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Hépatopathies auto-immunes

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Autoimmune Liver Diseases

- Autoimmune hepatitis
- Primary biliary cholangitis
- Primary sclerosing cholangitis
- Overlap syndromes
- IgG4-associated cholangitis

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Autoimmune Hepatitis

- Prevalence 15-25/100'000
- ♀ : ♂ = 3 : 1
- Clinical manifestations highly variable (asymptomatic - acute liver failure - chronic hepatitis - cirrhosis)
- May be associated with other autoimmune diseases
- Overlap syndromes (AIH-PBC, AIH-PSC)

AASLD Practice Guideline - Manns MP et al. Hepatology 2010;51:2193-2213.
EASL Clinical Practice Guideline. J Hepatol 2015;63:971-1004.

Autoimmune Hepatitis Diagnosis

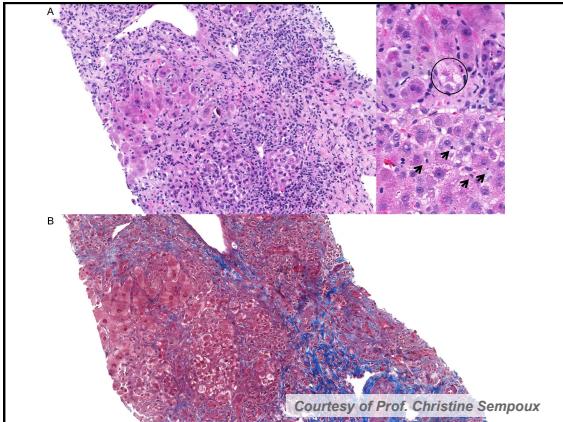
- Exclusion of other liver diseases
- Autoantibodies
 - ANA, SMA (anti-actin) Type 1
 - anti-LKM1 Type 2
 - Others: SLA/LP, anti-LC1
- γ-globulins (IgG) ↑
- Liver biopsy
- Response to treatment

Autoimmune Hepatitis Simplified Diagnostic Criteria

		Points
Autoantibodies	ANA or SMA ≥ 1:40	1
	ANA or SMA ≥ 1:80 or LKM ≥ 1:40 or SLA/LP pos. (any titer)	2
IgG (or γ-globulins)	> ULN	1
	> 1.1 x ULN	2
Liver histology	Compatible with AIH	1
	Typical of AIH	2
Absence of viral hep.	Yes	2

6 points → probable AIH (sens. 88%, spec. 97%)
≥ 7 points → definite AIH (sens. 81%, spec. 99%).

Hennes EM et al. and the IAIHG. Hepatology 2008;48:169-176.



Autoimmune Hepatitis Treatment

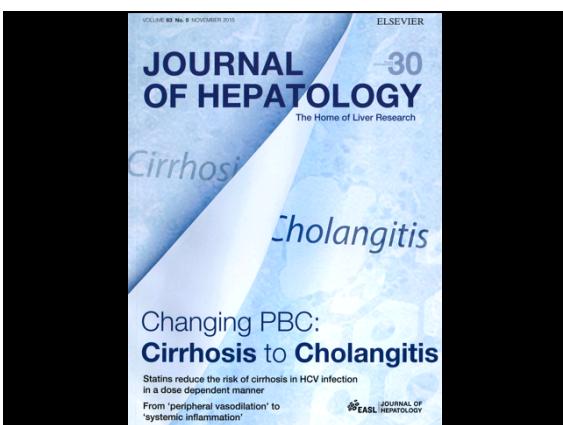
- **Predniso(lo)ne 0.5-1 mg/kg/d**
→ reduction to 10 mg/d by 10-12 wks
and to 5 mg/d by 6 months
→ if possible, withdrawal by 1 year
- **Azathioprine 50 mg/d → 1-2 mg/kg/d**
- **Goal: complete remission (ALT, IgG, histology)**
- **Duration at least 3 years**

Autoimmune Hepatitis Treatment

- **Alternative treatment options**
 - Budesonide (only in non-cirrhotic pts)
 - Intolerance to azathioprine: MMF
 - Insufficient response: i.v. corticosteroids, CsA, tacrolimus, infliximab, ...
- **Regular follow-up and treatment adherence are essential**

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Primary Biliary Cholangitis

- **F.k.a. primary biliary cirrhosis**
- **Autoimmune disease with progressive destruction of small bile ducts**
- **Prevalence 2-40/100'000**
- **♀ : ♂ = 9 : 1, peak age 40-60 years**
- **May be associated with other autoimmune diseases (Sjögren's syndrome, thyroiditis, celiac disease, RA, ...)**

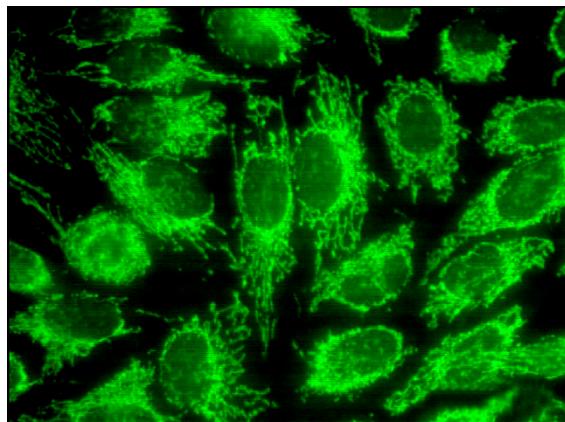
AASLD Practice Guideline - Lindor K et al. Hepatology 2009;50:291-308.
Beuers U et al. J Hepatol 2015;63:1285-1287.
EASL Clinical Practice Guidelines. J Hepatol 2017;67:145-172.

Primary Biliary Cholangitis Clinical Manifestations

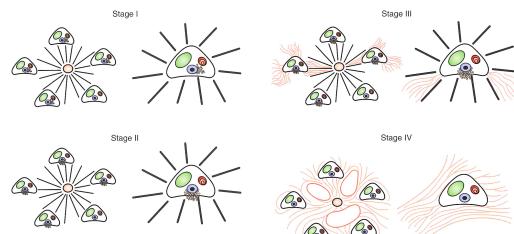
- Initially asymptomatic (AP ↑, γ-GT ↑)
- Pruritus
- Fatigue
- Jaundice represents a late manifestation
- Xanthomas, osteopenia / osteoporosis, ...
- Complications of cirrhosis

Primary Biliary Cholangitis Diagnosis

- Alkaline phosphatase ↑, γ-GT ↑
- Antimitochondrial antibodies (AMA)
(anti-M2 = E2 subunit of pyruvate dehydrogenase complex)
Sensitivity and specificity > 95%
- IgM ↑
- Liver biopsy (not mandatory)



Primary Biliary Cholangitis Histological Stages



Primary Biliary Cholangitis Management

- Ursodeoxycholic acid 13-15 mg/kg/d
- Second line: obeticholic acid 5 → 10 mg/d
- Treatment of pruritus
(cholestyramine, rifampicin, naltrexone, sertraline, phototherapy, ...)
- Prevention / therapy of osteoporosis
- Liver transplantation
- Investigational: fibrates, ...

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Primary Sclerosing Cholangitis

- Chronic fibrosing inflammatory process of medium- and/or large-size, intra- and/or extrahepatic bile ducts
- Prevalence 5-10/100'000
- ♂:♀ = 2 : 1, median age at diagn. 40 yrs
- 80% associated with IBD (UC > CD)

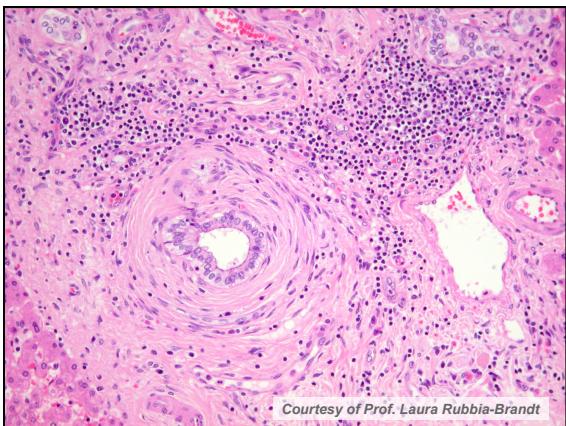
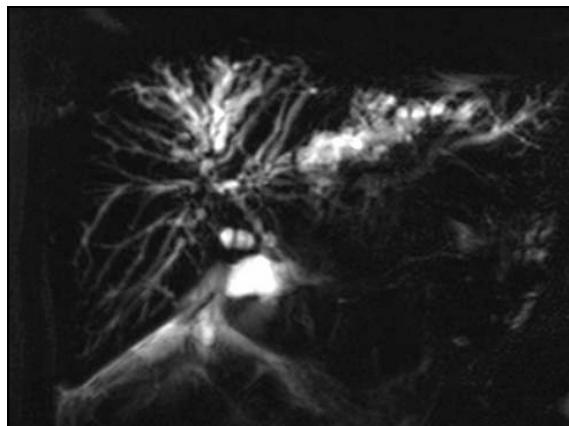
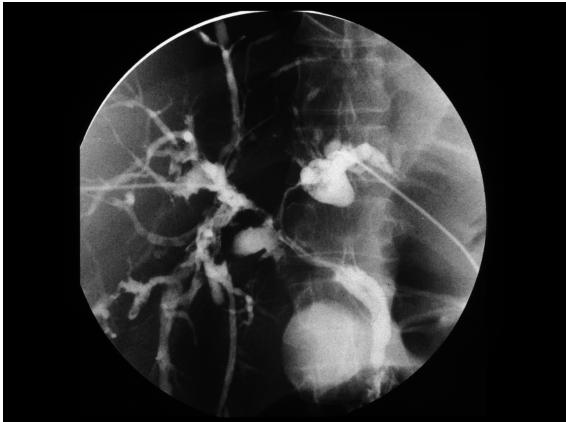
EASL Clinical Practice Guideline. J Hepatol 2009;51:237-267.
AASLD Practice Guideline - Chapman R et al. Hepatology 2010;51:660-678.
Karlsen TH and Boberg KM. J Hepatol 2013;59:571-581.
Lazaridis KN and LaRusso NF. N Engl J Med 2016;375:1161-1170.
ESGE-EASL Clinical Guidelines. J Hepatol 2017;66:1265-1281.

Primary Sclerosing Cholangitis Clinical Manifestations

- Initially asymptomatic (AP ↑, γ-GT ↑)
- Pruritus, pain, fatigue, jaundice
- Complications:
 - bacterial cholangitis
 - cholangiocarcinoma (1.5% per year)
 - complications of chronic cholestasis
 - complications of cirrhosis
 - colorectal cancer

Primary Sclerosing Cholangitis Diagnosis

- Alkaline phosphatase ↑, γ-GT ↑
- MRCP
- "Atypical" pANCA pos. in 50-80% but not sufficiently specific
- Evtl. ERCP (antibiotic prophylaxis!)
- Evtl. liver biopsy (staging)
- Colonoscopy



Primary Sclerosing Cholangitis Management

- Ursodeoxycholic acid 13-15 mg/kg/d (?)
- Endoscopic dilation of dominant stenoses
- Treatment of pruritus
- Prevention / therapy of osteoporosis
- CCA and CRC surveillance
- Liver transplantation

DD PSC-PBC

PSC

- Medium and large BD
- ♂ > ♀
- ~ 40 years
- Association with IBD
- MRCP
- Recurrent bacterial cholangitis
- Cholangiocarcinoma
- UDCA 13-15 mg/kg/d ?

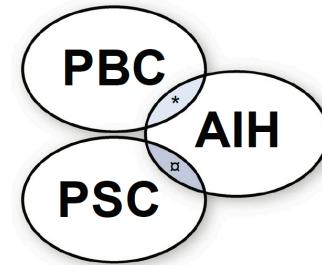
PBC

- Small bile ducts
- ♀ > ♂
- 40-60 years
- No association with IBD
- AMA (M2)
- Progressive cholestasis, pruritus
- No cholangiocarcinoma
- UDCA 13-15 mg/kg/d

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Autoimmune Liver Diseases Overlap Syndromes



Boberg KM et al. on behalf of the IAIHG. J Hepatol 2011;54:374-385.

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IgG4-Associated Cholangitis

- Steroid-responsive sclerosing cholangitis
- ♂ > ♀, median age ~ 60 years
- Associated with autoimmune pancreatitis and diverse fibrosing conditions
- Often presents with obstructive jaundice; no association with IBD and CCA
- Serum IgG4 ↑
- IgG4-positive plasma cells
- Corticosteroids, evtl. azathioprine

Björnsson E et al. Hepatology 2007;45:1547-1554; EASL CPG. J Hepatol 2009;51:237-267; Stone JH et al. NEJM 2012;366:539-551.

Take Home Messages

- Consider autoimmune liver disease in the differential diagnosis of elevated LFTs
→ ANA, AMA, SMA, IgG
→ MRCP
- Regular follow-up and treatment adherence are crucial
- Collaboration between GP and specialist
- Progress in the understanding of the pathogenesis and management to be expected



10th Challenges in Viral Hepatitis
CHUV, January 18, 2018

Alessio Aghemo
Hepatitis C

Cristina Marcu and
Andreas Cerny
Tough hepatitis cases

Charles M. Rice
Hepatitis B

Heiner Wedemeyer
Hepatitis E