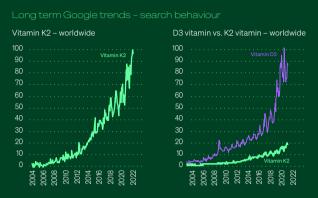
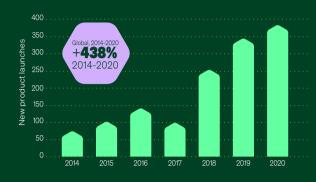
Vitamin K2 and D3 The Perfect Pair

Calcium is the most abundant mineral in the body. Vitamin D3 increases calcium absorption into the bloodstream. Vitamin K2 activates osteocalcin and MGP to put calcium in balance.



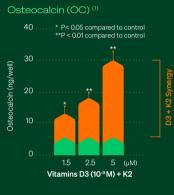
Consumers understand the benefits of D3 and K2 synergy

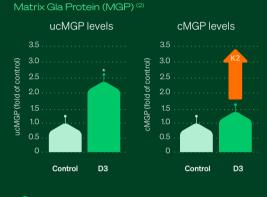




Benefiting from both the personal wellness surge and a broader appreciation of the widespread benefits of vitamin K2 in healthy aging, this category continues its rise in popularity and growth.

D3 + K2 synergy is scientifically proven







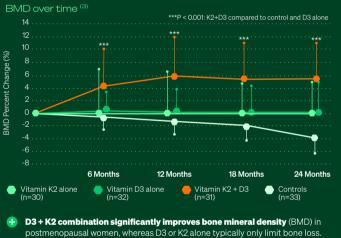
Vitamin K2 enhances D3-mediated osteocalcin accumulation in the extracellular matrix.

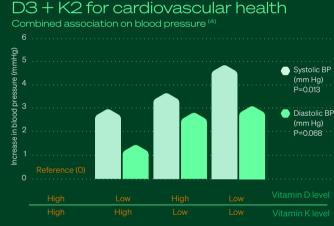
The effect of D3 on MGP confirms demand for K2 to activate MGP. With sufficient amounts of K2, MGP can be carboxylated and effectively bind calcium in the vascular system - decreasing the risk for vascular mineralization.

The Perfert Pair combination for bone and heart health.

and vitamin

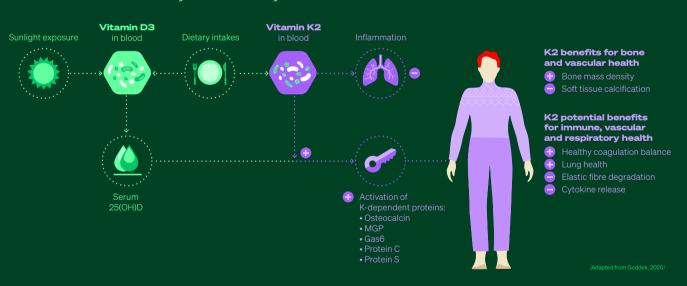
D3 + K2 for bone health





The combination of low vitamin D and K status was associated with increased blood pressure and greater hypertension risk.

D3 + K2 for immunity - summary of their mechanisms of action⁶



(1) Koshihara, Y., & Hoshi, K. (1997), Vitamin K2 enhances osteocalcin accumulation in the extracellular matrix of human osteoblasts in vitro. Journal of Bone and Mineral Research, 12(3), 431-438.
(2) Fu, X., Wang, X. D., Mernitz, H., Wallin, R., Shea, M. K., & Booth, S. L. (2008). 9-Cis Retinoic Acid Reduces 1 a. 25-Dihydroxycholecalciferol-Induced Renal Calcification by Altering Vitamin K-Dependent y-Carboxylation of Matrixy-Carboxyglutamic Acid Protein in A/J Male Mice. The Journal of nutrition,138(12), 2337-2341. https://academic.oup.com/jn/article/138/12/2337/4670156
(3) Ushiroyama, T., Ikeda, A., & Ueki, M. (2000). Effect of continuous combined therapy with vitamin for all vitamin 03 on bone mineral density and coagulofibrinolysis function in postmenopausal women. Maturitas, 41(3), 3 (4) Van Ballegooijen, A. J., et al., (2017). Joint association of low vitamin D and vitamin K status with blood pressure and hypertension, 69(6), 1165-1172.

Key takeaways for you business

Vitamins D3 and K2 work in synergy for improved bone, cardiovascular and immune health

Vitamin D3 supports calcium absorption and initiates the expression of calcium-binding proteins. These calcium-binding proteins are inactive unless sufficient Vitamin K2 is present to carboxylate them. For the global majority, D3 and K2 dietary intakes are insufficient to meet daily requirements.

OING IT RIGHT

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