

**HOMOVANILLIC ACID (HVA),  
RANDOM URINE  
( HPLC)**

HVA

mg/g creatinine

<b>ANALYTE</b>	<b>AGE IN YEARS</b>	<b>REFERENCE RANGE IN mg/g creatinine</b>
Urine HVA	0 -2	<32.6
	>2-5	<22
	>5-10	<15.1
	>10-19	<12.8
	>19	<7.6

**Comment**

Homovanillic acid (HVA) and other catecholamine metabolites like VMA & Dopamine are elevated in patients with catecholamine secreting tumors like Pheochromocytoma, Neuroblastoma & other Neural crest tumors. Certain enzyme deficiencies also alter HVA levels : Monoamine oxidase- A deficiency decreases urinary HVA levels while Dopamine beta hydrolase deficiency increases urinary HVA levels.

**Uses**

- HVA along with VMA is a useful screening test for catecholamine secreting tumors
- Monitoring Neuroblastoma treatment
- Evaluating patients with possible Inborn errors of catecholamine metabolism