LETTERS TO THE EDITOR

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Vitamin D supplementation to prevent COVID-19 in older people

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To the Editor-Since the review on the immune modulating effects of vitamin D in coronavirus disease 2019 (COVID-19) infection by Kaler et al¹last year, there has been an open-label trial showing positive effects of vitamin D supplementation in COVID-19 patients in Spain. Out of 838 COVID-19 in patients, 447 were routinely given calcifediol (25-hydroxycholecalciferol) 532 μ g on admission, and 266 μ g on day 3,7,15 and 30. The treatment group had very significantly lower rates of intensive care unit admission (4.5% vs 21%) and death (4.7% vs 15.9%).2 In contrast, two randomised trials of a single large dose of vitamin D3 on admission in moderate to severe COVID-19 patients have showed no significant benefits.³ The discrepant results may be due to differences in vitamin D formulations. As compared with vitamin D3, calcifediol does not require hydroxylation in liver which is often impaired in acute illness. Therefore, vitamin D supplementation should preferably be started before exposure to COVID-19. Older people who seldom go outside, especially those in old age homes, have high prevalence of vitamin D deficiency. Indeed, an expert group recommended routine use of vitamin D3 1000 units daily in old age homes.4 A randomised trial of vitamin D3 in older people showed that doses up to 2000 units daily for four months was very safe.5 In the midst of the pandemic, I recommend vitamin D3 2000 units once daily in homebound older people to prevent COVID-19 infection and its complications, especially those who are not fully vaccinated.

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for publication, and takes responsibility for its accuracy and integrity.

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Liver injury associated with the use of health supplement HemoHIM

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To the Editor—A recent press release issued by the Department of Health of the Hong Kong SAR Government urged public not to buy or consume an oral health supplement "HemoHIM".¹ This product has been withdrawn from the market in Hong Kong, Taiwan and Singapore. In Hong Kong, from April to September 2021, four women presented to public hospitals because of acute hepatitis (Table).² All patients had consumed a health supplement named HemoHIM (Atomy; Gongju, South Korea) and liver function improved after cessation of use. No alternative medical causes were identified. A sample of HemoHIM was analysed by highperformance liquid chromatography with diode-array detection and liquid chromatography—tandem mass spectrometry, revealing the presence of methoxsalen,

psoralen, and benign herbal markers. Subsequent analysis of additional samples from different sources showed consistent laboratory findings. Methoxsalen (also known as 8-methoxypsoralen, 8-MOP) and psoralen are naturally occurring furocoumarins. They can be found in a number of plant species at various concentrations and are collectively referred to as psoralens. Psoralens have photosensitising property, thus methoxsalen is formulated as drugs used in PUVA (Psoralen and ultraviolet light UVA) treatment for psoriasis and vitiligo.³ Psoralens bind to DNA when exposed to ultraviolet light, inhibiting DNA synthesis and causing a decrease in cell proliferation. Methoxsalen- and psoralen-containing herbs have been reported to cause liver injuries.^{3,4} The listed herbal