



(Multi Super Speciality 200 Bedded Hospital)

DEPARTMENT OF PATHOLOGY

UHID Name Age/Gender Accession Number Treating Doctor Ordering Doctor CIMS-18807 Mr Dev Dutt 54 Y,2 M,20 D/Male OPAC-6085 Dr Self

Dr Self Mediwheel Full Body Health Checkup Visit Type/No Order No Order Date/Time Collection Date/Time Acknowledge Date/Time

Report Date/Time

Refer By

28-09-2024 28-09-2024 09:50 AM 28-09-2024 01:34 PM 28-09-2024 01:37 PM

OR-58946

OP/EPD-28140/EPD-28140

Pathology

Service Name

Payer Name

PSA (Prostate Specific Antigen) Total, Serum

Result 0.526 Unit ng/mL

Reference Range 0.27-3.42 Method CLIA

Note

- :1. This is recommended test for detection of prostate cancer along with digital rectal examination(DRE) in males above 50 years of age.
- 2. False negative / positive results are observed in patients receiving mouse monoclonal antibodies for diagnosis or therapy
- 3. PSA Total and Free levels may appear consistently elevated / depressed due to interference by heterophilic antibodies & nonspecific protein binding,
- 4. Immediate testing following digital rectal examination, ejaculation, prostatic massage, indwelling catheterization, ultrasonography and needle biopsy of prostate is not recommended as they falsely elevate levels.
- 5. Total and Free PSA values regardless of levels should not be interpreted as absolute evidence for the presence or absence of disease. All values should be correlated with clinical findings and results of other investigations

Clinical Use

- An aid in the early detection of Prostate cancer in males 50 years or older with Total PSA values between 4.0 and 10.0 ng/mL and nonsuspicious digital rectal examination.
- An aid in discriminating between Prostate cancer and Benign Prostatic disease. Patients with benign conditions have a higher proportion of Free PSA compared with Prostate cancer

URINE ANALYSIS/ URINE ROUTINE EXAMINATION, Urine Physical Examination

i nysicai Examination				
COLOUR	Pale Yellow			Manual method
TRANSPARENCY	Clear			Manual method
SPECIFIC GRAVITY	1,020		1.001-1.03	
PH URINE	6.5		5-8	Strip
DEPOSIT	Absent		3-6	Strip
BIOCHEMICAL EXAMINATION	riosent			Manual
ALBUMIN	Absent			Strip
SUGAR	Absent			Strip
BILE SALTS (BS)	Absent			Manual
BILE PIGMENT (BP)	Absent			Manual
MICROSCOPIC EXAMINATION				Manuai
PUS CELLS	1-2	/ hpf		\ d:
EPITHELIAL CELLS	0-1	/ hpf		Microscopy
RBC'S	Absent	/hpf		Microscopy
CASTS	Absent	riipi		Microscopy
CRYSTALS	Absent			Microscopy
BACTERIA	Absent			Macroscopy
FUNGUS	Absent			Macroscopy
SPERMATOZOA	Absent			Microscopy
OTHERS	Absent			Microscopy (11)
Thyroid Profile -T3, T4, TSH, Blood	AUSCIII			Microscopy
Triiodothyronine (T3)	2.09	ng/mL	0.69-2.15	60/
Thyroxine (T4)	85.0	ng/mL	52-127	CLIA CILIC
Thyroid Stimulating Hormone (TSH)	5.81 H	uIU/mL	0.3-5.0	
	2.01 11	WIO/IIIL	0.5-5.0	CLIA

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UHID CIMS-18807 Visit Type/No Name Mr Dev Dutt Order No Age/Gender 54 Y,2 M,20 D/Male Accession Number OPAC-6085 Treating Doctor Dr Self Ordering Doctor Dr Self Payer Name

Checkup

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Service Name Result Unit Reference Range Method

Interpretation

1. 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

2. Recommended test for T3 and T4 is unbound fraction or free levels as it is metabolically active. 3. Physiological rise in Total T3 / T4 levels is seen in pregnancy and in patients on steroid therapy.

Clinical Use

Primary Hypothyroidism

Hyperthyroidism Hypothalamic - Pituitary hypothyroidism

Inappropriate TSH secretion Nonthyroidal illness Autoimmune thyroid disease

Pregnancy associated thyroid disorders

Thyroid dysfunction in infancy and early childhood

Haematology

Service Name BLOOD GROUP (ABO)	Result	Unit	Reference Range	Method
BLOOD GROUP (ABO)- RH TYPING The upper agglutination test for grouping has so	"AB' POSITIVE me limitations.			
ESR (Erythrocyte Sedimentation Rate), Blood CBC (Complete Blood Count), Blood	32 H	mm 1st Hr.	0-10	Wintrobe
Hemoglobin (Hb)	15.2	gm/dl	13-17	Spectrophotometry
TLC (Total Leukocyte Count)	7560	/cumm	4000-11000	Cell Counter & Microscopy
DIFFERENTIAL LEUCOCYTE COUNT				con counter & wherescopy
Neutrophils	57	0/0	40-80	Cell Counter & Microscopy
Lymphocytes	31	%	20-45	Cell Counter & Microscopy
Monocytes	05	%	4-10	Cell Counter & Microscopy
Eosinophils	07 H	%	1-6	Cell Counter & Microscopy
Basophils	00	%	0-1	Cell Counter & Microscopy
RBC Count	4.84	millions/cumm	4.5-5.5	Impedance
PCV / HCt (Hematocrit)	44.3	%	40-45	Calculated
MCV	91.5	fî	76-96	Impedance
MCH	31.4	pg	27-32	Impedance
MCHC	34.3	g/dL	30-35	Impedance
Platelet Count	1.86	lakh/cumm	1.5-4.5	Cell Counter & Microscopy
RDW	13.4	%	1-15	Impedance
	Cli	nical Biochemistry		Siley NH. 15
Service Name KFT (Kidney Profile) -II, Serum	Result	Unit	Reference Range	Method
Urea, Blood	25.43	mg/dL	15-50	Urease-uv
Creatinine, Serum	1.04	mg/dL	0.6-1.2	Enzymatic
Blood Urea Nitrogen (BUN)	11.87	mg%	7.5-22.0	Calculated
		The state of the s		Calculated

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Service Name	Result	Unit	Reference Range	Method	11
BUN-CREATININE RATIO	11.41		10-20	Calculated	
Sodium, Serum	149.2	mmol/L	135-150	ISE	
Potassium, Serum	4.56	mmol/L	3.5-5.5	ISE	
Calcium, Serum	10.24	mg/dL	8.7-11.0	ISE	
Chloride, Serum	98.0	mmol/L	94-110	ISE	
Jric acid, Serum	4.48	mg/dL	3.4-7.0	Uricase	
Magnesium, Serum	1.82	mg/dL	1.6-2.8	XYLIDYL BLUE	
Phosphorus, Serum	3.79	mg/dL	2.4-5.0	MOLYBDATE U	V .
Alkaline phosphatase, Serum	88.73	U/L	53-165	IFCC	
Albumin, Serum	3.86	g/dL	3.5-5.4	BCG	
Glucose (Fasting), Plasma	103.37	mg/dL	60-110	GOD/POD	a th
Lipid Profile, Serum					
Cholestrol, serum	181.33		Optimal: < 200 mg/dl Boder LIne High Risk: 150 -240 mg/dl High Risk: > 250 mg/dl Optimal: < 150 mg/dl Border Line High Risk: 150 - 199 mg/dl		<i>y</i>
riglycerides, serum	141.44	mg%	High Risk: 200 - 499 mg /dl Very High Risk: > 500 mg /dl Optimal: 70 mg/dl		
IDL Cholesterol	48.68	mg%	Border Line High Risk: 80 - 100 mg/dl High Risk: > 120 mg/dl Optimal: < 100 mg/dl		
DL Cholesterol	104.36	mg%	Border Line High Risk: 100 - 129 mg/dl High Risk: > 160 mg/dl		f.,
/LDL Cholestrol	28.29	mg%	Male : 10 - 40 mg/dl Female : 10 - 40 mg/dl Child : 10 - 40 mg/dl		107
LDL / HDL Cholesterol ratio	2.14		0.0-3.5		
nterpretation	1				

1. Measurements in the same patient can show physiological & analytical variations. recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. ATP III recommends a complete lipoprotein profile as the initial test for evaluating cholesterol.

3. .Friedewald equation to calculate LDL cholesterol is most accurate when Triglyceride level LDL cholesterol is recommended when Triglyceride level is >400 mg/dL

serial samples I week apart are

400 mg/dL. Measurement of Direct

LFT (Liver Function Test) Profile, Serum

Bilirubin Total, Serum Conjugated (Direct), Serum

0.50 0.20 mg/dL mg%

0.1 - 1.00.0 - 0.3 DMSO DMSO

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Service Name	Result	Unit	Reference Range	Method
Unconjugated (Indirect)	0.30	mg%	0.0-0.75	Calculated
SGOT/AST	24.49	U/L	0-40	IFCC
SGPT/ALT	25.78	U/L	0-48	IFCC
AST/ALT Ratio	0.95		0-1	Calculated
Gamma GT,Serum	19.61	U/L	10-45	IFCC
Alkaline phosphatase, Serum	88.73	U/L	53-165	IFCC '
Total Protein, serum	7.15	gm/dl	6.0-8.4	Biuret
Albumin, Serum	3.86	g/dL	3.5-5.4	BCG
Globulin "	3.29	g/dL	2.3-3.6	Calculated
A/G Ratio	1.17		1.0-2.3	Calculated
VITAMIN B12 CYANOCOBALAMIN, Serum	126.0 L	pg/mL	200-1100	CLIA

Note

:To differentiate vitamin B12 & folate deficiency, measurement of Methyl malonic acid in urine & serum, Homocysteine level is suggested

Comments:

Vitamin B12 performs many important functions in the body, but the most significant function is to act as coenzyme for reducing ribonucleotides to deoxyribonucleotides, a step in the formation of genes.Inadequate dietary intake is not the commonest cause for cobalamine deficiency. The most common cause is malabsorption either due to atrophy of gastric mucosa or diseases of terminal ileum. Cobalamine deficiency leads to Megaloblastic anemia and demyelination of large nerve fibres of spinal cord. Normal body stores are sufficient to last for 3-6 years. Sources of Vitamin B12 are liver, shellfish, fish, meat, eggs, milk, cheese &yogurt.

Decreased Levels

- * Lack of Intrinsic factor: Total or partial gastrectomy, Atrophic gastritis, Intrinsic factor antibodies
- * Malabsorption: Regional ileitis, resected bowel, Tropical Sprue, Celiac disease, pancreatic insufficiency, bacterial overgrowth & achlorhydria
- * Loss of ingested vitamin B12: fish tapeworm
- * Dietary deficiency: Vegetarians
- * Congenital disorders: Orotic aciduria & transcobalamine deficiency
- * Increased demand: Pregnancy specially last trimester

Increased Levels

Chronic renal failure, Congestive heart failure, Acute & Chronic Myeloid Leukemia, Polycythemia vera, Carcinomas with liver metastasis, Liver disease, Drug induced cholestasis & Protein malnutrition



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Service Name

Result

Unit

Reference Range

Method

HbA1c

GLYCOSYLATED HAEMOGLOBIN (HbA1c)

Method-Immunofluorescence Assay

Glycosylated Hemoglobin (HbA1c)

6 40

<6.5 : Non Diabetic

6.5-7 : Good Control 7-8: Weak Control

> 8 : Poor Control

Estimated average blood glucose (eAG) 136.98

mg/dl

90-120: Excellent Control 121-150: Good Control

151-180: Average Control 181-210: Action Suggested

Note:

1. Since HbA1c reflects long term fluctuations in the blood glucose concentration, a diabetic patient who is recently

under good control may still have a high concentration of HbA1c. Converse is true for a diabetic previously under good control but now poorly controlled.

2. 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, targeting a goal of 7.0 % may not be appropriate. Comments:

HbA1c provides an index of average blood glucose levels over the past 8 - 12 weeks and is a much better indicator of long term glycemic control as compared to blood and urinary glucose determinations.

Glucose (Post Prandial), Plasma VITAMIN D3, Cholecalciferol, Serum 155.5 H 38.9

mg/dL ng/mL

80-150 30-100 GOD/POD

CLIA

Interpretation

Deficiency Insufficiency Toxicity

<10 ng/mL 10-29 ng/mL >100 ng/mL

M1-1-180

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Service Name

Result

Unit

Reference Range

Method

Note

:Note 1. Reference ranges represent clinical decision values and are established only for 25-Hydroxy Vitamin D, Total.

2. Conventional Immunoassays may have sample-specific interferences that can lead to variable performance. These interferences include other vitamin D metabolites (e.g. 24,25-

dihydroxyvitamin D3, 3-epi 25 hydroxy vitamin D3) and certain lipid. 3. Physiologically inactive epimers of Vitamin D2 & D3 are separated chromatographically with Vitamin D

metabolites as they may result in overestimation of Total Active Vitamin D levels. This can create therapeutic errors since patients who are deficient or insufficient may appear sufficient and toxicity may be reported in patients with high normal levels.

Vitamin D promotes absorption of calcium and phosphorus and mineralization of bones and teeth. Deficiency in children causes Rickets and in adults leads to Osteomalacia.it can also lead to Hypocalcemia and Tetany. Vitamin D status is best determined by measurement of 25 hyroxy vitamin D, as it is the major circulating form and has longer half life (2-3 weeks) than Dihydroxy vitamin D (5-8 hrs).

Decreased Levels · Inadequate exposure to sunlight

- · Dietary deficiency
- · Vitamin D malabsorption
- · Severe Hepatocellular disease
- · Drugs like Anticonvulsants
- · Nephrotic syndrome

Increased levels -Vitamin D intoxication



-----End of the Report-----



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