Dear Editor
Dear Editor, we would like to share ideas on “Estradiol and COVID-19: Does 17-Estradiol Have an Immune-Protective Function in Women Against Coronavirus? (1).” Zangeneh and Shoushtari concluded that “MRT may be considered as a viable treatment option for pre/post-menopause women with coronavirus, referring to the fact that sex hormone (1).” We agree that estradiol might be clinically applicable for management of COVID-19. In a recent study, a short-term estradiol supplement provided clinical advantage for management of non-severe COVID-19 (2). In addition to immunoprotective mechanism, estradiol might have also had usefulness via oxidative pathological pathway (3).

However, exact mechanism of estradiol against SARS CoV2 should be further clarified. Also, an effect on other side of the coin of estradiol should be discussed. In COVID-19, there is a risk for increased blood viscosity and thrombosis (4). Estradiol might affect coagulation system. The risk of thrombosis in COVID-19 might or might not occur if estradiol is used for management of infection. While estradiol might have immune-protective function, it is necessary to have a further study on its usefulness and risk in management of COVID-19.

Conflict of Interests
Authors have no conflict of interests.

References

Citation: Sookaromdee P, Wiwanitkit V. Estradiol, Immune-Protective Function and COVID-19: Correspondence J Family Reprod Health 2022; 16(2): 161.