

A brief note on vitamin K₂

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INTRODUCTION

Recent reports have attributed the potential health advantages of fat-soluble vitamin on the far side it's perform to activate internal organ action factors. Moreover, many studies have steered that menaquinones, conjointly called sustenance Mount Godwin Austen, is also more practical in activating extra-hepatic sustenance K-dependent proteins than ant hemorrhagic factor, conjointly called ant hemorrhagic factor. Not with standing, gift dietary reference values (DRV) for fat-soluble vitamin square measure completely supported ant hemorrhagic factor, and it's perform in action. this review describes the present data on menaquinones supported the subsequent criteria for setting DRV: optimum dietary intake; nutrient quantity needed to forestall deficiency, maintain optimum body stores and/or forestall chronic disease; factors influencing necessities like absorption, metabolism, age and sex. Dietary intake of menaquinones accounts for up to twenty fifth of total fat-soluble vitamin intake and contributes to the biological functions of fat-soluble vitamin. However, menaquinones square measure completely different from antihemorrhagic factor with reference to their chemical structure and material medica, that affects bioavailability, metabolism and maybe impact on health outcomes [1].

Vitamin K is a necessary bioactive compound needed for optimum body perform. Fat-soluble vitamin may be gift in varied isoforms, distinguishable by 2 main structures, namely, ant hemorrhagic factor (K1) and menaquinones (K2). The distinction in structure between K1 and Mount Godwin Austen is seen in several absorption rates, tissue distribution, and bioavailability. Though differing in structure, each act as chemical compound for the protein gamma-glutamylcarboxylase, encompassing each internal organ and extrahepatic activity. Solely carboxylated proteins square measure active and promote a health profile like homeostasis. What is more, sustenance Mount Godwin Austen within the style of MK-7 has been shown to be a bioactive compound in control pathology, induration of the arteries, cancer and inflammatory diseases while not risk of negative aspect effects or overdosing [2].

Vitamin K exists within the food provide as antihemorrhagic factor, a plant-based kind and as menaquinones (MKs), a set of isoprenologues principally originating from microorganism synthesis. though multiple microorganism species used as starter cultures for food fermentations synthesize MK, comparatively very little is understood regarding the presence and distribution of MK within the food provide and therefore the relative contribution of MK to total dietary fat-soluble vitamin intake. Dairy farm merchandise is also a predominant supply of dietary MK in several regions of the globe, and there's recent interest in enhancing the MK content of dairy farm merchandise through identification and choice of MK-producing microorganism in dairy farm fermentations. This interest is augmented by rising proof that current dietary recommendations supported the classic role of fat-soluble vitamin as Associate in Nursing protein chemical compound for action proteins might not be optimum for supporting fat-soluble vitamin necessities in extrahepatic tissues which MK could have distinctive bioactivity on the far side that as Associate in Nursing protein chemical compound. Experimental studies have reportable favorable associations between MK intake and bone and vessel health [3].

REFERENCES

1. Beulens JW, Booth SL, van den Heuvel EG, et al. The role of menaquinones (vitamin K₂) in human health. *British J Nutri.* 2013;110(8):1357-68.
2. Halder M, Petsophonsakul P, Akbulut AC, et al. Vitamin K: double bonds beyond coagulation insights into differences between vitamin K₁ and K₂ in health and disease. *Int J Mol Sci.* 2019;20(4):896.
3. Walther B, Karl JP, Booth SL, et al. Menaquinones, bacteria, and the food supply: the relevance of dairy and fermented food products to vitamin K requirements. *Adv Nutri.* 2013;4(4):463-73.

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