

AB048. SOH22ABS078. Compliance with guidelines for laboratory examinations in patients with renal colic

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Background: Urolithiasis is a cause of significant morbidity despite technological and scientific advances. Besides imaging, each emergency patient with urolithiasis needs a biochemical work-up of urine and blood test. Metabolic screening is a simple way of identifying underlying pathologies, such as hypercalcaemic conditions in primary hyperparathyroidism or sarcoidosis, which can be treated to prevent recurrence of renal or ureteric stones. Aim was to assess the compliance to existing European Association of Urology (EAU) guidelines on performing blood tests for the biochemical profile in patients with renal or ureteric stone in a tertiary care university teaching hospital.

Methods: This retrospective study included patients presented with confirmed renal or ureteric stone during the month of September 2021. Data were collected from the urology handover sheets and iLAB system. Data included calcium, uric acid, urea and electrolytes, C-reactive protein, full blood count.

Results: Nineteen patients during the month of September 2021, were admitted with confirmed renal or ureteric stone. Most of the patients had their calcium level checked. However only 3 patients out of 19 patients were evaluated with full biochemical screen including uric acid levels as per the EAU guideline.

Conclusions: Biochemical laboratory screening in patients with renal stones is essential for the management and prevention of stone recurrences. Our study showed that there is certainly room for significant improvement with regard to biochemical screening in patients with renal and ureteric stone.

Keywords: Biochemical profile; health care; urolithiasis; prevention of recurrence; uric acid

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Footnote

Conflicts of Interest: The authors have no conflicts of interest to declare.

Ethical Statement: The authors are accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

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