

Vertebral artery groove

The vertebral arteries on 12 sides of 6 adult pate cadaverous specimens were dissected. The distance between [vertebral artery](#) (VA) and VA groove at the [atlas](#) needling point of transpedicle screw, and the distance between VA and the inner edge of axis cervical foramen, and the VA external diameter in axis cervical foramen were measured respectively.

The distance between VA and VA groove was (1.96 ± 0.72) mm on the left and (1.99 ± 0.61) mm on the right at the atlas needling point of transpedicle screw, the distance between VA and the inner edge of axis cervical foramen was (2.23 ± 0.43) mm on the left and (2.30 ± 0.39) mm on the right, the VA external diameter in axis cervical foramen was (3.03 ± 0.48) mm on the left and (2.98 ± 0.75) mm on the right.

It is unlikely to injury VA when the transpedicle screws of upper cervical vertebrae were implanted correctly besides high straddled VA, and the individualization must be performed in the process ¹⁾.

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Wu XG, Huang J, Jiang YQ, Guo WK, Wang J. [Anatomical study on vertebral artety and its application in transpedicle screw fixation for upper cervical vetebrae]. Zhongguo Gu Shang. 2014 Sep;27(9):772-4. Chinese. PubMed PMID: 25571662.

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