

Wrist drop in an arcade dancing game: Unusual sudden bilateral radial palsy

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Bilateral simultaneous radial palsy is uncommon, and the few cases reported in the literature are due to compressive injuries, such as in the use of axillary crutch or birthing bar during labor. We present a patient who developed a severe bilateral palsy after playing in a dancing simulator machine. The patient's position during the game was a combination of wrist extension, elbow flexion, retroversion of arms and a degree of minor torsion of both upper limbs. This mechanism has not been reported as a cause of neuropathic damage. An underlying neuropathy was suspected, and most acquired causes of neuropathy were excluded. A sequence analysis showed a novel point mutation in NM_000304.3(PMP22):c.83G>A (p.Trp28Ter), an heterozygous pathogenic variant. Hereditary neuropathy with liability to pressure palsies is an autosomal dominant disorder characterized by recurrent painless entrapment neuropathies; no case of bilateral simultaneous radial paralysis has been reported previously.