



Cirugía y Cirujanos

ISSN: 0009-7411

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Academia Mexicana de Cirugía, A.C.

México

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Evaluación de los niveles de amilasa y lipasa posterior a la realización de biopsia por
aspiración con aguja fina guiada por ultrasonido endoscópico en lesiones del páncreas

Cirugía y Cirujanos, vol. 85, núm. 5, septiembre-octubre, 2017, pp. 387-392

Academia Mexicana de Cirugía, A.C.

Distrito Federal, México

Available in: <http://www.redalyc.org/articulo.oa?id=66253342003>

Abstract

Background: Puncture biopsy and fine needle aspiration guided by endoscopic ultrasound has been used as an effective technique and is quickly becoming the procedure of choice for diagnosis and staging in patients suspected of having pancreatic cancer. This procedure has replaced retrograde cholangiopancreatography and brush cytology due to its higher sensitivity for diagnosis, and lower risk of complications. **Objective:** To assess the levels of pancreatic enzymes amylase and lipase, after the puncture biopsy and fine needle aspiration guided by endoscopic ultrasound in pancreatic lesions and the frequency of post-puncture acute pancreatitis. **Material and methods:** A longitudinal and descriptive study of consecutive cases was performed on outpatients submitted to puncture biopsy and fine needle aspiration guided by endoscopic ultrasound in pancreatic lesions. Levels of pancreatic enzymes such as amylase and lipase were measured before and after the pancreatic puncture. Finally we documented post-puncture pancreatitis cases. **Results:** A total of 100 patients who had been diagnosed with solid and cystic lesions were included in the study. Significant elevation was found at twice the reference value for lipase in 5 cases (5%) and for amylase in 2 cases (2%), none had clinical symptoms of acute pancreatitis. Eight (8%) of patients presented with mild nonspecific pain with no enzyme elevation compatible with pancreatitis. **Conclusion:** Pancreatic biopsy needle aspiration guided by endoscopic ultrasound was associated with a low rate of elevated pancreatic enzymes and there were no cases of post-puncture pancreatitis.

Keywords

Pancreatic enzymes, Fine needle aspiration biopsy, Endoscopic ultrasound.

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