





B.D. : 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  $f_{iO_2} > 40\%$  and  $map > 9$ ). Initial Blood gas showed metabolic acidosis (  $pH-7.23/ pCO_2-43/ lactic-8.3/ heO_3- 16.9$  ) With CXR- showing features of RDS. For which 1 dose of surfactant was given at hsl-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 (  $f_{iO_2}- 21\%$ , 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 Ostocalcium 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



# HOLY FAMILY HOSPITAL

## Laboratory Services

Okha Road, New Delhi-110028, Phone: 011-35534000, 44020000  
Email: pathology@holyfamilyhospitaldelhi.org, Web: www.hfhdelhi.org



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.
<b>LAB-CHEMISTRY2</b>					
24/12/2025	1349666	<b>ELECTROLYTES</b>			
		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
24/12/2025	1349666	<b>KFT (KIDNEY FUNCTION TEST)</b>			
		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
<b>Interpretation :</b> 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 pre-renal 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	<b>CALCIUM</b>			
		SERUM CALCIUM (ARSENATO-III)	9.27	mg/dL	8.6 - 10.2
4/12/2025	1349666	<b>PHOSPHORUS</b>			
		SERUM PHOSPHORUS (PHOSPHOMOLYBDATE)	5.70	mg/dL	4.0 - 7.0

KIRTI PANWAR

CONSULTANT PATHOLOGY

This is a computer generated report and validated electronically.



H-2514-0208  
Feb 22, 2023 to Jan 22, 2027  
Since Jan 22, 2014

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## Laboratory Services

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Email : pathology@holyfamilyhospitaldelhi.org Web : www.hfhdelhi.org



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

Report Dt	Sample No	Test Name	Result	Units	Bio. Ref.		
		SAMPLE TYPE	EDTA, Whole Blood				
		Method :	COLORIMETRIC				
2/2025	1343847	<b>RETIC COUNT</b>					
		RETICULOCYTE COUNT. (BRILLIANT CRESYL BLUE/MICROSCOPY)	1.6	%	1.51 - 2.55		
		SAMPLE TYPE	EDTA, Whole Blood				
2/2025	1348084	<b>CBC (COMPLETE BLOOD COUNT)</b>					
		HEMOGLOBIN (PHOTOMETRIC)	7.8 *	g/dL	9.8 - 15.4		
		TOTAL LEUCOCYTE COUNT (ELECTRICAL IMPEDANCE)	7.6	10/ $\mu$ 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/ $\mu$ L	1 - 9		
		ABSOLUTE LYMPHOCYTE COUNT	4.6	10/ $\mu$ L	2 - 10		
		ABSOLUTE MONOCYTE COUNT	0.0 *	10/ $\mu$ L	0.2 - 3.12		
		ABSOLUTE EOSINOPHIL COUNT	1.3 *	10/ $\mu$ L	0 - 0.4		
		ABSOLUTE BASOPHIL COUNT	0.0	10/ $\mu$ 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 <sup>6</sup> / $\mu$ 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

Bill No.

: 252358041

Age/Sex

: 19 Days / Male

Collected On

: 10/12/2025 9.20 PM

Ref. Doctor

: Dr.SONA CHOWDHARY

Reported On

: 11/12/2025 1.55 PM

Ward Details

: NUR206 / 206 / 003\*\*\*

Approved On

: 11/12/2025 4.43 PM

Accept Dt	Sample No	Test Name	Result	Units	Bio. Ref.
<b>LAB-BACTERIOLOGY MISC</b>					
<b>KOH preparation -Smear for Fungus</b>					
10/12/2025	1339554	SPECIMEN	URINE		
		FINDINGS	No fungal elements seen.		
		Method :	KOH mount and Microscopy.		
<b>LAB-BLOOD BANK TEST</b>					
<b>BLOOD GROUP, ABO AND RH TYPING</b>					
22/11/2025	1325750	GROUP (ABO) (TUBE/MICROWELL)	A		
		TYPE (RH) (TUBE/MICROWELL)	POSITIVE		
<b>LAB-CHEMISTRY1</b>					
27/11/2025	1329534	<b>PROTHROMBIN TIME (PT)/INTERNATIONAL NORMALIZED RATIO(INR)</b>			
		MEAN NORMAL	11.7	SECONDS	
		PROTHROMBIN TIME			
		PT VALUE, CITRATE PLASMA (TURBIDIMETRIC)	14.4 *	SECONDS	9.8 - 13.6
		IN R (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	<b>APTT</b>			
		CONTROL PLASMA	30.4	SECONDS	
		APTT, CITRATE PLASMA (TURBIDIMETRIC)	104.5 *	SECONDS	26.2 - 34.6
		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\*\*\*

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

Accept Dt

Sample No

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

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 help in differentiating pre-renal 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

retation :

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 uses 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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Laboratory Services

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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.
<b>Method : COLORIMETRIC</b>					
10/12/2025	1339232	<b>CBC (COMPLETE BLOOD COUNT)</b>			
		HEMOGLOBIN (PHOTOMETRIC)	11.0	g/dl	9.8 - 15.4
		TOTAL LEUCOCYTE COUNT (ELECTRICAL IMPEDANCE)	11.0	10 <sup>3</sup> /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 <sup>3</sup> /µL	1 - 9
		ABSOLUTE LYMPHOCYTE COUNT	5.3	10 <sup>3</sup> /µL	2 - 10
		ABSOLUTE MONOCYTE COUNT	0.8	10 <sup>3</sup> /µL	0.2 - 3.12
		ABSOLUTE EOSINOPHIL COUNT	0.6 *	10 <sup>3</sup> /µL	0 - 0.4
		ABSOLUTE BASOPHIL COUNT	0.1	10 <sup>3</sup> /µL	0 - 0.3
		POLYCHROMASIA	MILD		
		..	PREDOMINANTLY NORMOCYTIC NORMOCHROMIC		
		RBC COUNT (ELECTRICAL IMPEDANCE)	3.98	10 <sup>6</sup> /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 <sup>3</sup> /µL	200 - 500
		SAMPLE TYPE	EDTA, Whole Blood		
6/12/2025	1343847	<b>HB (HEMOGLOBIN)</b>			
		HEMOGLOBIN (PHOTOMETRIC)	9.3 *	g/dl	9.8 - 15.4



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Ref No. 2025 to Jan 22, 2027  
Issue Date 25, 2024

Name	B/O. RESHMA EKKA	Bill No.	252344085
Do / IP No	2426816 /25028655	Collected On	27/11/2025 11.59 AM
Sex	6 Days / Male	Reported On	27/11/2025 1.55 PM
Ref. Doctor	Dr.SONA CHOWDHARY	Approved On	27/11/2025 2.25 PM
Ward Details	NUR206 / 206 / 003***		

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

**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.

		CREATININE	
24/11/2025	1326908	SERUM CREATININE (MODIFIED JAFFE REACTION)	0.83 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 monitor the side effects of medication.

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