

Review of: "[Case Report] Supplementation with Vitamin D, Zinc, and Quercetin to Treat COVID-19: A Case Report"

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Potential competing interests: No potential competing interests to declare.

The manuscript entitled "Supplementation with Vitamin D, Zinc, and Quercetin to Treat COVID-19: A Case Report" by Brett Martin, in this case report, COVID symptoms may have improved as a result of the supplements' capacity to promote immune function while reducing inflammation and oxidative stress. The activity of NF-B, IL-1, IL-6, IL-8, TNF-, MCP-1, and CRP is increased when a coronavirus is present. Quercetin, zinc, and vitamin D can suppress NF-B activation and stop the release of IL-1, IL-6, IL-8, TNF-, MCP-1, and CRP. Her symptoms were managed by taking 1,000 milligrammes of quercetin, 100 mg of zinc, and 5,000 IU of vitamin D three times a day with meals. Her nasal congestion and exhaustion started to improve after just one day of dosage. Her cough subsided after three days of dosage, and her weariness, nasal congestion, ageusia, and anosmia all significantly improved. After six days of therapy, all symptoms completely disappeared.

1. Mention laboratory conformed diagnosis of covid 19- RTPCR, HRCT?
2. Mention whether informed consent is needed, as quercetin is an herbal product and off label use of other drugs?
3. Does the patient received standard of care? mention those.

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1. "However, after 2 months, the effectiveness of the vaccine begins to decline.[8]" – specify, about which vaccine.
2. However, one study found that 37.7% of hospitalized patients in a cohort of 434 were fully vaccinated.[9]"-specify, about which vaccine.
3. **"While medications have some benefit** for the treatment of COVID, the safety and the efficacy **of these pharmaceuticals** varies for moderate and severe cases and none have reduced the incidence of mortality.[10][11]" specify, about what medication you are mentioning
4. "Consequently, the use of natural supplements may provide a therapeutic benefit for the treatment of COVID"- substantiate.

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1. "She received the 2-dose regimen of Moderna and 1 booster**several months** prior to the onset of her infection" -

specify exact period.

2. She rated her cough at 7 out of 10 on a numeric scale with **0 being the least severe** and 10 being the most severe-
Zero should be No cough

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1. **A natural medicine** therapeutic approach may have improved her symptoms and **resolved her infection**. -
substantiate, multiple drugs are used

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1. "Vitamin D, zinc, and quercetin have the ability to down-regulate the activation of NF- κ B and inhibit the secretion of IL-1, IL-6, IL-8, TNF- α , MCP-1, and CRP.[3][22][23][24]"- mention the rationale of using all three drugs having same molecular mechanism