



<b>Dr. Vinay Chopra</b> MD (Pathology & Micro Chairman & Consultant			(Pathology)				
NAME : Mrs. BABITA							
AGE/ GENDER : 35 YRS/FEMALE		PATIENT ID	: 1813908				
COLLECTED BY :		REG. NO./LAB NO.	: 012504010059				
<b>REFERRED BY</b> :		<b>REGISTRATION DATE</b>	: 01/Apr/2025 01:31 PM				
<b>BARCODE NO.</b> : 01528173		COLLECTION DATE	: 01/Apr/2025 03:37PM				
<b>CLIENT CODE.</b> : KOS DIAGNOSTIC LAB		REPORTING DATE	: 01/Apr/2025 04:09PM				
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT							
Test Name	Value	Unit	<b>Biological Reference interval</b>	_			
HAEMATOLOGY COMPLETE BLOOD COUNT (CBC)							
RED BLOOD CELLS (RBCS) COUNT AND INDICES							
HAEMOGLOBIN (HB)	11.9 <sup>L</sup>	gm/dL	12.0 - 16.0				
by CALORIMETRIC RED BLOOD CELL (RBC) COUNT	4.2	Millions/	s/cmm 3.50 - 5.00				
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	37	%	37.0 - 50.0				
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	88	fL	80.0 - 100.0				
MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	28.4	pg	27.0 - 34.0				
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	) 32.3	g/dL	32.0 - 36.0				
RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	14.1	%	11.00 - 16.00				
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	46.5	fL	35.0 - 56.0				
MENTZERS INDEX by CALCULATED	20.95	RATIO	BETA THALASSEMIA TRAIT 13.0 IRON DEFICIENCY ANEMIA: >13.0				
GREEN & KING INDEX by CALCULATED	91.76	RATIO	BETA THALASSEMIA TRAIT: <= 65.0 IRON DEFICIENCY ANEMIA: 65.0				
WHITE BLOOD CELLS (WBCS)							
TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	7280	/cmm	4000 - 11000				
NUCLEATED RED BLOOD CELLS (nRBCS) by AUTOMATED 6 PART HEMATOLOGY ANALYZER	NIL		0.00 - 20.00				
NUCLEATED RED BLOOD CELLS (nRBCS) %	NIL	%	< 10 %				





DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com
 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist			Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. BABITA			
AGE/ GENDER	: 35 YRS/FEMALE	PATI	ENT ID	: 1813908
COLLECTED BY	:	REG.	NO./LAB NO.	: 012504010059
<b>REFERRED BY</b>	:	REGI	STRATION DATE	: 01/Apr/2025 01:31 PM
BARCODE NO.	:01528173	COLL	ECTION DATE	: 01/Apr/2025 03:37PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	: 01/Apr/2025 04:09PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
by CALCULATED BY A	AUTOMATED HEMATOLOGY ANALYZER			
DIFFERENTIAL L	<u>EUCOCYTE COUNT (DLC)</u>			
NEUTROPHILS by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	62	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	32	%	20 - 40
EOSINOPHILS by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	1	%	1 - 6
	Y BY SF CUBE & MICROSCOPY	5	%	2 - 12
	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE NEUTH	OCYTES (WBC) COUNT ROPHIL COUNT y by sf cube & microscopy	4514	/cmm	2000 - 7500
ABSOLUTE LYMPI		2330	/cmm	800 - 4900
ABSOLUTE EOSIN		73	/cmm	40 - 440
ABSOLUTE MONO	OCYTE COUNT Y BY SF CUBE & MICROSCOPY	364	/cmm	80 - 880
ABSOLUTE BASOF by FLOW CYTOMETR	PHIL COUNT y by sf cube & microscopy	0	/cmm	0 - 110
PLATELETS AND	OTHER PLATELET PREDICTIV	VE MARKERS.		
PLATELET COUN by HYDRO DYNAMIC F	T (PLT) FOCUSING, ELECTRICAL IMPEDENCE	224000	/cmm	150000 - 450000
PLATELETCRIT (F	PCT) FOCUSING, ELECTRICAL IMPEDENCE	0.31	%	0.10 - 0.36
MEAN PLATELET by HYDRO DYNAMIC F	VOLUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	14 <sup>H</sup>	fL	6.50 - 12.0
	E CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	121000 <sup>H</sup>	/cmm	30000 - 90000
	E CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	54.1 <sup>H</sup>	%	11.0 - 45.0
	IBUTION WIDTH (PDW)	16.1	%	15.0 - 17.0



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)







	<b>Dr. Vinay Chopra</b> MD (Pathology & Micro Chairman & Consultant	biology) MD	(Pathology)
NAME	: Mrs. BABITA		
AGE/ GENDER	: 35 YRS/FEMALE	PATIENT ID	: 1813908
<b>COLLECTED BY</b>	:	REG. NO./LAB NO.	: 012504010059
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 01/Apr/2025 01:31 PM
BARCODE NO.	: 01528173	<b>COLLECTION DATE</b>	: 01/Apr/2025 03:37PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 01/Apr/2025 04:09PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT	

 Test Name
 Value
 Unit
 Biological Reference interval

 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

V DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com







	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) st CEO & Consultant Pathologist		
NAME	: Mrs. BABITA				
AGE/ GENDER	: 35 YRS/FEMALE		PATIENT ID	: 1813908	
COLLECTED BY	:		REG. NO./LAB NO.	: 012504010059	
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 01/Apr/2025 01:32 PM	
BARCODE NO.	:01528173	COLLECTION DATE		: 01/Apr/2025 03:37PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		: 01/Apr/2025 05:25PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	), AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	CLINIC	CAL CHEMIS	STRY/BIOCHEMIS	STRY	
		GLUCOSE	RANDOM (R)		
GLUCOSE RANDOM (R): PLASMA 84.52 by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD)		84.52	mg/dL	NORMAL: < 140.00 PREDIABETIC: 140.0 - 200.0 DIABETIC: > 0R = 200.0	
1. A random plasma 2. A random glucose (after consumption o 3. A random glucose	of 75 gms of glucose) is recomm	is considered norm is considered as gl ended for all such hly suggestive of d	nal. lucose intolerant or predial patients. iabetic state. A repeat post	petic. A fasting and post-prnadial blood test -prandial is strongly recommended for all such for diabetic state.	





DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com







	Chairman & Cons	Microbiology) ultant Pathologist	CEO & Consultant	) (Pathology) t Pathologist
NAME	: Mrs. BABITA			
AGE/ GENDER	: 35 YRS/FEMALE	PAT	IENT ID	: 1813908
COLLECTED BY	:	REG.	NO./LAB NO.	: 012504010059
REFERRED BY	:	REG	<b>ISTRATION DATE</b>	: 01/Apr/2025 01:31 PM
BARCODE NO.	: 01528173	COLI	LECTION DATE	:01/Apr/202503:37PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	:01/Apr/2025 05:43PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		URIC A	CID	
2.Uric Acid is the end p intestinal tract by mic INCREASED:- (A).DUE TO INCREASED 1.Idiopathic primary g 2.Excessive dietary pur 3.Cytolytic treatment of 4.Polycythemai vera & 5.Psoriasis. 6.Sickle cell anaemia e (B).DUE TO DECREASED 1.Alcohol ingestion. 2.Thiazide diuretics. 3.Lactic acidosis.	high levels of Uric Acid in the blo product of purine metabolism . U robial degradation. <b>PRODUCTION:-</b> out. ines (organ meats,legumes,anch of malignancies especially leuker myeloid metaplasia. etc. <b>PECREATION (BY KIDNEYS)</b> ass than 2 grams per day ).	ric acid is excreted to novies, etc).	orm & accumulate ar a large degree by the	round a joint. e kidneys and to a smaller degree in the





V DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com



Page 5 of 9





		Chopra y & Microbiology) onsultant Pathologist		m <b>Chopra</b> D (Pathology) ht Pathologist	
NAME	: Mrs. BABITA				
AGE/ GENDER	: 35 YRS/FEMALE	PAT	FIENT ID	: 1813908	
COLLECTED BY	:	REC	G. NO./LAB NO.	: 012504010059	
REFERRED BY	:	REC	SISTRATION DATE	: 01/Apr/2025 01:31 PM	
BARCODE NO.	: 01528173	COL	LECTION DATE	: 01/Apr/2025 03:37PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REI	PORTING DATE	:01/Apr/202505:43PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT			
Test Name		Value	Unit	Biological Refer	rence interval
		ENDOCRIN	OLOGY		
	Т	HYROID FUNCTIO	ON TEST: TOTAI		
TRIIODOTHYRON by CMIA (CHEMILUMIN	INE (T3): SERUM	0.995 DASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4): by CMIA (CHEMILUMIN	SERUM NESCENT MICROPARTICLE IMMUN	8.45 DASSAY)	µgm/dL	4.87 - 12.60	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	LATING HORMONE (TSH): NESCENT MICROPARTICLE IMMUN RASENSITIVE		µIU/mL	0.35 - 5.50	
INTERPRETATION:	eireedien verietien reaching and the	ula haturaan 2.4 a m	minimum batulaat ( 10	nm. The variation is of the order of FC	0/ Honos time -ft
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations	. TSH stimulates the product	ion and secretion of the i	pm. The variation is of the order of 50 metabolically active hormones, thyro ner underproduction (hypothyroidism	oxine (T4)and
CLINICAL CONDITION	Т3		T4	TSH	
Primary Hypothyroidis	m: Reduce	d R	educed	Increased (Significantly)	

CLINICAL CONDITION	13	14	ISH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism: Normal or Low Normal		Normal or Low Normal	High
Primary Hyperthyroidism: Increased		Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

## LIMITATIONS:-

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (e.g.: phenytoin , salicylates).

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy.

TRIIODOTH	TRIIODOTHYRONINE (T3) THYROXIN		NE (T4) THYROID ST		IULATING HORMONE (TSH)	
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)	
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3	
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00	
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40	





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)







	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiolo Chairman & Consultant Path	C, /	(Pathology)
NAME	: Mrs. BABITA		
AGE/ GENDER	: 35 YRS/FEMALE	PATIENT ID	: 1813908
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012504010059
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 01/Apr/2025 01:31 PM
BARCODE NO.	: 01528173	<b>COLLECTION DATE</b>	: 01/Apr/2025 03:37PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 01/Apr/2025 05:43PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA C	ANTT	

Test Name			Value Unit		<b>Biological Reference interval</b>	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35- 5.50	
	RECOM	MENDATIONS OF TSH LI	EVELS DURING PREC	GNANCY ( µIU/mL)	-	
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

## INCREASED TSH LEVELS:

1.Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







NAME	: Mrs. BABITA			
AGE/ GENDER	: 35 YRS/FEMALE		PATIENT ID	: 1813908
COLLECTED BY	:		REG. NO./LAB NO.	: 012504010059
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 01/Apr/2025 01:31 PM
BARCODE NO.	:01528173		COLLECTION DATE	: 01/Apr/2025 03:37PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 01/Apr/2025 05:43PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT	,	
Test Name		Value	Unit	Biological Reference interval
	IMMU	NOPATH	OLOGY/SEROLOG	Y
	C	REACTIVE	E PROTEIN (CRP)	
	C.			0.0 - 6.0

4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process. **NOTE:** 

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history.

2. Oral contraceptives may increase CRP levels.





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



Page 8 of





	М	D <b>r. Vinay Chop</b> ID (Pathology & M hairman & Consul	icrobiology)		(Pathology)
NAME	: Mrs. BABITA				
AGE/ GENDER	: 35 YRS/FEMAI	LE		PATIENT ID	: 1813908
COLLECTED BY				REG. NO./LAB NO.	: 012504010059
REFERRED BY				REGISTRATION DATE	: 01/Apr/2025 01:31 PM
BARCODE NO.	:01528173			COLLECTION DATE	: 01/Apr/2025 03:37PM
CLIENT CODE.	: KOS DIAGNOS	TICIAB		REPORTING DATE	: 01/Apr/2025 05:43PM
CLIENT ADDRESS		OLSON ROAD, AM	IBALA CANTT		
	. 0010/1, 1001				
Test Name			Value	Unit	Biological Reference interval
	RH	EUMATOID I	FACTOR (1	RA): QUANTITATIVI	E - SERUM
RHEUMATOID (RA)	FACTOR QUA	NTITATIVE:	7.01	IU/mL	NEGATIVE: < 18.0
SERUM					BORDERLINE: 18.0 - 25.0
by NEPHLOMETRY					POSITIVE: > 25.0
by NEPHLOMETRY PRICEMENTSY PROSENTSY PROVIDENCESSING					





DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

