

PP-045

Renal stone analysis: Why and how? Recent concepts

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Introduction: There is heterogeneity of criteria on the utility urinary stone analysis as well as on which is the most suitable methodology.¹⁻² The paper presents the analysis of the stones using Integrated analysis based on combination of stereoscopic microscopy and Infra-red spectrometry. The purpose of Integrated Stone analysis is to get correct information of Stone composition which can guide management and give information which can prevent more stone formation.

Methods: There are many techniques available to analyze renal stone: chemical analysis, electron microscopy, x-ray diffraction, stereoscopic microscopy and infra-red spectrometry.³ The presentation shows comparison, usefulness of latest analysis techniques like its predictive value to know metabolic abnormality.

Results and Conclusion: Advantages and disadvantages of various and latest techniques presented. The Integrated analysis method of stone analysis gives most accurate results and thus provides most information than other techniques. Thus by giving more clinical information, it guides clinicians to take adequate measures to prevent recurrence.

References:

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2. Henderson MJ. Stone analysis is not useful in the routine Investigation of renal stone disease. *Ann clin Biochem.* 1995;32:109-11.
3. Louis C Herring & Co. USA; Integrated Approach to Kidney Stone analysis

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