TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

# **PKR JAIN HEALTHCARE INSTITUTE** NASIRPUR, Hissar Road, AMBALA CITY- (Haryana) A PIONEER DIAGNOSTIC CENTRE

【 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Miss. SONU			
AGE/ GENDER	: 21 YRS/FEMALE	]	PATIENT ID	: 1700508
COLLECTED BY	:	]	REG. NO./LAB NO.	: 122412160020
REFERRED BY	:	]	REGISTRATION DATE	: 16/Dec/2024 02:42 PM
BARCODE NO.	: 12506176	(	COLLECTION DATE	: 16/Dec/2024 03:00PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	TE I	REPORTING DATE	: 16/Dec/2024 04:07PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HAR	RYANA	
Test Name		Value	Unit	Biological Reference interval
		НАЕМА	TOLOGY	
		LETE BLO	OOD COUNT (CBC)	
	<b><u>S (RBCS) COUNT AND INDICES</u></b>			100.105
HAEMOGLOBIN (H by CALORIMETRIC	B)	10.5 <sup>L</sup>	gm/dL	12.0 - 16.0
RED BLOOD CELL (	RBC) COUNT	4.21	Millions/	cmm 3.50 - 5.00
PACKED CELL VOL	JME (PCV) utomated hematology analyzer	32.7 <sup>L</sup>	%	37.0 - 50.0
MEAN CORPUSCUL		77.5 <sup>L</sup>	KR fl	80.0 - 100.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	25 <sup>L</sup>	pg	27.0 - 34.0
by CALCULATED BY A	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	32.3	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	15.5	%	11.00 - 16.00
	UTION WIDTH (RDW-SD) utomated hematology analyzer	45.1	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		18.41	RATIO	BETA THALASSEMIA TRAIT: 13.0 IRON DEFICIENCY ANEMIA:
GREEN & KING INI by CALCULATED	DEX	28.6	RATIO	>13.0 BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
<u>WHITE BLOOD CE</u>	LLS (WBCS)			
,	BY SF CUBE & MICROSCOPY	11650 <sup>H</sup>	/cmm	4000 - 11000
NEUTROPHILS	UCOCYTE COUNT (DLC)	64	%	50 - 70
LYMPHOCYTES	TOT OF CUDE & MICKUSCUMY	33	%	20 - 40

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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

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: Miss. SONU

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Test Name		Value	Unit	<b>Biological Reference interval</b>	
by FLOW CYTOMETR	RY BY SF CUBE & MICROSCOPY				
EOSINOPHILS		0 <sup>L</sup>	%	1 - 6	
by FLOW CYTOMETR	RY BY SF CUBE & MICROSCOPY	3	%	2 - 12	
	RY BY SF CUBE & MICROSCOPY	3	70	2 - 12	
BASOPHILS		0	%	0 - 1	
	RY BY SF CUBE & MICROSCOPY				
ABSOLUTE LEUK	<u>OCYTES (WBC) COUNT</u>				
ABSOLUTE NEUTF		7456	/cmm	2000 - 7500	
by FLOW CYTOMETR ABSOLUTE LYMPH	RY BY SF CUBE & MICROSCOPY		1	800 - 4900	
	AUCY TE COUNT RY BY SF CUBE & MICROSCOPY	3844 <sup>L</sup>	/cmm	800 - 4900	
ABSOLUTE EOSIN		0 <sup>L</sup>	/cmm	40 - 440	
•	RY BY SF CUBE & MICROSCOPY				
ABSOLUTE MONO	CYTE COUNT RY BY SF CUBE & MICROSCOPY	350	/cmm	80 - 880	
ABSOLUTE BASOP		0	/cmm	0 - 110	
	RY BY SF CUBE & MICROSCOPY	Ū	/ chini	0 110	
PLATELETS AND	OTHER PLATELET PREDICTIVE	<u>E MARKERS.</u>			
PLATELET COUNT by HYDRO DYNAMIC	' (PLT) FOCUSING, ELECTRICAL IMPEDENCE	527000 <sup>H</sup>	cmm	150000 - 450000	
PLATELETCRIT (P		0.45 <sup>H</sup>	%	0.10 - 0.36	
	FOCUSING, ELECTRICAL IMPEDENCE	0	67	0.50 10.0	
MEAN PLATELET	VOLUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	8	fL	6.50 - 12.0	
PLATELET LARGE	CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	87000	/cmm	30000 - 90000	
PLATELET LARGE	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	16.5	%	11.0 - 45.0	
PLATELET DISTRI	BUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	15.4	%	15.0 - 17.0	
NOTE: TEST CONDU	UCTED ON EDTA WHOLE BLOOD				



NAME

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Test Name		Value	Unit	Biological Reference interval
	GLY	COSYLATED HAEMOO	GLOBIN (HBA1C)	
GLYCOSYLATED HAEMOGLOBIN (HbA1c): WHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)		5.5	%	4.0 - 6.4
ESTIMATED AVERAG		111.15	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAB	ETES ASSOCIATION (ADA):		
RE	FERENCE GROUP		EMOGLOGIB (HBAIC) in	%
Non diab	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)	BIZE	<mark>5.7 – 6</mark> .4	
Dia	gnosing Diabetes		>= 6.5	
			e > 19 Years	
		Goals of Therapy: Actions Suggested:	< 7.0	
Therapeutic	Therapeutic goals for glycemic control		>8.0	
Therapeutic	goals for grycenic control		e < 19 Years	

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 4.High appropiate.

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	<b>Biological Reference interval</b>

Name : Age : Gender :	e: Department: Sample Type : Whole Blood ED		Age: Department: Sa			Test Date : 17/12/202 Sample ld : 12506176 Total Area : 8768	506176
Peak Name	Retention Time(s)	Absorbance	Area	Result (Area %)			
HbA0	68	2628	8148	92.9			
HbA1c	38	42	354	5.5			
.a1c	26	14	90	1.4			
1bF	23	8	14	0.1			
lba1b	13	34	105	1.6			
lba1a	10	20	57	0.9			
0.03			1	Choromotography Hba1c			
		11					
0.025 -		11					
		1 1					
0.02-		~ 1					
§ 0.015 -		10° 1					
¥ 0.015							
0.01-							
0.01		7	\				
0.005 -							
0.005	$\wedge$						
· · · · · ·							
0 10	20 30 40 50 60	70 80 90 1	100 110 120 130				
	т	ime(S)					





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Test Name		Value	Unit	<b>Biological Reference interva</b>
	CLINI		STRY/BIOCHEMIST E RANDOM (R)	'nŊ
GLUCOSE RANDON by GLUCOSE OXIDAS	I (R): PLASMA E - PEROXIDASE (GOD-POD)	134.07	mg/dL	NORMAL: < 140.00 PREDIABETIC: 140.0 - 200.0 DIABETIC: > 0R = 200.0
<b>INTERPRETATION</b>				
	H AMERICAN DIABETES ASSOCIA glucose level below 140 mg/dl i			
2 A random ducose	level between 140 - 200 mg/dl	is considered as	alucose intolerant or prediat	petic A fasting and post-prinadial blood test

2. A random glucose level between 140 - 200 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prnadial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.

3. A random glucose level of above 200 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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Test Name		Value	Unit	Biological Reference interva	
		ENDOCRI	NOLOCY		
		ENDUCKI	NULUGI		
	THYRO		ON TEST: TOTAL		
				0.35 - 1.93	
by CMIA (CHEMILUMIN THYROXINE (T4): S	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	DID FUNCTI 1.27 8.81	ON TEST: TOTAL	0.35 - 1.93 4.87 - 12.60	
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM iescent microparticle immunoassay) GERUM	DID FUNCTI 1.27 8.81	<b>ON TEST: TOTAL</b> ng/mL		
THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY) SERUM IESCENT MICROPARTICLE IMMUNOASSAY) ATING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	1.27 8.81	<b>ON TEST: TOTAL</b> ng/mL μgm/dL	4.87 - 12.60	

TSH levels are subject to circadian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50%. Hence time of the day has influence on the measured serum TSH concentrations. TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and triiodothyronine (T3). Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or 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 (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	(RONINE (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	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	





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Test Name			Value	Unit	t	Biological Reference interval
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	
	RECON	IMENDATIONS OF TSH LE	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



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Test Name		Value	Unit	Biological Reference interval	
		PROLAC	TIN		
PROLACTIN: SERUI	NI ESCENT MICROPARTICLE IMMUNOASS	13.42 SAY)	ng/mL	3 - 25	
2.Functional and orga 3.Primary hypothyroi 4.Section compressio 5.Chest wall lesions a 6.Ectopic tumors. 7.DRUGS:- Anti-Dopai receptors, or seroton ,Opiates, High doses <b>SIGNIFICANCE:</b> 1.In loss of libido, gal 2.Loss of libido, impo from decreased music	pituitary adenoma (prolactinoma anic disease of the hypothalamus dism. n of the pituitary stalk. and renal failure. minergic drugs like antipsychotic of in reuptake (anti-depressants of a of estrogen or progesterone, antic actorrhea, oligomHyperprolactine tence, infertility, and hypogonadi cle mass and osteoporosis.	drugs, antinausea/an all classes, ergot deri convulsants (valporic emia often results en sm in males. Postme	tiemetic drugs, Drugs t vatives, some illegal di acid), anti-tuberculou orrhea or amenorrhea	hat affect CNS serotonin metabolism, seroto rugs such as cannabis), Antihypertensive dru	
3. In males, prolactin I 4. In women prolactir	evels >13 ng/mL are indicative of h n levels >27 ng/mL in the absence o d signs of hyperprolactinemia are	yperprolactinemia. f pregnancy and post often absent in patie	partum lactation are ind	dicative of hyperprolactinemia.	
4. Mild to moderately adenoma is present, CAUTION:	/ increased levels of serum prolac 5.Whereas levels >250 ng/mL are	tin are not a reliable usually associated w	guide for determining ith a prolactin-secretir	whether a prolactin-producing pituitary ig tumor.	
4. Mild to moderately adenoma is present, CAUTION: Prolactin values that	/ increased levels of serum prolac 5.Whereas levels >250 ng/mL are	tin are not a reliable usually associated w be due to macroprola	guide for determining ith a prolactin-secretir actin (prolactin bound	whether a prolactin-producing pituitary 1g tumor. to immunoglobulin). Macroprolactin should	
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Test Name	Valu	e Unit	Biological Reference interval
	TESTO	STERONE: TOTAL	
<b>FESTOSTERONE - 1</b>	OTAL: SERUM 0.45	ng/mI	0.0 - 0.80
INTERPRETATION: 1.Testosterone is seci 2.In males it is secret testosterone is in the	free form.	directly from androstenedion largely to sex hormone bindi	e in adrenal glands. ng globulin (SHBG). Less than 1% of the total
INTERPRETATION: 1. Testosterone is seci- 2. In males it is secret- testosterone is in the 3. The bioavailable fra- and bound to cortisol 4. The total testostero CLINIC USE: 1. Assesment of testic 2. Management of hir INCREASED LEVELS: 1. Precocious puberty	reted in females by the ovary and formed in ed by the testes. It circulates in blood bound free form. ction includes the free form and that "weak binding globulin (CBG). It is the most poter one bound to SHBG fluctuates since SHBG le cular functions in males sutism and virilization in females (Males)	directly from androstenediona largely to sex hormone bindi v bound" to albumin (40% of 1	e in adrenal glands. ng globulin (SHBG). Less than 1% of the total the total in men and 20% of the total in women)
INTERPRETATION: 1. Testosterone is seci 2. In males it is secret testosterone is in the 3. The bioavailable fra and bound to cortisol 4. The total testosterce CLINIC USE: 1. Assesment of testic	reted in females by the ovary and formed in ed by the testes. It circulates in blood bound free form. ction includes the free form and that "weak binding globulin (CBG). It is the most poter one bound to SHBG fluctuates since SHBG le cular functions in males sutism and virilization in females (Males) e Hyperplasia disease	directly from androstenediona largely to sex hormone bindi v bound" to albumin (40% of 1	e in adrenal glands. ng globulin (SHBG). Less than 1% of the total the total in men and 20% of the total in women)





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**NOT VALID FOR MEDICO LEGAL PURPOSE** 

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