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Oncologic impact of postoperative delta-neutrophil index in pancreatic cancer**Sung Hwan Lee**

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Background: Major cancer surgery can cause surgical stress and disturbs the immune system. The oncologic impact of perioperative immune disturbance is not yet known.

Methods: From December 2009 to December 2013, totally 154 patients who underwent pancreatic resection for pancreatic ductal adenocarcinoma were enrolled into this study. Perioperative leukocyte and lymphocyte counts assessed by an automated blood cell analyzer were obtained from institutional database. Clinicopathologic factors and survival data were identified from medical record.

Results: Immature granulocytes counted by delta neutrophil index (DNI) were significantly correlated with oncologic outcomes after curative resection of pancreatic ductal adenocarcinoma. The highest value, elevation period, and bimodality of DNI value were statistically significant predictive factors for cancer recurrence after pancreatic resection.

Conclusions: Postoperative DNI predicts the tumor recurrence after resection of pancreatic cancer. Well-designed clinical and translational researches for perioperative immune disturbance are mandatory for revealing crucial concepts for tumor immunology in veiled therapeutic viewpoint.

Biography

Sung Hwan Lee is a Clinical & Research Fellow in Department of Surgery, Yonsei University College of Medicine, Republic of Korea. His Academic Interests include Hepatobiliary and pancreatic surgery / Surgical oncology for pancreatic cancer / Molecular Imaging by two-photon microscopy Pancreatic cancer microenvironment / Cancer metabolism

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