Urinary Stone Composition in the United States: Data of 98,043 Urinary Stone Analyses MP03-07

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Urinary Stone Composition in the United States

Introduction

- •Urolithiasis is a common urologic disease
- •Estimated incidence of 13% in the U.S.
- •Lack of large-scale data on urinary stone composition in the United States.

Objective

•To present characteristics of urinary stone composition, stratified by age and geographic region in the U.S.

Methods

- Integrative crystallography used for compositional analyses
- Period of study = 38 months (07/2016 - 09/2019)
- Stones containing >90% of a chemical were classified as purely made of that composition



■ COD ■ COM ■ Mixed

Age groups (years)

P<0.01 Chi- square test

■ Artifact ■ Drugs ■ Protein ■ Uric Acid ■ COD ■ COM ■ CP ■ Cystine

GEOGRAPHIC LOCATION BY AUA SECTION

Mixed Other