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Observational Study

Quantification of uric acid in vasculature of patients with gout using dual-energy computed tomography

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Abstract

BACKGROUND

Gout, caused by hyperuricemia and subsequent deposition of aggregated monosodium urate crystals (MSU) in the joints or extra-articular regions, is the most common inflammatory arthritis. There is increasing evidence that gout is an

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Cited by: 29

Author: A. Kirstin Bacani, Cynthia H McCollough,...

Publish Year: 2012

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Oct 01, 2009 - Objective: To evaluate the potential utility of a dual energy CT (DECT) scan in assessing urate deposits among patients with tophaceous gout, and obtain computerised quantification of tophus volume in peripheral joints. Methods: 20 consecutive patients with tophaceous gout and 10 control patients with other arthritic conditions were included.

Cited by: 258

Author: Hyon K Choi, Abdullatif Al-Arfaj, Arash Ef...

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Barazani S, Chi W, Pyzik R, Jacobi A, Donnell TO, Fayad Z: Detection of Uric Acid Crystals in the Vasculature of Patients with Gout Using Dual-Energy Computed Tomography.1-3. [Google Scholar] ...

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Oct 24, 2018 - Dual-Energy Computed Tomography (DECT) is a new technology that has been used to detect subclinical monosodium urate (MSU) deposition in the joints of patients with gout. In this study, we investigated whether DECT could also detect MSU deposition in the vasculature of patients with gout.

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[Uric acid quantification in fingernail of gout patients ...](#)

<https://onlinelibrary.wiley.com/doi/abs/10.1002/bmc.3687>

The presence of elevated **uric acid** (UA) levels is a sign of **gout**, that is, hyperuricemia. In this study the monitoring of the UA levels in less-invasive biological samples, such as the human fingernail, is suggested for the diagnosis and therapy of **gout**. Twenty-six healthy volunteers (HV) and 22 **gout patients** (GP) were studied.

Cited by: 3 **Author:** Xi-Ling Li, Qing Shi, Wenlong Jin, Gao Li,...

Publish Year: 2016

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<https://www.ncbi.nlm.nih.gov/pubmed/30334984>

Detection **of uric acid** crystal deposition by ultrasonography and **dual-energy computed tomography**: A cross-sectional study in **patients** with clinically diagnosed **gout**. Wang Y(1), Deng X(1), Xu Y(2), Ji L(1), Zhang Z(1). Author information: (1)Department of Rheumatology and Clinical Immunology.

Cited by: 4 **Author:** Yu Wang, Xuerong Deng, Yufeng Xu, Lan...

Publish Year: 2018

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Gout is characterized by deposition of uric acid crystals (monosodium urate) in tissues and fluids. This can cause acute inflammatory arthritis. The 2015 ACR/EULAR criteria for the diagnosis of gout include dual **energy computed tomography (DECT)-demonstrated monosodium urate crystals as a new criterion**.

Cited by: 1 **Author:** Heidi Dahl Christensen, Hussam Mahmo...