

Prophylactic and Therapeutic Peroneal Nerve Decompression for Deformity Correction and Lengthening

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Abstract: A review of the literature and the authors' experiences in 100 patients with peroneal nerve entrapment, from a variety of causes, including a 100-cuffing to 70-cuffing, compared to one year. The patients had 1 to 40 years' symptoms, ranging from mild to severe. The symptoms were more severe in patients with entrapment associated with a cast or splint versus surgery, including foot and ankle deformity and the cast-Fry Shoe technique. After surgery, 15 patients had a complete recovery, 40 had partial recovery, 20 had no recovery, and 25 had died. (See also *Foot and Ankle Surgery, 35(1), 1993(2)*.)

Keywords: entrapment; nerve decompression; cast and splint

Peroneal nerve entrapment and cast or splint deformity are common conditions in the foot and ankle region.¹⁻⁴ The peroneal nerve is the most vulnerable nerve in the region of the foot and ankle.⁵ The entrapment can be caused by pressure from a cast or splint, or by an acute or chronic entrapment of the nerve.^{6,7} The entrapment of the nerve from the cast or splint is usually reversible, but the entrapment of the nerve from the cast or splint is usually irreversible.⁸ The entrapment of the nerve from the cast or splint is usually reversible, but the entrapment of the nerve from the cast or splint is usually irreversible.⁸

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Peroneal nerve entrapment from decompression is usually reversible, but the entrapment of the nerve from the cast or splint is usually irreversible.⁸

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