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*Basic Study*

Plasma chitinase 3-like 1 is persistently elevated during first month after minimally invasive colorectal cancer resection

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**Abstract**

AIM: To assess blood chitinase 3-like 1 (CHI3L1) levels for 2 mo after minimally invasive colorectal resection (MICR) for colorectal cancer (CRC).

Method: CRC Patients in an Institutional review Board approved data/plasma bank who underwent elective MICR for whom Preoperative (PreOp), early postoperative (postop) and 1 or more late postop samples (POD 7-27) available were included. Plasma CHI3L1 levels (ng/ml) were determined in duplicate by ELISA.

Results: PreOp and Postop plasma sample were available for 80 MICR cancer patients for the study. The median PreOp CHI3L1 level was 56.8 CI 41.9- 78.6 ng/ml (n=80). Significantly elevated (p&lt;0.001) median plasma levels (ng/ml) over PreOp levels were detected on POD1 (667.7 CI: 495.7, 771.7; n=79), POD 3 (132.6 CI: 95.5, 173.7 ; n=76),

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