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Manuscript Type: ORIGINAL ARTICLE

Observational Study

Inactive Matrix Gla protein is elevated in patients with inflammatory bowel disease

Brnic D *et al.* MGP in patients with IBD

Darko Brnic, Dinko Martinovic, Piero Marin Zivkovic, Daria Tokic, Marino Vilovic, Doris Rusic, Ivana Tadin Hadjina, Christian Libers, Sandro Glumac, Daniela Supe-Domic, Ante Tonkic, Josko Bozic

Abstract

BACKGROUND

Matrix Gla protein (MGP) is a vitamin K dependent peptide which has an established

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Oct 06, 2009 · Although many factors may influence the occurrence and progression of this condition, the fact that 20% to 40% of the **patients** in most CKD cohorts (8–10) do not develop detectable **VC** (despite exposure to well-known environmental triggers, such as uremia, **diabetes**, and hyperphosphatemia) suggests that naturally occurring **VC inhibitors** have an important role in preventing this disease process. **Matrix Gla protein (MGP)**...

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Oct 06, 2009 · Background and objectives: Vitamin K-dependent matrix Gla protein (MGP) acts as a calcification inhibitor in vitro and in vivo. The present study was performed to (1) determine plasma levels of the inactive, dephosphorylated, uncarboxylated MGP (dp-ucMGP) in a cohort of patients at different stages of chronic kidney disease (CKD) and (2) evaluate the association between dp-ucMGP levels on ...

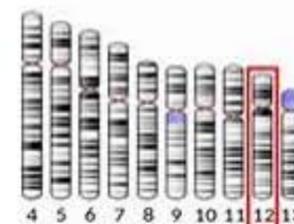
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Matrix Gla Protein



Matrix Gla protein (MGP) is member of a family of vitamin-K2 dependent, Gla-containing proteins. MGP has a high affinity binding to calcium ions, similar to other Gla-containing proteins. The protein acts as an inhibitor of vascular mineralization and plays a role in bone organization.

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Furthermore, its **inactive**, **inactive matrix Gla protein** (dp-ucMGP) is considered to be a direct marker of vitamin K levels and could be associated with increased arterial stiffness and cardiovascular risk in general [25, 26]. According to the mentioned reports, MGP could have an ...

Author: Marino Vilovic, Zoran Dogas, Tina Tici... **Publish Year:** 2019

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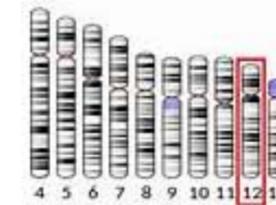
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