

Importance of drinking microfiltered raw immune-milk from cows immunized against SARS-CoV-2 in providing short-term protection against COVID-19

COVID-19 is the infectious disease caused by the novel coronavirus SARS-CoV-2, which causes severe respiratory tract infections in humans, has become a global health concern. Currently, all the effort used to prevent the spread of this virus is not sufficient. Many options are being investigated to treat COVID-19 and the transfusion of convalescent plasma or immunoglobulins (Ig), also known as passive immunization, is one of the alternative treatment options.

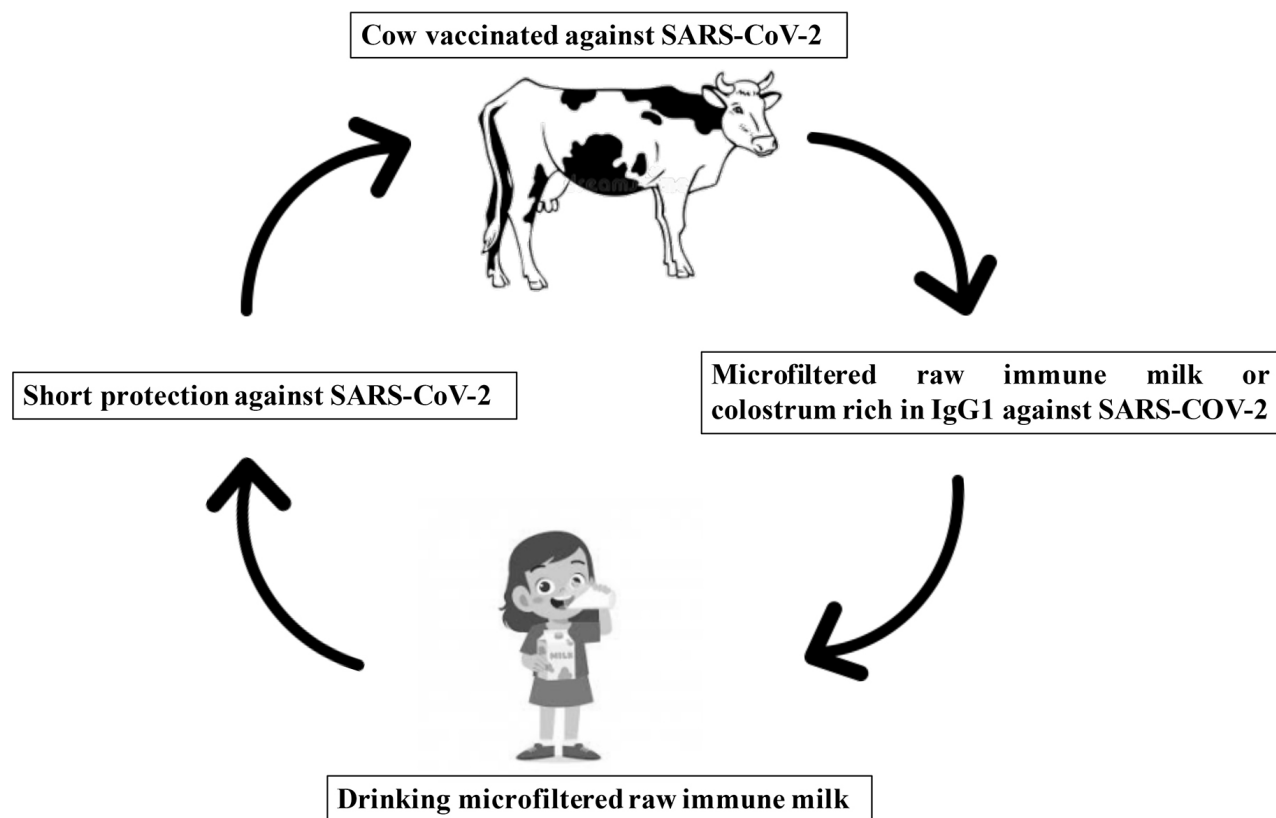


Fig. 1. Schematic overview of how drinking microfiltered raw immune-milk from cows immunized against SARS-CoV-2 can provide short-term protection against COVID-19.

The passive immunity is a process in which neutralizing immunoglobulins against pathogens collected from recovered individuals can be used to protect or treat the new infected patients. Several vaccine candidates against SARS-CoV-2 are in clinical trials but approval of these vaccines is likely to take a long time before public use. It is well-known that bovine colostrum and

cow's milk are highly rich in IgG1 that binds to many pathogens that infect humans, supporting cross-species activity between bovine and human immunoglobulins. The microfiltration process eliminates from the milk all pathogens without denaturation of proteins or nutritional changes that could be caused by ultra-high temperature pasteurization of milk. Cow's milk is accessible to the whole population and consumption of microfiltered raw immune-milk from cows vaccinated against SARS-CoV-2 could provide individuals with short-term protection against this new coronavirus, as an option until vaccines become commercially available.

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