

Patient Name : Demo Patient Name
Age / Sex : 33 Y / F
Referred By : DEMO HOSPITAL
Centre : HOD Head Office

Lab No : Demo Visit No
Registration On : 21-Jan-25 10:56
Patient ID : UHID.DEMO.001

Homocysteine

Serum Sample

Accession No: DEMO_BARCODE Collected On: 21-Jan-25 10:56 Received On: 21-Jan-25 15:29 Approved On: 21-Jan-25 18:02

Observation	Result	Unit	Biological Ref. Interval	Method
Homocysteine	14.56	µmol/L	4.7-12.6	Enzymatic - Lactate to pyruvate Enzyme LDH

Clinical Significance of Homocysteine:

Plasma total homocysteine (HCY) is a graded risk factor for cardiovascular disease. The risk increases progressively with homocysteine concentration. Elevated plasma Homocysteine level is a predictor for cardiovascular disease. A dose-dependent effect was noted between Homocysteine level and risk. Homocysteine level also have been found to correlate to the extent of atherosclerotic plaque in the aorta. Homocysteine can impair the ability to repair vascular endothelial cell injury, and thus promote the development of atherosclerosis

Clinical Utility of Homocysteine:

- * Determine risk for heart disease, stroke and peripheral arterial blood vessel disease.
- * Identify vitamin B12 deficiency or folic acid deficiency.
- * Identify homocystinuria that causes a deficiency of one of several enzymes needed to convert food to energy.
- * Determine a cause for otherwise unexplained blood clots.
- * High values of homocysteine may be caused by dietary deficiency of folic acid, vitamin B6, or vitamin B1, homocystinuria, renal disease, hypothyroidism, Alzheimer's disease or certain cancers, alcoholism, family history of high homocysteine levels.
- * Low values may be caused by some medicines or vitamins such as folic acid, vitamin B12, or niacin. False positive or negative results may be seen in peri-menopausal period, hypertension, smoking or tobacco use, excess coffee intake, drugs (anti-convulsants, antibiotics, theophylline, birth control pills, and tamoxifen).

Sample Type: Serum

Technology: VITROS MicroTip, MicroSensor and Intellicheck Technology

Analyzer: Fully Automated Integrated Biochemistry and Immunology Analyzer: VITROS 5600

Remarks: Please correlate results with clinical conditions.



This is a Demo Signature
and the doctor's signature should appear here

In case of any unexpected or alarming results, please contact us immediately for re-confirmation, clarifications, and rectifications, if needed.

