



Portal Hypertensive Bleeding

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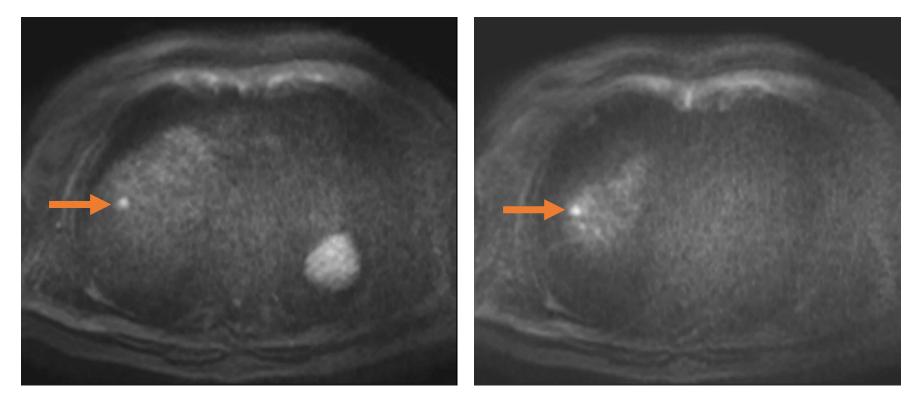
09/05/2022

Case

- 70M
- Background:
 - NAFLD with cirrhosis 2016
 - DVT 2014
 - HCC 2017 hepatic resection
 - Grade 1 oesophageal varices on OGD 2020
 - Ex-smoker
 - Significant coronary artery calcification on CT

Background

- On going HCC surveillance following resection in 2017
- In 2020:

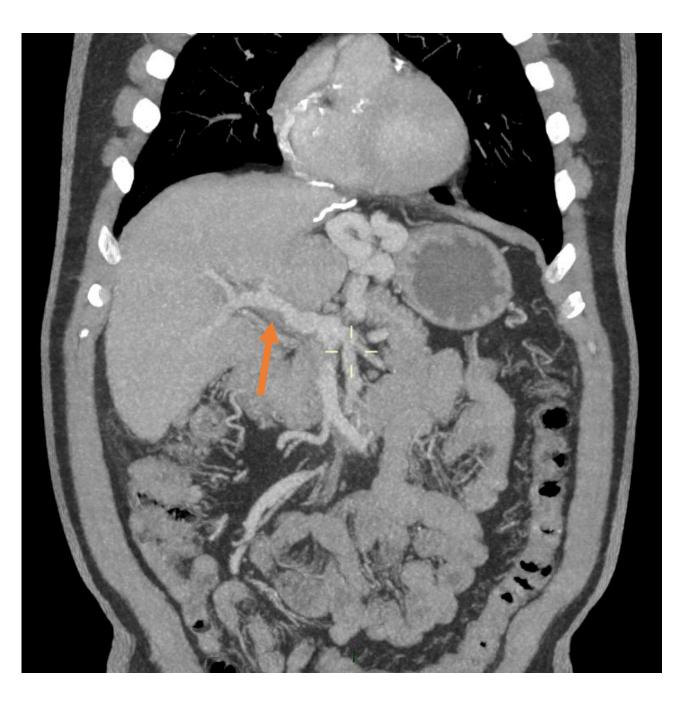


Background

- LIRADS 3 lesions
- On going surveillance with 6 monthly MRI and CT Triple Phase Liver
- December 2021:
 - Lesions developed more typical appearance of HCC on MRI and CT, now LIRADS 4
 - Discussed at MDT not transplant candidate but suitable for RFA

Background

- Triple Phase CT Dec 2021
- Non-occlusive portal vein thrombosis
- Anticoagulation with LMWH commenced
- Commenced on Carvedilol



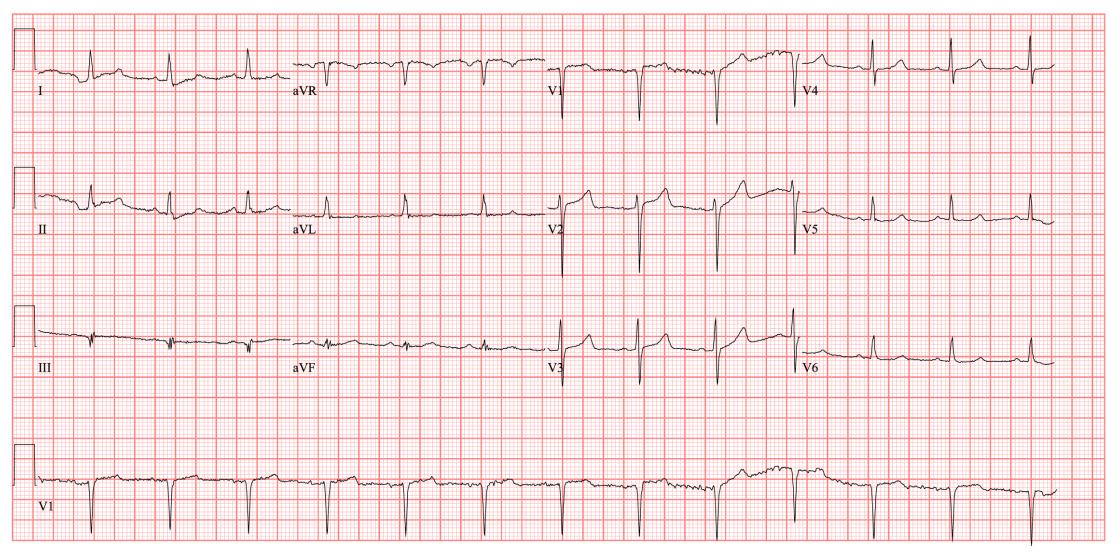
Admission 28/02/22

- Presents to the Emergency Department with 2 episodes of haematemesis
- Initial assessment:
 - Appeared well, comfortable
 - Stigmata of CLD
 - RR 20/min, HR 86bpm, BP 109/74mmHg
- Initial Investigations:
 - Hb 118, Plts 89, PT 17, Urea 5.9, Bili 31, Creatinine 60
- Glasgow-Blatchford Score 6

Admission

- Plan in ED:
 - Fluid resuscitation
 - Cross match
 - Admit for inpatient OGD
 - ECG
- Carvedilol and dalteparin withheld

ECG in ED

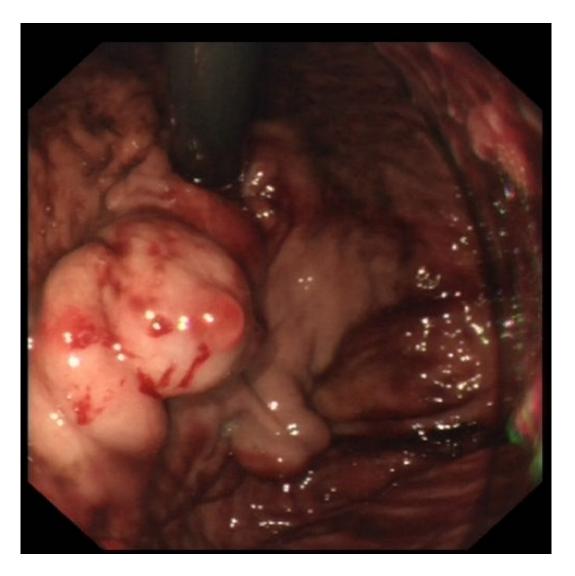


Admission – Emergency Department

- Further haematemesis and now melaena whilst still in ED Transferred to resus and re-assessed:
 - Haemodynamically stable BP 140/90mmHg, HR 100bpm
 - Now clammy and pale
- IV Terlipressin 2mg and IV Co-amoxiclav administered
- Given 2 units PRCs
- Discussed with on-call haematologist Vit K 10mg & 2 pools platelets
- Discussed with on-call Gastroenterology consultant plan for emergency OGD in Endoscopy Unit

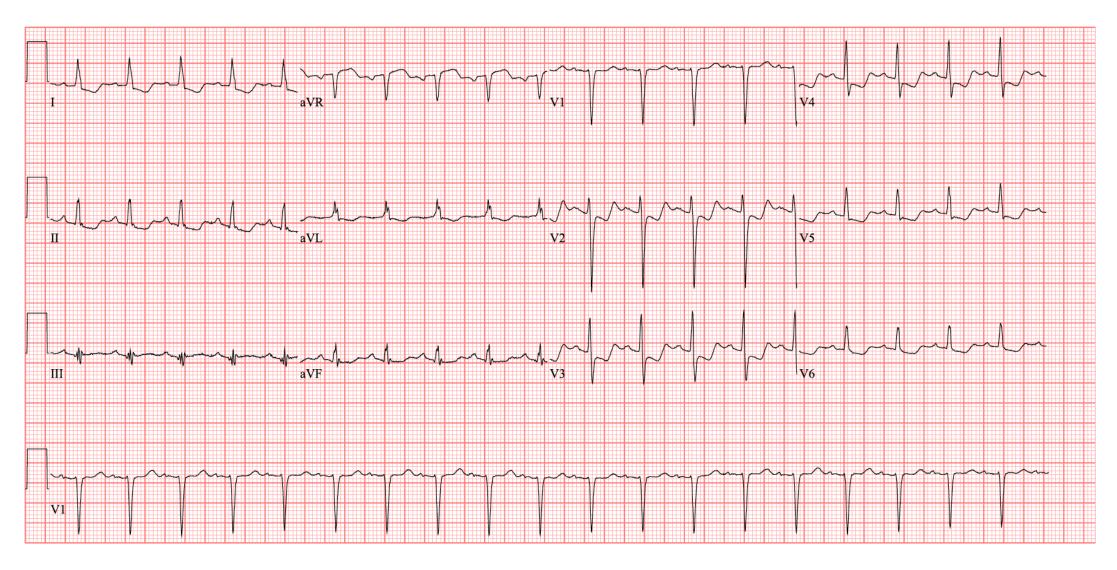
Admission – Endoscopy

- Transferred directly from ED Resus to Endoscopy Unit
- OGD Well covered grade 1 varix in oesophagus. Fresh and altered blood in stomach with large gastric fundal varices, one with erosion present. Injected with thrombin.
- Haemostasis achieved



- Plan post OGD:
 - HDU for monitoring
 - Continue Terlipressin and antibiotics
 - Target Hb >70
- Further small episodes of melena overnight
- Following morning develops central chest pain

ECG in HDU



- Troponin 25 -> 2418 (Normal <34)
- Discussed with Cardiology Registrar:
 - Likely Type-2 myocardial infarction
 - Thought to be terlipressin induced ischaemia exacerbated by anaemia in context of variceal bleed
- Terlipressin discontinued
- Chest pain subsided and ECG normalised

• Given risk of re-bleeding, ischaemia from terlipressin and need for on going anticoagulation for PVT more definitive treatment sought

• Discussed with Interventional Radiology –TIPS not felt to be technically feasible due to PVT but BRTO possible

- Listed for BRTO procedure 48 hours later on day 3 of admission
- No further bleeding witnessed
- Initial scheduled procedure cancelled due to COVID-19 affecting staffing in Interventional Radiology Department
- Procedure rescheduled and performed on day 8 of admission

BRTO



Admission – Ward

- BRTO successful with no complications
- Observed in HDU for 24hr then stepped down to ward
- Dalteparin and Carvedilol re-started the following day
- Remained well and discharged 48 hours later

Follow Up

- Remains well with on going hepatology clinic follow up
- Planned for RFA to treat recurrent HCC

Summary



- 70M, NAFLD cirrhosis, recurrent HCC awaiting RFA
- On Dalteparin for non-occlusive PVT
- Admission with gastric variceal bleed endoscopically treated with thrombin injection
- Terlipressin induced complication myocardial ischaemia
- BRTO arranged for more definitive treatment
- Procedural delay due to COVID19
- Successful BRTO with no complications
- Patient remains well and awaits treatment for HCC