



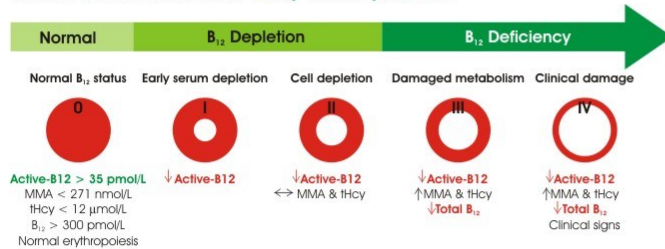
## Active Vitamin B12 (Holotranscobalamin), Serum

### The Next Level of Vitamin B12 Testing

#### Clinical Utility:

- Only around 20% of circulating B12 is biologically active as holotranscobalamin (HoloTC)
- Acts as the earliest marker of negative vitamin B12 balance

#### Active-B12 levels react early in the process



#### Advantages of HoloTC- Active B12 over Total Vitamin B12 :

- HoloTC can be used as the first- line diagnostic procedure for vitamin B12 status. (Valente E et al. Clinical Chemistry 57:6 856- 863, 2011)
- Clinical studies that compare the ability of HoloTC and vitamin B-12 to identify individuals with vitamin B-12 deficiency suggest that HoloTC performs better than total vitamin B-12. (Nexo E et al. Am J Clin Nutr doi: 10.3945/ajcn. 111.013458)
- HoloTC also resolves indeterminate vitamin B12 results in individuals with total B12 levels falling within the gray zone\*

\* (There is an indeterminate zone between approximately 150 – 300 pmol/L total vitamin B12 where there is likely to be misclassification of B12 status if relying on total serum B12 alone)



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