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NAME : Mrs. ARSHJOT KAUR  
AGE/ GENDER : 42 YRS/FEMALE  
COLLECTED BY :  
REFERRED BY :  
BARCODE NO. : 01514149  
CLIENT CODE. : KOS DIAGNOSTIC LAB  
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT

PATIENT ID : 1566116  
REG. NO./LAB NO. : 012407310009  
REGISTRATION DATE : 31/Jul/2024 08:00 AM  
COLLECTION DATE : 31/Jul/2024 09:59AM  
REPORTING DATE : 31/Jul/2024 10:59AM

Test Name	Value	Unit	Biological Reference interval
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## IMMUNOPATHOLOGY/SEROLOGY

### ANTI THYROID PEROXIDASE (TPO/AMA) ANTIBODIES

ANTI TPO/AMA ANTIBODIES: SERUM by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)	56.84 <sup>H</sup>	IU/mL	0.00 - 10.0 DIABETES (II): < 25.0
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#### INTERPRETATION:

- 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).
- TPO is a membrane-associated hemo glycoprotein expressed only in thyrocytes and is one of the most important thyroid gland antigens.
- Anti-TPO is technically superior and a more specific method for measuring thyroid auto-antibodies, It is especially useful in patients presenting with subclinical hypothyroidism where TSH is elevated but Free T4 levels are normal.

#### INCREASED LEVELS (Autoimmune thyroid disease):

- Hashimoto thyroiditis.
- Idiopathic myxedema.
- Graves disease
- Post-partum thyroiditis.
- Primary hypothyroidism due to Hashimoto thyroiditis.

#### NOTE:

- The highest TPO antibody levels are observed in patients suffering from Hashimoto thyroiditis. In this disease, the prevalence of TPO antibodies is about 90% of cases, confirming the autoimmune origin of the disease.
- These auto-antibodies also frequently occur (60%-80%) in the course of Graves disease.
- In patients with subclinical hypothyroidism, the presence of TPO antibodies is associated with an increased risk of developing overt hypothyroidism.

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



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