

Item / Citation	Case description
Ng KPL, Doube A. Stroke after neck manipulation in the post partum period. J NZ Med Assoc 2001; 114(1143): 498.	A 34 year old woman, 5 week post-partum with right sided neck pain after delivery. She received a cervical manipulation by a chiropractor and experienced memory loss within 30 minutes which resolved, the following day she had poor coordination of her right hand, difficulty with articulation, and unsteady gait. MRI demonstrated a right cerebellar infarct with a wedge shaped area of increased T2 signal in the right antero-superior cerebellar cortex. She had a full recovery within one month.
Parkin PJ, Wallis WE, Wilson JL. Vertebral artery occlusion following manipulation of the neck. NZ Med J 1978; 88: 441-443.	A 23 year old woman, 2 weeks post-partum with head and neck pain. She saw a physiotherapist and underwent a provocative test followed by vertical traction with lateral head rotation which resulted in vertigo within seconds and discontinuation of the procedure. Upon standing she became ataxic, and had dysarthria, with right sided numbness of the body. Cerebral angiography demonstrated total occlusion of the left vertebral artery, a small right vertebral artery which filled normally, and a large thrombus in the basilar artery. She was discharged after 2 months of moderate improvement with some residual issues with coordination, sensation, and ataxia, as well as left-sided paralysis of the palate and tongue.
Schmitz A, Lutterbey G, von Engelhardt L, von Falkenhausen M, Stoffel M. Pathological cervical fracture after spinal manipulation in a pregnant patient. J Manipulative Physiol Ther 2005; 28(8): 633-636.	A 37 year old woman, 15 weeks pregnant with neck pain. She saw a general medicine practitioner 5 days prior and underwent a single cervical manipulative treatment and paravertebral injections. She had swelling and neck pain five days later and MRI showed a pathological type II odontoid fracture with ventral displacement producing spinal cord compression and paravertebral hematoma, a tumor was identified in the C2 vertebral body. She was discharged without neurological complications and the pregnancy was undisturbed.
Heiner JD. Cervical epidural hematoma after chiropractic spinal manipulation. Am J Emerg Med 2009; 27: 1023.e1-1023.e2.	A 38 year old woman, 29 weeks pregnant with low back pain. She received a cervical manipulation from a chiropractor and experienced numbness and pain in the neck and arms during the treatment followed by several seconds of transient upper extremity paralysis and lower extremity numbness. MRI showed a right sided epidural hematoma with associated mass effect on the spinal cord. She was discharged 2 weeks later with minimal residual paresthesias along the posterior aspect of the neck.