DIAGNOSTIC REPORT

Patient Ref. No. 24000001381364

Cert. No. MC-2015

CLIENT CODE : C000096053

CLIENT'S NAME AND ADDRESS :
JAY SHREE PATIENT CARE CENTRE
SHOP NO.24, SHAMINA MARKET, OPPOSITE K.G.M.C., NEW OPD BUILDING CHOWK,

LUCKNOW 226003
UTTAR PRADESH INDIA
9956588890 8090988890

SRL Ltd
SRL,REFERENCE LAB, GP-26, MARUTI INDUSTRIAL ESTATE,UDYOG VIHAR,SECTOR-18,
GURGAON, 122015
HARYANA, INDIA
Tel : 9111591115, Fax : CIN - U74899PB1995PLC045956

PATIENT NAME : JUNIOR ANAND GUPTA PATIENT ID : **JUNIM807298700**

ACCESSION NO : **0024UJ006122** AGE : 47 Years SEX : Male

DRAWN : 14/10/2021 12:00 RECEIVED : 14/10/2021 13:48 REPORTED : 16/10/2021 19:55

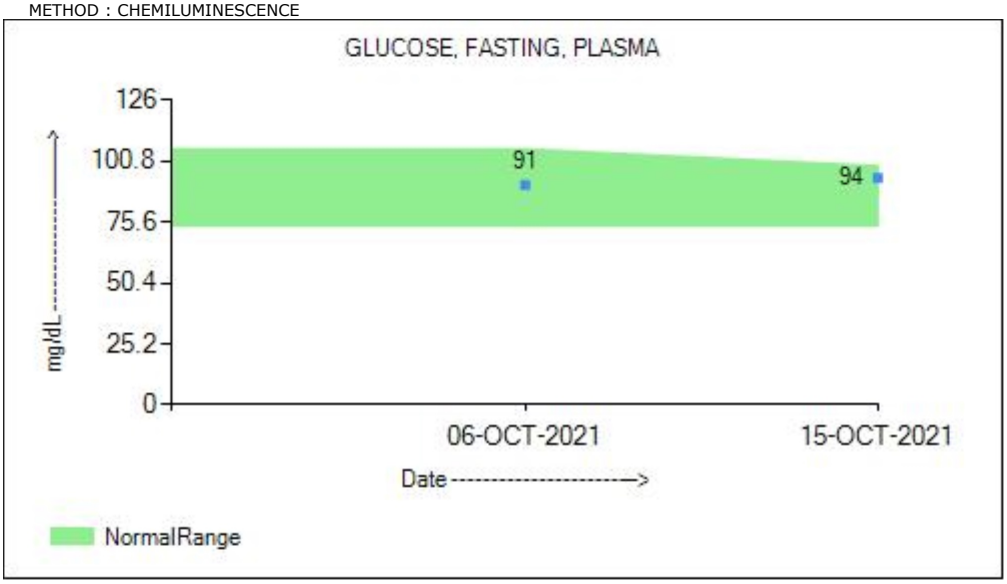
REFERRING DOCTOR : SELF CLIENT PATIENT ID :

Test Report Status **Final**	Results	Biological Reference Interval	Units

BIO CHEMISTRY

HOMEOSTATIC MODEL ASSESSMENT (HOMA) 2, SERUM

*% BETA CELL FUNCTION	53.2	Not Established	%
*% INSULIN SENSITIVITY	204.7	Not Established	%
*HOMA IR (INSULIN RESISTANCE)	0.49	< 1.8	
GLUCOSE, FASTING, PLASMA	94	74 - 99	mg/dL
METHOD : SPECTROPHOTOMETRY, HEXOKINASE			
INSULIN	3.69	Fasting: 3.0 – 25.0	mU/L
METHOD : CHEMILUMINESCENCE			



Interpretation(s)
HOMEOSTATIC MODEL ASSESSMENT (HOMA) 2, SERUM-Homeostatic model assessment (HOMA) 2 - IR

Homeostatic model assessment (HOMA) is a method for assessing beta-cell function and insulin resistance (IR) from fasting glucose and insulin levels. The relationship between glucose and insulin in the basal state reflects the balance between hepatic glucose output and insulin secretion, which is maintained by a feedback loop between the liver and beta-cells. The computer model can be used to determine insulin sensitivity and beta-cell function from paired fasting plasma glucose and specific insulin concentrations across a range of 2.9-43.8 mU/L for insulin and 54.1-450.5 mg/dl for glucose. HOMA2 model accounts of variations in hepatic and peripheral glucose resistance, increases in the insulin secretion curve for plasma glucose concentrations above 10 mmol/L (180 mg/dL) and the contribution of circulating proinsulin

HOMA model correlates well with estimates using the euglycemic clamp method. It can be used to track changes in insulin sensitivity and beta-cell function longitudinally in individuals. The model can also be used to indicate whether reduced insulin sensitivity or beta-cell failure predominates. Few research studies have indicated that mortality rate correlates with the HOMA2-IR index in patients with acute myocardial infarction. Moreover, patients with elevated IR have a higher incidence of previous metabolic and

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cardiovascular events. Therefore, IR may play a short-term prognostic role in patients with AMI. HOMA-IR is a useful predictor of treatment response in type 2 diabetic patients.
Homa 2 index = 1.8 is considered as insulin resistance

Limitations:

Either HOMA %S or HOMA %B values should not be referred in isolation.

The insulin-glucose HOMA model cannot be used to assess beta-cell function in those taking exogenous insulin.

****End Of Report****

Please visit www.srlworld.com for related Test Information for this accession

Dr. Anurag Bansal
LAB DIRECTOR

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1. It is presumed that the test sample belongs to the patient named or identified in the test requisition form.
2. All Tests are performed and reported as per the turnaround time stated in the SRL Directory of services (DOS).
3. SRL confirms that all tests have been performed or assayed with highest quality standards, clinical safety & technical integrity.
4. A requested test might not be performed if:
   a. Specimen received is insufficient or inappropriate specimen quality is unsatisfactory
   b. Incorrect specimen type
   c. Request for testing is withdrawn by the ordering doctor or patient
   d. There is a discrepancy between the label on the specimen container and the name on the test requisition form
5. The results of a laboratory test are dependent on the quality of the sample as well as the assay technology.
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SRL Limited
Fortis Hospital, Sector 62, Phase VIII,
Mohali 160062

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