



Vitamin Deficiencies



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Our Solution towards Vitamin Deficiencies

One of the most critical properties of modern dietary supplements is easy absorption, also referred to as bio-availability. Without a good absorption the efficacy is strongly reduced.

Conventional Method

Many active ingredients are either fat soluble or insoluble, and, as a consequence, poorly bio-available. They need to be "pre-processed" in the stomach and the small intestine. Large amount of concentrates were marketed in order to guarantee absorption but in many cases, only a small proportion of the active arrives in the system; rest are excreted without exerting any effect.

X-Lab Nano Solution

In order to rectify problems associated with bioavailability, we used our latest technology, Nano which has the ability to change previously fat-soluble vitamins like A, D, E, K to water soluble properties. Particle size has also been readjusted to Nano scale which result in immediate adsorption to the body, hence 100% bioavailability.

Cost would be greatly reduced as large quantity is no longer required to ensure minimum absorption.





Example

Shocking Vitamin D deficiency statistics:

- 32% of doctors and med school students are vitamin D deficient.
- 40% of the U.S. population is vitamin D deficient.
- 42% of African American women of childbearing age are deficient in vitamin D.
 - 48% of young girls (9-11 years old) are vitamin D deficient.
 - Up to 60% of all hospital patients are vitamin D deficient.
 - 76% of pregnant mothers are severely vitamin D deficient, causing widespread vitamin D deficiencies in their unborn children, which predispose them to type 1 diabetes, arthritis, multiple sclerosis and schizophrenia later in life. 81% of the children born to these mothers were deficient.
 - Up to 80% of nursing home patients are vitamin D deficient.



Diseases and conditions cause by vitamin D deficiency:

- *Osteoporosis is commonly caused by a lack of vitamin D, which greatly impairs calcium absorption.*
- *Sufficient vitamin D prevents prostate cancer, breast cancer, ovarian cancer, depression, colon cancer and schizophrenia.*
- *"Rickets" is the name of a bone-wasting disease caused by vitamin D deficiency.*
- *Vitamin D deficiency may exacerbate type 2 diabetes and impair insulin production in the pancreas.*
- *Obesity impairs vitamin D utilization in the body, meaning obese people need twice as much vitamin D.*
- *Vitamin D is used around the world to treat Psoriasis.*
- *Vitamin D deficiency causes schizophrenia.*
- *Seasonal Affective Disorder is caused by a melatonin imbalance initiated by lack of exposure to sunlight.*
- *Chronic vitamin D deficiency is often misdiagnosed as fibromyalgia because its symptoms are so similar: muscle weakness, aches and pains.*
- *Your risk of developing serious diseases like diabetes and cancer is reduced 50% - 80% through simple, sensible exposure to natural sunlight 2-3 times each week.*





- Infants who receive vitamin D supplementation (2000 units daily) have an 80% reduced risk of developing type 1 diabetes over the next twenty years.



Revolutionize The World With Nano Solutions!

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