



Labsmart Software

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+91 12345 67890

yourlabname@gmail.com

<https://www.yourlabname.in/>**Mr. Saubhik Bhaumik**

Age / Sex : 27 YRS / M
Referred by : Dr. Sachin Patil (MBBS)
Reg. no. : 1063



1063

Registered on : 12/11/2024 04:10 PM
Collected on : 12/11/2024
Received on : 12/11/2024
Reported on : 12/11/2024 04:10 PM

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**BIOCHEMISTRY**

TEST	VALUE	UNIT	REFERENCE
THYROGLOBULIN (TG)	39	ng/mL	< 55 ng/mL

Physiologic Basis

Tg is a large protein specific to the thyroid gland from which thyroxine is synthesized and cleaved. Highly sensitive immunometric assays for Tg are available. Tg autoantibodies can interfere with the measurement of Tg.

Interpretation

Increased in: Hyperthyroidism, subacute thyroiditis, untreated thyroid carcinomas (except medullary carcinoma): follicular cancer (sensitivity 72%, specificity 81%), Hürthle cell cancer (sensitivity 56%, specificity 84%).

Decreased in: Factitious hyperthyroidism, presence of thyroglobulin autoantibodies, after (> 25 days) total thyroidectomy.

Comments

Follow-up of patients with differentiated thyroid cancers who are apparently disease-free after surgery and radioiodine therapy involves periodic measurement of serum Tg. Patients with detectable serum Tg during thyroid-stimulating hormone (TSH) suppression by thyroxine therapy or Tg that rises higher than 2 ng/mL after TSH stimulation are highly likely to harbor residual tumors. Undetectable serum Tg during TSH suppressive therapy does not exclude persistent disease. Therefore, serum Tg should be measured after TSH stimulation achieved either by thyroxine withdrawal or by administration of recombinant human TSH (rhTSH). Results are equivalent in detecting recurrent thyroid cancer, but use of rhTSH helps to prevent symptomatic hypothyroidism.

Follow-up based on serial measurements of basal (ie, unstimulated) Tg may be superior to the single Tg measurement after TSH stimulation. Tg is typically measured together with Tg antibody. In patients with positive Tg Ab, the Tg level should be interpreted with caution.

~~~ End of report ~~~

Mr. Sachin Sharma  
DMLT, Lab Incharge

Dr. A. K. Asthana  
MBBS, MD Pathologist

**NOT VALID FOR MEDICO LEGAL PURPOSE**

Work timings: Monday to Sunday, 8 am to 8 pm

Please correlate clinically. Although the test results are checked thoroughly, in case of any unexpected test results which could be due to machine error or typing error or any other reason please contact the lab immediately for a free evaluation.