

Decompensated Cirrhosis Care Bundle - First 24 Hours

Decompensated cirrhosis is a medical emergency with a high mortality. Effective early interventions can save lives and reduce hospital stay. This checklist should be completed for all patients admitted with decompensated cirrhosis within the first 6 hours of admission.

1	L. Investigations								
a)	INEWS 🖬 FBC 🗖	U&E 🗖	LFT 🗖	Coag			Ca/PO ₄ /	′Mg 🛛]
b)	Blood cultures 🖵		Urine Dip/ MSU 🛛	CXR 🗆	Request abdo	USS	CRP	ב	Initials:
c)	Perform ascitic tap in irrespective of clottin and fluid albumin					lture	Done Y N	N/A D	Time:
d)	Record recent daily alcohol intakeUnits								
2. Alcohol - if the patient has a history of current excess alcohol consumption (>8 units/day Males or >6 units/day Females) N/A									Initials:
a)	Give IV Pabrinex (1-2 protocol	pairs of vials	three times da	aily) per ho	spital	YN			Time:
b)	Commence CIWA score	re if evidenc	e of alcohol wi	thdrawal		Y N	N/	Ά	_
3	3. Infections - if sepsis or infection is suspected N/A								Initials:
a)	What was the suspect	ed source?							
b)	Treat with antibiotics	in accordan	ce with hospita	al protocol			<u>ا</u>	ΎΝ	Time:
c)	If the ascitic neutroph				en give:			Y N]
	I) Treat with antik	· · ·	<u> </u>				Y		_
	II) IV albumin (20% (20g of albumin in						Y	Y N NA	
(20g of albumin in 100ml of 20% Human Albumin Solution) 4. Acute kidney injury and/or hyponatraemia (Na <125 mmol/L)									
	, ,		n serum creatin					•	
AKI (defined by modified	2: ≥50% rise in serum creatinine over the last 7 days or							
	RIFLE criteria		put (UO) <0.5m	ls/kg/hr for i	nore than 6	hrs base	ed on dry	weight or	
a)	Suspend all diuretics a	4: Clinically	-				,	Y N NA	Initials:
,	•			on or 0.9%	Sodium Chl	orido		Y N	Time:
b)	Fluid resuscitate with 5% Human Albumin Solution or 0.9% Sodium Chloride (250ml boluses with regular reassessment: 1-2L will correct most losses)								
c)	Initiate fluid balance chart/daily weights						,	YN	
d)	Aim for MAP>80mmHg to achieve UO>0.5ml/kg/hr based on dry weight						,	YN	
e)	At 6 hrs, if target not achieved or EWS worsening then consider escalation to higher level of care							Y N NA	
	5. GI bleeding – if the	-		-			-		
a)	Fluid resuscitate according to BP, pulse and venous pressure (aim MAP >65 mmHg)					. .	YN	_	
b)	Prescribe IV terlipressin 2mg every four to six hours (caution if known ischaemic heart disease or peripheral vascular disease; perform ECG in >65yrs)						rs)	Y N NA	
c)	Prescribe prophylactic antibiotics as per hospital protocol (usually ceftriaxone unless contraindicated)						YN	Initials:	
d)								Y N NA	Time:
e)	If PT> 20 seconds (or INR >2.0) – give Octaplas®							Y N NA	┥└────
f)	If platelets <50 – give IV platelets							Y N NA	-
g)								Y N NA	4
h)) Early endoscopy after resuscitation (ideally within 12 hours)							Y N	

e	N/A 🗆			
a)	Look for precipitant (GI bleed, constipation, dehydration, sepsis etc.)	YN	Initials:	
b)	Encephalopathy – lactulose 15-30ml TDS or phosphate enema (aiming for 2-3 soft stools/day)	Y N	Time:	
c)	If in clinical doubt in a confused patient request CT head to exclude subdural haematoma	Y N	N/A	
7	7. Other			
a)	Venous thromboembolism prophylaxis – prescribe prophylactic LMWH (patient liver disease are at a high risk of thromboembolism even with a prolonged prothrombin time; w if patient is actively bleeding or platelets <50)	Y N NA	Initials: Time:	
b)	GI/Liver review at earliest opportunity (ideally within 24 hrs)			

Name.....Date.....Time.....Time....

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The recent NCEPOD report 2013 on alcohol related liver disease highlighted that the management of some patients admitted with decompensated cirrhosis in the UK was suboptimal. Admission with decompensated cirrhosis is a common medical presentation and carries a high mortality (10-20% in hospital mortality). Early intervention with evidence-based treatments for patients with the complications of cirrhosis can save lives. This checklist aims to provide a guide to help ensure that the necessary early investigations are completed in a timely manner and appropriate treatments are given at the earliest opportunity.

- Decompensated cirrhosis is defined as a patient with cirrhosis who presents with an acute deterioration in liver function that can manifest with the following symptoms:
 - o Jaundice
 - Increasing ascites
 - Hepatic encephalopathy
 - Renal impairment
 - o GI bleeding
 - Signs of sepsis/hypovolaemia
- Frequently, there is a precipitant that leads to the decompensation of cirrhosis. Common causes are:
 - o GI bleeding (variceal and non-variceal)
 - o Infection/sepsis (spontaneous bacterial peritonitis, urine, chest, cholangitis, etc)
 - Alcoholic hepatitis
 - Acute portal vein thrombosis
 - Development of hepatocellular carcinoma
 - Drugs (Alcohol, opiates, NSAIDs, etc.)
 - Ischaemic liver injury (sepsis or hypotension)
 - $\circ \quad \text{Dehydration} \quad$
 - Constipation

When assessing patients who present with decompensated cirrhosis please look for the precipitating causes and treat accordingly. The checklist shown overleaf gives a guide on the necessary investigations and early management of these patients admitted with decompensated cirrhosis and should be completed on all patients who present with this condition. The checklist is designed to optimize a patient's management in the first 24 hours when specialist liver/gastro input might not be available. Please arrange for a review of the patient by the gastro/liver team at the earliest opportunity. Escalation of care to higher level should be considered in patients not responding to treatment when reviewed after 6 hours, particularly in those with first presentation and those with good underlying performance status prior to the recent illness.

1. McPherson S, Dyson J, Austin A, Hudson M. BASL decompensated cirrhosis care bundle – first 24 hours. Frontline Gastroenterology. 2014;0:1-8.