

Inflammation marker related to obesity is elevated in patients with pancreatic cancer

February 3 2010

The levels of an inflammatory chemokine were significantly elevated in patients with pancreatic cancer who were extremely obese, according to research conducted by scientists at the Jefferson Pancreatic, Biliary and Related Cancers Center. They presented their data at the 5th Annual Academic Surgical Congress, held in San Antonio.

Studies have shown that obesity is correlated with [inflammation](#). Similarly, studies have also shown that inflammation contributes to the [tumor progression](#) of pancreatic ductal adenocarcinoma (PDA). This study looks at the role of monocyte chemoattractant protein-1 (MCP-1), a marker of inflammation, in [obese patients](#) with pancreatic cancer.

Hwyda Arafat, M.D., Ph.D., associate professor of Surgery at Jefferson Medical College of Thomas Jefferson University, and colleagues sought to identify whether MCP-1 could serve as a marker for pancreatic cancer, and a differentiation marker between benign and malignant lesions.

The research team analyzed the MCP-1 levels in serum samples obtained from patients with confirmed PDA or intraductal papillary mucinous neoplasms (IPMN). They found that the levels of MCP-1 were significantly elevated in extremely obese patients. In the less obese population (BMI

"MCP-1 has potential as a [biomarker](#) for pancreatic cancer, but this needs to be confirmed in a larger sample size," Dr. Arafat said. "Further

study of this protein in a larger sample size and different benign and unresectable [malignant lesions](#) is needed. Understanding the nature of the relationship of its elevation with age and the highest levels of obesity will assist with the full development of the potential clinical usage of this marker."

Provided by Thomas Jefferson University

Citation: Inflammation marker related to obesity is elevated in patients with pancreatic cancer (2010, February 3) retrieved 28 April 2024 from

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