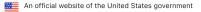
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## Can nasal irrigation with chlorine dioxide be considered as a potential alternative therapy for respiratory infectious diseases? The example of COVID-19

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## Abstract

Chlorine dioxide  $(CIO_2)$  is a high-level disinfectant that is safe and widely used for sterilization. Due to the limitations on preparing a stable solution, direct use of  $CIO_2$  in the human body is limited. Nasal irrigation is an alternative therapy used to treat respiratory infectious diseases. This study briefly summarizes the available evidence regarding the safety/efficacy of directly using  $CIO_2$  on the human body as well as the approach of nasal irrigation to treat COVID-19. Based on the available information, as well as a preliminary experiment that comprehensively evaluated the efficacy and safety of  $CIO_2$ , 25-50 ppm was deemed to be an appropriate concentration of  $CIO_2$  for nasal irrigation to treat COVID-19. This finding requires further verification. Nasal irrigation with  $CIO_2$  can be considered as a potential alternative therapy to treat respiratory infectious diseases, and COVID-19 in particular.

**Keywords:** COVID-19; SARS-CoV-2; chlorine dioxide (ClO2); nasal irrigation; respiratory infectious diseases.

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