

Urolithiasis Visits and Trends

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Background: Urolithiasis is the third most frequent urological disease in the world, affecting both males and females. It is one of the most common conditions encountered in Emergency Departments (ED) worldwide.

Objective: To evaluate the frequency of visits and hospital admissions related to urolithiasis.

Design: A Retrospective Review.

Setting: Emergency Department, King Hamad University Hospital, Bahrain.

Result: Four hundred eighty-six patients were diagnosed for the first time with urolithiasis. The mean number of the patients is 40.5 per month; the highest was 70 (14.4%) patients in May 2014 and the lowest was 23 (4.7%) patients in December 2014. Four hundred four (83.1%) males were diagnosed with urolithiasis. There was almost no difference between the number of Bahraini patients and non-Bahraini patients, 237 (48.8%) and 249 (51.2%) respectively.

The age group frequently affected are those between 20 to 49 years. The majority of the stones were located in the ureter and/or in the kidney. Two hundred thirty-six (48.6%) patients had ureteric stones, and 109 (22.4%) patients had kidney stones. One hundred twenty (24.7%) patients had both kidney and ureteric stones. Thirteen 13 (2.7%) patients had stones in the bladder and 3 (0.6%) patients in the urethra. Two (0.4%) patients had stones in the bladder and the kidney. Three (0.6%) patients had stones in the bladder and ureter.

Conclusion: This study is the first to address urolithiasis incidence in emergency department and trends of hospitalization. Further multicentric studies investigating contributing factors and prevalence of urolithiasis are needed.

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