





B.O. RESHMA EKKA

IP No- 25028658

DOB-22/11/2025

TOB- 12:48 AM

DATE-30/12/2025

DIAGNOSIS :- Extreme Pre-Term (26 weeks + 4 days) / ELBW (900gms) / AGA / Respiratory distress at Birth Surfactant received/ hsPDA (Paracetamol received) / Neonatal Jaundice / Anemia of Prematurity / Osteopenia of Prematurity / Hyponatremia

BIRTH HISTORY- Very Preterm (26 +4 w), born via preterm vaginal delivery. Baby cried immediately after birth, APGAR- 7/10 at 1 minute, 8/10 at 5 minute. However developed respiratory distress with silvermann anderson score of 5, for which was shifted to NICU

Respiratory distress at Birth

Surfactant received/ hsPDA (Paracetamol received) In view of respiratory distress at birth, baby was initially put on NIV support however respiratory distress did not settle, and required mechanical ventilation (requiring fio2-> 40 % and map >9). Initial Blood gas showed metabolic acidosis (ph-7.23/ pco2-43/lac-8.3/heo3- 16.9) With CXR- showing features of RDS. For which 1 dose of surfactant was given at hol-5 IV Antibiotics- Inj Piptaz and Inj Amikacin were added prophylactically, sepsis screen sent- reported negative, blood cultures- sterile. Gradually respiratory distress reduced, blood gas showed improvement, ventilatory support was gradually tapered.

HsPDA (Paracetamol received)

Trial of CPAP support was given however, baby had worsening of respiratory distress and desaturations, therefore was re-intubated and put on mechanical ventilator. In view of persistent requirement of ventilatory support, wide pulse pressures, and new onset pan systolic murmur, 2D Echo was done reported PDA (3mm left to right shunt). In view of clinically significant PDA, IV Paracetamol has been started. Repeat 2D echo showed resolution of PDA. Gradually ventilator settings were tapered which baby tolerated well hence was extubated on day of Life- 6 to NIV support and later to CPAP. Currently baby is on CPAP support (fio22- 21%, PEEP- 6).

Anemia of Prematurity

In view of repeated desaturations Oral Capnea dose was hiked and all relevant investigations were sent reported- Anemia of Prematurity- received 1 PRBC transfusion and Tonoferon was added to the treatment regime.

For Osteopenia of Prematurity- Syp Osteocalcium was added to the treatment regime.

for Hyponatremia- 3% normal saline was added to each feeds. NNJ- Single surface photo therapy was given in view of SBR in phototherapy range as per AAP- 2022 guidelines. Feeds- Feeds were started which baby tolerated well hence gradually build up

Currently child is on CPAP support, 14ml 2 hourly feeds (EBM + HMF + OG feeds) with 3% normal saline, Oral Capnea (7.5mg/kg/day), Tonoferon drops, Visyneral z drops, Syp Ostocalcium, Nebulization with Budecort, Nasoclear-nasal drops and Chest physiotherapy.

WEIGHT - 1.16 KG



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Patient Name : B/O. RESHMA EKKA
MR No / IP No : 2426816 /25031522
Age/Sex : 1 Months 3 Days / Male
Ref. Doctor : Dr.SONA CHOWDHARY
Ward Details : NUR206 / 206 / 003

Bill No. : 252371976
Collected On : 24/12/2025 11.00 AM
Reported On : 24/12/2025 12.18 PM
Approved On : 24/12/2025 12.26 PM

Accept Dt	Sample No	Test Name	Result	Units	Bio.Ref.
LAB-CHEMISTRY2					
ELECTROLYTES					
24/12/2025	1349666	SODIUM , SERUM/PLASMA (ISE INDIRECT)	136	mEq/L	136 - 145
		POTASSIUM , SERUM (ISE INDIRECT)	5.12 *	mEq/L	3.5 - 5.1
		CHLORIDE, SERUM/PLASMA (ISE INDIRECT)	106.2	mEq/L	98 - 107
		BICARBONATE, SERUM/ PLASMA (ENZYMATIC, PEPC, MD)	24.2	mEq/L	23 - 29
KFT (KIDNEY FUNCTION TEST)					
24/12/2025	1349666	SERUM UREA (UREASE)	7 *	mg/dL	13 - 43
		SERUM CREATININE (MODIFIED JAFFE REACTION)	0.42 *	mg/dL	0.67 - 1.17
		SERUM URIC ACID (URICASE)	2.15 *	mg/dL	3.5 - 7.2
Interpretation : Clinical Interpretation: The analytes measured in the KFT panel are useful for screening and diagnosing impaired kidney function and for assessing the severity and monitoring the course and management of acute kidney injury (AKI) and chronic kidney disease (CKD). These tests helps in differentiating prerenal disease (renal artery stenosis, renal vein thrombosis), true renal disease and post renal disease (obstructive uropathy, prostatic disease, urinary tract infection etc.).					
4/12/2025	1349666	CALCIUM			
		SERUM CALCIUM (ARSENazo-III)	9.27	mg/dL	8.6 - 10.2
4/12/2025	1349666	PHOSPHORUS			
		SERUM PHOSPHORUS (PHOSPHOMOLYBDATE)	5.70	mg/dL	4.0 - 7.0

KIRTI PANWAR

CONSULTANT PATHOLOGIST

This is a computer generated report and validated electronically.



H-2514/2025
 Feb 05, 2025 to Jan 22, 2027
 Since Jan 25, 2014

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Patient Name : B/O. RESHMA EKKA
 Reg No / IP No : 2426816 /25028655
 Age/Sex : 25 Days / Male
 Ref. Doctor : Dr.SONA CHOWDHARY
 Ref Details : NUR206 / 206 / 003***
 Bill No. : 252363749
 Collected On : 16/12/2025 12.42 PM
 Reported On : 16/12/2025 1.57 PM
 Approved On : 16/12/2025 3.02 PM

Rept Dt	Sample No	Test Name	Result	Units	Bio.Ref.
		SAMPLE TYPE	EDTA, Whole Blood		
		Method : COLORIMETRIC			
2/2025	1343847	RETIC COUNT			
		RETICULOCYTE COUNT. (BRILLIANT CRESYL BLUE/MICROSCOPY)	1.6	%	1.51 - 2.55
		SAMPLE TYPE	EDTA, Whole Blood		
2/2025	1348084	CBC (COMPLETE BLOOD COUNT)			
		HEMOGLOBIN (PHOTOMETRIC)	7.8 *	g/dl	9.8 - 15.4
		TOTAL LEUCOCYTE COUNT (ELECTRICAL IMPEDANCE)	7.6	10/ μ L	5.0 - 19.5
		NEUTROPHIL (VCS/MICROSCOPY)	15.7	%	15 - 35
		LYMPHOCYTES. (VCS/MICROSCOPY)	59.7 *	%	43 - 53
		MONOCYTES (VCS/MICROSCOPY)	5.6	%	4 - 16
		EOSINOPHILS. (VCS/MICROSCOPY)	18.3 *	%	0 - 2
		BASOPHILS (VCS/MICROSCOPY)	0.7	%	0 - 1
		OTHERS	FEW REACTIVE LYMPHOCYTES SEEN	%	
		ABSOLUTE NEUTROPHIL COUNT	1.2	10/ μ L	1 - 9
		ABSOLUTE LYMPHOCYTE COUNT	4.6	10/ μ L	2 - 10
		ABSOLUTE MONOCYTE COUNT	0.0 *	10/ μ L	0.2 - 3.12
		ABSOLUTE EOSINOPHIL COUNT	1.3 *	10/ μ L	0 - 0.4
		ABSOLUTE BASOPHIL COUNT	0.0	10/ μ L	0 - 0.3
		ANISOCYTES	MILD		
		HYPOCHROMIA	MILD		
		MICROCYTES	MILD		
		POLYCHROMASIA	MILD		
		POIKILOCYTES	MILD		
		..	TARGET CELLS AND OCCASIONAL FRAGMENTED RBCs ARE SEEN.		
		RBC COUNT (ELECTRICAL IMPEDANCE)	2.90 *	10 ⁶ / μ L	3.00 - 4.70
		PCV / HCT (CALCULATED)	23.1 *	%	29.2 - 45.2



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Patient Name : B/O. RESHMA EKKA
MR No / IP No : 2426816 /25028655
Age/Sex : 19 Days / Male
Ref. Doctor : Dr.SONA CHOWDHARY
Ward Details : NUR206 / 206 / 003***

Bill No. : 252358041
Collected On : 10/12/2025 9.20 PM
Reported On : 11/12/2025 1.55 PM
Approved On : 11/12/2025 4.43 PM

Accept Dt	Sample No	Test Name	Result	Units	Bio.Ref.
LAB-BACTERIOLOGY MISC					
10/12/2025	1339554	KOH preparation -Smear for Fungus			
		SPECIMEN	URINE		
		FINDINGS	No fungal elements seen.		
		Method :	KOH mount and Microscopy.		
LAB-BLOOD BANK TEST					
22/11/2025	1325750	BLOOD GROUP, ABO AND RH TYPING			
		GROUP (ABO)	A		
		(TUBE/MICROWELL)			
		TYPE (RH)	POSITIVE		
		(TUBE/MICROWELL)			
LAB-CHEMISTRY1					
27/11/2025	1329534	PROTHROMBIN TIME (PT)/INTERNATIONAL NORMALIZED RATIO(INR)			
		MEAN NORMAL	11.7	SECONDS	
		PROTHROMBIN TIME			
		PT VALUE, CITRATE	14.4 *	SECONDS	9.8 - 13.6
		PLASMA (TURBIDIMETRIC)			
		INR (CALCULATED)	1.23 *		0.84 - 1.16

Interpretation : PT assess coagulation factors in extrinsic pathway (F VII) and common pathway (F X, FV, prothrombin and fibrinogen).

INR is the parameter of choice in monitoring adequacy of oral anticoagulant therapy. Appropriate therapeutic range varies with the disease and treatment intensity.
For patient on oral anticoagulant therapy (INR 2.0 to 3.0).
Mechanical valve replacement (INR 2.5 to 3.5).

Causes of prolonged PT

1. Treatment with oral anticoagulants.
2. Liver disease.
3. Vitamin K deficiency.
4. Disseminated intravascular coagulation.
5. Inherited deficiency of factors in extrinsic and common pathway.

27/11/2025	1329534	APTT			
		CONTROL PLASMA	30.4	SECONDS	
		APTT, CITRATE PLASMA	104.5 *	SECONDS	26.2 - 34.6
		(TURBIDIMETRIC)			
		REMARK	HEPARIN ON FLOW		

Interpretation : APTT is a measure of coagulation factor in intrinsic pathway (F XII, F XI, high molecular weight kininogen, prekallikrein, F IX and F VIII) and common pathway (F X, F V, prothrombin and fibrinogen).

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Patient Name : B/O. RESHMA EKKA
MR No / IP No : 2426816 /25028655
Age/Sex : 13 Days / Male
Ref. Doctor : Dr.SONA CHOWDHARY
Ward Details : NUR206 / 206 / 003***
Accept Dt : 04/12/2025
Sample No : 1334870

Bill No. : 252351588
Collected On : 04/12/2025 2.36 PM
Reported On : 04/12/2025 3.19 PM
Approved On : 04/12/2025 3.49 PM

Test Name	Result	Units	Bio.Ref.
CHLORIDE, SERUM/PLASMA (ISE INDIRECT)	108.0 *	mEq/L	98 - 107
BICARBONATE, SERUM/PLASMA (ENZYMATIC, PEPC, MD)	24.7	mEq/L	23 - 29
KFT (KIDNEY FUNCTION TEST)			
SERUM UREA (UREASE)	16	mg/dL	13 - 43
SERUM CREATININE (MODIFIED JAFFE REACTION)	0.72	mg/dL	0.67 - 1.17
SERUM URIC ACID (URICASE)	1.60 *	mg/dL	3.5 - 7.2

Interpretation : Clinical interpretation:
The analytes measured in the KFT panel are useful for screening and diagnosing impaired kidney function and for assessing the severity and monitoring the course and management of acute kidney injury (AKI) and chronic kidney disease (CKD).
These tests helps in differentiating prerenal disease (renal artery stenosis, renal vein thrombosis), true renal disease and post renal disease (obstructive uropathy, prostatic disease, urinary tract infection etc.).

10/12/2025 1339256

CRP			
C REACTIVE PROTEIN (CRP), SERUM (IMMUNOTURBIDIMETRIC)	0.02	mg/dL	0 - 0.5

0/12/2025 1339256

ELECTROLYTES			
SODIUM , SERUM/PLASMA (ISE INDIRECT)	135 *	mEq/L	136 - 145
POTASSIUM , SERUM (ISE INDIRECT)	5.83 *	mEq/L	3.5 - 5.1
CHLORIDE, SERUM/PLASMA (ISE INDIRECT)	101.6	mEq/L	98 - 107
BICARBONATE, SERUM/PLASMA (ENZYMATIC, PEPC, MD)	32.5 *	mEq/L	23 - 29

2/2025 1339256

CREATININE			
SERUM CREATININE (MODIFIED JAFFE REACTION)	0.61 *	mg/dL	0.67 - 1.17

Interpretation : Clinical interpretation:
Creatinine is a waste product produced at a fairly constant rate within an individual by the breakdown of creatine within muscle tissue. It is predominantly excreted by the kidneys therefore, serum creatinine concentration is inversely proportional to creatinine clearance and used as a marker of glomerular filtration rate(GFR).Elevated serum creatinine concentration and decreased GFR indicates renal damage.
Common clinical use of serum creatinine measurement are to assess kidney function, to monitor kidney disease progression, to evaluate the effectiveness of kidney disease treatments and to



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1871-2028

Patient Name	: B/O. RESHMA EKKA	Bill No.	: 252348635
MR No / IP No	: 2426816 /25028655	Collected On	: 01/12/2025 7.24 PM
Age/Sex	: 10 Days / Male	Reported On	: 01/12/2025 7.58 PM
Ref. Doctor	: Dr.SONA CHOWDHARY	Approved On	: 02/12/2025 7.47 AM
Ward Details	: NUR206 / 206 / 003***		

Accept Dt	Sample No	Test Name	Result	Units	Bio.Ref.
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Method : COLORIMETRIC

10/12/2025 1339232

CBC (COMPLETE BLOOD COUNT)

HEMOGLOBIN (PHOTOMETRIC)	11.0	g/dl	9.8 - 15.4
TOTAL LEUCOCYTE COUNT (ELECTRICAL IMPEDANCE)	11.0	10 ³ /μL	5.0 - 19.5
NEUTROPHIL (VCS/MICROSCOPY)	38.3 *	%	15 - 35
LYMPHOCYTES (VCS/MICROSCOPY)	48.0	%	43 - 53
MONOCYTES (VCS/MICROSCOPY)	7.4	%	4 - 16
EOSINOPHILS (VCS/MICROSCOPY)	5.9 *	%	0 - 2
BASOPHILS (VCS/MICROSCOPY)	0.4	%	0 - 1
ABSOLUTE NEUTROPHIL COUNT	4.2	10 ³ /μL	1 - 9
ABSOLUTE LYMPHOCYTE COUNT	5.3	10 ³ /μL	2 - 10
ABSOLUTE MONOCYTE COUNT	0.8	10 ³ /μL	0.2 - 3.12
ABSOLUTE EOSINOPHIL COUNT	0.6 *	10 ³ /μL	0 - 0.4
ABSOLUTE BASOPHIL COUNT	0.1	10 ³ /μL	0 - 0.3
POLYCHROMASIA	MILD		
..	PREDOMINANTLY NORMOCYTIC NORMOCHROMIC		
RBC COUNT (ELECTRICAL IMPEDANCE)	3.98	10 ⁶ /μL	3.00 - 4.70
PCV / HCT (CALCULATED)	33.6	%	29.2 - 45.2
MCV (DERIVED)	84.4 *	fl	89.5 - 101.3
MCH (CALCULATED)	27.7 *	pg	30.7 - 35.0
MCHC (CALCULATED)	32.9 *	g/dl	33.2 - 35.8
RDW (DERIVED/CALCULATED)	16.5 *	%	11.6 - 14.0
PLATELET COUNT (ELECTRICAL IMPEDANCE)	272	10 ³ /μL	200 - 500
SAMPLE TYPE	EDTA, Whole Blood		

6/12/2025 1343847

HB (HEMOGLOBIN)

HEMOGLOBIN (PHOTOMETRIC)	9.3 *	g/dl	9.8 - 15.4
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Name : B/O. RESHMA EKKA
IP No : 2426816 /25028655
Sex : 6 Days / Male
Ref. Doctor : Dr.SONA CHOWDHARY
Ward Details : NUR206 / 206 / 003***

Bill No. : 252344085
Collected On : 27/11/2025 11.59 AM
Reported On : 27/11/2025 1.55 PM
Approved On : 27/11/2025 2.25 PM

Accept Dt	Sample No	Test Name	Result	Units	Bio.Ref.
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- Causes of prolonged APTT
1. Hemophilia A (F VIII) or Hemophilia B (F IX)
2. Deficiencies of coagulation factors in intrinsic and common pathway.
3. Presence of coagulation inhibitors
4. Heparin Therapy.
5. Disseminated intravascular coagulation.
6. Liver Disease.

LAB-CHEMISTRY2

ELECTROLYTES

24/11/2025	1326908	SODIUM , SERUM/PLASMA (ISE INDIRECT)	145	mEq/L	136 - 145
		POTASSIUM , SERUM (ISE INDIRECT)	4.59	mEq/L	3.5 - 5.1
		CHLORIDE, SERUM/PLASMA (ISE INDIRECT)	113.7 *	mEq/L	98 - 107
		BICARBONATE, SERUM/PLASMA (ENZYMATIC, PEPC, MD)	23.7	mEq/L	23 - 29

24/11/2025	1326908	UREA		mg/dL	13 - 43
		SERUM UREA (UREASE)	45 *		

Interpretation : Clinical interpretation:
Common clinical use of urea measurement include assessing kidney function,detection of hydration status(dehydration/fluid overload),determination of overall nitrogen balance, aid in the diagnosis of kidney disease,to verify effectiveness of dialysis treatment and monitoring of liver disease.
Increased urea levels are indicator of decreased renal blood flow, acute or chronic intrinsic renal disease or post renal obstruction to urine flow. Decreased urea levels are observed in hemodilution, low dietary protein intake or end stage liver disease.

24/11/2025	1326908	CREATININE		mg/dL	0.67 - 1.17
		SERUM CREATININE (MODIFIED JAFFE REACTION)	0.83		

Interpretation : Clinical interpretation:
Creatinine is a waste product produced at a fairly constant rate within an individual by the breakdown of creatine within muscle tissue. It is predominantly excreted by the kidneys therefore, serum creatinine concentration is inversely proportional to creatinine clearance and used as a marker of glomerular filtration rate(GFR).Elevated serum creatinine concentration and decreased GFR indicates renal damage.
Common clinical use of serum creatinine measurement are to assess kidney function, to monitor kidney disease progression, to evaluate the effectiveness of kidney disease treatments and to monitor the side effects of medication.

24/11/2025	1326908	LIVER FUNCTION TEST (LFT), SERUM		mg/dL	0.3 - 1.2
		BILIRUBIN TOTAL ,SERUM (DPD)	5.06 *	mg/dL	0 - 0.2
		BILIRUBIN DIRECT ,SERUM (DPD)	0.89 *	mg/dL	0.2 - 1.0
		BILIRUBIN INDIRECT,	4.17 *		