The use of Vitamin D at a Population Level Against COVID-19

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Key Findings:1) There is no evidence linking low vitamin D to COVID-19 2) Vitamin D should not be promoted as being protective against COVID-19

- Vitamin D is currently at the centre of the discussion on the use of dietappylements against COVHD9. Although low vitamin D is correlated to COVHD, the relationship is not one of causation.
- Using genetic information we know of a number of commonmutations that predispose people to naturally higher vitamin D levels. Each of threast ations has a role in the metabolism of vitamin D in our bodies and riserited independently of other characteristics Thus, our weight, body mass index, income or educatian betes and heart disease all correlated with COVID9 randomly occurin relation to our vitamin D causing genes.
- Genetic mutationsseparate the populationigroups that only differ in their predisposition to highevitamin Dlevels If vitamin D is able to preventer moderate COVID19, those carrying the mutations in their genomevill be less likely to ave COVID19 or beseverely affected from it. The same idea applies for genetic mutations predisposing people to have very low levels of vita D, indescribed as vitamin D deficiency
- Using genetic mutations associated withvitamin D levels measured in the blood of more than 120,00 people and/ith vitamin D deficiency measured in more than 440,000 people, we find that these mutations are neither over or under represented in those that tested positive for the virus Vs those testing negative, or those that tested positive and required hospitalisation Vs those tested positive and medical assistance Our results suggest the increasing vitamin D levels, or decreasing vitamin D deficiency will not change susceptibility to the virus or the severity GOVD19.¹

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