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Title: Clinical study of vesical calculus in and around Gulbarga district

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Background and Objectives: Men have suffered from stones in the urinary tract even before the urinary tract was defined. Geographical variations in the incidence and pattern of urolithiasis are well known. There is a steady decrease in the incidence of calculus in the developed countries. Due to lack of health awareness, health infrastructure and research facilities in underdeveloped area, the incidence of bladder calculi continues to be high. In this context, this study entitled ‘Clinical Study of Vesical Calculus in and Around Gulbarga District’ was undertaken to determine the clinical profile, biochemical and radiological parameters, chemical composition of calculi and different modalities of management of bladder calculi with following objectivesl. 1. To study the etiology for vesical calculi. 2. To study the different clinical presentation of vesical calculi. 3. To study the various modalities of management in vesical calculi.

Methods: A one year prospective study was undertaken from July 2003 to June 2004 in Surgical Units of Basaveshwar Teaching & General Hospital and Government General Hospital, Gulbarga. 42 cases of vesical calculus were studied in the present study. **Results:** Incidence of vesical calculus was 0.94% for total surgical admissions. 57.14% were in the age group of 10 years. The male to female ratio was 6:1. 80.95% were from rural population. 57.14% were illiterate.

Abstract: Majority i.e., 47.61% were in socioeconomic class-III and least 4.76% each were in socioeconomic class-I and V. 71.42% presented with history of pain abdomen and 30.95% presented with 1-3 months duration of symptoms. Borewell water was consumed by 52.38% of patients and 69.04% were malnourished. Klebsiella was the most commonest organism isolated from urine culture. 92.85% were having solitary calculi and 7.14% were having multiple calculi in the bladder. 90.47% were treated with open suprapubic cystolithotomy and complication was observed in 19.04% of cases. No

complications were observed following percutaneous cystolitholapaxy. Most of the calculi were mixed variety i.e., 92.1% and commonest composition being calcium phosphate, calcium oxalate and uric acid. Conclusion: Vesical calculi was commonly observed in pediatric age group from rural population. Pain abdomen was the commonest mode of presentation. Patients consuming borewell water was more prone for vesical calculi due to increased amount of calcium salts within the water. Ultrasonography detected all cases of vesical calculus. Majority of cases underwent SPCL alone. PCL and TUCL are preferred approaches. Most of the calculi were of mixed variety. The commonest composition being calcium phosphate, calcium oxalate and uric acid.

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