Dr. Vinay Chopra
MD (Pathology & Microbiology)
Chairman & Consultant Pathologist

Dr. Yugam Chopra
MD (Pathology)
CEO & Consultant Pathologist

NAME	**: Mr. HEMANT MANCHANDA**		
AGE/ GENDER	: 34 YRS/MALE	**PATIENT ID**	: 1782525
COLLECTED BY	:	**REG. NO./LAB NO.**	**: 012503170014**
REFERRED BY	:	**REGISTRATION DATE**	: 17/Mar/2025 08:28 AM
BARCODE NO.	: 01527237	**COLLECTION DATE**	: 17/Mar/2025 08:30AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	**REPORTING DATE**	: 18/Mar/2025 07:51PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name	Value	Unit	Biological Reference interval

CLINICAL PATHOLOGY

COPPER: 24 HOURS URINE

COPPER - 24 HOURS URINE *by ICPMS (INDUCTIVELY COUPLED PLASMA MASS SPECTROPHOTOMETRY)*	**203^{H}**	µg/day	15 - 70

INTERPRETATION:

1.Inductively Coupled Plasma Mass Spectrometry (ICPMS) is used to determine the level of heavy / trace metals in biological tissues
2.There is a diurnal variation with highest levels in the morning

COMMENTS:

Copper is the third most abundant trace element in the human body required for enzymatic reactions. Dietary sources of copper are liver, shell fish, chocolate, nuts and seeds. Copper pipes or vessels do not increase the copper content of water unless exposed to acids. Smoking, strenuous exercise, infections and injuries increase the body's need for copper. Ceruloplasmin, a copper containing protein is a useful indicator of copper status.

DECREASED LEVELS:

1.Wilson's disease (stage of the disease)
2.Malnutrition,
3.Excessive consumption of zinc
4.GI disease (Sprue & Celiac disease)
5.Menke's syndrome
6.Burns
7.Chronic Ischemic heart disease

INCREASED LEVELS:

1.Wilson's disease (stage of the disease)
2.Infections
3.Biliary cirrhosis
4.Leukemia
5.Typhoid
6.Hodgkins disease
7.Thalassemia major
8.Anemia
9.Collagen diseases
10.Spondyloarthropathies.

*** End Of Report ***

DR.VINAY CHOPRA
CONSULTANT PATHOLOGIST
MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA
CONSULTANT PATHOLOGIST
MBBS , MD (PATHOLOGY)