

# Trampoline injury

Trampolines were responsible for over 6,500 pediatric cervical spine injuries in 1998. This represents a five-fold increase in just 10 years. While most have been minor, [paraplegia](#), [quadriplegia](#) and death are all reported.

Brown and Lee present 2 cases of trampoline-related [cervical spine injury](#) and review the relevant [literature](#). Additionally, they examine the efforts made to reduce the incidence of trampoline injuries, and discuss why these have failed. They conclude that safety [guidelines](#) and warnings are inadequate. In addition, they support [recommendations](#) for a ban on the use of trampolines by children <sup>1)</sup>.

see Severe Trampoline Injuries: Incidence and Risk Factors in Children and Adolescents <sup>2)</sup>.

## Case reports

A 4-year-old boy who presented with neck pain after falling off a trampoline. His neurological examination did not reveal any focal abnormalities, but radiographs were thought to be consistent with a right, C4-C5, unilateral, jumped facet.

Reduction attempts were made with Gardner-Wells tongs and traction. After failure to achieve adequate reduction, evaluations using two-dimensional computed tomography confirmed congenitally absent [cervical pedicles](#). He was treated conservatively and experienced resolution of their presenting symptoms.

The congenital absence of a cervical pedicle is a rare entity that is frequently misdiagnosed. Diagnoses can be accurately confirmed with two-dimensional computed tomography. [Conservative treatment](#) resulted in successful management of this clinical entity <sup>3)</sup>.

<sup>1)</sup>

Brown PG, Lee M. Trampoline injuries of the cervical spine. *Pediatr Neurosurg*. 2000 Apr;32(4):170-5. Review. PubMed PMID: 10940766.

<sup>2)</sup>

Korhonen L, Salokorpi N, Suo-Palosaari M, Pesälä J, Serlo W, Sinikumpu JJ. Severe Trampoline Injuries: Incidence and Risk Factors in Children and Adolescents. *Eur J Pediatr Surg*. 2017 Nov 22. doi: 10.1055/s-0037-1608676. [Epub ahead of print] PubMed PMID: 29166677.

<sup>3)</sup>

Sheehan J, Kaptain G, Sheehan J, Jane J Sr. Congenital absence of a cervical pedicle: report of two cases and review of the literature. *Neurosurgery*. 2000 Dec;47(6):1439-42. Review. PubMed PMID: 11126916.

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