



The detection of telomerase activity in the differential diagnosis of pancreatic mass

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Abstract

This research builds on the known role of telomerase activity in cancerogenesis, and we use it to determine the effectiveness of telomerase activity to differentially diagnosis a pancreatic mass. We show that the detection of telomerase activity in pancreatic mass tissue provides early evidence of a cancerous process that requires a well-timed surgical treatment.

Eighty-eight patients with pancreatic mass (both benign and malignant) were involved in the research. Comparative analyses of the data and instrumental methods to define the histological structure of tumor mass and measure telomerase activity have been carried out.

Intense telomerase activity (+++) in the tissue of pancreatic mass determines cancer with high accuracy. 100% of patients with pancreatic cancer had high telomerase activity. In 32,4% of patients with average telomerase activity (++) pancreatic cancer was diagnosed. The average telomerase activity (++) in pancreatic tumors gives an early indication of pancreatic cancer and requires dynamic observation for six to 12 months. Low telomerase activity (+) in patients with benign tumors is an accurate sign for confirming a diagnosis

This method will improve the quality of diagnosis and treatment for patients with pancreatic tumors. .

Biography

Ksenia Russkova is 20 years old student from Sechenov University, Moscow, Russia. She has a publication in journal which is indexed in Scopus database with CiteScore 2.47. She takes part in scientific conferences at University, she is interested in science, gastroenterology especially.



Publications

1. Telomerase activity in the differential diagnosis of pancreatic mass
2. Increases in Autoantibody Level Associated with Degenerative Changes in the Intestinal Mucosa in Liver Cirrhosis

3rd International Conference on Gastroenterology and Digestive Disorders,
Italy, Rome, February 24-25, 2020

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