



Patient Name: Mr. demo

Report ID: 7

Sex / Age: **Male** / 25

Sampling Date: 11/6/2024

Referred By: Dr. Syed Shaikh

Report Date: **11/6/2024**

Test Name	Result	Reference Range	Unit
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BIOCHEMISTRY

Anti (TPO)Anti Microsomal / Thyroperoxidase Antibody

15

IU/mL

CLINICAL INFORMATION: Thyroperoxidase (TPO) is an enzyme involved in thyroid hormone synthesis, catalyzing the oxidation of iodide on tyrosine residues in thyroglobulin for the synthesis of triiodothyronine and thyroxine (tetraiodothyronine). Anti-TPO antibodies activate complement and are thought to be significantly involved in thyroid dysfunction and the pathogenesis of hypothyroidism. Values above 60 IU/mL generally are associated with autoimmune thyroiditis, but elevations are also seen in other autoimmune diseases. In patients with subclinical hypothyroidism, the presence of thyroperoxidase (TPO) antibodies predicts a higher risk of developing overt hypothyroidism, it raises the concern that such patients may be at increased risk of developing other auto immune diseases, such as adrenal insufficiency and type 1 diabetes. Moderately increased levels of thyroperoxidase (TPO) antibodies may be found in patients with non-thyroid autoimmune disease such as pernicious anemia, type 1 diabetes, or other disorders that activate the immune system.

End of the Report

P. Schreyer

P. J. Murphy

Doctor

Lab Technician

