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PATIENT NAME:- MALLIKA MUKHERJEE

AGE:- 27 YRS

**GENDER:- FEMAL** 

REF BY DR: - M.O. BANK OF BARODA.

DATE:- 11.09.2021

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♦ P-R :- YVVY

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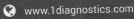
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Dr. SUNIL GUPTA M B B S MD (Medicine) Reg No WBMC 48372 Visit No

8697890000

customercare@1diagnostics.com

Ref







MALLIKA MUKHERJEE **Vame** 

Referred By : Dr.BANK OF BARODA

: KO211109455

Centre

Client Add: 50 SB Gorai Road, Asansol Gender/ Sex : Female / 27 Year(s)

Client Name: Anubikshan Diagnostic Registered On : 11/09/2021 11:20 PM : 11/09/2021 11:20 PM

Collected On : 12/09/2021 12:31 AM Reported On

: P21738972 Patient ID



|   | IMMUNOLOGY     |             |                 |
|---|----------------|-------------|-----------------|
| Test  | Results        | Units       | Reference Range |
| Thyroid Panel I - Serum                             |                |             |                 |
| Chemiluminescence Tri-lodothyronine Total (TT3)     | 1.02           | ng/mL       | 0.8-2.0         |
| Thyroxine - Total (TT4)                             | 9.83           | µg/dL       | 4.82-15.65      |
| Thyroid Stimulating Hormone-3rd                     | 2.78           | μIU/mL      | 0.38-5.33       |
| Generation TSH                                      |                |             |                 |
| to the tracks and non-pre                           | gnant females. | 0.38 - 5.33 |                 |
| General Population (males and non-pregnant females. |                | 0.05 - 3.70 |                 |
| Pregnant Females, 1st Trimester                     |                | 0.31 - 4.35 |                 |
| Pregnant Females, 2nd Trimester                     |                |             |                 |
| Pregnant Females, 3rd Trimester                     |                | 0.41 - 5.18 | I - L - minimum |

Pregnant Females, 3rd Trimester TSH levels are subject to circadian variation, reaching peak levels between 2am-4am and at a minimum between 6-10pm. The variation is of the order 50%. Hence time of the day has influence on the measured serum TSH concentration.

TSH is synthesized and secreted by the anterior pituitary in response to a negative feedback mechanism involving concentrations of FT3 ( Free T3) and FT4 ( Free T4). Additionally, the hypothalamic tripeptide, thyrotropin - releasing hormone (TSH), directly stimulates TSH production. The ability of quantitate circulating levels of TSH is important in evaluating thyroid function. It is especially useful in the differential diagnosis of primary (thyroid) from secondary (pituitary) and tertiary (hypothalamic) hypothyroidism. In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hypothyroidism ,TSH levels are low. TSH stimulation differentiates secondary and tertiary hypothyroidism by observing the change in patient TSH levels. Typically , the TSH response to TSH stimulation is absent in cases of secondary hypothyroidism and normal to exaggerated in tertiary hypothyroidism. Historically ,TSH stimulation has been used to confirm primary hypothyroidism, indicated by elevated T3 and T4 levels and low or undetectable TSH levels . TSH assays with increased sensitivity and specificity provide a primary diagnostic tool to differentiate hyperthyroid from euthyroid patients.

Kindly correlate clinically. If necessary discuss/repeat. This is an electronically authenticated report

-- End of Report --

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