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Abstract

Cervical pedicle screw provides multiple benefits to the posterior cervical fixation, that is the strength of load and better control on the field of coronal, sagittal, and rotational because of the three-column fixation. However, cervical pedicle screw installation can cause neurological and vascular complications. This Descriptive study with a sample of 30 people was aimed to calculate the meanscore of cervical pedicle angle toward the midline and the end plate inferior in normal asymptomatic adults using MSCT atlas laboratory Radiology MSCT Graha Amerta Dr. Soetomo Hospital Surabaya in February-June 2010. Among 19 men and 11 women, obtained mean score of cervical pedicle angle to the midline of men is 43.11° to 45.84° on the right side, 43.32° to 45.94° on the left side, and 43.11° to 45.94° overall. In women, the value is 44.66° to 48.54° on the right side, 45.03° to 48.56° on the left side, and 45.03° to 48.56° overall. Mean score of cervical pedicle angle to the end plate inferior on men is 12.47° to 15° on the right side, 11.36° to 14.10° on the left side, and 11.3° to 15° overall. While women at 11.48° to 15.03° on the right side, 11.28° to 15.17° on the left side and 11.28° to 15.17° overall. Cervical pedicle diameter in men ranging from 4.85 mm (SD ± 0.62) to 6.17 mm (SD ± 0.67), in women 4.08 mm (SD ± 0.75) to 5.69 mm (SD ± 0.69). There are differences in cervical pedicle angle to the midline and end plate inferior between men and women. (FMI 2014;50:58-62)

Keyword : Normal, asymptomatic, adults, cervical, Pedicle, angle, to, midline, cervical, Pedicle, angle, to, end, plate, inferior,

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