

Fifth Paper

Title: Prevalence of Idiopathic Hypercalciuria in Children with Urinary System Related Symptoms Attending our University Hospital in 2019.

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Abstract:

Introduction: Idiopathic hypercalciuria is a group of diseases which can be manifested with urinary symptoms. Its importance is due to high prevalence, recurrent infections, and stone formations which are often asymptomatic. Aim of the study: The objective of this study was to determine the prevalence of idiopathic hypercalciuria in children with urinary system related symptoms attending Pediatric Nephrology Clinic & General Pediatric Clinic at Fayoum University Hospital from June to December 2019. Methods: This descriptive cross-sectional study was done in 2019 at Fayoum University Hospital on 206 children who were between 2 to 12 years old. Random morning urine samples were collected from all patients for measurement of Calcium/Creatinine levels. $UCa/Cr \geq 0.20$ mg/mg has been used as an accepted cutoff value for screening children of 3 yr or more with hypercalciuria. Results: We studied 206 children. IH was found in 32 out of 206 studied children (15.5%). The prevalence of idiopathic hypercalciuria was 46.9% in children with urinary tract infection, 12.5% and 6.3% in children with microscopic and macroscopic hematuria respectively. In children with dysuria, there were 90.6%, and 34.4%, in children with kidney stone which was confirmed with sonography, 0% in children with urinary incontinence.

Conclusion: Hypercalciuria can be presented with different symptoms associated with urinary symptoms. Therefore, it is recommended to check the urinary calcium level in children with urinary symptoms with no definite etiology.

Keywords: idiopathic hypercalciuria, Urinary symptoms

Children Running Title: Prevalence of Idiopathic Hypercalciuria in Children with Urinary System Related Symptoms Attending our University Hospital in 2019.