

Deduction

To my parents who supported
me in my live

To my brothers and sisters

To my friends

To those help me in my way

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ABSTRACT

This prospective study was done during the period March to May 2010. It determine the chemical composition of the urinary stones, which was removed surgically from urinary system of **fourty** patients, males and females, their ages between 20-70 years, attended Ibnsina Hospital (Khartoum state). Blood samples were collected from those patients before surgical operation for determination of serum calcium aric acid levels.

Serum calcium and urate were found to be normal according to normal of national health, in all patients in this study (mean, \pm SD: 8.5 ± 0.4 and 5.5 ± 0.3 mg/dL) respectively.

Most of the stone removed from kidneys were found to be small in size (less than 1 cm diameter) those removed from the ureter were found to be (less than 2cm), while most of those removed from the urinary bladder were large in size (diameter more than 2cm).

It was concluded that most of the urinary stone contain mainly calcium and uric acid in association with normal level of serum calcium and urate. Urinary stone are more common in male compare to female.

Most of the urinary stones were found in the 20-40 age group compared to other age group

مستخلص الدراسة

اجريت هذه الدراسة التوقيعية خلال الفترة من مارس حتى مايو عام 2010م حيث تم التحليل الكيميائي لمكونات الحساوي البولية التي أزيلت جراحياً من الجهاز البولي لـ 40 مريض بمستشفى ابن سينا بالخرطوم .

ايضاً أخذت عينات دم من هؤلاء المرضى لمعرفة مستوى كل من الكالسيوم وملح الحامض البولي .

كان الغرض من هذه الدراسة هو تحليل مكونات الحساوي البولية والتي تشمل الكالسيوم ، الأكسلات ، الفوسفات الكربونات ، الحاض البولي ، الماغنيزيوم والسستين.

وجد أن الحساوي البولية تتفاوت في أحجامها حيث أن معظم الحساوي التي أزيلت من الكلى كانت صغيرة الحجم وقطرها أقل من 1سم والتي أزيلت من الحالب كانت صغيرة ومتوسطة الحجم قطرها 1-2 سم بينما التي أزيلت من المثانة البولية كانت معظمها كبيرة الحجم قطرها أكبر من 2 سم).كم وجد ان مستوى كل من الكالسيوم وحمض اليوريك بمستوي طبيعي في الدم.

خلصت هذه الدراسة الى أن الحساوي البولية ، تحتوي غالباً على الكالسيوم والأكسلات والحامض البولي في وجود مستوى طبيعي للكالسيوم وملح الحامض البولي في الدم وأنها أكثر عند الرجال من النساء وأن أغلب الحساوي في الفئة العمرية بين 20-40 عام .

ABBREVIATION

1.25 DHCC	1.25 Dihydroxy Coli Calci Ferol
ATP	Adensine Tri Phosphate
DNA	Dioxyribo Nucleic Acid
GFR	Glomerular Filtration Rate
PTH	Para Thyroid Hormon

PTH. RP	Para Thyroid Hormon Related Protein
RNA	Ribo Nucleic Acid
RTA	Renal Tubular Acidosis
SD	Standard Deviation

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