Comprehensive Diagnostic Report

• Patient Name: Mr. Arjun Verma

 Age/Gender: 42 / Male Patient ID: 011224XX

• Sample Type: EDTA Blood / Serum / Plasma / Urine

• Collection Date: 12-Jul-2025

• Referring Physician: Dr. Maya Rao • Lab Name: NovaPath Diagnostics



🔬 Haematology, Lipids, and Glucose Panel



Haematology

Test	Result	Ref. Range
Haemoglobin	10.2 g/dL ▼	13.0 – 16.5 g/dL
RBC Count	4.79 million/cmm	4.5 – 5.5 million/cmm
WBC Count	10,570 /cmm 🔺	4,000 – 10,000 /cmm
Platelet Count	150,000 /cmm	150,000 – 410,000 /cmm
MPV	14.0 fL 🔺	7.5 – 10.3 fL
ESR	7 mm/hr	0 – 14 mm/hr

Test	Result	Ref. Range
Total Cholesterol	248 mg/dL 🔺	<200 mg/dL
Triglycerides	168 mg/dL 🔺	<150 mg/dL
LDL	170 mg/dL 🔺	<100 mg/dL
HDL	35 mg/dL ▼	>40 mg/dL
VLDL	33.6 mg/dL	15 – 35 mg/dL
LDL/HDL Ratio	4.9 🔺	<3.5
CHOL/HDL Ratio	3.1	Up to 5.0

📤 Glucose Profile

Test	Result	Ref. Range
Fasting Glucose	141 mg/dL 🔺	74 – 106 mg/dL
HbA1c	7.1% 🔺	<6.5%
Mean Blood Glucose	157.07 mg/dL	

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Thyroid, Nutrition, Immunology, Urine Analysis

Thyroid Function

Test	Result	Ref. Range
Т3	1.01 ng/mL	0.58 – 1.59 ng/mL
T4	7.84 mg/mL	4.87 – 11.72 mg/mL
TSH	0.82 μIU/mL	0.35 – 4.94 μIU/mL

Nutritional Assessment

Test	Result	Ref. Range
Vitamin D (25-OH)	8.98 ng/mL ▼	30 – 100 ng/mL
Vitamin B12	<148 pg/mL ▼	187 – 833 pg/mL
Iron	103 μg/dL	49 – 181 μg/dL
TIBC	352 μg/dL	261 – 462 μg/dL
Transferrin Saturation	29.26%	20 – 50%

🥓 Immunoassay Panel

	Test	Result	Ref. Range
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Homocysteine	23.86 μmol/L 🔺	6.0 – 14.8 μmol/L
Ige Total	492 IU/mL ▲	0 – 87 IU/mL
PSA	0.573 ng/mL	0 – 4 ng/mL

Urinalysis

Parameter	Result	Ref. Range
Appearance	Pale yellow, clear	Normal
рН	6.0	4.6 – 8.0
Specific Gravity	1.030	1.005 – 1.030
Protein, Glucose, Ketones	Absent	Absent
RBC / Pus Cells	Nil / 1-2	Nil / Nil
Casts/Crystals	Absent	Absent

Summary Interpretation

The report indicates:

- Anaemia (low haemoglobin, B12 deficiency)
- Dyslipidemia (elevated cholesterol and LDL, low HDL)
- Uncontrolled diabetes (elevated fasting glucose and HbA1c)

•	Vitamin D deficiency and high homocysteine—suggesting increased cardiovascular risk
•	Elevated Ige pointing to allergy susceptibility

P Clinical Note: Immediate follow-up recommended for glycemic control, lipid management, and nutritional support. Consider consults for endocrinology and cardiology.