

BSGIE ANNUAL MEETING 2015

How to distinguish on pancreatic EUS malignancy from benign AIP



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EGEUS
European Group
for
Endoscopic
Ultrasonography

UK EUS Users
The UK EUS Users Group

Endorsed by
 ESGE

6th European EUS Congress

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Sheraton Hotel, Edinburgh, Scotland, UK



Local Organisers: Colin McKay [UK], Ian Penman [UK]

To register: www.maximillionevents.co.uk/egeus2015

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2 TYPES OF AIP

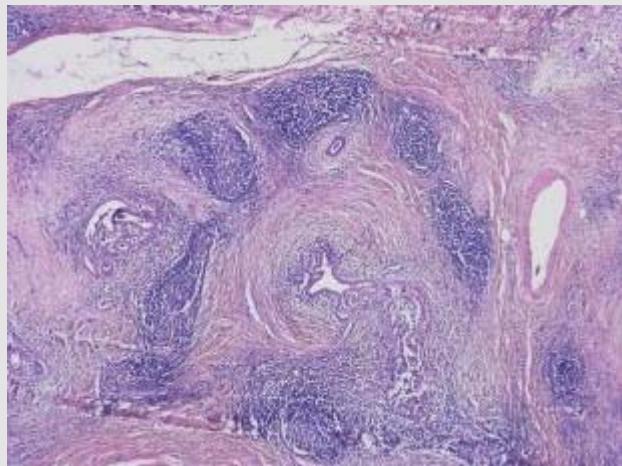
Type I AIP (Asian / American)	Type II AIP (Italian)
<ul style="list-style-type: none">Lymphoplasmocytic sclerosing pancreatitis LPSP	<ul style="list-style-type: none">Idiopathic duct-centric pancreatitis IDCP
<ul style="list-style-type: none">Older men	<ul style="list-style-type: none">♂ = ♀, younger (a decade)
<ul style="list-style-type: none">Pancreatic manifestation of IgG4- associated systemic disease	<ul style="list-style-type: none">no or minimal tissue infiltration with IgG4 + cells
<ul style="list-style-type: none">↑ IgG4	<ul style="list-style-type: none">no ↑ IgG4
<ul style="list-style-type: none">Multiple organs involved	<ul style="list-style-type: none">Only associated with IBD (in 30%)

Suguman, Am J GE 2009; 104: 2308-2311

AIP TYPES

Type I AIP (Asian / American)

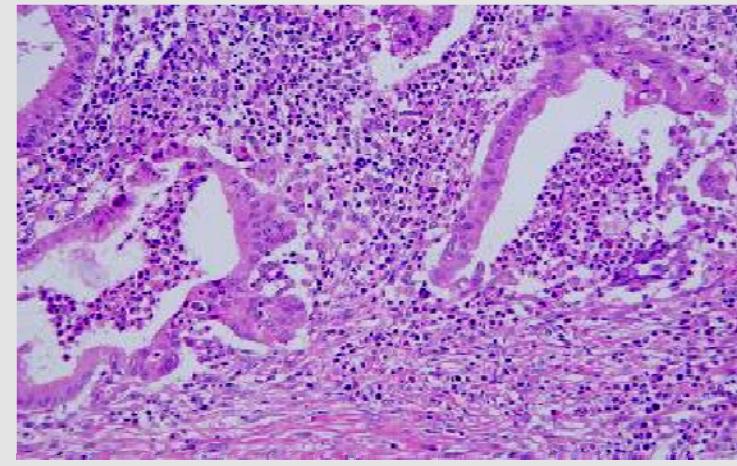
- Lymphoplasmocytic sclerosing pancreatitis
 - Periductal inflammation
 - Ductal obstruction / destruction
 - Fibrosis / acinar tissue atrophy



Type II AIP (Italian)

- Idiopathic duct-centric pancreatitis

Granulocyte epithelial lesions in the pancreas



Suguman, Am J GE 2009; 104: 2308-2311

DIFFERENCES IN CLINICAL PROFILE AND RELAPSE RATE OF TYPE 1 VERSUS TYPE 2 AUTOIMMUNE PANCREATITIS

	Type 1 AIP	Type 2 AIP	
• Age (y)	62 ± 14	48 ± 19	p<0.0001
• ↑ IgG4	47 / 59 (80%)	1 / 6 (17%)	p=0.004
• Other organs involved (proximal biliary, salivary, retroperitoneal, renal)	60%	0%	p<0.0001
• IBD associated	6%	16%	p=0.37
• FU (m)	42	29	
• Relapse	47%	0%	

Predictors of relapse:

- proximal biliary involvement
- diffuse pancreatic swelling
- DPC

HR = 2.13
HR = 2.00
HR = 0.15

Diagnostic Criteria

- Pancreatic parenchyma imaging
- Pancreatic duct appearance
- Serology
- Extrapancreatic lesion
- Histopathological aspects
- Exclusion of biliary and pancreatic malignant lesions
- Improvement by steroid therapy

DIAGNOSIS OF AIP

Criterion	Level 1	Level 2
Parenchymal imaging	Typical: diffuse enlargement with delayed enhancement (sometimes associated with rim-like enhancement)	Indeterminate (including atypical): segmental/focal enlargement with delayed enhancement
Ductal imaging (ERP)	Long (>1/3 length of the main pancreatic duct) or multiple strictures without marked upstream dilatation	Segmental/focal narrowing without marked upstream dilatation (duct size, <5 mm)
Serology	IgG4, >2x_upper limit of normal value	IgG4, 1–2x_upper limit of normal value
Other organ involvement (OOI)	<p>a or b</p> <p>a. Histology of extrapancreatic organs</p> <p>Any three of the following:</p> <ul style="list-style-type: none"> (1) Marked lymphoplasmacytic infiltration with fibrosis and without granulocytic infiltration (2) Storiform fibrosis granulocytic infiltration (3) Obliterative phlebitis (4) Abundant (> 10 cells/HPF) IgG4-positive cells <p>b. Typical radiological evidence</p> <p>At least one of the following:</p> <ul style="list-style-type: none"> (1) Segmental/multiple proximal (hilar/intrahepatic) or proximal and distal bile duct stricture (2) Retroperitoneal fibrosis 	<p>a or b</p> <p>a. Histology of extrapancreatic organs including endoscopic biopsy of bile duct</p> <p>Both of the following:</p> <ul style="list-style-type: none"> (1) Marked lymphoplasmacytic infiltration with fibrosis without granulocytic infiltration (2) Abundant (>10 cells/HPF) IgG4-positive cells <p>b. Physical or radiological evidence</p> <p>At least one of the following:</p> <ul style="list-style-type: none"> (1) Symmetrically enlarged salivary/lacrimal glands (2) Radiological evidence of renal involvement described in association with AIP <p>LPSP (core biopsy)</p> <p>Any 2 of the following:</p> <ul style="list-style-type: none"> (1) Periductal lymphoplasmacytic infiltrate without granulocytic infiltration (2) Obliterative phlebitis (3) Storiform fibrosis (4) Abundant (>10 cells/HPF) IgG4-positive cells
Histology of the pancreas	<p>LPSP (core biopsy/resection)</p> <p>At least 3 of the following:</p> <ul style="list-style-type: none"> (1) Periductal lymphoplasmacytic infiltrate without granulocytic infiltration (2) Obliterative phlebitis (3) Storiform fibrosis (4) Abundant (>10 cells/HPF) IgG4-positive cells 	<p>LPSP (core biopsy)</p> <p>Any 2 of the following:</p> <ul style="list-style-type: none"> (1) Periductal lymphoplasmacytic infiltrate without granulocytic infiltration (2) Obliterative phlebitis (3) Storiform fibrosis (4) Abundant (>10 cells/HPF) IgG4-positive cells

Diagnostic steroid trial. Response to steroid (Rt) Rapid (e2 wk) radiologically demonstrable resolution or marked improvement in pancreatic/extrapancreatic manifestations.