

Patient Name	:		Bill Date	:	
DOB/Age/Gender	:		Sample Collected	:	
Patient ID / UHID	:		Sample Received	:	
Referred By	:		Report Date	:	
Sample Type	:		Report Status	:	
Barcode No	:				

Test Description	Value(s)	Unit(s)	Reference Range
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### BIOCHEMISTRY REPORT

#### Nor Metanephrine, 24 Hrs Urine

Nor-Metanephrine in urine	223	µg/L	
Urine volume in 24 hours	<b>2500</b>	mL/day	800.00 - 1400.00
Nor-Metanephrine,urine 24 hrs	557.5	µg/24 hrs	<600
Nor-Metanephrines Creatinine Ratio	<b>455.1</b>	ug/g	86-236

#### Interpretation:

- Metanephrines & Normetanephrines are metabolites of catecholamines(epinephrine & norepinephrine). Catecholamine are important hormones in blood pressure regulation & produced mainly by the adrenal medulla & sympathetic ganglia. They are released in small fluctuating quantities in both the blood and urine.
- Smaller increases in metanephrine and/or normetanephrine concentrations (less than two times the upper reference limit) usually are the result of physiological stimuli, drugs, or prolonged systemic illness, ingestion of coffee ,tobacco,tea, alcohol, drugs like acetoaminophen. Essential hypertension is often associated with slight elevations (metanephrine less than 700 µg/d and normetanephrine less than 900 µg/d).
- Significant elevation of one or both metanephrines (three or more times the upper reference limit) is associated with an increased probability of a neuroendocrine tumor(phaeochromocytoma, neuroblastoma).
- Ratios to creatinine are useful for correct evaluations, especially in the following conditions- like paediatric or elderly patients with a random or a timed collection of less than 20 hours or a collection with total urine volume less than 400 mL. The ratios have also been shown to have better specificity & positive predictive value over 24 hr metanephrine/normetanephrine excretion values.

#### Reference :

- Tiggs Deboch etal, Indexing of Urinary Catecholamines and Metanephrines by Urinary Creatinine levels in the diagnosis of Phaeochromocytoma; Trends in Medical Research 1 (2): 113 – 121, 2006;
- Eric Pussard etal , Reference intervals for urinary catecholamines and metabolites from birth to adulthood , Clinical Biochemistry 42 (2009) 536 – 539.



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