



		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugam MD (I CEO & Consultant F	Pathology)
NAME	: Mrs. NISHA SHARMA			
AGE/ GENDER	: 70 YRS/FEMALE	PATIF	ENT ID	: 1576420
COLLECTED BY	:	REG. M	NO./LAB NO.	: 042408100001
REFERRED BY	:	REGIS	TRATION DATE	: 10/Aug/2024 09:17 AM
BARCODE NO.	: A0465181	COLLI	ECTION DATE	: 10/Aug/2024 03:10PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBA	AD REPO	RTING DATE	: 10/Aug/2024 03:48PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HAEMOGLOBIN (HB		11.3 ^L	gm/dL	12.0 - 16.0
tissues back to the lu A low hemoglobin lew ANEMIA (DECRESED 1) Loss of blood (trau 2) Nutritional deficie 3) Bone marrow prob 4) Suppression by ret 5) Kidney failure 6) Abnormal hemogl POLYCYTHEMIA (INCI 1) People in higher a 2) Smoking (Seconda 3) Dehydration prod 4) Advanced lung dis 5) Certain tumors 6) A disorder of the k 7) Abuse of the drug	ings. vel is referred to as ANEMIA or HAEMOGLOBIN): umatic injury, surgery, bleedin ency (iron, vitamin B12, folate) blems (replacement of bone ma d blood cell synthesis by chem obin structure (sickle cell anei REASED HAEMOGLOBIN): iltitudes (Physiological) ry Polycythemia) uces a falsely rise in hemoglob ease (for example, emphysema bone marrow known as polycyt	i low red blood count. Ig, colon cancer or stomach arrow by cancer) notherapy drugs mia or thalassemia). bin due to increased haemo a) themia rubra vera, iletes for blood doping purp	ulcer)	dys tissues and returns carbon dioxide from t

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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







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REFERRED BY	:	REGIS	STRATION DATE	: 10/Aug/2024 09:17 AM
BARCODE NO.	: A0465180	COLL	ECTION DATE	: 10/Aug/2024 03:10PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPO	RTING DATE	: 10/Aug/2024 05:34PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMISTRY/	BIOCHEMISTRY	
		GLUCOSE FAST	TING (F)	
GLUCOSE FASTING (by glucose oxidas	F): PLASMA se - peroxidase (god-pod)	GLUCOSE FAST 129.29 ^H	TING (F) mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0



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 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







	MD (Vinay Chopra Pathology & Microbiology) man & Consultant Pathologist		(Pathology)
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ARCODE NO.	: A0465179		COLLECTION DATE	: 10/Aug/2024 03:10PM
LIENT CODE.	: KOS DIAGNOSTIC	SHAHBAD	REPORTING DATE	: 10/Aug/2024 04:49PM
LIENT ADDRESS	: 6349/1, NICHOLS	ON ROAD, AMBALA CANTT		
Test Name	_	Value	Unit	Biological Reference interval
		CHOLESTE	ROL: SERUM	
CHOLESTEROL TOTA by cholesterol ox		166.19	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0

NATIONAL LIPID ASSOCIATION RECOMMENDATIONS (NLA-2014)	CHOLESTEROL IN ADULTS (mg/dL)	CHOLESTEROL IN ADULTS (mg/dL)
DESIRABLE	< 200.0	< 170.0
BORDERLINE HIGH	200.0 - 239.0	171.0 - 199.0
HIGH	>= 240.0	>= 200.0

NOTE:

Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.
 As per National Lipid association - 2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	MD (Pathology & N			am Chopra ID (Pathology) ant Pathologist	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		ENDOCRIN	OLOGY		
	TH	ENDOCRINO IVROID FUNCTION			
	E (T3): SERUM	IYROID FUNCTION 0.699		0.35 - 1.93	
THYROXINE (T4): SEE	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOASS	0.699 7.64	N TEST: TOTAL	0.35 - 1.93 4.87 - 12.60	
by CMIA (CHEMILUMIN THYROXINE (T4): SEF by CMIA (CHEMILUMIN THYROID STIMULAT	E (T3): SERUM <i>IESCENT MICROPARTICLE IMMUNOASS</i> RUM	0.699 7.64	N TEST: TOTAL ng/mL		

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			NE (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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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
NAME	: Mrs. NISHA SHARMA		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	
Test Name	Value	Unit	Biological Reference interval

rest Name			value	Unit		Biological Reference Inter
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 PREGN	IANCY (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





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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

	Dr. Vinay Chopra MD (Pathology & Microt Chairman & Consultant		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. NISHA SHARMA : 70 YRS/FEMALE : : : A0465179 : KOS DIAGNOSTIC SHAHBAD : 6349/1, NICHOLSON ROAD, AMBAL	REGIS COLLE REPOI	NT ID 10./LAB NO. TRATION DATE ECTION DATE RTING DATE	: 1576420 : 042408100001 : 10/Aug/2024 09:17 AM : 10/Aug/2024 03:10PM : 10/Aug/2024 04:49PM
Test Name	V	/alue	Unit	Biological Reference interval
	RHEUMATOID FA	ACTOR (RA): Q		
SERUM by NEPHLOMETRY INTERPRETATION:- RHEUMATOID FACTON 1. Rheumatoid factor 2. Over 75% of patier useful although it ma 3. Inflammatory Mark 4. The titer of RF corr 5. The test is useful f RHEUMATOID ARTHIR 1. Rheumatoid Arthir membrane lining (syu 2. The disease spreda 3. The diagnosis of R	R (RA): s (RF) are antibodies that are directed as ts with rheumatoid arthritis (RA) have a y not be etiologically related to RA. kers such as ESR & C-Reactive protein (C elates poorly with disease activity, but t or diagnosis and prognosis of rheumato ITIS: itis is a systemic autoimmune disease t novium) joints which ledas to progressis as from small to large joints, with greate A is primarily based on clinical, radiolog	an IgM antibody i RP) are normal in hose patients wit vid arthritis. hat is multi-funct ve joint destructions st damage in ear	to IgG immunoglobu about 60 % of patie h high titers tend to tional in origin and i on and in most case ly phase.	ulin. This autoantibody (RF) is diagnostically ents with positive RA. have more severe disease course. is characterized by chronic inflammation of the es to disability and reduction of quality life.
2. Non rheumatoid an RA patients have a no 3. Patients with variou lupus erythematosus, 4. Anti-CCP have been specific (98%) than RA 5. Upto 30 % of patier	TIVE):- cific for Rheumatoid arthiritis, as it is ofte d rheumatoid arthritis (RA) populations a nreactive titer and 8% of nonrheumatoid us nonrheumatoid diseases,characterized polymyositis, tuberculosis, syphilis, viral h discovered in joints of patients with RA, I	re not clearly sepa patients have a p by chronic inflami nepatitis, infectiou but not in other fo tis also show Anti-	arate with regard to ositive titer). mation may have po is mononucleosis, ar rm of joint disease.A CCP antibodies.	Nti-CCP2 is HIGHLY SENSITIVE (71%) & more
, ,		nd Of Report	U	
	A	Que no la constancia de		
	DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY	DR.YUGAM CHC CONSULTANT P Y) MBBS , MD (PA	ATHOLOGIST	

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