diabetic disease, that they may be considered a neurophysiological hallmark of peripheral nerve involvement in diabetes mellitus. Indeed, entrapment neuropathies may be the earliest neurophysiological abnormalities in diabetes mellitus, particularly in the upper limbs, even in the absence of a generalized polyneuropathy, or it may be superimposed on a generalized diabetic neuropathy. This remarkable frequency of entrapment neuropathies in diabetes is underlain by a peculiar pathophysiological background. Due to the metabolic alterations consequent to altered glucose metabolism, the peripheral nerves show both functional impairment and structural changes, even in the preclinical stage, making them more prone to entrapment in anatomically constrained channels. This review discusses the most common and relevant entrapment neuropathies encountered in diabetic patient in their epidemiological, pathophysiological and diagnostic features.

Key words: Diabetes mellitus; Neuropathy; Diabetic neuropathy; Median entrapment

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