



Pancreatic Adenocarcinoma in the Setting of Autoimmune Pancreatitis Heather M. Ross BS<sup>1</sup>, Natalia Salinas Parra BS<sup>1</sup>, Sarah L. Chen BA<sup>1</sup>, Kevan Josloff BS<sup>1</sup>, Alexis Gerber MD<sup>2</sup>, Adnan Khan DO<sup>2</sup> <sup>1</sup>Sidney Kimmel Medical College at Thomas Jefferson University, Philadelphia, PA <sup>2</sup>Department of Internal Medicine, Thomas Jefferson University Hospital, Philadelphia, PA

## Introduction

- Autoimmune pancreatitis (AIP) accounts for 2% of pancreatitis cases and is characterized by chronic pancreas inflammation of autoimmune etiology.
- Two types of AIP are recognized. Type 1 AIP is an IgG4-related disease which often affects multiple organs. Type 2 AIP is IgG4-negative and affects mainly the pancreas with a third of patients exhibiting additional manifestations. • The chronic inflammatory nature of AIP may be
- associated with higher rates of pancreatic cancer as compared to chronic pancreatitis of other etiologies.
- This case report demonstrates a new diagnosis of pancreatic cancer thought to be secondary to Type 2 AIP.

# Table 1

## Pathology Report

Fine Needle Biopsy #1	Negative for maligna Reactive ductal epit cells. Mature appear lymphocytes and pla compatible with lym origin.
Fine Needle Biopsy #2	Positive for malignar Consistent with well differentiated pance ductal adenocarcino Clusters of neoplasti epithelial cells with pleomorphism noted

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# ncy.

reatic ma. moderate

## **Case Description**

- A 35-year-old female with a past medical history of diverticulitis and chronic pancreatitis of suspected autoimmune etiology presented to the hospital with persistent abdominal pain.
- An abdominal ultrasound demonstrated a hypoechoic pancreas with focal dilation of the main pancreatic duct. IgG4 was within normal limits. An endoscopic ultrasound (EUS)/endoscopic retrograde cholangiopancreatography (ERCP) with fine needle biopsy demonstrated signs of pancreatic inflammation and pancreatic duct dilation. Biopsy was negative for malignancy. She was discharged on oxycodone and gabapentin.
- She was subsequently readmitted without resolution of abdominal pain. On readmission, a CT abdomen/pelvis demonstrated a hypoenhancing infiltrating lesion in the pancreatic head and uncinate process measuring 2.8 x 2.7 cm with vascular involvement. Ca-19.9 was within normal limits. EUS/ERCP with fine needle biopsy demonstrated hypoechoic expansion of the pancreas head with pancreatic duct dilation. Biopsy was positive for pancreatic ductal adenocarcinoma determined to be stage III and unresectable.
- Treatment with Gemcitabine/Abraxane was initiated for three cycles and is currently on hold due to chemotherapy induced side effects at six month follow up.

# Discussion

- cancer with positive biopsy.
- pancreatic cancer.
- pre-malignant potential of AIP.

AIP and pancreatic cancer have similar presentations and must be clinically distinguished for appropriate treatment.

• There are many case reports of misdiagnosed pancreatic cancer later determined to be AIP by negative biopsy. However, there are few reported cases of AIP associated pancreatic

AIP is a chronic state of pancreas inflammation which may represent a pre-malignant process. This case demonstrates a patient with Type 2 AIP and negative biopsy who subsequently developed biopsy proven pancreatic cancer. Patients with Type 2 AIP may require close follow up for early detection of AIP induced

• Further investigation is needed to determine the