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## The sonographic measurement of renal dimensions and its correlation with anthropometric variables in apparently healthy adults in Abakaliki

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A prospective observational study was conducted in Ebonyi State University Abakaliki. Renal dimensions were sonographically measured in (640 males and 520 females), between 18 and 36 years of age. The anthropometric variables that included age, weight, height, were measured with body mass index (BMI) calculated. The means of right kidney length and left kidney length were  $10.4 \pm 0.7$  cm and  $10.9 \pm 0.7$  cm respectively. Also the means of right kidney with and left kidney width were  $4.4 \pm 0.4$  cm and  $4.7 \pm 0.3$  cm respectively. It also shows a means age of  $21.8 \pm 2.6$  years, mean height of  $169.2 \pm 8.5$ , mean weight of  $62.1 \pm 10.2$  kg, the means body mass index (BMI) of  $21.7 \pm 3.4$  kg/m<sup>2</sup>. It was generally observed that there was a significant difference between the right and left kidney dimensions. The left kidney was longer and wider than the right kidney. There was a significant positive correlation between height and weight. There was also a significant positive correlation between age, body mass index (BMI) and renal dimensions, but with the exception of left kidney width where there was no correlation. The left kidney is significantly longer and wider than the right kidney and the kidneys in males are longer and wider than the kidneys in females. There was a significant positive correlation between renal dimensions and anthropometric variables, but with the exception of age and body mass index (BMI), that have no correlation with the left kidney width.

### Biography

Eteudo A N is currently acting as Head of the Department of Anatomy, Faculty of Medicine of Ebonyi State University in Nigeria, West Africa. He is also Adjunct Lecturer and External Examiner to several medical schools within the country. He has a PhD degree in Anatomy and has over 30 papers in reputed journals and more than 25 conference papers presented. He is member of Society of Experimental and Clinical Anatomy of Nigeria, Anatomical Society of West Africa and Association of Medical Education in Europe. His area of research is sonographic anatomy, forensic and physical anthropology.

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