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Basic Study

Plasma MMP-2 and MMP-7 Levels are elevated for 1 mo after surgery and may promote growth of residual metastases

Plasma MMP2 and MMP7

Abstract

BACKGROUND

Matrix Metalloproteinase -2(MMP-2) also known as Gelatinase A and MMP-7 (matrilysin) are members of the zinc-dependent family of matrix metalloproteinases. MMP-2 and MMP-7 are remodeling enzymes that digest extracellular matrix; MMP2 is extensively expressed during development and is upregulated at sites of tissue damage, inflammation, and in stromal cells of metastatic tumors. MMP-7 is expressed in the

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Conclusion: **Plasma MMP-2 levels** are significantly **elevated** from baseline for over 4 weeks **after** CRC MICR. The etiology of these changes is unclear, however, surgical trauma-associated inflammation **may** account for the early increase whereas tissue remodeling associated with wound healing likely accounts for the mid and late postop elevations.

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This study found **elevated levels** of **plasma** MCP-1, a protein with proangiogenic effects, before and **for 1 mo after surgery**. Collectively, the sustained elevations in blood **levels** of the above mentioned group of proangiogenic proteins **may** support metastasis formation and the **growth of residual** tumors.

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