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Determining the Accuracy of Urine Volume Calculations made by Stationary 2D B-Mode Ultrasonography

By Muhammad Shoyab

GRIN Verlag GmbH Feb 2015, 2015. Taschenbuch. Book Condition: Neu. 211x149x10 mm. Neuware - Research Paper from the year 2014 in the subject Medicine - Radiology, Nuclear Medicine, grade: A, , language: English, abstract: This study was the first of its kind in that it fills the gap in the scientific data created by the absence of any investigation making a direct comparison between 2D-sonographic and true urine volumes. While most hospitals in the developed world now prefer to measure urine volumes with portable bladder scanners and 3D ultrasound devices, none of these technology are widely available in Bangladesh and other developing countries. Nonetheless, hundreds to thousands of ultrasound examinations involving the measurement of maximum cystometric capacity (MCC) and postvoid residue (PVR) of urinary bladder are done with 2D stationary ultrasound every day. Despite our clinical experience that these measurements are quite accurate and reliable, it was deemed essential to establish scientific evidence in its favour. This observational study was done in the Dept of Radiology & Imaging at Bangabandhu Sheikh Mujib Medical University (BSMMU), Dhaka, Bangladesh, during the period July - December 2014. 384 adult patients who came to BSMMU for ultrasound examinations were enrolled in this study and...



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