

# The H Factor

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**"HOMOCYSTEINE-LOWERING TREATMENT [WITH B VITAMINS] SEEMS THE MOST PROMISING INTERVENTION FOR ALZHEIMER'S DISEASE PREVENTION". THESE ARE NOT MY WORDS BUT THE CONCLUSION OF THE LARGEST-EVER REVIEW OF 396 STUDIES ON ALZHEIMER'S PREVENTION [1] THE US NATIONAL INSTITUTES OF HEALTH (NIH) RESEARCH ATTRIBUTES 22% OF THE RISK FOR ALZHEIMER'S TO RAISED HOMOCYSTEINE, LOWERED BY B VITAMINS - SPECIFICALLY B6, B12, AND FOLATE, WHICH IS RICH IN GREENS (THINK FOLIAGE).**

Homocysteine, which is a simple and inexpensive blood test, available from [foodforthebrain.org/tests](http://foodforthebrain.org/tests). If your level is above 11 mcmol/l, this is consistent with accelerated rate of brain shrinkage. 40% of over 60-year-olds in the US have raised homocysteine [2]] This is. This is often a function of poor absorption of B12, which is only found in animal-origin foods – fish, meat, dairy, and eggs. But if your homocysteine is above 10, the recommendation is to supplement not the basic RDA of B12, which is 2mcg, but 500mcg, together with 20mg of B6 and at least 400mcg of folate. There are many homocysteine-lowering supplements that provide these in combination. It might cost you 10 cents a day.

*Watch this [film](#) to understand how homocysteine accumulates and why B vitamins are vital for a process called methylation.*

Homocysteine is not just a risk factor – it is considered causal because lowering it with B vitamins has produced more than a 50% reduction in the rate of brain shrinkage and virtually no further memory decline in those with pre-dementia [3]. The B vitamin treatment actually reduced shrinkage of the Alzheimer's related areas of the brain by almost 9 times in a year, compared to placebo.[4] This reduction in the rate of brain shrinkage goes up to 73% in those with sufficient omega-3 DHA [5], another prevention essential. Why? Because making brain cells requires omega-3 to be bound into the cell membrane, a process dependent on these B vitamins.

Homocysteine isn't just an indicator of insufficient B vitamins. It is also toxic to the brain and the arteries, thus very strongly linked to vascular dementia. Having a raised

homocysteine has been shown to increase the risk of blood vessel damage in the brain by 17 times. [6]

If you give a builder a hammer, do you get a house? No. If you give them a bag of nails, do you get a house? No. However, if you give them both you get a house. B vitamins are the hammer, and omega-3 is the nail. That's why testing your homocysteine level, which your doctor can do, or you can do yourself with home test kit, and supplementing B vitamins if your level is above 10, is one of the most effective and inexpensive prevention steps you can take.

Homocysteine is actually a biomarker for 100 diseases, mainly of the brain. You can read more about homocysteine, not just for Alzheimer's, and other ways to protect your brain in my book [Upgrade Your Brain](#) .

#### References:

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