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Mr. John Doe
Age / Sex : 44 Years / Male
Reg. No : 93

Registered on : 23/05/2026 4:18 PM
Referred By : Dr. Jack

THYROID PACKAGE

Thyroid Function Test (TFT)

ENDOCRINOLOGY

TEST	VALUE	UNIT	REFERENCE
Serum T3 (Total)	1.4	ng/mL	0.69 - 2.15
Serum T4 (Total)	89.5	ng/mL	52 - 127
TSH	2.4	µIU/mL	0.3 - 4.5

Interpretations:

Physiologic Basis
Total T4 is a measure of thyroid gland secretion of T4, bound and free, and thus is influenced by levels of thyroid hormone binding proteins. Only free T4 is biologically active.
TSH is an anterior pituitary hormone that stimulates the thyroid gland to produce thyroid hormones. Secretion is stimulated by thyrotropin releasing hormones from the hypothalamus. There is negative feedback on TSH secretion by circulating thyroid hormone.
T3 is the primary active thyroid hormone. Approximately 80% of T3 is produced by extrathyroidal deiodination of T4 and the rest by thyroid gland. Total T3 is influenced by levels of thyroxine binding proteins.

Patterns of Thyroid Function Tests in Patients with Thyroid Disease

Type of disease	T4	T3	TSH
Conventional hyperthyroidism (95%)	Raised	Raised	Undetectable
T3 hyperthyroidism (5%)	Normal	Raised	Undetectable
Subclinical hyperthyroidism	Normal	Normal	Undetectable
Primary hypothyroidism	Low	Not indicated	Raised
Subclinical hypothyroidism	Normal	Not indicated	Raised
Secondary hypothyroidism	Low	Not indicated	Undetectable

CBC (with absolute counts)

HAEMATOLOGY

TEST	VALUE	UNIT	REFERENCE
Hemoglobin	15.5	g/dL	13.5 - 17.5
Total Leukocyte Count	7500	/µL	4000 - 11000
Differential Leucocyte Count			
Neutrophils	57.5	%	40 - 75
Neutrophil (Abs)	*4.31*	*×10³/µL*	*1.8 - 7.7*
Lymphocyte	32.5	%	20 - 45
Lymphocyte (Abs)	*2.44*	*×10³/µL*	*1.0 - 4.8*
Eosinophils	3.5	%	1 - 6
Absolute Eosinophil Count	*262.5*	*cells/µL*	*100 - 500*
Monocytes	6	%	2 - 10
Monocyte (Abs)	*0.45*	*×10³/µL*	*0.2 - 1.0*
Basophils	1	%	0 - 2
Basophil (Abs)	*0.07*	*×10³/µL*	*0 - 0.1*
Neutrophil Lymphocyte Ratio	*1.77*		*1 - 3*
Differential Leukocyte Count (Absolute count)			
Neutrophils	57.5	x10^3/µL	40 - 75
Lymphocytes	32.5	x10^3/µL	20 - 45
Eosinophils	3.5	x10^3/µL	1 - 6
Monocytes	6	x10^3/µL	2 - 10

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TEST	VALUE	UNIT	REFERENCE
Basophils	1	x10^3/µL	0 - 2
Platelet Count	2.8	lakhs/µL	1.5 - 4.0
Total RBC Count	5.2	million/µL	4.5 - 5.9
Hematocrit (HCT)	47	%	41 - 53
MCV	90	fL	80 - 100
MCH	*29.81*	*pg*	*27 - 33*
Mean Platelet Volume (MPV)	10	fL	7.5 - 12.5
RDW-SD	45.5	fL	37 - 54

ENDOCRINOLOGY

TEST	VALUE	UNIT	REFERENCE
Free T3 (FT3)	3.1	pg/mL	2 - 4.2
Free T4 (FT4)	13.1	pg/ml	8.9 - 17.2
FT3 / FT4 Ratio	*0.24*		*0.2 - 0.5*

~~~ End of report ~~~

Upload Signature

Upload Signature

Mr. xxxx
DMLT, Lab Incharge

Dr. yyyyy
MBBS, MD Pathologist
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