

PRESENTATION 3

A descriptive study to analyse the length of ureter in Sri Lankan adult patients

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Introduction

A knowledge about the length of ureters helps in guiding the selection of optimal length of Double J stents, and hence minimize the stent-related morbidity. The average ureteric length of Sri Lankan adults has not been studied previously.

Objective

To identify the average length of ureter of adult Sri Lankan patients and its variability with size and gender.

Methods

Ninety five (95) consecutively performed CT urograms from 15 July to 30 September 2016 were collected. The ureters with pathology, previously operated ureters and non opacified ureters were

excluded. Subsequently, 67 right ureters and 76 left ureters were analysed. The actual length (real length of ureter) and linear length (length of a straight line from pelviureteric junction to vesicoureteric junction) were measured using the RadiAnt DICOM Viewer 3.2.3. Calculations were made with simple statistical formulae.

Results

Out of 67 right ureters analysed, 44 (65.6%) were of males and out of 76 left ureters 53 (69.7%) were of males. The average actual length of right ureter was 22.1cm (range 17.2 - 26) and linear length was 20.9cm (range 16.7 - 25). For left ureter, the average actual length was 22.6cm (range 18 - 26) and average linear length was 21.2cm (range 16.4-25.7). On analysing on gender basis, for females, the average actual length of right ureter was 21.9cm and for left was 22.9cm. For males, average actual length of right ureter was 22.3cm and for left was 22.4cm.

Conclusion

The average actual length of ureter of Sri Lankan adult patient is 22.1cm on the right side and 22.6cm on the left.