

CAPSTONE PROJECT SAMPLE

Introduction

Vitamin B12 is also referred to as cobalamin and it identifies a water-soluble vitamin utilized within the normal neurological function together with the development of the red blood cells. B12 is also identified as a cofactor within two metabolic pathways as it is utilized within the conversion of homocysteine together with methionine and within the conversion of methylmalonic acid (MMA) to succinyl-CoA (Alemras et al. 2007). The main sources of B12 include animal products such as meat, poultry, fish and milk; fortified foods including breakfast cereal together with B12 supplements. The recommended allowance does not incorporate a tolerable upper intake limit, as there is limited research on the toxicity capacity and limited data supporting the stipulation of an upper limit. Vitamin B12 is vital as it comprises an important element in DNA synthesis and individual neurological functioning. This necessitates continuous intake of the vitamin to enhance the prevention of possible hematologic and neuropsychiatric disorders upon lack of continued intake of the vitamin.

Through the analysis of the American and European intake of the vitamin, the intake levels identified meet the stipulated recommended daily allowance. However, keenness has to be observed regarding the absorption levels to ensure that individuals meet the required levels. This is particularly vital for vegetarians, as they do not consume animal products, which create the bulk of Vitamin B12 sources. In addition, individuals under any forms of medication, gastrointestinal patients, individuals over 50 years of age and anyone experiencing poor bouts of health remain at risk of having low levels of Vitamin B12 within their systems. Lack of vitamin B12 is influenced by poor adherence of the dietary stipulations leads to the identification of vitamin B12 deficiency among individuals.

Sample Master Capstone Papers

Yijin Wang



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