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**Date:** 03/09/2025 03:35 PM  
**Subject:** CPC Clinical Protocol 03.09.2025

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Dear All,

The next Wednesday CPC will be held tomorrow, **September 03, 2025** at **08.00 hours** (IST) in **Lecture Theatre 1**, Nehru Hospital, PGIMER, Chandigarh under the Chairmanship of **Prof. Sanjay Jain**.

The session will also be available on the Webex platform. Kindly follow the link below to join.

<https://pgitelemed.webex.com/pgitelemed/j.php?MTID=md00288711fdbf94321a0819943e426a2>

In case you join in thru WebEx, kindly **ensure that your microphone and camera are switched off** and **PLEASE DO NOT SHARE YOUR SCREEN**.

The Clinical handout of the case to be discussed is attached herewith.

The clinical protocol will be discussed by **Dr. Pankaj C Vaidya, Department of Pediatrics**. Radiology will be presented by **Dr. Anmol Bhatia**. Autopsy pathology will be presented by **Dr. Animesh Saurabh**.

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Yours sincerely,

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Regional Resource Centre, North  
Department of Telemedicine  
PGIMER, Chandigarh

**STAFF CPC (03/09/2025)**

D,5 months/ Mch; **DOB:** 24.08.2024; **R/O**Jind, Haryana  
**CR No.:**202501240659; **Adm no.:** 2025006280  
**DOA:** 22.01.2025  
**DOD:** 22.02.2025 (Hosp. stay 1 month)

**ClinicianIncharge:** Dr.SadhnaLal  
**Clinical Discussant:** Dr Pankaj C Vaidya  
**Radiologist:** Dr Anmol Bhatia  
**Pathologist:** Dr Animesh Saurabh

**Presenting Complaints:** 1. Yellowish discoloration of skinsince 2 month of age, 2. Abdominal distension since 2 month of age, 3. Breathing difficulty x 15 days, 4. Lethargy, poor feeding x 15 days, 5. Altered sensorium x 2 days.

**HOPI:** The child was apparently well till 2 months of age when parents noticed yellowish discoloration of skin. At 3 months of age, went for normal f/u, local doctor who also noticed yellowish discoloration and mild abdominal distension, told to have some problem in liver and referred to higher centre. Child then had gradually progressing abdominal distention-insidious in onset, generalized. On enquiring h/o passage of pale stools and diaper staining since birth. Parents noticed breathing difficulty since last 15 days in the form of fast breathing and subcostal retractions along with noisy breathing. Child also was lethargic and not feeding well for last 15 days. Also noticed to have altered sensorium for 2 days prior to presenting to PGI.No h/o fever, pruritis, feed intolerance/vomiting/loose stools, seizures/excessive irritability, CAM intake. No h/o melena/any bleeding manifestations.

**Treatment history:** Admitted twice before admission to PGI – jaundice, liver problem, sepsis (had resp. distress), anemia infantile cholestasis/early CLD/portal cavernoma – received symptomatic treatment IVAB, IVF, npO2, 1 PRBC → referred to PGI as decompensated COI (ascites+, coagulopathy+).

**Past history:** Nothing significant

**Birth history:** Antenatal: H/o 1 abortion, h/o pruritis since 6<sup>th</sup> month of gestation.Natal: Child was born at Civil hospital, Jind–36wk late Preterm/NVD/1.5kg/CIAB/no h/o NNJ/no h/o NICU admission/smooth perinatal transition/no h/o delayed passage of meconium. Discharged on DOL 3.Postnatal: Uneventful. **Family history:** 2<sup>nd</sup> born to a non-consanguineously married couple. No h/o jaundice or similar illness. **Immunization:** only Birth dose taken. **Dietary history:** On exclusive breast feeding. No h/o top feed.

**Anthropometry:** Weight: 5kg (-3.51z), Length: 54cm (-5.61z), OFC: 36cm (-5.41z)

**G/E:** Conscious, GC-sick, Temperature: 98.6°F, HR–70-85/min, RR-52/min, BP 137/74 mmHg. CP/PP – ++/++, CRT – <3seconds, SpO2 - 98% on npO2, Icterus +, Moderate-severe pallor/icterus+/ no cyanosis/ no rashes/ no lymphadenopathy, AF open at level – 1.5x2cm membranous, rachiatric rosary+. RBS 35 → bolus → 132.

**P/A:** Inspection: Grossly distended, yellowish discoloured, umbilicus inverted, grossly dilated tortuous veins+ over abdomen, no prominent veins on back, left hemi-scrotum swelling. Palpation: Soft, non-tender, Liver 1 cm below right costal margins in MCL line, 2 cm in midline, firm-hard in consistency, sharp margins, irregular edges, granular surface. Spleen 3 cm below LCM, firm non reducible swelling Lt inguinal/scrotal region. Percussion: shifting dullness+. Auscultation: BS+

**RS:** B/L air entry present, equal. B/L crepts and conducted sounds present. **CVS:** S1, S2, continuous murmur present at interscapular region. **CNS:** GCS: E4M6V5, AF – 1.5x2cm membranous.

**Investigations:**

Date	24/01	25/01	28/01	29/01	03/02	06/02	10/02	13/02	17/02	20/02
Hb	12.9	12.2	12.2	12.7	8.5	8.1	6.8	6.4	6.3	6.5
TLC	23480	17940	17380	18260	10670	15000	5860	5860	7060	7620
DLC		50/38	55/35		34/49		49/39		49/40	46/45/2/6.6
Plat	1.48L	1.18L	1.18L	1.03L	1.1L	1.03L	75k	90k	59k	71k
MCV	83.2	81.9	77.3	78	79	78.3	78.4	81	87	94
MCH	25.8	26	25.8	25.9	26	27.4	27	32.4	27.5	28.5
MCHC	31	31.8	33.4	33.1	33	35	35	40	31.7	30.4
PBF	fragmented cells									

Date	01/01	25/01	27/01	28/01	29/01	04/02	06/02	09/02	13/02	17/02	20/2	22/02
Na/K/Cl	143/4.60/ 112	139/4.6/ 108	132/4.36 /95	127/5.22 /94	123/4.9 /90	123/3.63 /76	116/4.56 /69	111/3.79 /70	132/5.12 /97	140/3.56/ 102	140/4.55/ 108	138/4.57/ 108
Urea/creat	34/0.20	31/0.25	37/0.12	36/0.18	23/0.16	26/0.19	31/0.1	35/0.22	20/0.02	29/0.26	31/0.23	31/0.21
Ca/PO <sub>4</sub>	8.2/2.5	9.3/3				9.3/3.8						
Tb/cb	19/9.3	18.7/8.8	17/9	17.7/7.2	20.6/9.6	25/10	24.3/12.7	23.24/15	26.56/12.35	26.42/16.62	29/19	28.6/13.3
TP/Alb	4.5/2	4/1.8	4.2/1.6	4.5/2.6	3.8/1.8	3.8/2.9	4.6/3.68	3.4/3.0	3.7/3.3	4.2/3.8	4.5/4.1	4.6/4.2
AST/ALT	414/264	301/230	260/204	282/188	231/155	421/150	350/135	325/97	246/94	329/121	246/128	230/122
ALP		348		380	407	344	295	239	188	233	252	286
CRP	7.4	6.8			10							9.6

Procal	2.6			0.8		1.5		2.5		1.8	
PT/PTI	25.7/44	26.7/42		30.2/37	31.1/36	38.3/29	44.5/25	42.4/26	37.5/30		>2min
INR/aPTT	2.29/45.9	2.38/54		2.70/78	2.78/82	3.42/>2	3.97/>2	3.78/>2	3.35/>2		>2min
TT				.1	6	min	min	min	min		
Fib/d-dimer		0.52/437		0.89/30	0.83/323		0.32/230		0.351/29		
		0		96	7		7		33		

TC/TG/HDL/LDL	53/77/13.8/72
Uric acid	3.4
ABG (admission)	pH 7.29, PCO2 50.8, HCO3 23.6
Ammonia (23/01)	59
Lactate (23/01)	2.8
AFP (23/01)	239
DCT	Negative
Gamma-glutamyltransferase (GGT)	30 ↓ (>125 U/L [2.0 µkat/L])
G6PD	Normal
Plasma Hb/urine Hb	98/nil
TFT	T3 0.380 ↓, T4 1.91 ↓, TSH 2.28 N
LDH	861→670
Urine non-glucose reducing substance (NGRS) (27/01)	Positive
Bile acids (27/01)	64 ↑ (19.6 +/- 5.2 µmol/l)
CK-NAC	112
GALT (galactose-1 phosphate uridylyltransferase) assay	couldn't be done as child had received BT outside a week prior

Blood culture (24/01)	Sterile
10/02	Sterile
22/02	Sterile
Resp. viral panel (24/01)	Neg
RSV, hMPV, Adeno	

Ascitic fluid	25/01	27/01	05/02	09/02
Cells (N/L)	453 (N69/L39)	4	10 (10/90)	81 (N38 L62)
S/P	60/0.3	105/0.3	-/0.5	96/0.4
Gram stain	Neg	Neg		
Culture	Sterile	Sterile	Sterile	Sterile
SAAG	0.7			

Urine RME	RBC-189, WBC-12
UP:UC	0.56
Urine Culture (27/01)	Growth of yeast
Urine Culture (03/02)	Growth of yeast
Urine culture (07/02)	Sterile
Urine osmolality	209
Serum osmolality	246
Spot Urine electrolytes	Na: 6 mmol/L, K: 12mmol/L, Creat: 42.05mg/dL

#### Imaging:

ECG	Normal
ECHO (29/01)	Small PDA (3-4mm), L → R shunt, PFO 3mm, Trivial TR, mild PR, normal biventricular function
Rotational thromboelastometry (ROTEM)	Increased clotting time
USG Abdomen with doppler (12/02)	Gross ascites, Liver heterogenous echotexture, irregular outline, no focal lesion, HV normal colour/flow/direction, Spleno-portal confluence patent, multiple collaterals joining to form main portal vein at porta. Multiple collaterals along the fissure of ligamentum teres. Kidneys raised echotexture, mild HDN right kidney.
CXR (24/01, 12/02)	Bilateral infiltrates – viral pneumonia
NCCT Head (10/2/25)	Normal (PG 448278)

UGIE (14/02)	E: leash of vessels+, S: severe PHG+, altered blood + in pylorus (?NG trauma) → after wash 50% clot dislodged, 50% adherent clot still +
Fundus	No cataract, No TORCH stigmata

#### Course and Management:

Admitted as decompensated cholestasis of infancy with SBP and pneumonia. Multiple therapeutic ascitic taps (to alleviate the respiratory distress) and repeated episodes of hypoglycemia. Coagulopathy continued to worsen - received FFP transfusion. Also on supplements, rifaximin, lactulose, udiliv, carvedilol. Also daily albumin infusions, diuretics, salbutamol nebulization. Hyponatremic - transient encephalopathy, ?seizure → symptomatic management and oral sodium supplementation. Started fluconazole → worsening LAMB. Preterminal events: D30 RD → CXR b/l diffuse infiltrates → CPAP and Colistin. D31 child found unresponsive, in arrest, AF tense bulging → Laryngoscopy vocal cord edema, but no blood oozing from airway → CPR as per protocol → could not be revived.

Cause of death: Intracranial bleed secondary to coagulopathy and thrombocytopenia in a child with Decompensated CLD.

**Units Final Diagnosis: Cholestasis of infancy (Decompensated - Ascites); Co-morbidities: PDA 3-4mm; Complications: Sepsis (SBP, pneumonia, fungal UTI), Symptomatic hyponatremia, Portal cavernoma, Thrombocytopenia, Coagulopathy, Anemia**