# Liver Disease for the JMO

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Talking the Talk

# Child Pugh Score

MELD Score

Maddreys Score

Lille Score

#### Variceal Bleeding

Assess hemodynamics

Inform gastro on call

Transfuse: Aim Hb 70-80

Terlipressin or Octreotide

Ceftriaxone 1g daily

PPi therapy

**NBM** 

### Charting Terlipressin and Octreotide

terlipressin (base) 1.7 mg intravenously, 4-hourly. Reduce the dose (to 0.85 mg) and/or the frequency (to 6-hourly) once bleeding is controlled. Administer for up to 5 days [Note 4]







OR

2 octreotide 50 micrograms by intravenous injection, followed by 50 micrograms per hour by continuous intravenous infusion for up to 5 days.







NS	10 ml Octreolide 50 microsq	3-5 IV	m	0520
NS	Soonl ochrestide	25- CDMI/ IV	M	0525

#### IVF in Cirrhotics





No salt I hear?

Which one should I use?

Rank from Most to Least amount of Na Content A. Normal Saline

B. 4% and a 1/5 Normal Saline

C. 5% glucose

D. Hartmanns

E. Lactated Ringers

### IVF In Cirrhosis

Content	Plasma	Sodium chloride 0.9%*	Sodium chloride 0.18%/ 4% glucose <sup>a</sup>	0.45% NaCl/ 4% glucose <sup>a</sup>	5% glucose <sup>a</sup>	Hartmann's	Lactated Ringer's (USP)
Na <sup>+</sup> (mmol/l)	135–145	154	31	77	0	131	130
Cl <sup>-</sup> (mmol/l)	95–105	154	31	77	0	111	109
[Na+]:[Cl-] ratio	1.28–1.45:1	1:1	1:1	1:1	-	1.18:1	1.19:1
K+ (mmol/l)	3.5–5.3	*	*	*	*	5	4
HCO <sub>3</sub> -/			0		0	29 (lactate)	28
Bicarbonate	24–32	0		0			(lactate)
Ca <sup>2</sup> +	2.2–2.6	0	0		0	2	1.4
(mmol/l)				0			
Mg <sup>2</sup> + (mmol/l)	0.8–1.2	0		0		0	0
Glucose (mmol/ l)	3.5–5.5	0	222 (40 g)	222 (40 g)	278 (50 g)	0	0
pН	7.35–7.45	4.5–7.0	4.5		3.5–5.5	5.0-7.0	6–7.5
Osmolarity (mOsm/l)	275–295	308	284		278	278	273

#### SBP

1 ceftriaxone 2 g (child 1 month or older: 50 mg/kg up to 2 g) intravenously, daily







OR

cefotaxime 2 g (child: 50 mg/kg up to 2 g) intravenously, 8-hourly.







albumin 20%, 1.5 g/kg (7.5 mL/kg) intravenously, within 6 hours of diagnosis and 1 g/kg (5 mL/kg) intravenously, as a single dose on day 3.

### Trouble Shooting Ascitic Drains

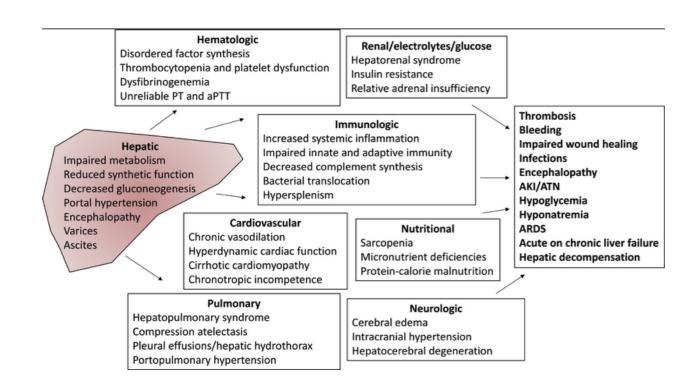
#### Patient

- Roll the patient
- Self massage

#### Drain

- Kinked
- Drain needs to be pushed in or pulled out a small amount

# Optimising a Liver Cirrhotic



## Optimising a Liver Cirrhotic

- •Nutrition:
  - High energy, high protein, low salt
- •Encephalopathy:
  - Lactulose, Rifaxamin
- Reduce nephrotoxic agents
- Targeted reversal of coagulation

#### The Liver Screen

FBC, EUC, CMP, LFTs, INR, AFP, HDL, LDL, total cholesterol, Hepatitis A serology, hepatitis B sAg/sAb/eAg/cAb/eAb, hepatitis C Ab, hepatitis E serology, HIV serology, CMV serology, EBV serology, anti-LKM1, anti-mitochondrial antibody, smooth muscle antibody, ANA, ANCA, EMA, IgG subclasses (1-4), EPG/IEPG, IgA, IgM, and total IgG, Iron studies, serum caeruloplasmin, copper, A1AT level and phenotype, HbA1c, TSH

## Questions?