



DECOMPENSATED CHRONIC LIVER DISEASE GUIDELINE

SUSPECT

SIGNS

JAUNDICE
 INCREASING ASCITES
 GI BLEEDING
 RENAL IMPAIRMENT
 SEPSIS / HYPOVOLAEMIA

CAUSES

GI BLEEDING
 INFECTION / SEPSIS
 ALCOHOLIC HEPATITIS
 DRUGS (eg ETOH / OPIATES / NSAID's)
 HEPATOCELLULAR CARCINOMA
 ISCHAEMIC LIVER INJURY
 ACUTE PORTAL VEIN THROMBOSIS
 CONSTIPATION
 DEHYDRATION

ACUTE KIDNEY INJURY

If recent baseline Creat known
MODIFIED RIFLE CRITERIA
 1. Creat rise > 26µmol/L in 48hrs or >50% rise in 1/52
 2. Oliguria: UO < 0.5mls/kg/hr for > 6hrs
 3. Clinically dehydrated
 If baseline renal function unknown
 Creat >90 or eGFR <60

ENCEPHALOPATHY SCALE

Grade 1: Mild behavioral disturbance
Grade 2: Confusion, asterixis
Grade 3: Stupor, nystagmus, clonus
Grade 4: Coma

INVESTIGATE

ALL PATIENTS

FBC, UE, LFT, Clotting profile

CONSIDER

CRP
 VBG,
 Ca⁺⁺, Mg⁺⁺, PO₄⁻
 Blood cultures / septic screen

ED Abdominal USS (in hours)

Consider if
 Alternative diagnosis suspected
 Suspicion portal vein thrombosis
 Ascitic fluid tap
 Determine filling status
 Renal tract (differentiate renal / post-renal AKI)

Ascitic tap

For ALL admitted patients with ascites
 Can be done by ED / Hepatology Reg
 Use USS if available or clinical doubt regarding optimal site
 Don't let ascitic tap delay antibiotic administration if SBP suspected
 Check clotting
 INR <2.5 ED or Hepatology
 INR >2.5 Hepatology only
 Send fluid for
 Cell count (purple EDTA)
 Fluid MC&S (blood culture bottles)
 Fluid albumin (specimen container)
 SBP if cell count > 250cell/mm³

TREAT

COAGULOPATHY & THROMBOCYTOPENIA

NO BLEEDING	INVASIVE PROCEDURE	GI BLEEDING
Correction of coagulopathy not required	INR: 1.1-2.5 Give 10mg Vit K (often ineffective) >2.5 d/w Haematology Platelets <50: give 1 pool IV platelets (should increase platelets by 20-40x10 ⁹ /L)	See Upper GI Bleeding Protocol SCGH ED & Massive Transfusion Protocol SCGHED.com

ASCITES / HYPONATRAEMIA /AKI

	HYPOVOLAEMIA	EUVOLAEMIC	HYPERVOLAEMIC
SHOCKED / UNSTABLE	20% IV Albumin 100mL	Avoid 0.9% N/S Consider Fluid restriction Diuresis (d/w Hepatology)	
0.9% N/S (250-500mL boluses) 20% IV Albumin 100mL ± Vasopressors			
	ACUTE KIDNEY INJURY? (see inset) Likely pre-renal Suspend all nephrotoxics / diuretics Monitor urine output ± IDC	ACUTE KIDNEY INJURY? (see inset) Likely renal / post-renal Monitor urine output ± IDC Urinalysis (blood / protein) Exclude obstruction (consider USS renal tract)	

ENCEPHALOPATHY (see inset)

Identify potential precipitants and their correction
 Trauma (CT head), GI bleed, constipation, dehydration, sepsis, toxins / drugs
 Empirical treatment
 Lactulose 30mL PO / NG (oesoph varices are NOT a contraindication to NG insertion) or Fleet enema PR
 Correct hypokalaemia
 Avoid sedatives
 Consider airway protection / ICU / HDU or review boundaries of care
 Ammonia levels are NOT useful for diagnosis or management

SEPSIS / INFECTION

Spontaneous bacterial peritonitis: Tazocin 4.5g IV (Ciprofloxacin 400mg IV if Pen allergy)
 20% Albumin IV 100mL

ALCOHOL

Document daily intake
 Give Thiamine 100 OD-TDS PO or B-dose 2mL IV if malnourished
 Avoid AWC (Alcohol Withdrawal Charts)- use minimal sedative BDZ and frequent medical review