IS VITAMIN D CAPABLE OF HELPING US RECOVER FROM THE COVID-19 PANDEMIC?

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Adequate nutrition is an integral part of well-being in humans. Malnutrition and lack of certain nutrients impair immune system functions. A recent systematic review revealed that malnutrition was related to negative outcomes including transfer to intensive care units and deaths in older individuals with coronavirus disease 2019 (COVID-19) [1].

Vitamin D is one of the essential nutrients with numerous functions in the human body [2]. Acting as a hormone, vitamin D interacts with its receptors in almost all tissues [3]. Therefore, its functions are not limited to bone metabolism/musculoskeletal system. Vitamin D play a role in several non-skeletal conditions such as infections, malignancies, cardiovascular diseases, diabetes, and autoimmune diseases [4]. Over the past year, researchers have focused on examining its potential impact on severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection with several questions in mind: Does hypovitaminosis D increase the risk of COVID-19? Does vitamin D have an impact on disease course/prognosis?

Research findings on this topic are mixed and there are ongoing studies [5]. Although a potential direct link/cause-effect association between vitamin D status and COVID-19 is a matter for debate and still being studied, there are multiple observations with regard to an indirect link between these two entities [6]. Vitamin D is a determinant of the patients' comorbidity status [6] and has several extra-skeletal effects which might include the modulation of immune response to pathogens [7].

Overall, regardless of the controversy whether vitamin D protects against COVID-19, keeping an adequate level of vitamin D important for bone health [5]. Implementing nutritional evaluation and nutritional care management into treatment plans of patients with COVID-19 would be of value [8].

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REFERENCES


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