One 2 One Medicine Clinicas Revision Pourse 2016

Dr. Jake Mann

Course outline

- 1. Abdominal pain
- 2. Blackout
- 3. Bloating
- 4. Change in bowel habit
- 5. Chest pain
- 6. Coma

- 7. Confusion
- 8. Cough
- 9. Dzzines
- 10. Fal
- 11. GI bleed
- 12. Headache
- 13. Itch

Case presentation

A 19-year and general his student presents to his GP with a change in bower nabit.



Case history

He has been passing to a entrol with accasional blood up to 7x per day for the last z weeks.

Case history

- PMHx: nil, no surgery
- FHx: nil - Drugs: nil NKDA
- Social: independent, lives in halls, drinks alcohol 'occasionally'

Differential diagnosis of a change in bowel habit

What examination findings would help?





Case examination

- Alert, well, sat up
- Thin, not cachetic
- Mildly tender abdomen. No masses.
- Normal bowel sounds.

A 19-year old geography student presents to his GP with **a change in bowel habit**. He has been passing loose stool with occasional blood up to 7x per day for the last 3 weeks.

- PMHx: nil, no surgery
- FHx: nil
- Drugs: nil, NNCA
- Social: independent, lives in a nalls, drinks alconol 'occasionally'
- Alert, well, sat up. Thin, not cachectic. Mildly tender abdomen. No masses. Normal bowel sounds.





Differential diagnosis of colitis

- Infectious
 - Bacterial
 - Diverticulitis
 In vestigations?
- Inflammatory
 - Inflammatory bowel disease
 - Ischaemic

[Cancer?]



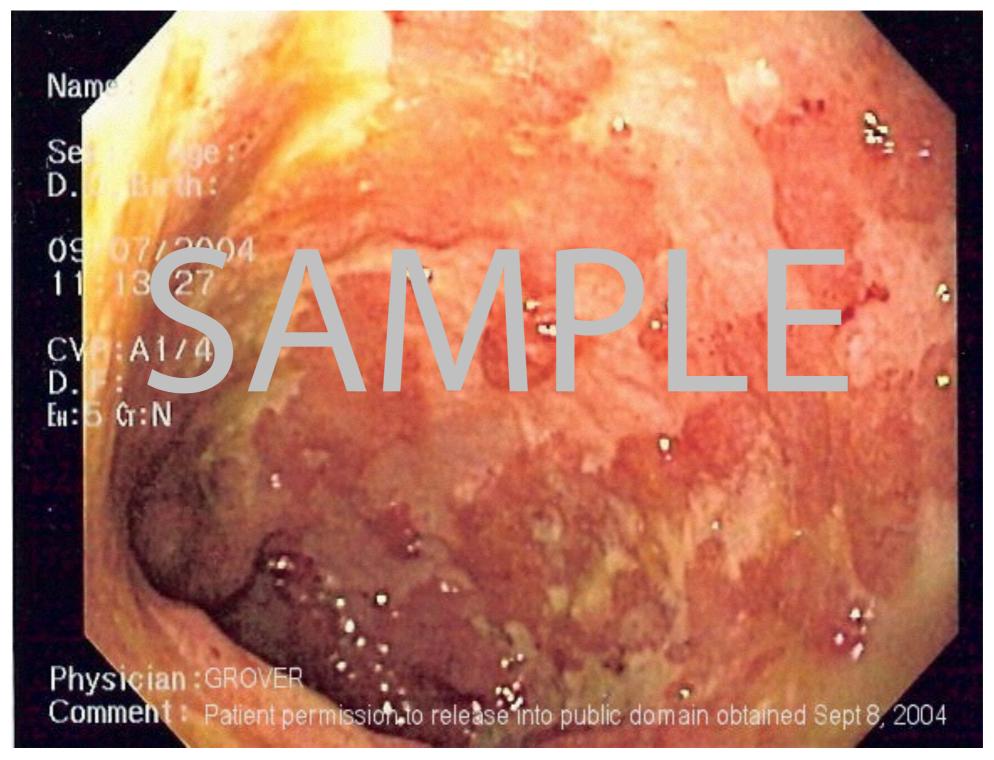
Case investigations

	Result	Range
Hb	91	115 - 160 g/L
MCV	77	80 - 96 fL
WCC	17.6	4.0 - 11.0 cells x10 ⁹ /L
Nev .	; 4	2.0 - 75 c lls x10 ⁹ _
Platel	57.3	50 400 cells x1("
Na+	146	35 - 146 nmol/L
K+	5.0	3.5 - 5.5 mmol/L
Urea	9.3	2.5 - 6.7 mmol/L
ALT	41	3 - 40 IU/L
ALP	130	39 - 117 IU/L
Bili	16	1 - 17 μmol/L
ESR	79	0 - 29 mm/hr

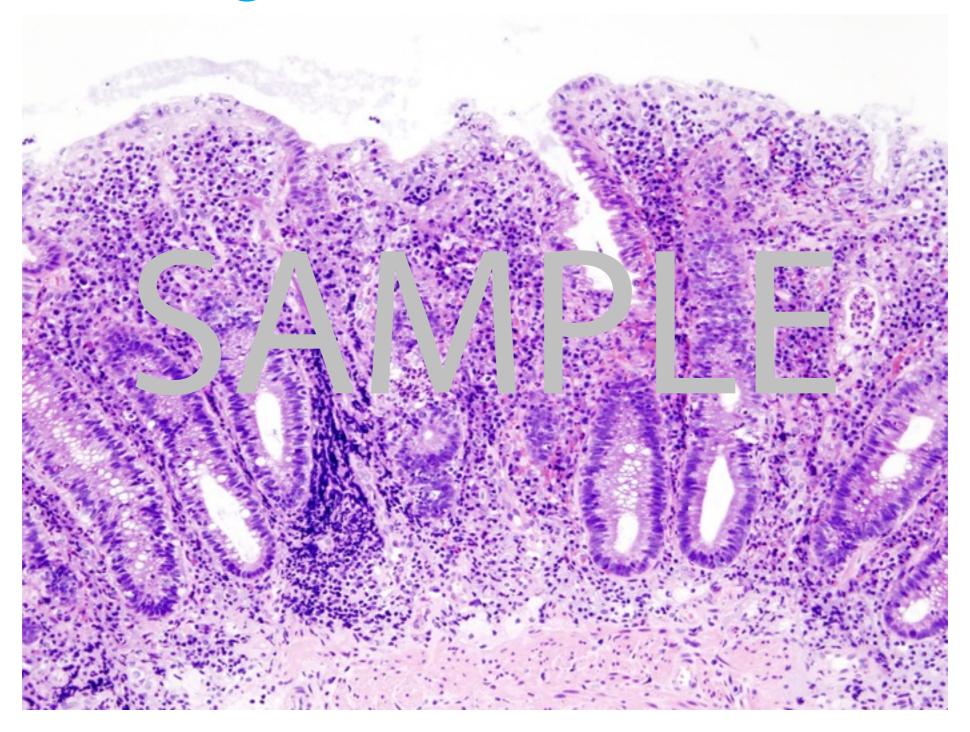
Case developments

Treated with Whyo occurise nearer and siotics. Begins to make a recovery and undergoes coionoscopy.

Case investigations



Case investigations

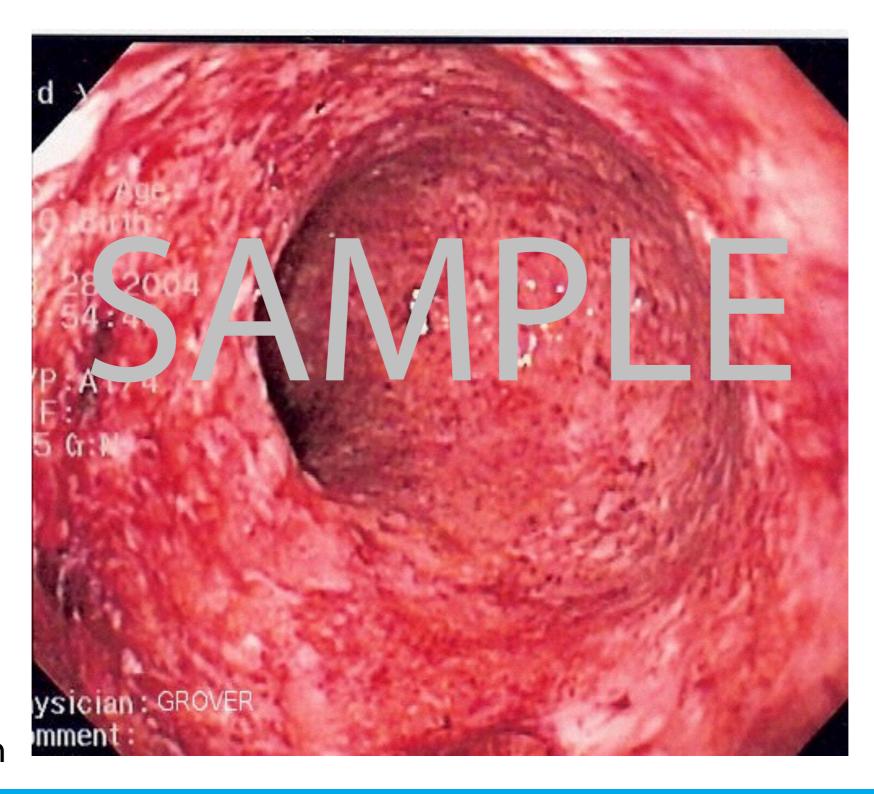


Ulcerative colitis vs. Crohn's disease

Ulcerative colitis	Crohn's disease
Continuous segment	'Skip' lesions
Mucosalı flaior	Tr nsmura inflam nation
Colon only	Anywhere in GIT
No granulomas	Granulomatous
No fistulae	Fistulates

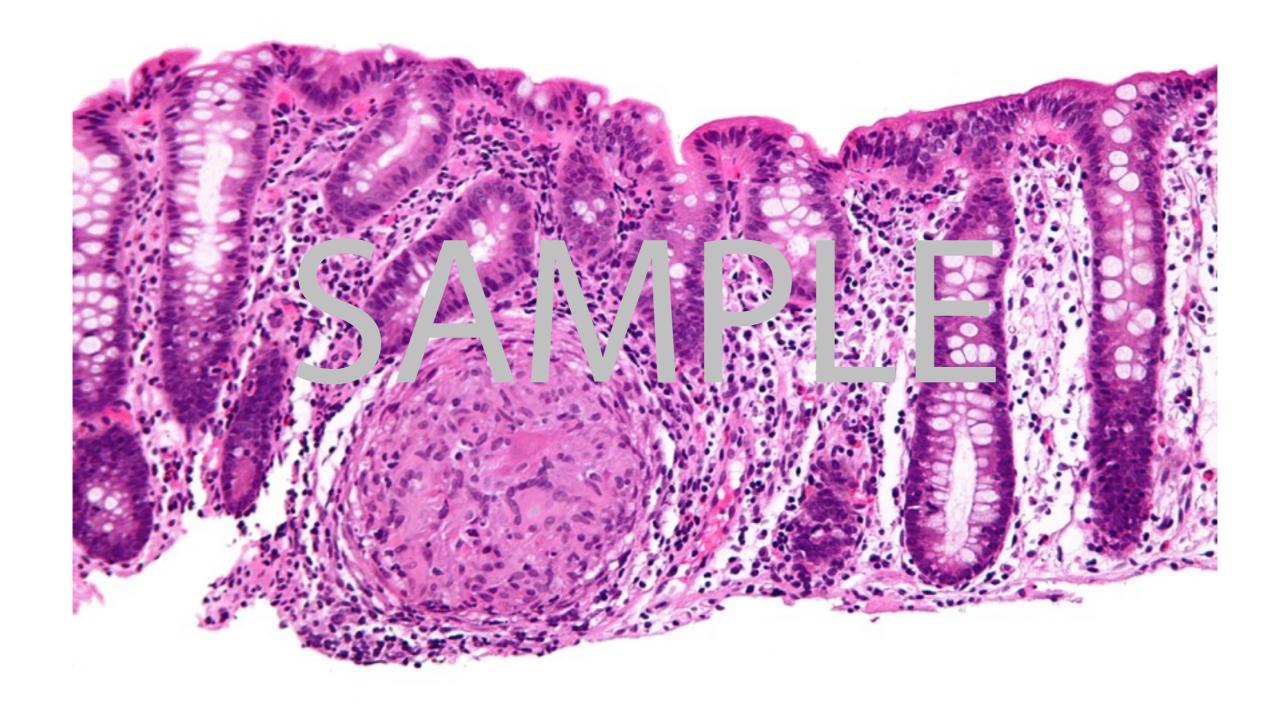


Crohn's disease

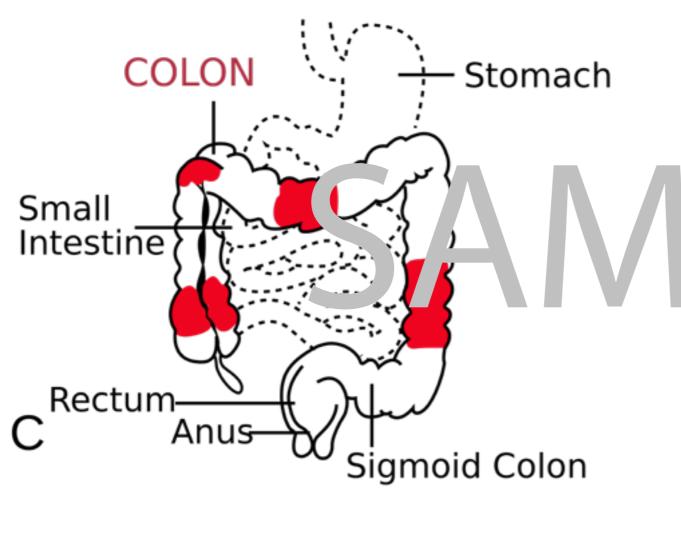


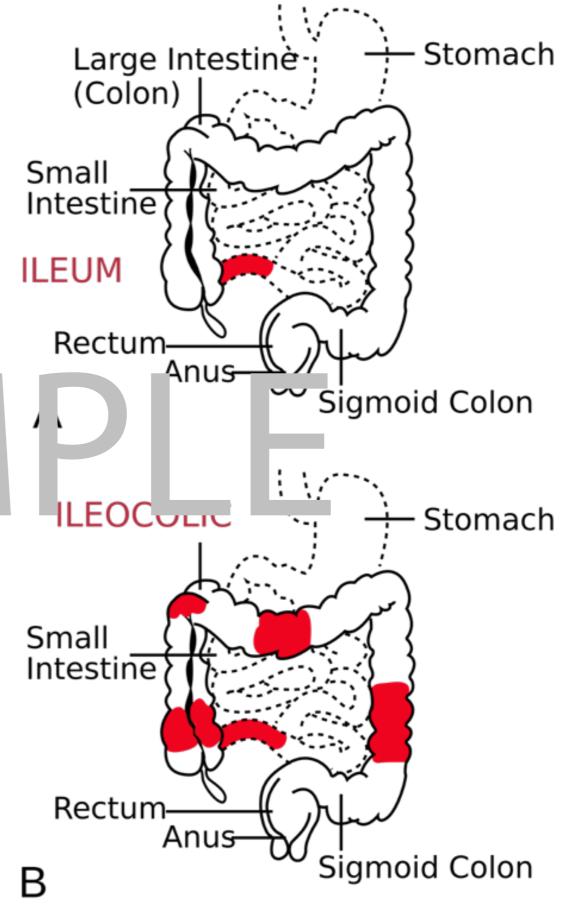


Crohn's disease

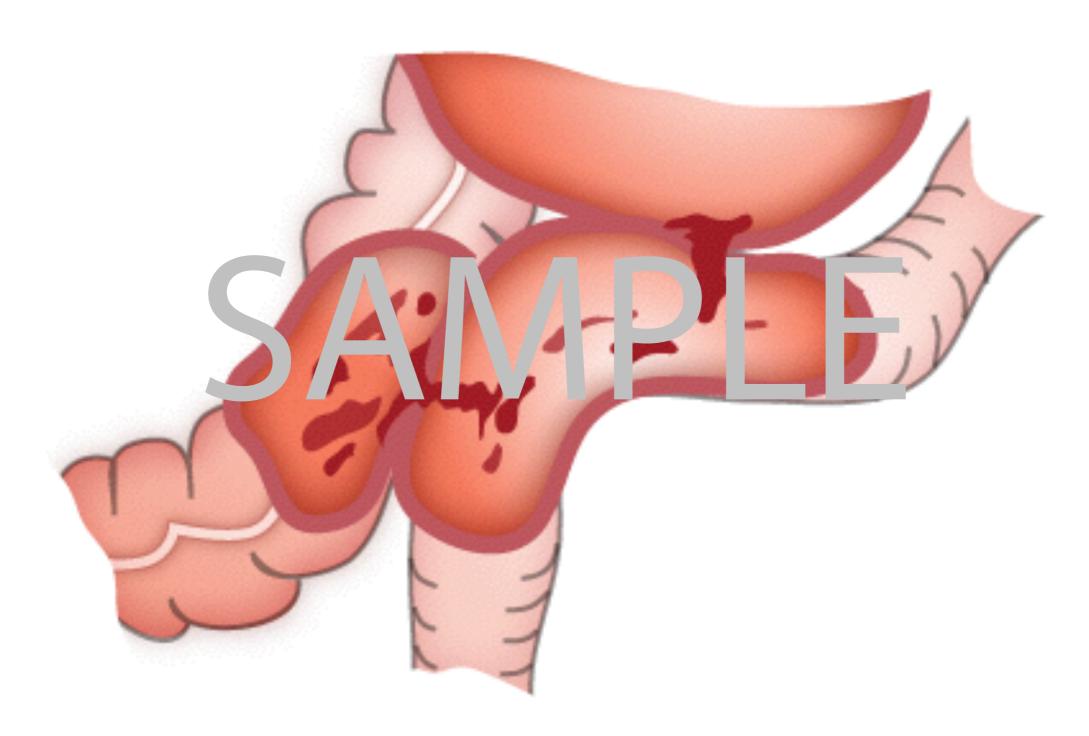


Crohn's disease





Crohn's disease - fistulae





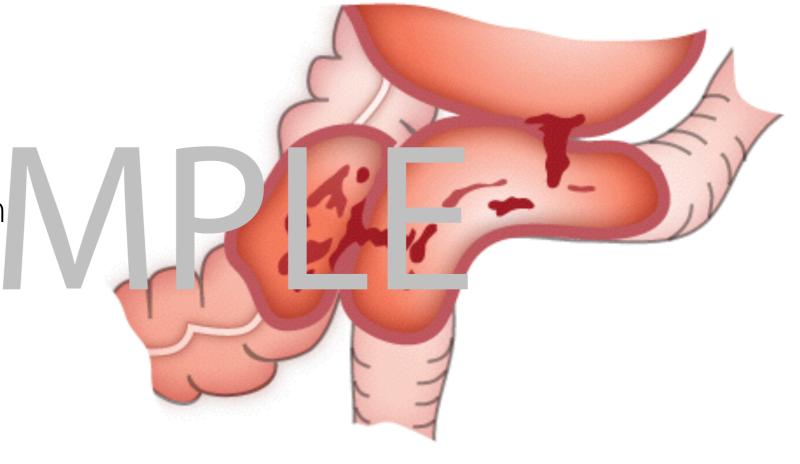
Crohn's disease - fistulae

- Treat infection

- Remove distal obstruction

- Reduce flow

- (Rehydrate)



















Case developments

Long term remission a chieved with aza hipprine (after fallure of trial of sulfasalazine).

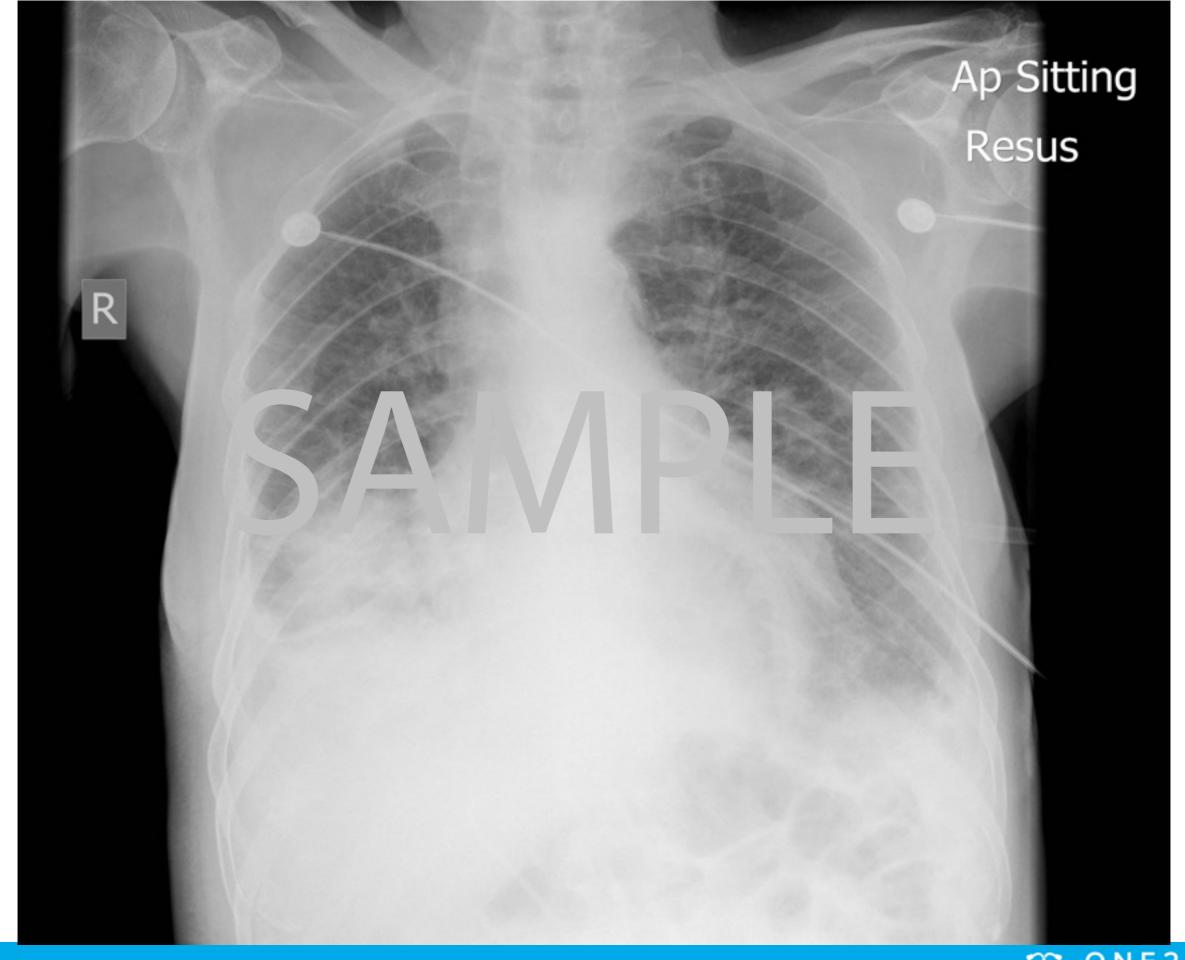
Case developments

Admitte a to A s E with G CS Tr /15, 38.7 degrees, crackins at right ung base.

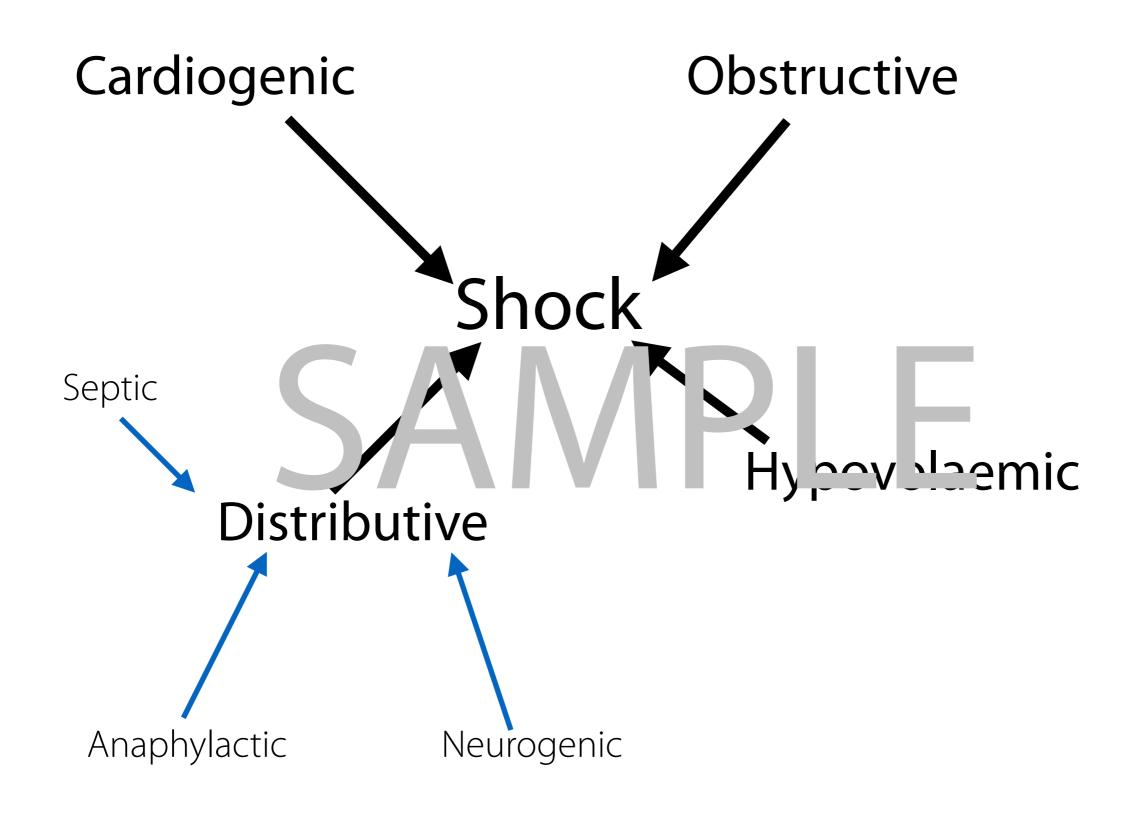
HR 142 bpm, BP 70/48, central capillary refill = 4s.

Case investigations

	Result	Range
Hb	91	115 - 160 g/L
MCV	7.	30 - / 5 fL
WCC	1.5	4.0 - 11.0 cells x10 ⁹ /L
Neut	0.1	2.0 - 7.5 cells x10 ⁹ /L
Platelets	621	150 - 400 cells x10 ⁹ /L
CRP	278	<5 mg/L







Septic shock

- 1. Blood cultures
- 2. Lactate & Hb
- 3. Urine output
- 4. Oxygen
- 5. Antibiotics
- 6. Fluid challenge



Neutropenic sepsis

- Gram positive or negative bacteria
- Culture everything
- Broad spectrum a lti pioti 's
 - E.g. Tazobactam-piperacillin + vancomycin
 - ± Anti-fungals



Case developments

Makes a full recovery with a ppropriate treatment. Maintained on steroich, dic osporin, dinfliximab.

Good disease control is achieved.

Case developments

Attends annual review veeling generally well but signtly tirea. Apaomen son.

Case investigations

	Result	Range
Hb	120	115 - 160 g/L
WCC	10.1	4.0 - 11.0 cells x10 ⁹ /L
Neut	1 1	2
Platele -	1 32	50 - 4)0 (ells x10 ⁹
Na ⁺	35	35 - 146 ı mol/L
K+	5.2	3.5 - 5.5 mmol/L
Urea	6.1	2.5 - 6.7 mmol/L
ALT	82	3 - 40 IU/L
ALP	856	39 - 117 IU/L
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ESR	41	0 - 29 mm/hr

Case investigations

USS abdomen:

Dilated intrahé patit du its, multiple artictures in extrahepatit (acts. No mai ses seen. Coarse liver edge.

Anti-mitochondrial antibody - negative





Liver function test - 'pictures'

- Hepatitic: Very high ALT/AST, slightly high ALP/bili/GGT

- Cholestatic: Very high Al Phili GT, slightly light ALT/AST

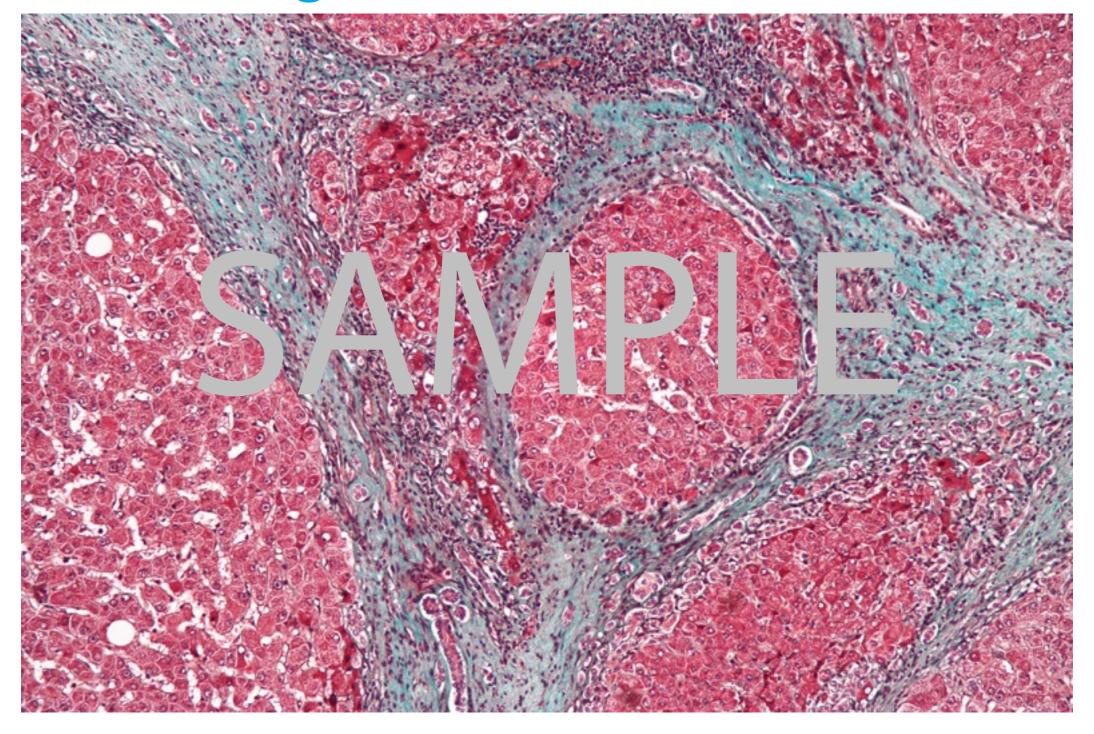
- Mixed

Differential diagnosis of abnormal LFT

Hepatitic	Cholestatic
Alcoholic liver disease	Gallstones
Non-alcoh blic fatty i ver diseal e	Dues
Viral hepatitis	Primary sclerosing cholangitis
Paracetamol overdose	Primary biliary cirrhosis
Other	Cancer



Case investigations

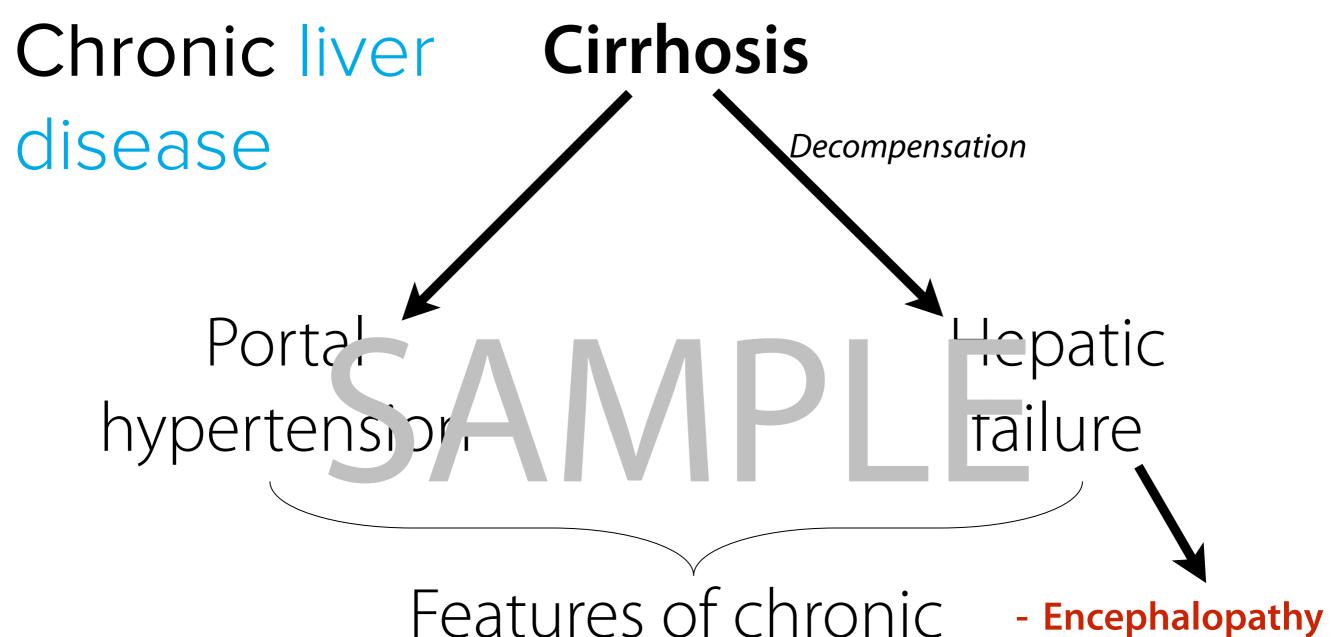


Case investigations

Liver biopsy shows grows at the terral custuption with regenerative not uses and bonds of fibrosis. 'Onion skin' fibrosis around portal tracts.

Case developments



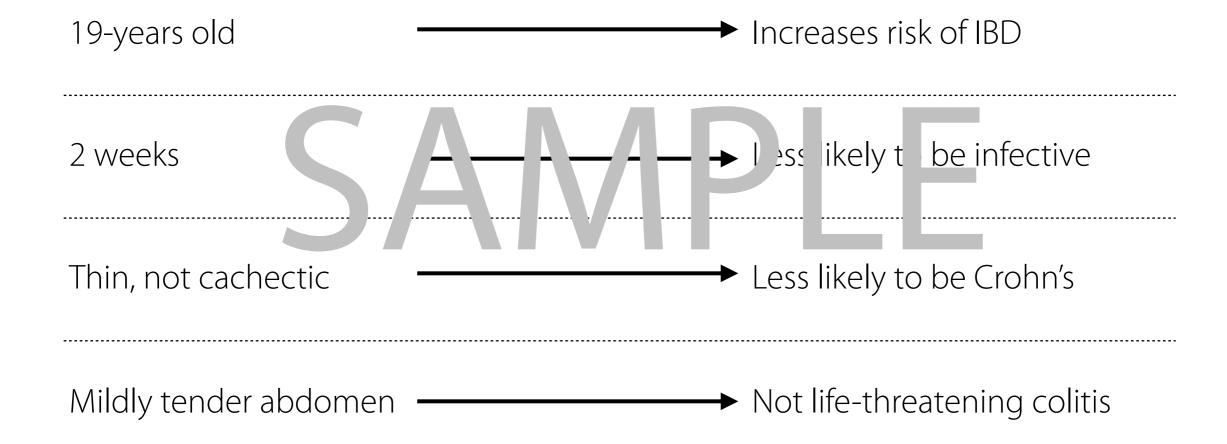


liver disease

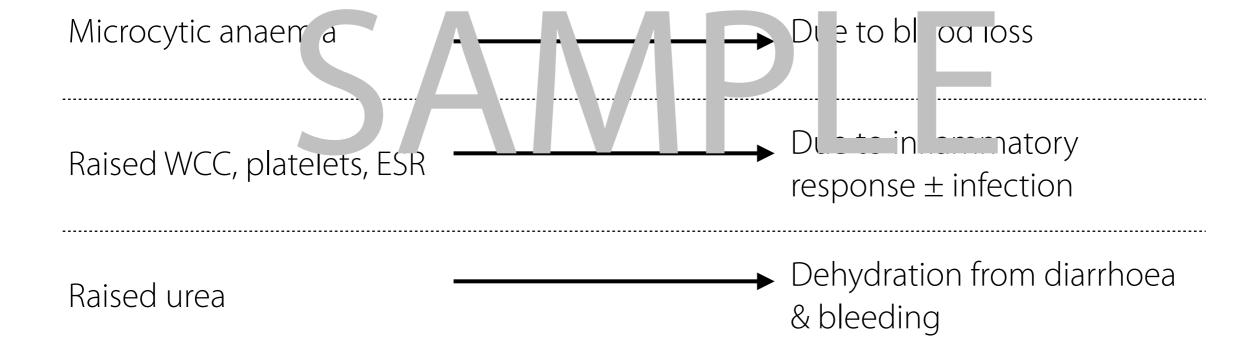
- Coagulopathy
- Hypoglycaemia



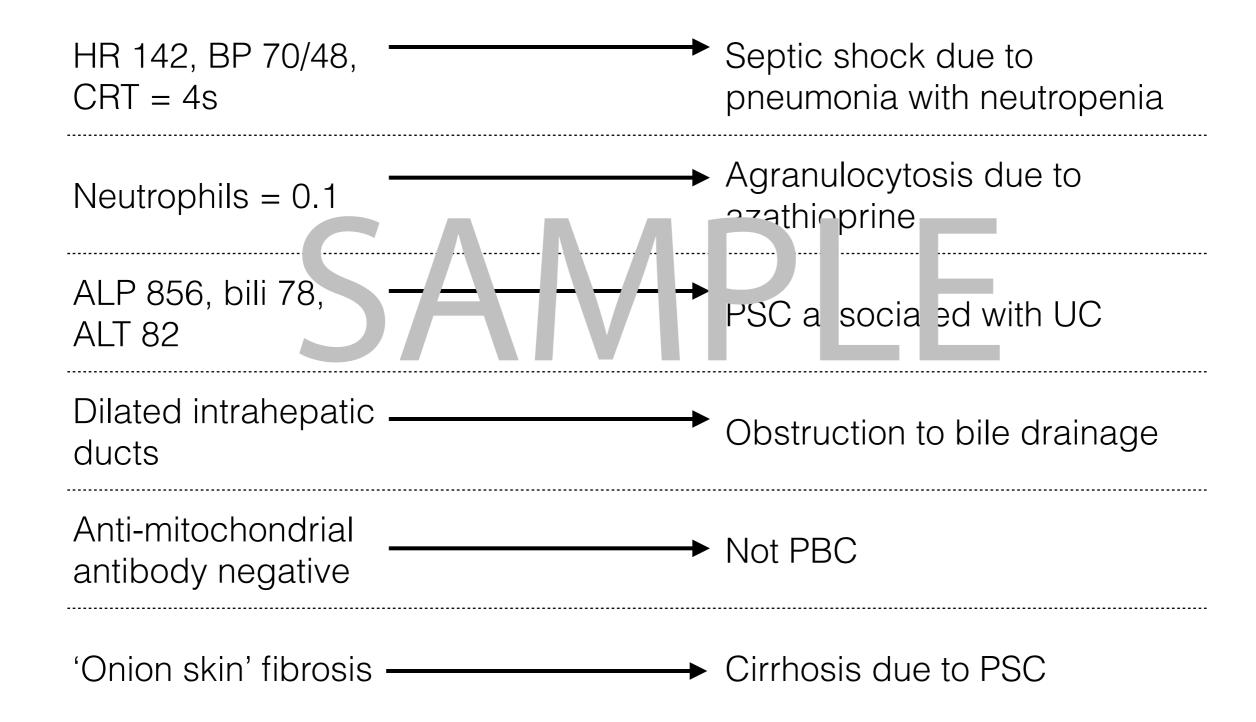
Case summary - history & examination



Case summary - investigations



Case summary - developments



Exam tips

When you read...

Think about...

Tender bruiser on shin

Er/ther a nodosum

'Skip lesions on colonscopy

Crohn's disease

Transmural inflammation with granulomas

Exam tips

When you read... Think about... Positive Inti-mi o hor crial Frin ary b iary cirrhosis an ib uy 'Beads on a string' appearance on Primary sclerosing cholangitis **ERCP**

Additional points

- Acute colitis: do abdominal XR for **toxic megacolon** (dilated transverse)
- Low TPM's predict ose patients to be itrop mia with azathioprine
- Surveillance colonscopy needed for all IBD with colitis and PSC patients
- Ursodeoxycholic acid used to help biliary drainage patients with PSC and PBC