

TSH, SERUM

uIU/mL

(CLIA)

REFERENCE GROUP	REFERENCE RANGE IN uIU/mL
1-4 days	1.00-39.00
5 days – 5 months	1.70-9.10
5 months – 20 years	0.70 – 6.40

Link with age for Males > 20 years

REFERENCE GROUP	REFERENCE RANGE IN uIU/mL
Males > 20 years	0.35– 5.50

Below mentioned Table to appear only for female patients > 20 years.No value in reference range

Interpretation

REFERENCE GROUP	REFERENCE RANGE in uIU/mL ( As per American Thyroid Association)
Adult Females (> 20 years)	0.35– 5.50
Pregnancy	
1 <sup>st</sup> Trimester	0.10– 2.50
2 <sup>nd</sup> Trimester	0.20 – 3.00
3 <sup>rd</sup> Trimester	0.30 – 3.00

Note: 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.

#### Clinical Use

- Diagnose Hypothyroidism and Hyperthyroidism
- Monitor T4 replacement or T4 suppressive therapy
- Quantify TSH levels in the subnormal range

Increased Levels: Primary hypothyroidism, Subclinical hypothyroidism, TSH dependent Hyperthyroidism

Thyroid hormone resistance

Decreased Levels: Graves disease, Autonomous thyroid hormone secretion, TSH deficiency