

July 29th, 2025

## Autoimmune Pancreatitis (AIP): Understanding Types, Diagnosis & Treatment Options



Dr. Yasmin Hernandez-Barco



Katharine Provencher, MSW

# About Mission: Cure

Mission: Cure is a nonprofit founded in 2017 for & by patients to find treatments & improve the lives of people suffering from pancreatitis.



Awarded grant  
from  
Chan-Zuckerberg  
Initiative Science  
for high-potential  
patient-led rare  
disease  
organizations



Actively working  
with 6  
pharma/biotech  
companies & 8  
academic  
medical centers  
on drug  
development for  
chronic  
pancreatitis



Bringing new  
funding from  
impact  
investors to  
therapeutic  
development  
projects



Megan & Eric



Linda & Amy

# Agenda

Mission:Cure

**Pancreatitis Natural History**

Dr. Yasmin Hernandez-Barco

**AIP Types, Diagnosis Considerations**

Dr. Yasmin Hernandez-Barco

**Treatments, Ongoing Management**

Dr. Yasmin Hernandez-Barco

**Patient Advocacy, IgG4-RD**

Katharine Provencher

**Q & A Session**

Linda Martin

**Closing**

Olivia Zeiden

# Autoimmune Pancreatitis (AIP)

1. Understand AIP, its subtypes (Types 1, 2, & 3) & why accurate classification matters
2. Connection to IgG4-Related Disease (IgG4-RD)
3. Diagnostic criteria & challenges
4. Latest treatment options to support informed care decisions
5. Monitoring & treating complications



# Understanding Autoimmune Pancreatitis (AIP)



**Dr. Yasmin Genevieve Hernandez-Barco**

Medical Pancreatologist, Physician-Scientist,  
Director of Pancreatitis Treatment Centre  
Assistant Professor, Harvard Medical School



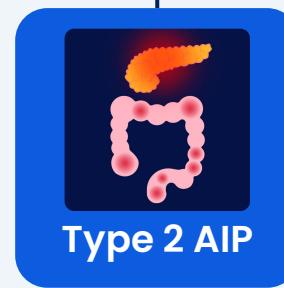
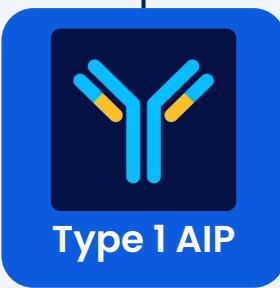
# Autoimmune Pancreatitis (AIP)

Mission:Cure

A rare & chronic form of recurrent acute & chronic pancreatitis (CP)

Body's immune system mistakenly attacks the pancreas: ~ 2-5% of all CP cases from AIP

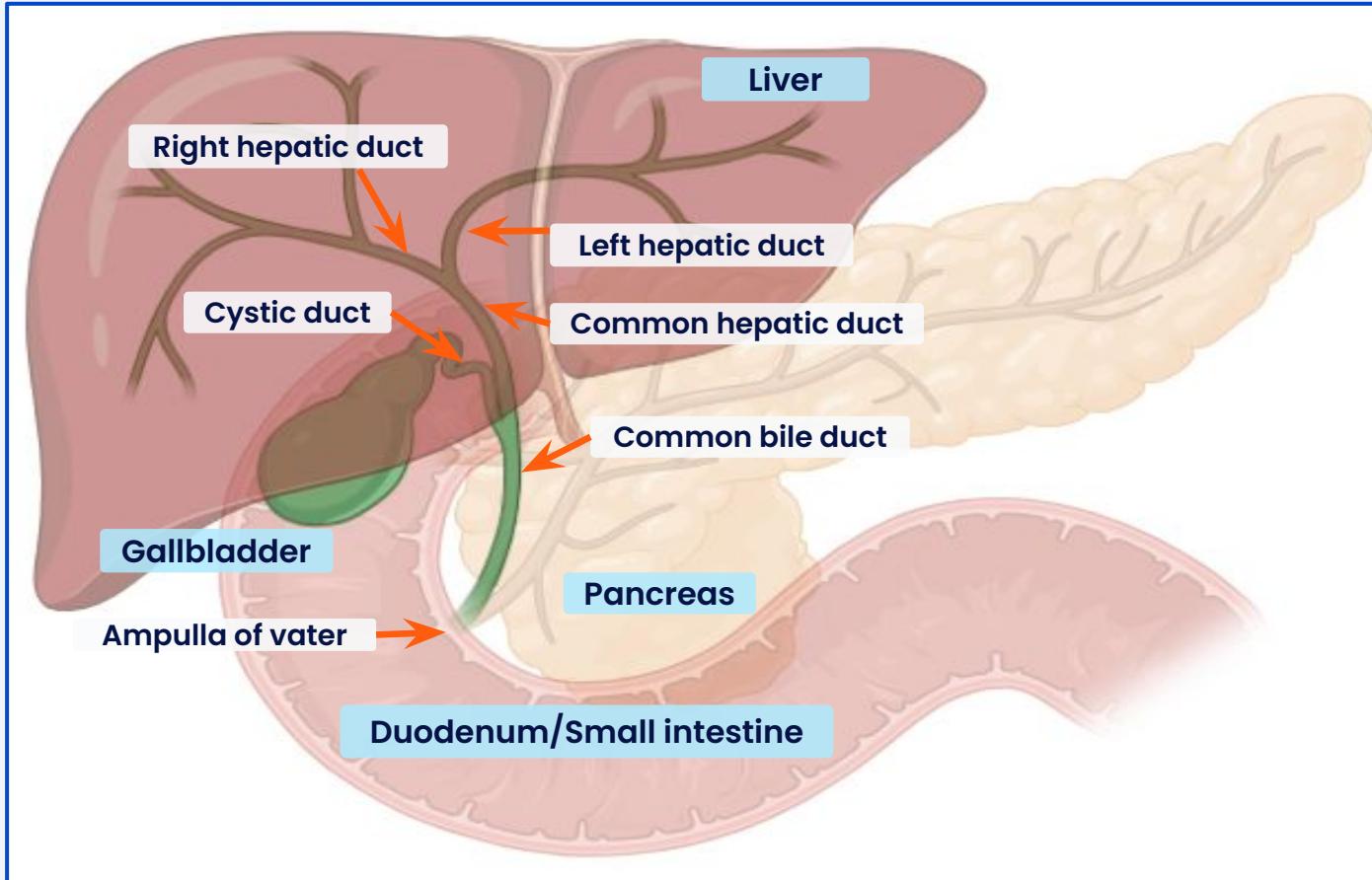
## Types of AIP



- IgG4-Related Disorder
- IgG4-Sclerosing Cholangitis (IgG4-SC / ISC) or IgG4- related cholangitis (IRC)
- Lymphoplasmacytic sclerosing pancreatitis
- Idiopathic Duct Centric Chronic Pancreatitis (IDCP)
- Immune-checkpoint inhibitor pancreatic injury or pancreatitis (ICI- Pancreatic Injury)

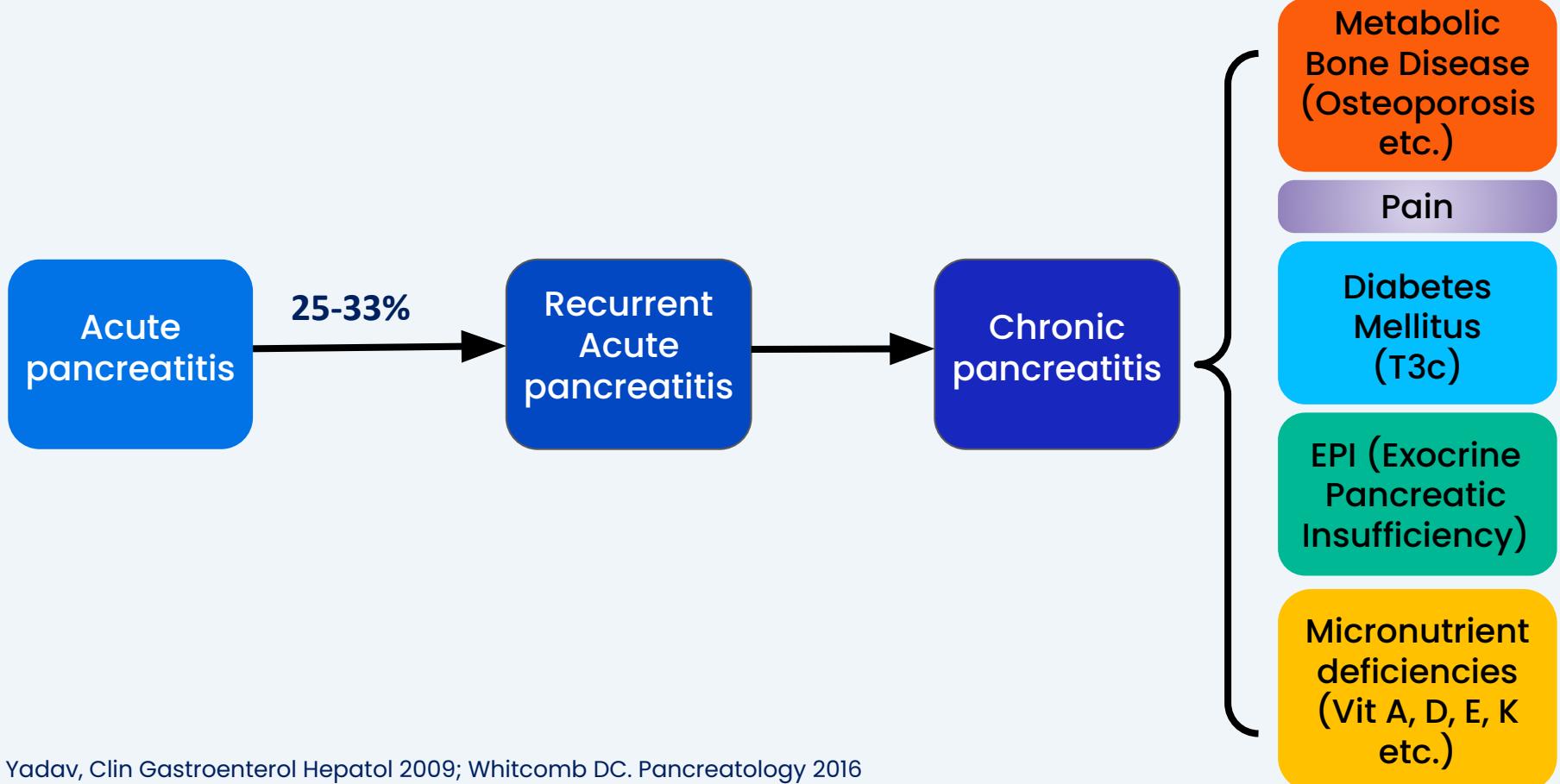
# Anatomy of Pancreas & Bile Ducts

Mission:Cure



# Natural History of Pancreatitis

Mission:Cure



# Why Cause Matters

## TIGAR-O- Risk Factor Classification

### TOXIC-METABOLIC



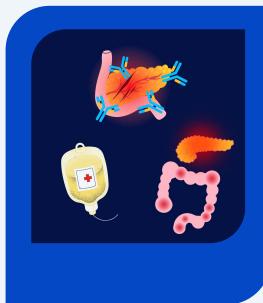
### IDIOPATHIC



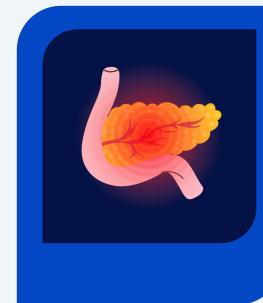
### GENETIC



### AUTOIMMUNE



### RECURRENT & SEVERE ACUTE



### OBSTRUCTIVE



Avoid Toxins- No smoking/alcohol, Control Triglycerides/ Calcium/Others

Risk Modification\*, Surveillance, Genetic Counseling

CFTR-Modulators; Risk Modification\*, Genetic Counseling, Surveillance

Steroids Biologics Immunosuppressants

Risk Modification\*, Surveillance

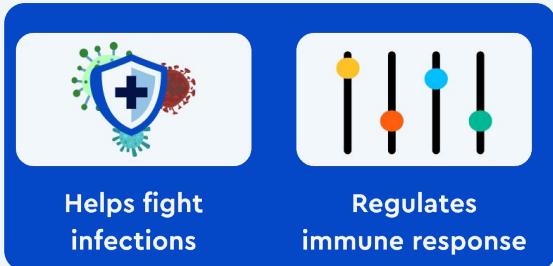
Remove obstructions- Cholecystectomy (gallbladder removal) ERCP, Surgical

**TREATMENT AND APPROACH MAY BE DIFFERENT**

# Type 1 AIP or IgG4-RD AIP

Mission:Cure

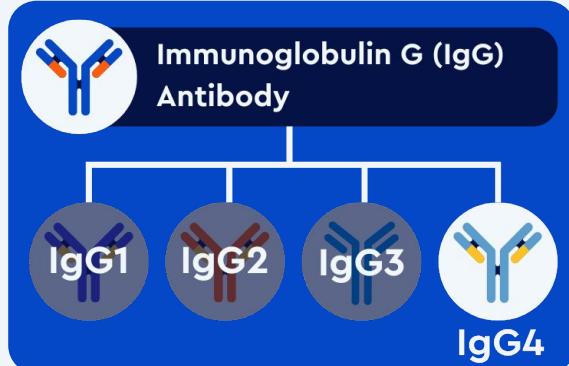
## IgG Antibody



## IgG4-RD\*: A Chronic Fibroinflammatory Disease (Inflammation → Organ Scarring)

- Impacts pancreas: Type 1 AIP or IgG4-related pancreatitis
- Impacts bile ducts: IgG4-related sclerosing cholangitis\*
- Can affect many other organs

## IgG4: Subset of IgG antibody



## In IgG4-RD:

- Overactive Immune system
- Too many IgG4 positive immune cells
- Excess IgG4 in healthy organs = Chronic inflammation
- Scarring or fibrosis = Affects organ function



Pancreas



Lungs



Salivary Glands



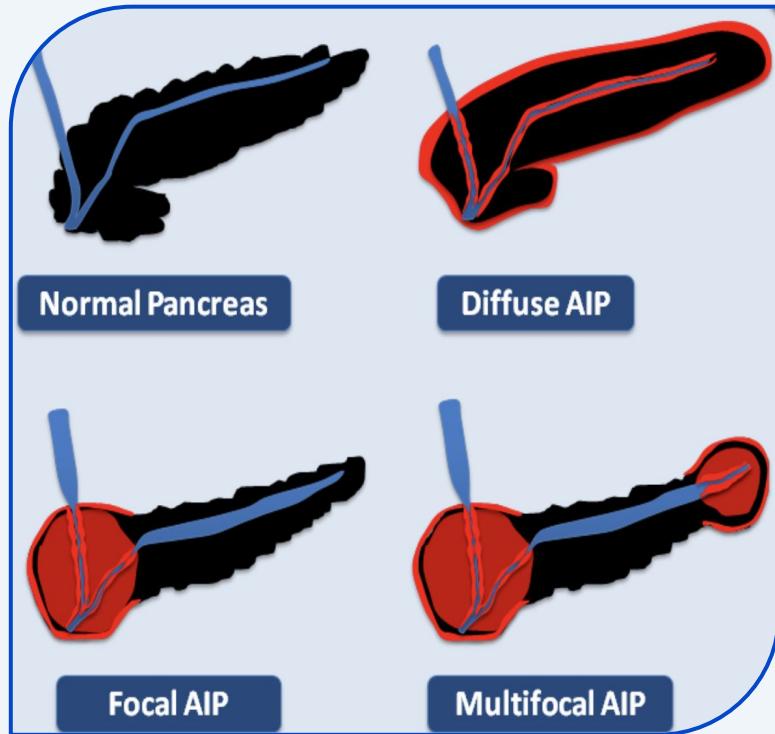
Kidneys

\*IgG4-RD: Immunoglobulin G4 Related Disease

\*Cholangitis: Bile ducts inflammation

# Type 1 AIP: Patient Profile

	Type 1 AIP Patient Data	Compared to Type 2 AIP
Age (years)	61.8 ± 15.3	*Older
Gender (Male %)	70%	*More Men vs Women
Imaging findings		
Diffuse swelling	30 (40%)	*Less common
Other features	48 (60%)	*Less common
Elevated IgG4 level (>140 mg/dL)	59 (80%)	*More common
Other organ Involvement	47 (60%)	*Only in Type 1
IBD* Association (Inflammatory Bowel Disease)	6%	*No significant difference
Relapse rate	47%	*Significantly higher



Adapted from Figure 4, RadioGraphics 2011; 31:1379–1402

# Making The Right Diagnosis: Type 1 AIP

Mission:Cure

## Diagnosis Criteria: HISORt & American College of Rheumatology criteria for IgG4-RD

1. Histology/Immunostaining (*microscope study of pancreas biopsy*)
2. Imagining (*e.g., CT scan, MRI, MRCP*)
3. Serology (*blood work*)
4. Other organ involvement (*upto 10-11 other organs*)
5. Response to steroid therapy (*using steroid for diagnosis*)

NOT ONE SINGLE TEST CAN DIAGNOSE IgG4-RD! Requires combination of assessments

# Diagnosis: H\*ISORt

Mission:Cure

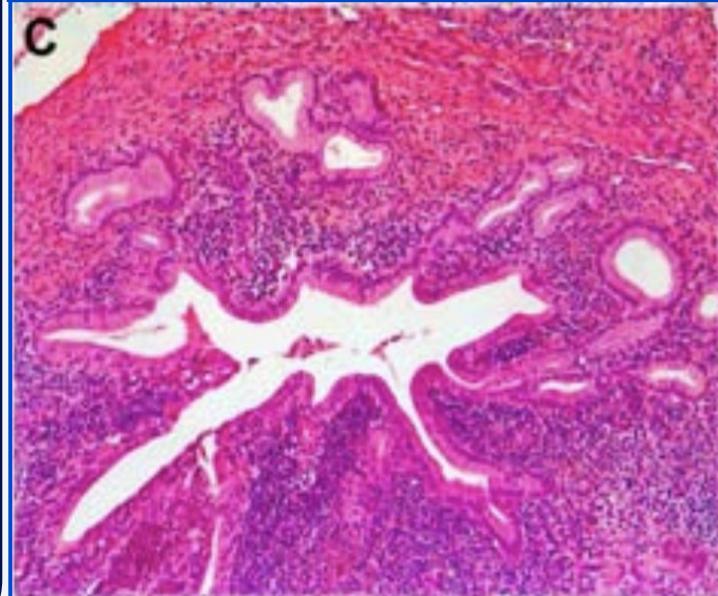
## \*H = Histology/Immunostaining

(Pancreas biopsy tissue, microscopic view)

### *Periductal Lymphoplasmacytic Infiltration:*

- Immune cells around ducts (lymphocytes + plasma cells)
- IgG4 +ve plasma cells seen on staining (supports diagnosis- doesn't confirm)
- Ducts show scarring & narrowing
- Normal biopsy doesn't rule out AIP

Type 1 AIP: Severe periductal lymphoplasmacytic infiltration



C Type 1 AIP: Severe periductal lympho-plasmacytic infiltration causing partial stenosis of a medium-sized pancreatic duct (haematoxylin and eosin, x100), Detlefsen S, Löhr JM, Drewes AM, Frøkjær JB, Klöppel G. doi: 10.2174/187221311795399228. PMID: 21453268.

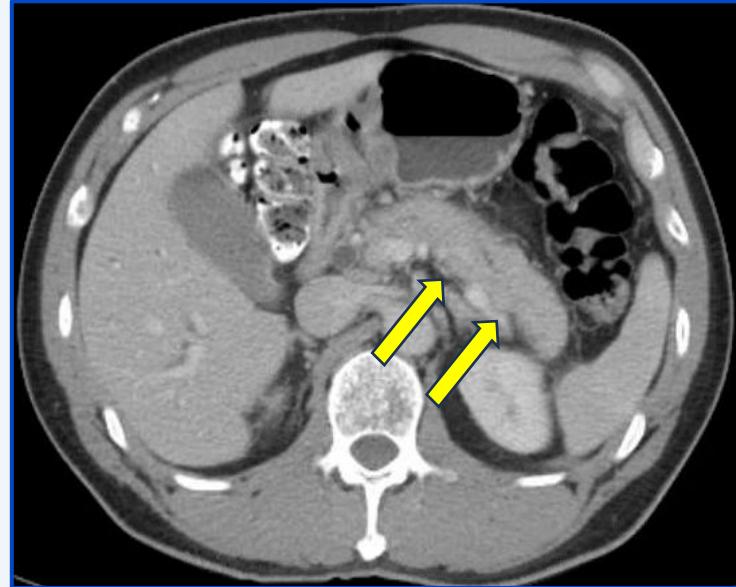
# Diagnosis: HI\*SORt

Mission:Cure

\* I=Imaging (e.g., CT, MRI, MRCP)

- “Sausage shaped pancreas”- Diffuse pancreatic enlargement- loss of lobulations
- 1/3<sup>rd</sup> pancreatic duct stricture (narrowing)  
*without* downstream dilation (widening)
- Multifocal pancreatic duct strictures or beaded pancreatic duct
- “Halo-sign”
- Look for other organ involvement

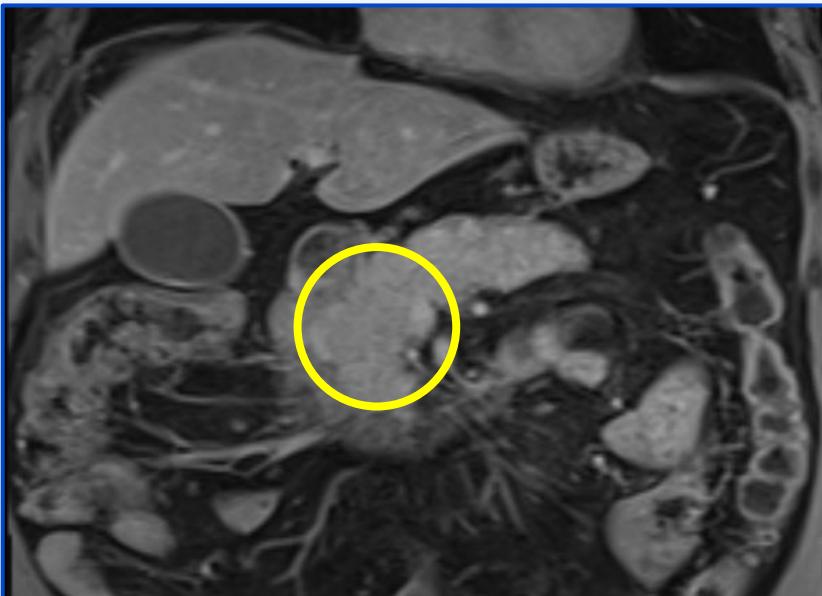
Classic Imaging: Can diagnose AIP in 40% of cases



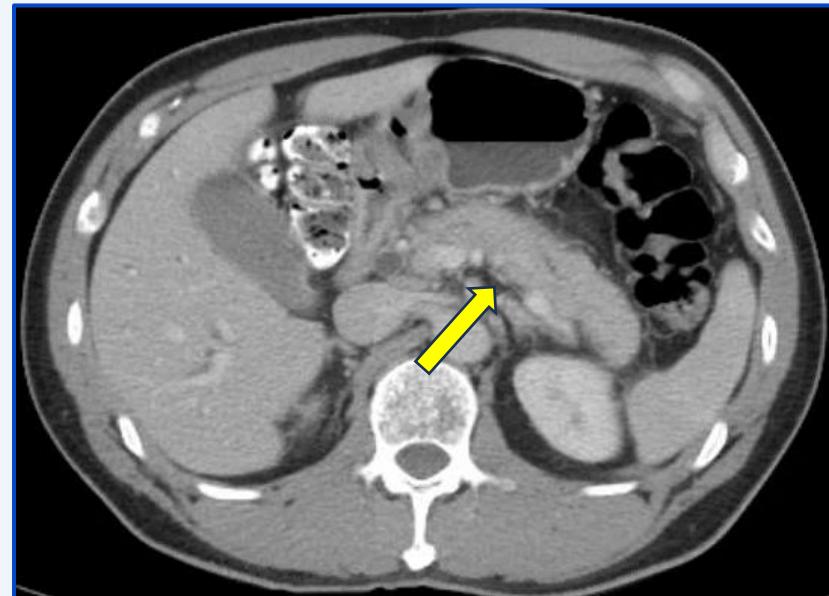
# Diagnosis: HI\*SORt

Mission:Cure

## Mass-forming/Focal Imaging



## Diffuse Involvement Imaging

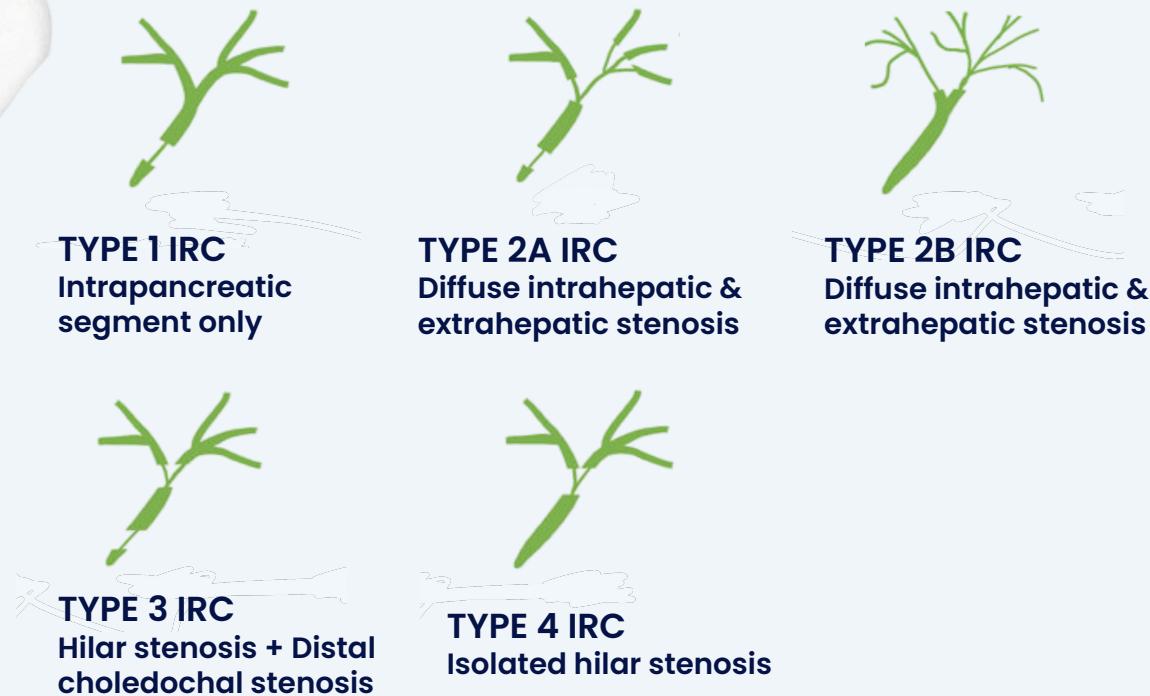
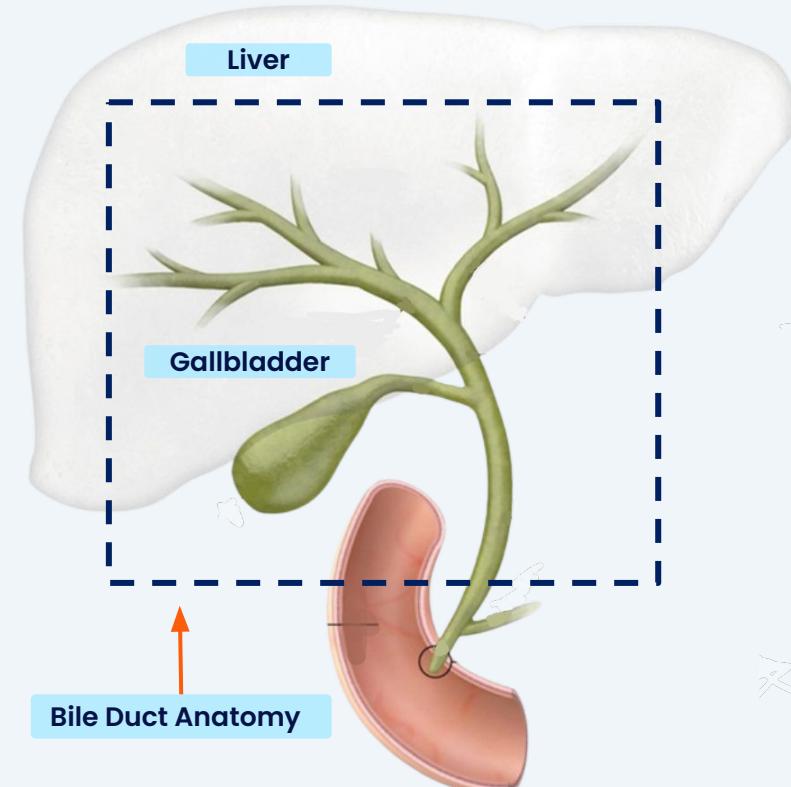


- Requires a biopsy
- Steroids with short interval imaging

- Other causes of pancreatitis need to be ruled out

# Diagnosis: HI\*SORt

IgG4-sclerosing cholangitis (IgG4-SC/ ISC) Or IgG4- related cholangitis (IRC): Bile Duct Involvement  
IgG4-SC in ~ 70% of Type 1 AIP (Isolated bile duct involvement-only 10%)



# Diagnosis: HIS\*ORt

Mission:Cure

## \*S = Serology (Blood Work)

- IgG4 elevated in (75%)
- IgG (60%)
- IgE (60%)
- C3/C4 (25%)

A positive IgG4 does NOT confirm diagnosis/



- High IgG4 levels = Higher Relapse Risk (95% CI: 1.2–32  $p<0.01$ )
- Liver Function Tests: Higher with bile duct involvement (monitor for treatment response)
- Exclusion Clues: Fever, no steroid response, low white blood cells/platelets, high eosinophils, ANCA+, anti-Ro/La, splenomegaly, or rapid imaging changes

# Diagnosis: HISO\*Rt

\*O = Other organ involvement

Mission:Cure

## Head and neck

- Parotid gland inflammation
- Thyroiditis
- Lymphadenitis
- Parotid enlargement
- Submandibular gland enlargement

## Oesophagus

- Oesophagitis

## Liver

- Bile duct stricture
- Hepatitis

## Kidneys

- Tubulointerstitial nephritis

## Musculoskeletal system

- Arthralgias (more common than arthritis)
- Arthritis (in a minority of patients only)
- Enthesitis (occasionally)

## Eyes

- Extra-ocular muscle thickening and inflammation
- Retro-bulbar mass
- Lacrimal gland enlargement

## Mouth

- Sialadenitis

## Pancreas

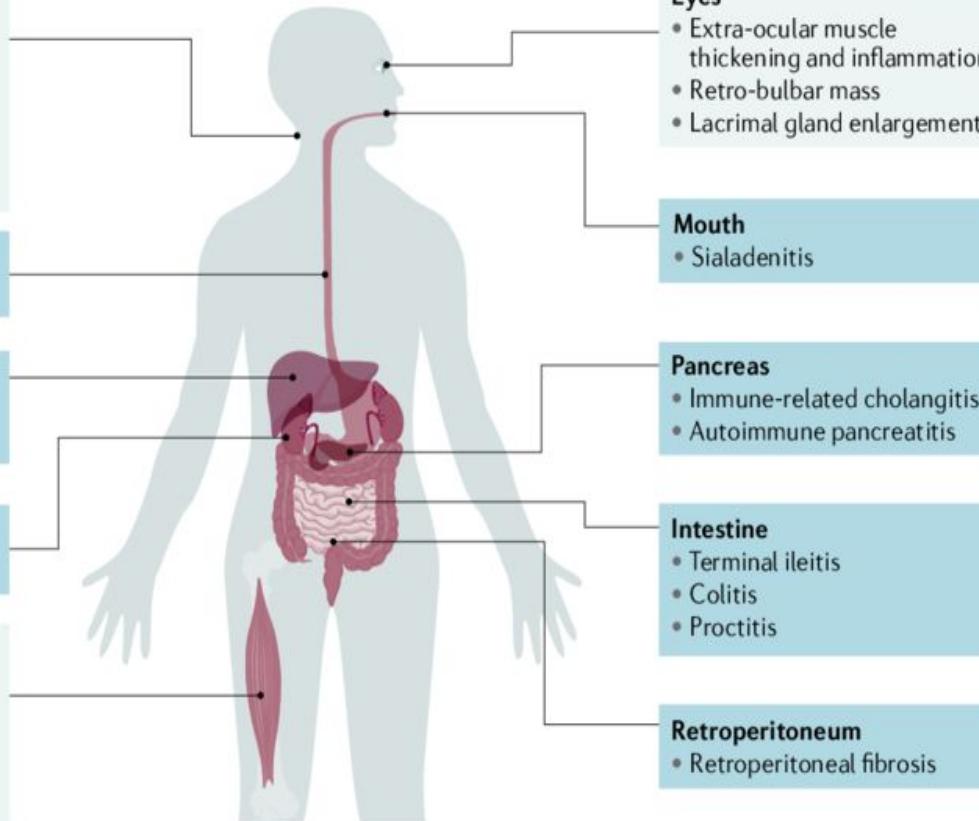
- Immune-related cholangitis
- Autoimmune pancreatitis

## Intestine

- Terminal ileitis
- Colitis
- Proctitis

## Retroperitoneum

- Retroperitoneal fibrosis



→ 10-11 organs primarily affected (multi-organ involvement)

→ 60% of patients may have irreversible organ damage at diagnosis

# Diagnosis: HISO\*Rt

Mission:Cure

**\*O = Other organ involvement:** Extra-pancreatic organ involvement

Sialadenitis with salivary gland enlargement



Lacrimal gland/ Tear gland enlargement



# Diagnosis: HISO\***Rt**

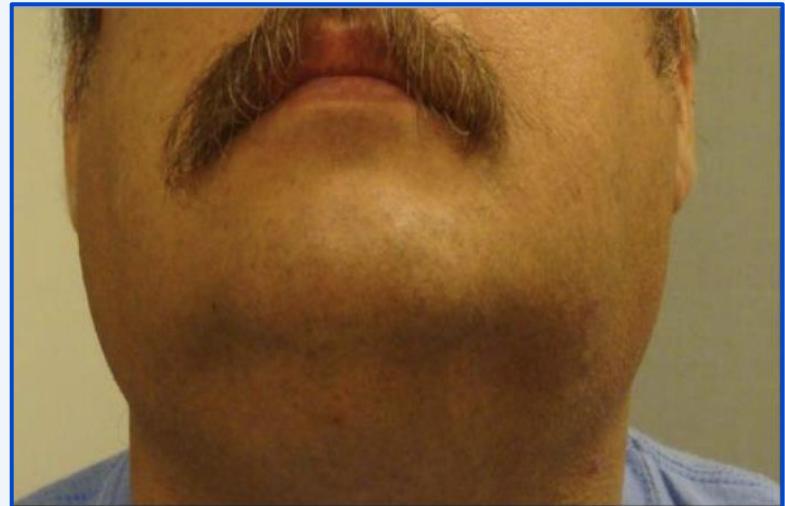
Mission:Cure

**\*O = Other organ involvement:** Extra-pancreatic organ involvement

Parotid gland enlargement



Normal parotid glands after treatment



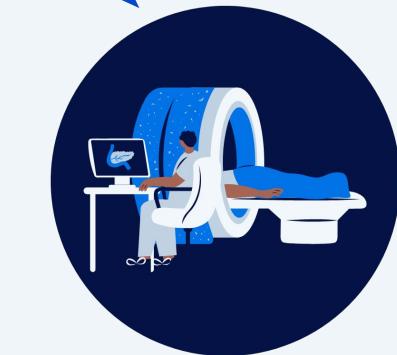
# Diagnosis: HISOR\*t

Mission:Cure

\*R = Response to steroid therapy

*If steroids used for diagnosis:*

- Prednisone 40 mg/orally/once daily for 4 weeks
- Short interval CT/MRI/MRCP in ~4 weeks to ensure resolution of imaging findings
- If responding, then taper by 5 mg per week for a total of 12 weeks



# Treatment Goals: Type 1 AIP/IgG4-SC



- Induce + Maintain REMISSION\* (reduce disease-driving inflammation)
- Treat
  - Symptomatic patients with pancreatic or other organ involvement
  - Patients with risk for severe or irreversible organ failure
- Maintenance therapy to prevent relapse
  - Optimal choice & timing is individualized

\*Remission: Absence of symptoms & inflammation + improvement on imaging & lab tests after treatment begins

# Treatment Approach: Type 1 AIP/IgG4-SC

## STEROIDS



Suppress immune system activity to reduce inflammation & induce remission\*

## IMMUNOMODULATORS



Help maintain remission by balancing immune response & reducing need for prolonged steroid use

## BIOLOGICS\*/ B-CELL DEPLETION



Target & reduce B-cells (plays key role in Type 1 AIP) to control inflammation & prevent disease relapse

\*Remission: Absence of symptoms & inflammation + improvement on imaging & lab tests after treatment begins.

\*Biologics: Therapies made from living organisms or their products; target specific components of the immune system.

# Treatment: Steroids

E.g., Prednisone, Methylprednisolone & Prednisolone

- 99.6% effective at inducing remission, 40–50% relapse rate
- Risk Factors for relapse:
  - ◆ *Proximal cholangiopathy* (upper bile duct disease)
  - ◆ *Persistently high IgG4 despite therapy*
  - ◆ *Multi-organ involvement*
- Steroid Therapy Trial: Prednisone 20–40 mg/day for 4 weeks, taper by 5 mg/week (North America & Europe)
- Can use steroids for maintaining remission ~25% relapse rate on low-dose (Japan & Asia)



# Treatment: Immunomodulators

E.g., Azathioprine, 6-Mercaptopurine (6MP), Mycophenolate Mofetil (MMF), Methotrexate

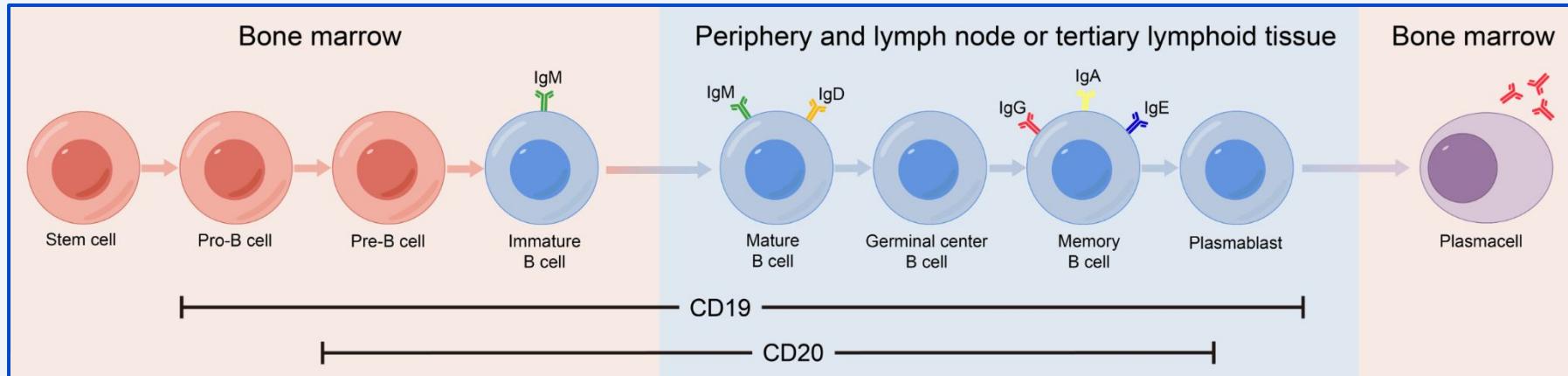
- Inflammatory Bowel Disease (IBD)-level dosing needed for effectiveness
  - ◆ *Can't induce remission, but maintains in ~ 50-60% patients*
- For high-risk individuals or early relapse (<1 year)
- Not commonly used:
  - ◆ *Patient response hard to predict*
  - ◆ *Uncertain long-term remission*

**Table 4** Details of immunomodulator (IM) treatment in patients\* treated with azathioprine (AZA), 6-mercaptopurine (6-MP) or mycophenolate mofetil (MMF)

	AZA (n=31)†	6-MP (n=6)	MMF (n=11)
Duration from diagnosis to drug initiation (months)	10.0 (1.1–266)	9.5 (5.5–37.7)	11.0 (1.0–55.6)
Dose (mg)	150 (50–200)	100 (37.5–200)	1750/day (1000–2000)
Dose (mg/kg/day)	1.9 (0.5–2.5)	1.5 (0.7–2.6)	–
Duration of treatment (months)	9.8 (0.7–43.9)	9.0 (0.2–17.5)	17.4 (3.0–50.8)
Indication for drug discontinuation			
Disease remission	7/30 (23%)	3/6 (50%)	3/11 (27%)
Relapse on treatment	9/30 (30%)	1/6 (17%)	3/11 (27%)
Side effects	5/30 (17%)	2/6 (33%)	0/11 (0%)
Continued at follow-up	9/30 (30%)	–	5/11 (45%)

# Treatment: Biologics/ B-Cell Depletion

E.g., Rituximab, Rituximab biosimilars, Inebilizumab, Others under study



Adapted from Figure 1 Expression of cell surface antigens during B-cell differentiation., Shang, H., Shen, X., Yu, X., Zhang, J., Jia, Y., & Gao, F. (2024). B-cell targeted therapies in autoimmune encephalitis, *Frontiers in Immunology*, 15, 1368275. <https://doi.org/10.3389/fimmu.2024.1368275>

- B cells: White blood cells- Produce antibodies (including IgG4)- Develop in bone marrow
- In Type 1 AIP: Overactive B cells = Excess IgG4 + Drive inflammation
- CD19 & CD20: B cell surface markers involved in immune signaling & activation
- CD19: Found on most B cells throughout development
- CD20: Found only on mature B cells
- CD19 & CD20 Targeted Therapies: Reduce B cell activity + Lower IgG4 levels

# Treatment: B-Cell Depletion

## IgG4-RD Pathophysiology\*

B cells = 'Alarm system'

CD4+ cytotoxic T cells = 'Responders'

'Alarm' alerts 'Responders', they:

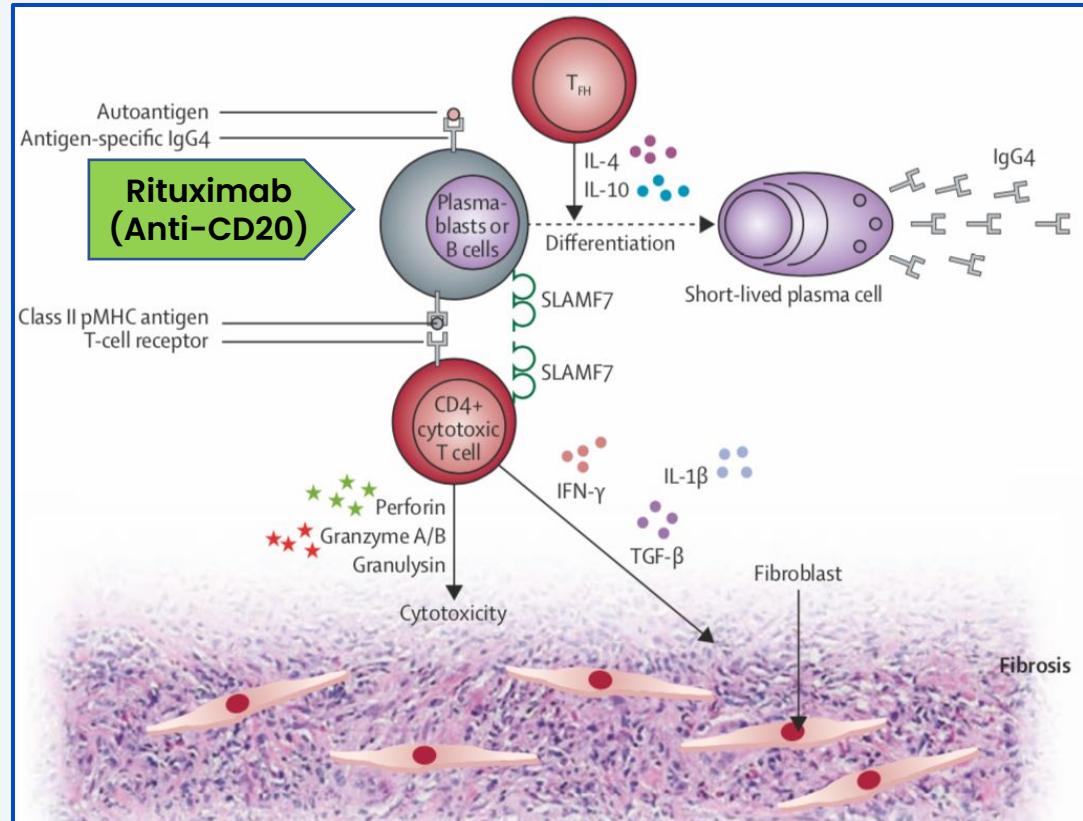
- May overreact
- Cause inflammation & damage

CD20 = On/Off switch on mature 'alarms'

**Anti-CD20 therapy = Turns off mature 'alarms'**

Fewer 'alarms':

- Responders calm down
- Organs stay safe from unnecessary attack



\*Pathophysiology: How disease works

# Treatment: B-Cell Depletion

## IgG4-RD Pathophysiology\*

B cells = 'Alarm system'

CD4+ cytotoxic T cells = 'Responders'

'Alarm' alerts 'Responders', they:

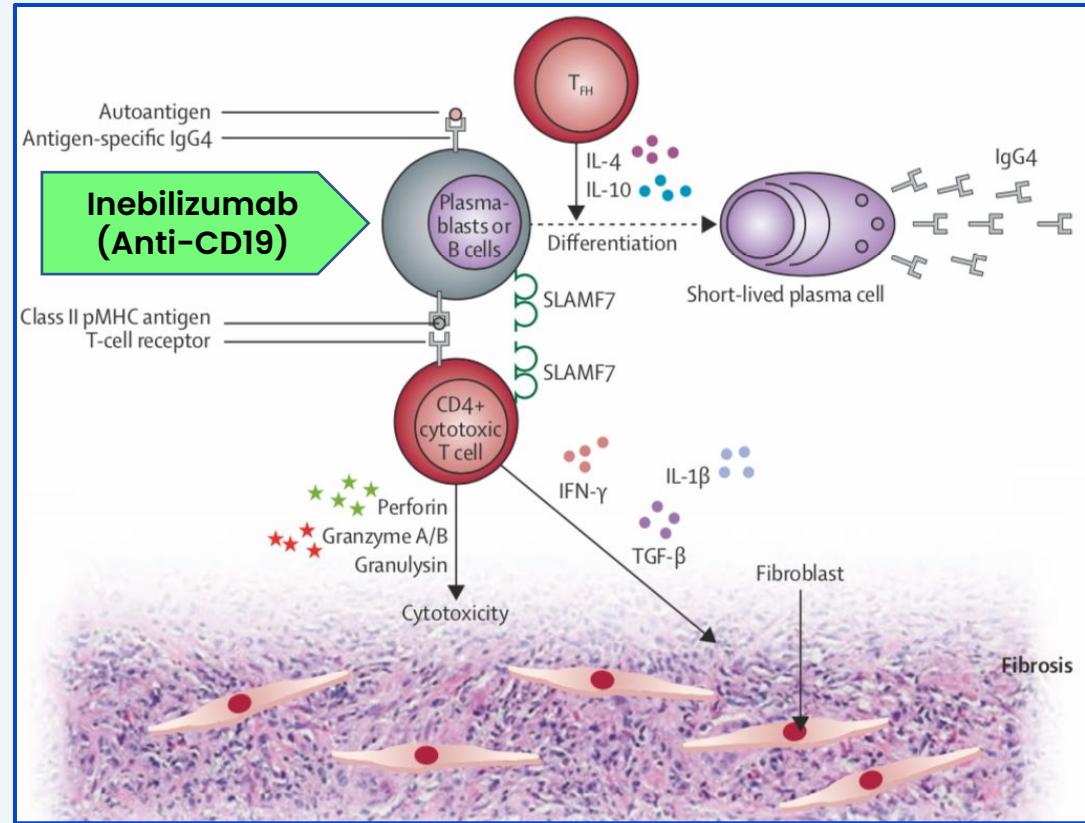
- May overreact
- Cause inflammation & damage

CD19 = 'GPS tag on alarm' – Can be found & turned off earlier

**Anti-CD19 = Turns off more 'alarms', including early or hidden ones**

Fewer 'alarms':

- Responders calm down
- Organs stay safe from unnecessary attack



Courtesy of Dr. John Stone, Professor of Medicine, Harvard Medical School, The Edward A. Fox Chair in Medicine, Massachusetts General Hospital

\*Pathophysiology: How disease works

# Treatment: Biologics/ B-Cell Depletion

Mission:Cure



## RITUXIMAB (ANTI-CD20)

- 2 infusions, 2 weeks apart, every 6 months (single agent)
- Induces & maintains remission, low relapse rate
- Maybe appropriate as 1<sup>st</sup> line agent if known serious steroid intolerance
- Multi-organ involvement



## INEBILIZUMAB (ANTI-CD19)

- 2 infusions, 2 weeks apart, every 6 months (single agent)
- Broader targeting than CD20 therapies
- Induces & maintains remission, low relapse rate (need long term data). Reduces risk of flares by 87% vs placebo
- 1<sup>st</sup> FDA-approved therapy for IgG4-RD; suitable for multi-organ involvement, relapsing disease, steroid intolerance

# Treatment Approach Summary

CATEGORY/ DRUGS	PROS	CONS	TREATMENT: WHEN/WHY
STEROIDS/ GLUCOCORTICOIDS: <b>Prednisone</b>	<ul style="list-style-type: none"> <li>Very effective in inducing remission</li> </ul>	<ul style="list-style-type: none"> <li>High relapse rate</li> <li>Not for patients with contraindications* to steroids</li> <li>Would avoid 2<sup>nd</sup> treatment trial in case of relapse</li> </ul>	<ul style="list-style-type: none"> <li>Pancreas isolated disease</li> <li>No evidence of pancreatic organ damage</li> <li>Patients without steroid therapy contraindications*</li> </ul>
IMMUNOMODULATORS: <b>Azathioprine, 6-MP, MMP + Low dose steroid maintenance</b>	<ul style="list-style-type: none"> <li>Lower relapse rate than prednisone alone</li> </ul>	<ul style="list-style-type: none"> <li>Can't induce remission</li> </ul>	<ul style="list-style-type: none"> <li>Can consider for 1<sup>st</sup> relapse</li> </ul>
BIOLOGICS OR B CELL DEPLETION: <b>Rituximab/Rituximab biosimilars</b>	<ul style="list-style-type: none"> <li>Very effective in inducing remission</li> <li>Low relapse rate</li> </ul>	<ul style="list-style-type: none"> <li>Infusion reactions</li> <li>Infectious complications</li> </ul>	<ul style="list-style-type: none"> <li>Multiorgan disease</li> <li>Biliary involvement</li> <li>IgG4 levels &gt;280</li> <li>Relapsed disease</li> </ul>
BIOLOGICS OR B CELL DEPLETION: <b>Inebilizumab</b>	<ul style="list-style-type: none"> <li>Very effective in inducing remission</li> <li>Low relapse rate</li> <li>1<sup>st</sup> FDA-approved therapy for IgG4RD</li> </ul>	<ul style="list-style-type: none"> <li>Infectious complications</li> </ul>	<ul style="list-style-type: none"> <li>Multiorgan disease</li> </ul>

\*Contraindications: Conditions where steroids may be unsafe e.g., uncontrolled infections, severe diabetes, etc.

# Summary: Type 1 AIP

Mission:Cure

- Type 1 AIP & IgG4-SC: Part of IgG4-RD
- Treatment goal: TOTAL REMISSION (prevent organ damage)
- High relapse rates with steroid-alone treatment
- Biologics therapy for high-risk patients
  - Likely 1<sup>st</sup> line agent for most cases + multiorgan disease
- Choosing Rituximab & Inebilizumab:
  - Standard of care = Induce remission + Maintenance
  - Maintenance timing unclear & likely patient-specific
- Bile duct stenting may be avoided with early treatment
- Monitor:
  - Diabetes+EPI+Micronutrient deficiencies (once/yr)
  - Metabolic bone disease (once/2 yrs)
- Pancreatic Cancer (PDAC\*) more common than Type 1 AIP & should be ruled out with biopsy



\*PDAC: Pancreatic ductal adenocarcinoma

# Type 2 AIP or IDCP: Diagnosis & Treatment

Mission:Cure

## Idiopathic Duct Centric Pancreatitis

- Pancreas-only, Cause- unknown; T-cells driven (versus B-cell driven Type 1 AIP)
- Can be diagnosed with pancreatic biopsy (gold standard)
- ~35% have Inflammatory Bowel Disease (IBD), especially Ulcerative Colitis
- Highly steroid responsive (Prednisone)
- Low relapse rate- Immunomodulators rarely needed. Biologics not effective
- Potential long-term endocrine & exocrine dysfunction (Diabetes & EPI)

	Type 2 AIP Patient Data	Compared to Type 1 AIP
Age (years)	47.7 ± 18.8	*Younger
Gender (Male %)	53.5%	*No gender bias
Imaging findings		
Diffuse swelling	3 (16%)	*Less common
Other features	16 (84%)	*More common
Elevated IgG4 level (>140 mg/dL)	8 (17%)	*Less common
Other organ Involvement	0	*Absent
IBD Association	16%	*Not statistically different
Relapse rate	<10%	*Significantly lower

# Type 3 AIP: ICI Induced Pancreatic Injury

## Immune-Checkpoint Inhibitor (ICI) induced pancreatic injury (including pancreatitis)

- ICIs revolutionized cancer care
- Type 3 AIP triggered by ICIs used in cancer therapy
- ICI-pancreatitis: Immune-mediated phenomenon
- ICIs (anti-PD-1, PD-L1, CTLA-4) boost immune reaction- Increases T-cell activity to target tumors
- Can cause off-target immune attacks in other organs (including pancreas)
- 30–40% of ICI-treated patients develop immune-related side effects leading to 'autoimmune-like' phenomenon (irAEs\*)

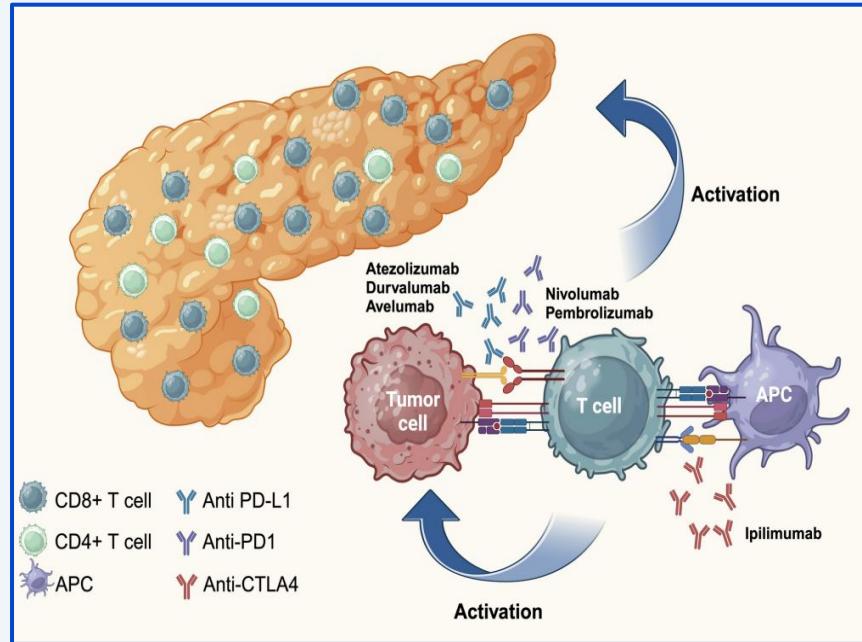


Figure 3 from Immune Checkpoint Inhibitors in Cancer Treatment and Incidence of Pancreatitis. Cureus. 2024 Aug 28;16(8):e68043. doi: 10.7759/cureus.68043. PMID: 39347217; PMCID: PMC11433468.

\*irAEs: Immune-related adverse events  
Type 3 AIP credit – Dr. Suresh Chari

# Type 3 AIP: ICI Induced

- Pancreatic injury of all ICI-treated patients- 0.6-4% (rare), true pancreatitis- 1.9% (rarer)
- Occur during treatment (also seen upto 12 months following therapy discontinuation)
- Asymptomatic, high levels of lipase/amylase estimated at 2.7%
- Imaging findings- rare (some diffuse or focal enlargement, pancreatic masses described)

## Pancreatic volumes before & after pancreatic injury



Figure 2 from Autoimmune Pancreatitis: A Review. J. Clin. Med. 2025, 14, 3076. <https://doi.org/10.3390/jcm14093076>  
Abu-Sbeih, J. Immunother. Cancer 2019; Das, Eur. J. Radiol., 2020; Johnson, Nature Rev. Clinical Oncology 2022

# Summary: Type 2 & Type 3 AIP

## TYPE 2 AIP (IDCP)

- Rare, Pancreas isolated
- ~35% patients have IBD
- Highly steroid responsive
- Prednisone 20 mg daily × 4 weeks, taper by 5 mg/week
- Low relapse rate (<10%)

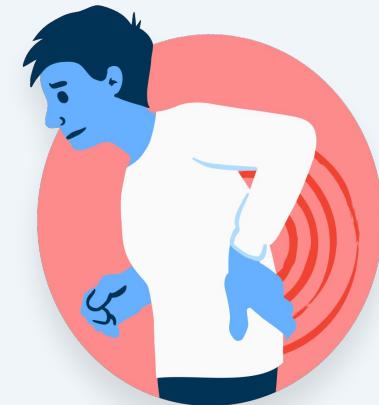
## TYPE 3 AIP (ICI-PANCREATITIS)

- Very rare, Immune mediated
- No specific treatment for ASYMPTOMATIC high levels of amylase/lipase or mild symptoms
- For symptomatic pancreatitis:
  - Treat with- IV fluids, pain management
  - ***Avoid*** steroids & ICI-therapy ***discontinuation (unless severe)*** as this can impact cancer treatment outcomes

# Summary Overview

Pancreas: Exocrine tissue (~ 98%), makes enzymes; Endocrine tissue (~ 2%), secretes insulin & other hormones

SYMPTOMS	TYPE 1 AIP	TYPE 2 AIP	TYPE 3 AIP
Abdominal Pain	● Rare, mild	✓ Common, acute	● May occur
Sudden Pain (radiating to the back), Nausea, Vomiting	● May occur	✓ Common	● May occur
Weight loss, Fatigue, Poor appetite	✓ Common	✓ Common	✓ Common
Jaundice (bile duct involvement)	✓ Common	● May occur	● May occur
EPI: Greasy, loose, smelly stools, diarrhea, bloating, flatulence (exocrine damage)	✓ Common	● May occur	● May occur
Diabetes: New onset or worsening (endocrine damage)	✓ Common	● May occur	● May occur
Other organ involvement symptoms	✓ Common	✗ Not seen	● May occur
Mimics Pancreatic Cancer	✓ Common	● May occur	✗ Not reported



Note: Symptoms vary by type & may be mild, severe, or silent. May also overlap with other forms of pancreatitis & GI diseases delaying diagnosis!

# Pancreatitis & EPI

Mission:Cure

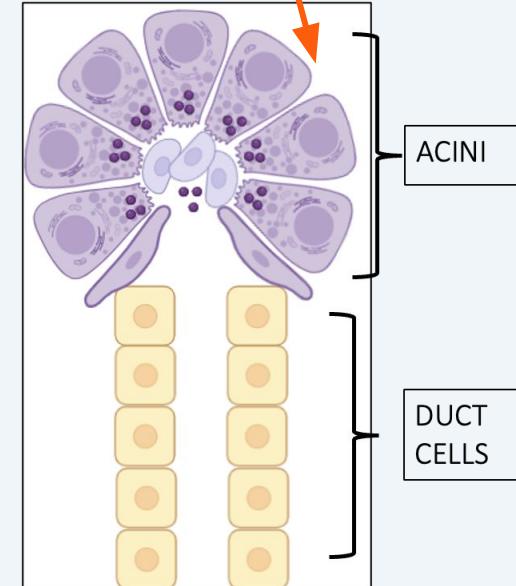
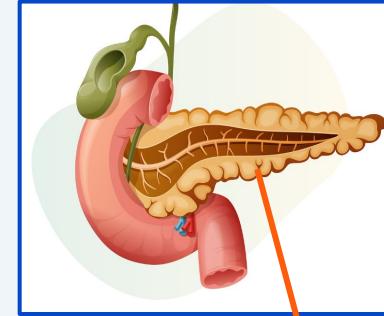
Pancreatitis + EPI\* = Significant Disease Burden

Malnutrition, Maldigestion, Malabsorption = Nutritional deficiencies

- ~ 15% CP patients have EPI (35-75% risk of developing EPI)
- ~ 60% of Type 1 AIP patients have or will develop EPI

## EPI Diagnosis & Treatment

- Screen for symptoms (oily stools, weight loss, bloating, etc)
- Stool based tests (fecal elastase/ 72-hour fecal fat test)
- Check micronutrient deficiencies (Vitamin A, E, D, K, B12, zinc, copper, selenium, folate & iron)
- DEXA scan screening for metabolic bone disease
- Treat with pancreatic enzyme replacement therapy (PERT) + nutritional management (diet & lifestyle)



\*EPI: Exocrine Pancreatic Insufficiency

# Pancreatitis Treatment Approach



## Best Care with Multidisciplinary Team!

- Gastroenterologist/Pancreatologist, Rheumatologist, Neuro Ophthalmologists, Nephrologists (if Type 1 AIP/IgG4-RD), Endocrinologist, Pain specialists, Surgeons, Oncologist (as needed)
- Dietician, Certified Diabetes Educator (CDE), ACPs\*, NPs\*, Mental health professionals

## Exocrine Pancreatic Insufficiency is Common

- Screen for EPI if untreated & treat with PERT
- Assess malabsorption symptoms/PERT dosing/PERT failure (?)

## Additional Screening & Management

- Micronutrient deficiencies (Vitamin A, E, D, K, B12, folate, magnesium, selenium, zinc, iron)- Once/Year
- Diabetes (HbA1c)- Once/Year
- Metabolic bone disease- DEXA scan at baseline + Once/2 years

# Resources

1. [Autoimmune Pancreatitis Webpage](#)- Newly Published!
2. [AIP Short Form Video & Blog Link](#): Blog includes list of US AIP-experienced physicians Dr. Hernandez-Barco recommends
3. [FDA-approved treatment Inebilizumab \(Uplizna\) Blog Link](#)
4. FDA Approval of drug for IgG4RD diseases (including type 1 AIP): [Amgen Press Release](#)
5. [Information about Access to Investigational Medicine for Inebilizumab outside USA](#)
6. [IgG4ward Foundation Website](#)
7. [IgG4-RD Educational Resources & Physician List/Network](#) (IgG4RD experience)



Designed by [Freepik](#)

\*Resources shared here will be posted on Mission: Cure's website with the webinar recording

# Patient Advocacy, Community & Resources



**Katharine M. Provencher, MSW**

Caregiver  
Director of Advocacy & Community Engagement  
IgG4ward!



**IgG4ward!**

# My Why

## Roles

- Caregiver, Wife, Mom of 3
- Social worker- 20 years advocacy\* experience
- Director of Advocacy & Community Engagement at IgG4ward!

## IgG4ward! Foundation

- Founded by Dr. John Stone in November 2023
- IgG4ward! is the 1<sup>st</sup> International Patient Organization focused only on IgG4-related disease

\*Patient advocacy: Supporting & empowering patients to ensure their rights, needs, & preferences are respected and represented in healthcare



# IgG4-RD Patient Journey

Mission:Cure

- A chronic, immune-mediated condition: Can affect nearly any organ system
- Type 1 AIP: A manifestation of IgG4-RD
- Many patients initially receive a misdiagnosis, including - pancreatic cancer
- Unnecessary surgeries or treatment delays
- Long diagnosis path: Multiple specialists, tests & emotional strain
- Living with AIP & IgG4-RD means managing a lifelong condition with flares, treatments & frequent monitoring



Kim, IgG4RD Warrior receives infusion treatment



# Caregiver Experience

- For many, diagnosis comes after months—or years—of uncertainty
- Tracking labs, manage appointments, ask the hard questions
- Navigate a complex system that doesn't recognize rare disease
- Caregivers carry fear, grief, & advocacy fatigue
- But also discover strength, connection, & resilience



Image credit: Adapted from [Freepik](#)

*As advocates, we speak up for those who feel unseen—including families affected by AIP*



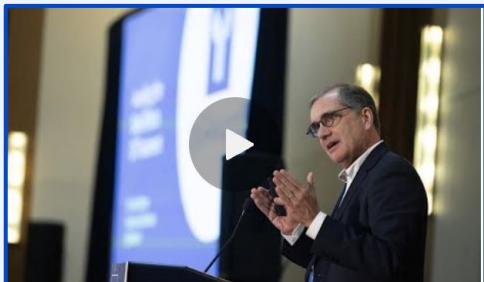
# About IgG4ward!

**Mission: To Support, Educate, Advocate, Advance Research**

**Here for everyone impacted by IgG4-RD**

- Sharing trusted, up-to-date info on IgG4-RD
- Offering practical resources for patients, caregivers, healthcare providers & researchers
- Creating a strong, supportive online community

## Resources: Webinars & Fireside Chats | Mental Health & Caregiver Resources



JAM Video 7 - Avoiding the Side Effects of Treatment: Steroids, B-Cell Depletion|Dr. John Stone



Fireside Chat: Nutrition and IgG4-RD

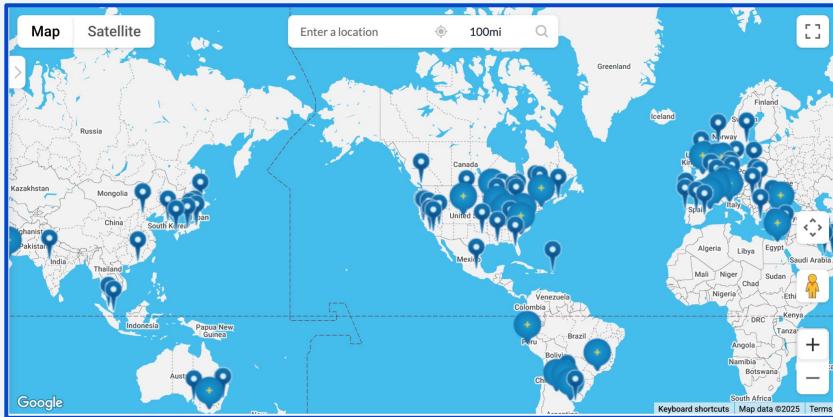


Caregivers Conversation



# IgGward! Offers

Resources: Physician Network | Annual Patient Jamborees | IgG4ME! app



Join us in **Atlanta** for the  
**IgGward!**  
**PeachJAM**

September 12-13, 2025



- **Website:**  
[igg4ward.org](http://igg4ward.org)
- **Sign up for The**  
**IgGward! News**  
(quarterly newsletter)



# Voices from the Community

Mission:Cure

I was told it was cancer—it wasn't.

I had my pancreas removed for nothing...

The doctors need more information!!!

I wish they had tested for IgG4 sooner.

## Patients & families value:

- ★ Being believed
- ★ Timely, accurate diagnosis
- ★ Trusted resources
- ★ A community that understands

Join our online community & connect with other IgG4RD Warriors!



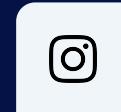
**IgG4ward!**  
PAVING A PATH 4 WARD

Thank You & Keep in Touch!

# Mission:Cure

For questions or comments please email:  
[info@mission-cure.org](mailto:info@mission-cure.org)

**MISSION-CURE.ORG**



@mission\_cure



@missioncurecp



@missioncure



@mission\_cure



pancreatitis-support