

**ADVANCE DIAGNOSTICS CENTRE**

C1-C2/17A, NEAR NIHARIKA TALKIES

KORBA- 495677

PH-09228333 MOBILE-9300888178

NAME : MRS SAROJ SINGH

45 Years / Female

Reg No. : 19225

Ref. By : . SELF

Reg. Date : 05/08/2022 09:15AM

Address :

Collected At : MedZone Center

INVESTIGATION REPORT**CLINICAL BIOCHEMISTRY**

<u>TEST</u>	<u>RESULT</u>	<u>UNIT</u>	<u>BIOLOGICAL REF RANGE</u>	<u>TEST METHOD</u>
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Glycosylated Hemoglobin (GHb/HbA1c)

Sample Type : WB - EDTA

Glycosylated Hemoglobin (GHb/HbA1c)	: 4.7	%	4.8 - 6.0 : Non Diabetic	Biorad D10 HPLC
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6.0 - 7.0 : Good Control

7.0 - 8.0 : Weak Control

More than 8 : Poor Control

Glycosylated hemoglobin (*hemoglobin A1c*, *HbA1c*, *A1C*, or *Hb1c*; sometimes also *HbA1c*) is a form of hemoglobin used primarily to identify the average plasma glucose concentration over prolonged periods of time. It is formed in a non-enzymatic pathway by hemoglobin's normal exposure to high plasma levels of glucose. Glycation of hemoglobin has been associated with cardiovascular disease, nephropathy and retinopathy in diabetes mellitus. Monitoring the HbA1c in type-1 diabetic patients may improve treatment. HbA1c is a weighted average of blood glucose levels during the preceding 120 days, which is the average life span of red blood cells. A large change in mean blood glucose can increase HbA1c levels within 1-2 weeks. Sudden changes in HbA1c may occur because recent changes in blood glucose levels contribute relatively more to the final HbA1c levels than earlier events. For instance, mean blood glucose levels in the 30 days immediately preceding blood sampling contribute 50% to the HbA1c level, whereas glucose levels in the preceding 90-120 day period contribute only 10%. Thus, it does not take 120 days to detect a clinically meaningful change in HbA1c following a significant change in mean plasma glucose level.

METHOD: Ion Exchange Chromatography High performance liquid chromatography(HPLC)

INSTRUMENT: D -10 Bio-Rad Laboratories;FRANCE

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INVESTIGATION REPORT**CLINICAL BIOCHEMISTRY**

TEST	RESULT	UNIT	BIOLOGICAL REF RANGE	TEST METHOD
Thyroid Profile				
Sample Type	: SERUM			
Tri Iodothyronine (T3)	: 1.69	ng/mL	0.6-2.7 : 1 - 10 Years 0.6-1.81 : Adults Pregnancy 0.9 - 3.0 : 1st Trimester 0.9 - 3.6 : 2nd & 3rdTr	ECL
Total Thyroxine (T4)	: 13.44	µg/dL	7.8 - 16.5 : 1 - 12 Months 4.6 - 11.6 : Adults 9.1 - 14.0 : Pregnancy (15 - 40 Weeks)	ECL
Thyroid Stimulating Hormone (TSH)	: <0.005	µIU/mL	0.52 - 16.0 : 1 - 30 Days 0.46 - 8.10 : 1 Mn - 5 Yrs 0.37 - 4.8 : Adults Cord blood : 2.3 - 13.2	ECL

Three common ways in which there may be inadequate amounts of the thyroid hormone for normal metabolism. **1.** Primary hypothyroidism, in which there is a raised TSH and a low T4 and low T3. This is due to failure of the thyroid gland, possibly due to autoantibody disease, possibly due to toxic stress or possibly due to iodine deficiency. **2.** The second, the most common cause of thyroid failure, occurs at the pituitary level. In this condition there is inadequate thyroid stimulating hormone (TSH) produced from the pituitary and so one tends to see low or normal TSH, low T4s and variable T3s. This condition is most common in many patients with chronic fatigue syndrome, where there is a general suppression of the hypothalamic-pituitary-adrenal axis. **3.** The third type of under-functioning is due to poor conversion of T4 to T3. This requires enzymes and co-factors, in particular selenium, zinc and iron. In this condition there are normal or possibly slightly raised levels of TSH, normal levels of T4 but low levels of T3. This requires micronutrients and also T3 to correct.

Therefore, in any patient suspecting of thyroid problem routinely TSH, a Free T4 and a Free T3 are also advisable. Any patients who are taking T3 as part of their thyroid supplement need to have their T3 levels monitored as well as T4. T3 is much more quickly metabolized than T4 and blood tests should be done between 4-6 hours after their morning dose.

METHOD: One-step sandwich and competitive FEIA

INSTRUMENT: TOSHO AIA-360 JAPAN

--- End Of Report ---

Sample Registered On : 05/08/2022 09:15AM

Sample Received On : 05/08/2022 09:18AM

Report Released On : 05/08/2022 03:52PM

Sample Barcode : 

Checked By: duwash

**Dr. VANDANA CHANDANI**