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## Dimensions of the hypopharyngeal pyriform sinus in South Indian cadavers

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The morphometric data of the dimensions of the pyriform fossa are not available in the literature. The data may be enlightening during the preparation of the endoscopic instruments. The objective of the present study was to determine the dimensions of the pyriform sinus in the South Indian population. The present study included 44 sagittal sections of the cadaveric necks (25 left sided and 19 right sided). Forty four pyriform sinuses were macroscopically observed and the morphometry was performed. The superoinferior diameter, mediolateral diameter and the anteroposterior diameter were measured in all the pyriform sinuses. The data was represented as mean±SD. The statistical analysis was performed between the right and left sides by using the paired 't' test. In the present study, the mean superoinferior, mediolateral and the anteroposterior diameters of the right pyriform sinus were 25±5.5 mms, 14.1±3.4 mms and 12.3±4.2 mms respectively. The same parameters were 24±6.1 mms, 15.3±5.3 mms and 13.4±3.2 mms for the left sided pyriform sinus. There was no statistically significant difference observed between any of the parameters of the right and left sides (paired t test, p<0.05). The dimensions of the pyriform sinus are required to the anaesthesiologist and the otorhinolaryngologist. The organic particle like the fish bones and chicken bones gets entrapped within the pyriform sinus while swallowing the food. This may cause dysphagia and will require endoscopic removal of the foreign body. It will help the biomedical engineering and research. The data will be enlightening during the preparation of the flexible fibre optic endoscopic instruments.

### Biography

B V Murlimanju has completed his MD from Manipal University. He is an Assistant Professor in the Department of Anatomy. He has published more than 75 papers in reputed journals and has been serving as an Editorial Board Member of reputed.

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