

Patient NAME :		Report STATUS :	
DOB/Age/Gender :		Barcode NO :	
Patient ID / UHID :		Sample Type :	
Referred BY :		Report Date :	
Sample Collected :			

Test Description	Value(s)	Unit(s)	Reference Range
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### Thyroid Profile Total

Triiodothyronine (T3) <i>CMIA</i>	120	ng/dL	35 - 193
Total Thyroxine (T4) <i>CMIA</i>	7.09	µg/dL	4.87 - 11.2
Thyroid Stimulating Hormone (Ultrasensitive) <i>CMIA</i>	1.11	µIU/mL	0.35 - 4.94

#### Interpretation:

Pregnancy	Reference Range TSH
1st Trimester	0.1 - 2.5
2nd Trimester	0.2 - 3.0
3rd Trimester	0.3 - 3.0

#### Clinical Use:

1. Diagnose Hypothyroidism & Hyperthyroidism
2. Monitor T4 therapy
3. Measure subnormal TSH levels

**Increased TSH:** Primary hypothyroidism, Subclinical hypothyroidism, TSH-dependent hyperthyroidism, Thyroid hormone resistance

**Decreased TSH:** Graves' disease, Autonomous thyroid hormone secretion, TSH deficiency

Thyroid malfunction (hyper or hypo) affects T3 & T4 levels. Pituitary or hypothalamic issues also influence thyroid activity.

1. **Primary Hypothyroidism:** High TSH levels.
2. **Secondary/Tertiary Hypothyroidism:** Low TSH levels.
3. **Euthyroid Sick Syndrome:** Abnormal thyroid test results due to non-thyroidal illnesses (NTI).

TBG levels are stable in healthy individuals but may be altered by pregnancy, estrogens, androgens, steroids, or glucocorticoids, causing inaccurate T3 & T4 readings.

TSH	T4	T3	Interpretation
High	Normal	Normal	Mild (subclinical) hypothyroidism
High	Low	Low Or Normal	Hypothyroidism
Low	Normal	Normal	Mild (subclinical) hyperthyroidism
Low	High Or Normal	High Or Normal	Hyperthyroidism
Low	Low Or Normal	Low Or Normal	Nonthyroidal illness; pituitary (secondary) hypothyroidism
Normal	High	High	Thyroid hormone resistance syndrome (a mutation in the thyroid hormone receptor decreases thyroid hormone function)

\*\*\* End Of Report \*\*\*



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