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**TEST PATIENT**

GUa d'Y'HYgh'BUa Y  
 Sex : :  
 DUHy Collected : 00-00-0000  
 111 H9GH'ROAD TEST SUBURB  
**@AB =8: 0000000** UR#:0000000

**TEST PHYSICIAN**

DR JOHN DOE  
 111 CLINIC STF 99H  
 7@B=7'GI 6I F 6'J =7'' \$\$\$

**BIOCHEMISTRY**

BLOOD - SERUM

**25 OH VITAMIN D**

**Vitamin D Comment**

Result **67** Range 50 - 250 Units nmol/L



The Working Group of the Australian and New Zealand Bone and Mineral Society, Endocrine Society of Australia and Osteoporosis Australia have recommended that the Vitamin D level should be greater than 50 nmol/L.

BLOOD - PLASMA

**HOMOCYSTEINE**

Result **8.0** Range 6.0 - 15.0 Units umol/L



**INTEGRATIVE MEDICINE**

BLOOD - SERUM

**Free Copper Index**

**COPPER**

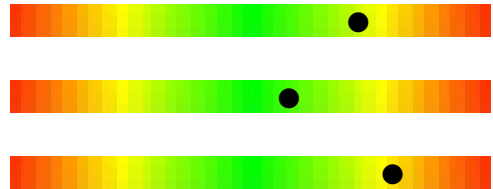
**Copper ug/dl**

**CAERULOPLASMIN**

**CPLS-bound Cu**

**% Free Copper**

Result **20.6** Range 11.0 - 22.0 Units umol/L  
 Result **131.2** Range 11.0 - 22.0 Units ug/dL  
 Result **0.33** Range 0.18 - 0.40 Units g/L  
 Result **100**  
 Result **24** Range 5 - 25 Units %



**Integrative Medicine Comments**

Plasma Copper Reference Ranges (Additional):  
 Female on Contraceptives: 20.8 - 34.8 umol/L  
**ELEVATED Cu/Zn RATIO:**

The ratio of copper to zinc is clinically more important than the individual levels of each analyte.

Elevated copper/zinc ratios can be particularly serious for persons with low blood histamine (over methylation). This combination of imbalances has been associated with anxiety, panic disorders, paranoia and hallucinations.

**LOW CAERULOPLASMIN LEVEL:**

Low Caeruloplasmin levels are associated with conditions such as Autism, Alzheimer's disease, Parkinson's disease

**Treatment Considerations:**

Assess copper status and treat accordingly. Investigate and treat oxidative stress (e.g. CoQ10, acai berry, glutathione)

BLOOD - Li HEPA

**HISTAMINE**

**Histamine Comment**

Result **45.0** Range 28.0 - 51.0 Units ug/L  
 Histamine level is within range.



BLOOD - NA HEP

**ZINC**

**Copper/Zinc Ratio**

Result **18.2** Range 9.0 - 19.0 Units umol/L  
 Result **1.13 \*H** Range 0.80 - 1.00 RATIO



Tests ordered: HIAM,ZN,HOMO,IMPEI,VITD,CFee,Cu/Zn,FCuInd

(\*) Result outside normal reference range (H) Result is above upper limit of reference rang