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## Morphometric study of foramen magnum, an anatomical study

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**Objective:** The aim of the present study was to determine the antero-posterior and transverse diameters of foramen magnum in Nepalese population.

**Methods:** The present study included 35 dried cadaver skulls from the Department of Anatomy of the Manipal Teaching Hospital at Pokhara, Nepal. The variables collected were anteroposterior diameter, transverse diameter and foramen magnum index. Descriptive statistics and testing of hypothesis were used for the analysis. Data was analyzed using EPI INFO and SPSS 16 software.

**Results:** The mean measurements of anteroposterior diameter were 3.28cm, transverse diameter was 2.86cms and the foramen magnum index was 1.15. There was a relationship between anteroposterior and transverse diameters ( $r=0.645$ ,  $p=0.0001$ ).

**Conclusion:** We believe that the present study has provided the important morphometric data about the foramen magnum. These data have the neurosurgical implications as the lateral approaches have often been utilized to operate on lesions anterior to the medulla oblongata or lesions of the vertebral artery.

### Biography

Teresa Joy is currently pursuing her PhD at the Manipal University. She has published more than 10 papers in indexed reputed journals.

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