

Case 1: Mrs G 33yo ♀ teacher

- **Initial labs:**

- FBC, U&E, CRP, Coeliac serology, iron studies, Lipase (N)
- Mildly elevated **GGT** and **ALP**
- Urine dipstick and pregnancy test (N)

- **Ultrasound: gallstone 10mm.**

- No wall thickening, pericholecystic fluid, non-tender
- Normal bile ducts dimensions

- **Surgical clinic**

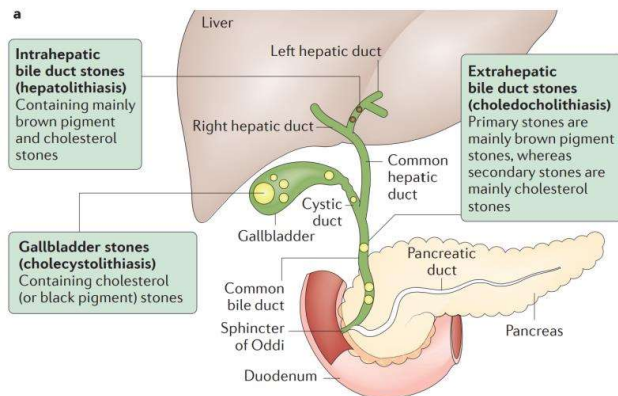
- Patient declined cholecystectomy
- Avoid high fat food
- Discharged from clinic, refer back if required



Case 1: Mrs G 33yo ♀ teacher

6 months later

- Now 14 weeks pregnant
- Worsening RUQ pain 1/7
- Severe, prolonged compared to usual
 - Observations normal, afebrile
 - **Tender RUQ +**
 - No jaundice
 - No peritonism



Which is the least likely diagnosis?

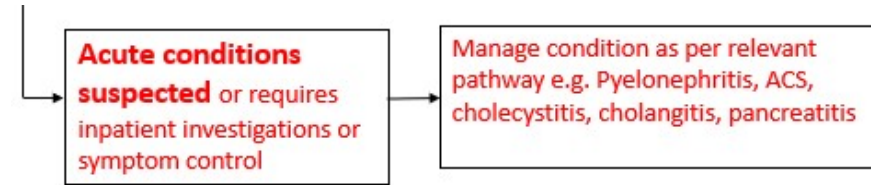
- A) Pancreatitis
- B) Choledocholithiasis
- C) Acute Cholangitis
- D) Acute cholecystitis
- E) Acute coronary syndrome
- F) Mirizzi syndrome

Case 1: Mrs G 33yo ♀ teacher

Transferred to ED for assessment

Oral morphine and paracetamol (NSAIDs contraindicated)

- Urine test normal
- **GGT 300, ALP 230, Bili 9, CRP 23**
- **USS gallstones, CBD 10mm, foetus ok**
- **MRCP choledocholithiasis**
- ERCP removal of stones
- Pain settled discharged
- Cholecystectomy deferred



Case 2: Mr I 46yo ♂ lawyer

- 2x episodes of upper abdominal pain last year
- 2-10 minutes, worse lying on the right
- No exertional pain or SOB
- Stressors at work ++
- “A bottle of whiskey every week”
- Appears anxious “My father had liver cancer”

Medications:

- Nil regular medications

Examination:

- Afebrile, vitals signs normal, BMI 25kg/m²
- No Jaundice, lymphadenopathy , stigmata of chronic liver disease
- Abdomen soft, no masses



What is a standard drink?

Standard drinks measure the amount of pure alcohol you are drinking. One standard drink equals 10 grams of pure alcohol.

*RTD (READY TO DRINK)

Drink Type	Volume	Alcohol Content	Standard Drinks
Approx 1.0 Standard Drink	330ml Can of Beer	4% Alc	1
100ml Glass of Table Wine	12.5% Alc	1	
330ml Bottle of RTD Spirits	8% Alc	2.1	
700ml Bottle of Wine	17% Alc	7.7	
1000ml Bottle of Spirits	47% Alc	37	
3 Litre Cask of Wine	12.5% Alc	30	

Case 2: Mr I 46yo ♂ lawyer

- **Initial labs:**

- FBC, U&E, CRP, Coeliac serology, Lipase (N)
- **GGT 150, ALP 80, ALT 33, AST 82, Bili 6, Ferritin 1211, transferrin saturation 0.32.**
- Urine dipstick (N)

- **Ultrasound:**

- Diffusely echogenic liver
- No features of cirrhosis
- No gallstones and normal bile ducts
- 5mm gall bladder polyp

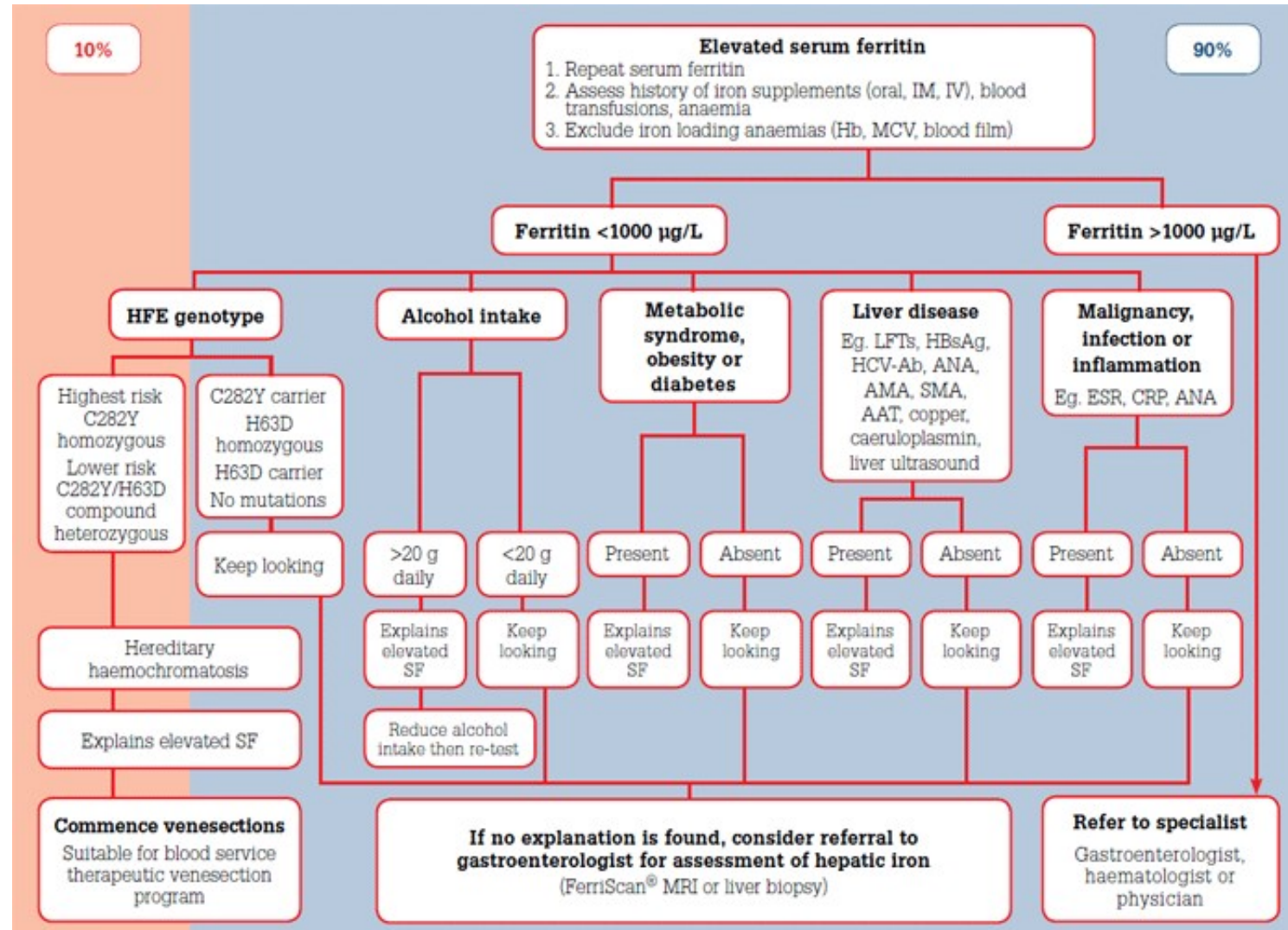


What is the MOST likely cause for Mr I's elevated Ferritin?

- A) Metabolic syndrome
- B) Malignancy
- C) Hereditary Haemochromatosis
- D) Alcohol related liver disease
- E) Gall bladder polyp

Elevated Ferritin

- 90% from non-iron overload conditions, where venesection is NOT indicated.
- Hereditary Haemochromatosis (HH)
 - 1 in 200 people of Caucasian race are homozygous for the C282Y
 - Compound heterozygous H63D/C282Y and H63D homozygous have much lower penetrance (even if ferritin elevated, unlikely overload)
- Transferrin saturation is a better marker of iron overload than ferritin
 - >0.5 male
 - >0.45 females
- Ferritin <1000ug/L in HH is a good negative predictor for organ damage (particularly cirrhosis)



Case 2: Mr I 46yo ♂ lawyer

• Gastroenterology clinic for ? Significance of

- Deranged liver tests
- High ferritin
- Gall bladder polyp

• HH screen – no mutations detected

• Liver screen negative

- Viral hepatitis A/B/C, CMV, EBV
- Autoimmune: ANA, Anti-SM, Anti LKM, Anti-SLA, Anti-Mitochondon
- Metabolic: Hba1c, lipids
- Alpha 1 antitrypsin, serum ceruloplasmin

Management:

- Decrease alcohol intake and lose weight
- Monitor liver tests and ferritin 6 monthly
- **No follow up required for gall bladder polyp**



Which of these are true of Gall bladder GB polyps?

- A) PSC patients with GB polyps are low risk
- B) Asymptomatic GB polyps <6mm do not require routine surveillance
- C) Small symptomatic GB polyps do not require intervention
- D) Pseudo-polyps are rarer than true polyps

Gallbladder GB Polyps

Management and Follow up of gallbladder polyps. ESGAR; European Radiology 2017
Current practice and future prospects for the management of gallbladder polyps: A topical review. World Journal of Gastroenterology. 2018
Polypoid lesions of the Gall bladder: Disease spectrum with pathological correlation. Radiographics, 2015
Outcomes of Gallbladder Polyps and Their Association With Gallbladder Cancer in a 20-Year Cohort JAMA 2020.

- Evidence for optimum management is lacking
- **Ultrasound** is the main imaging for diagnosis and follow-up
- Prevalence on US detection 0.3-9.5%
- Surgical management if **cholecystectomy**
- General consensus is **polyps $\geq 10\text{mm}$** should have **surgery** (low quality evidence)
- Management of **polyps $< 10\text{mm}$** depends on **patient** and **polyp characteristics**

