

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



	Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	crobiology)		gam Chopra MD (Pathology) Itant Pathologist		
NAME : Mrs	. BALWINDER KAUR					
AGE/ GENDER : 52 Y	RS/FEMALE		PATIENT ID	: 163656	59	
COLLECTED BY :			REG. NO./LAB NO.	: 01241	0070050	
REFERRED BY :			REGISTRATION DAT	E : 07/Oct.	/2024 11:49 AM	
	18486		COLLECTION DATE		/2024 11:57AM	
	DIAGNOSTIC LAB		REPORTING DATE		/2024 12:18PM	
	9/1, NICHOLSON ROAD, AMI	BALA CANT				
Test Name		Value	Unit		Biological Reference interval	
		HAFN	ATOLOGY			
	COL		OOD COUNT (CBC)			
RED BLOOD CELLS (RBCS) C						
	OUNT AND INDICES				12.0.1/.0	
HAEMOGLOBIN (HB) by CALORIMETRIC		9.2 ^L	gm/d	IL I	12.0 - 16.0	
RED BLOOD CELL (RBC) COL		3.54	Millio	ns/cmm	3.50 - 5.00	
PACKED CELL VOLUME (PCV		30.3 ^L	%		37.0 - 50.0	
MEAN CORPUSCULAR VOLU	ME (MCV) TED HEMATOLOGY ANALYZER	85.5	fL		80.0 - 100.0	
MEAN CORPUSCULAR HAEN		26 ^L	pg		27.0 - 34.0	
MEAN CORPUSCULAR HEM		30.4 ^L	g/dL		32.0 - 36.0	
RED CELL DISTRIBUTION WI	DTH (RDW-CV)	15.4	%		11.00 - 16.00	
RED CELL DISTRIBUTION WI	DTH (RDW-SD)	49.1	fL		35.0 - 56.0	
MENTZERS INDEX		24.15	RATIC	C	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0	
GREEN & KING INDEX		37.21	RATIC	C	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0	
WHITE BLOOD CELLS (WBCS)						
TOTAL LEUCOCYTE COUNT (6660	/cmm	ı	4000 - 11000	
NUCLEATED RED BLOOD CE by AUTOMATED 6 PART HEMA	LLS (nRBCS)	NIL			0.00 - 20.00	
NUCLEATED RED BLOOD CE by CALCULATED BY AUTOMAT	LLS (nRBCS) % <i>fed hematology analyzer</i>	NIL	%		< 10 %	
NEUTROPHILS by FLOW CYTOMETRY BY SF (CUBE & MICROSCOPY	61	%		50 - 70	

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Dr. Yugam Chopra

MD (Pathology)

MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. BALWINDER KAUR **AGE/ GENDER** : 52 YRS/FEMALE **PATIENT ID** :1636569 **COLLECTED BY** :012410070050 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :07/Oct/2024 11:49 AM **BARCODE NO.** :01518486 **COLLECTION DATE** :07/Oct/2024 11:57AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :07/Oct/2024 12:18PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 29 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 4 % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 2 - 12 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS % 0 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 4063 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 1931 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 266 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 400 80 - 880 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 - 110 0 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 150000 - 450000 PLATELET COUNT (PLT) 258000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.10 - 0.36 PLATELETCRIT (PCT) 0.31 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 104000^H /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 40.1 % 11.0 - 45.0

16.5

Dr. Vinay Chopra

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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15.0 - 17.0





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NAME	: Mrs. BALWINDER KAUR			
AGE/ GENDER	: 52 YRS/FEMALE	PATI	ENT ID	: 1636569
COLLECTED BY	:	REG. 1	NO./LAB NO.	: 012410070050
REFERRED BY		RECIS	STRATION DATE	: 07/Oct/2024 11:49 AM
BARCODE NO.	: 01518486		ECTION DATE	: 07/Oct/2024 11:43 AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 07/Oct/2024 03:58PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
GLYCOSYLATED HAEN WHOLE BLOOD	MOGLOBIN (HbA1c):	OSYLATED HAEMO	GLOBIN (HBA1C) %	4.0 - 6.4
ESTIMATED AVERAGI	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	125.5	mg/dL	60.00 - 140.00
		DIABETES ASSOCIATION		
	AS PER AMERICAN L		(ADA): LATED HEMOGLOGIB (I	HBAIC) in %
	abetic Adults >= 18 years	0210001	<5.7	
	t Risk (Prediabetes)		5.7 - 6.4	
D	iagnosing Diabetes		>= 6.5	
			Age > 19 Years	
T I		Goals of The	1.2	< 7.0
Therapeut	ic goals for glycemic control	Actions Sugge		>8.0
		Goal of ther	Age < 19 Years	<7.5

COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate.

4. High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5. Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



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Test Name		Value	Unit	Biological Reference interval
	CLI		TRY/BIOCHEMISTRY	(
		KIDNEY FUNCT	ION TEST (BASIC)	
UREA: SERUM by UREASE - GLUTAN	IATE DEHYDROGENASE (GLDH)	22.9	mg/dL	10.00 - 50.00
CREATININE: SERUN by ENZYMATIC, SPEC	1	0.79	mg/dL	0.40 - 1.20
BLOOD UREA NITRO		10.7	mg/dL	7.0 - 25.0
	GEN (BUN)/CREATININE	13.54	RATIO	10.0 - 20.0
	CTROPHOTOMETERY			
UREA/CREATININE F	RATIO: SERUM	28.99	RATIO	
URIC ACID: SERUM by URICASE - OXIDAS		5.5	mg/dL	2.50 - 6.80



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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
Test Name		Value	Unit	Biological Reference interval
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (< 1. Postrenal azotemia 2. Prerenal azotemia 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an ir	ke or production or tissue breakder xia, high fever). (e.g. ureterocolostomy) ass (subnormal creatinine product tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININE a (BUN rises disproportionately more superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis. urea rather than creatinine diffus monemias (urea is virtually absert of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININ py (accelerates conversion of creat eleases muscle creatinine). who develop renal failure.);	ettion) LEVELS : bore than creatinine) (e.g. obstr to blood). the blood). the blood). the blood of the	ructive uropa	bsis, Cushings syndrome, high protein diet, thy). gies,resulting in normal ratio when dehydration

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Test Name		Value	Unit	Biological Reference interval
Test Name		Value ENDOCRINO		Biological Reference interval
Test Name			LOGY	Biological Reference interval
TRIIODOTHYRONIN	E (T3): SERUM	ENDOCRINO THYROID FUNCTION 0.592	LOGY	Biological Reference interval
TRIIODOTHYRONIN <i>by cmia (chemilumi</i> THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOAS	ENDOCRINO THYROID FUNCTION 0.592 SSAY) 6.18	LOGY TEST: TOTAL	
TRIIODOTHYRONIN by cmia (chemilumi THYROXINE (T4): SE by cmia (chemilumi THYROID STIMULA	E (T3): SERUM <i>NESCENT MICROPARTICLE IMMUNOA</i> S RUM	ENDOCRINO THYROID FUNCTION 0.592 SSAY) 6.18	LOGY TEST: TOTAL ng/mL	0.35 - 1.93

overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	T3	T4	TSH
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:-

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 (eg: phenytoin , salicylates).

3. Serum T4 levles 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 hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTHYRONINE (T3)		THYROXINE (T4)		THYROID STIMULATING 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





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Test Name			Value	Unit		Biological Reference interval
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 LE	VELS DURING PREG	NANCY (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, idonie 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 goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic 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

*** End Of Report ***





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