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*Basic Study*

Urinary supersaturation as a diagnostic measure in urolithiasis

Otakar Söhnel, Felix Grases

**ABSTRACT**

**AIM:** The objective of this paper is to demonstrate that urinary supersaturation per se is not a reliable diagnostic measure of the risk for stone formation.

**METHODS:** Available physical and chemical data for calcium oxalate monohydrate (COM) and calcium hydrogen phosphate dihydrate (brushite, BRU), and urinary supersaturations with respect to COM and BRU in healthy individuals and stone formers, were obtained from the literature. Classical theory of nucleation was used

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Renal calculi are formed when the **urine** is **supersaturated** with salt and minerals such as ...  
Epidemiology; Presentation; Examination; Differential **diagnosis** .... thus reduces pain, buying time until a more definitive **measure** can be undertaken.

## Diagnostic examination of the child with urolithiasis or nephrocalcinosis

<https://www.ncbi.nlm.nih.gov> › NCBI › Literature › PubMed Central (PMC)

by B Hoppe - 2010 - Cited by 120 - Related articles

Dec 23, 2008 - **Diagnostic** steps in **urolithiasis** (UTI urinary tract infection, CT computed .... **Measurement** of stone size is less reproducible by ultrasound than by .... (preferably 24 h) **urine** collection for a full **supersaturation** profile [25, 26].

## Medical evaluation and management of urolithiasis

<https://www.ncbi.nlm.nih.gov> › NCBI › Literature › PubMed Central (PMC)

by MJ Semins - 2010 - Cited by 16 - Related articles

Blood screening **tests** should be a routine component of the **diagnostic** .... **Urinary supersaturation** is a **measure** of the likelihood of stone-forming salts to form a ...

## Biochemical evaluation in renal stone disease

<https://www.ncbi.nlm.nih.gov> › NCBI › Literature › PubMed Central (PMC)

by C Vitale - 2008 - Cited by 2 - Related articles

Renal stone disease may ensue from either derangements of urine ... in order to assess **urinary supersaturation** with stone forming salts and evaluate the excretion ... **diagnosis** of peculiar diseases: serum oxalate and glycolate, urine glycolate and ... **tests** (hereditary **nephrolithiasis**); acidification **tests** (renal tubular acidosis).

## Kidney stone disease - Wikipedia

[https://en.wikipedia.org/wiki/Kidney\\_stone\\_disease](https://en.wikipedia.org/wiki/Kidney_stone_disease) ▾

**Kidney stone** disease, also known as **urolithiasis**, is when a solid piece of material (**kidney stone**) occurs



Urinary supersaturation as a diagnostic measure in urolithiasis



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### Clinical Review: Kidney Stones 2012: Pathogenesis, Diagnosis, and ...

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作者: K Sakhaee - 2012 - 被引用次数: 105 - 相关文章

2012年3月30日 - Kidney Stones 2012: Pathogenesis, Diagnosis, and Management ..... The utility of urinary supersaturation measurement as a surrogate of ...

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作者: MJ Semins - 2010 - 被引用次数: 18 - 相关文章

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## Current medical treatment in pediatric urolithiasis

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作者: Y Akin - 2013 - 被引用次数: 1 - 相关文章

After the diagnosis, detailed metabolic evaluation is required. ... and concentration of insoluble substances in urine, and their supersaturation can be decreased.

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2015年6月4日 - Renal calculi are formed when the urine is supersaturated with salt and minerals ...

Epidemiology; Presentation; Examination; Differential diagnosis .... Stick testing of urine for red cells (suggestive of urolithiasis), white cells ...