

## Chlorine Dioxide in Solution (CDS) as a therapeutic agent

### Precautions & Contraindications

[Andreas Kalcker - COVID19 Protocols](#)

See under Summary of intervention protocols

I have checked the facts in this document with Kalcker's team.

ClO<sub>2</sub> is regarded as safe except in large doses. In research undertaken under the auspices of the US Environmental Protection Agency, Lubbers et al (1982) found no detrimental physiological effects of ClO<sub>2</sub> and its metabolites – chlorite and chlorate – in male adults ingesting a maximum of 24 mg per day over a fortnight. [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1569027/pdf/envhper00463-0059.pdf?fbclid=IwAR0mat3plg8xIh-oiBCK95\\_NM25A3xFVIU2cyACCZSApyM-kf1ZksAdmLoM](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1569027/pdf/envhper00463-0059.pdf?fbclid=IwAR0mat3plg8xIh-oiBCK95_NM25A3xFVIU2cyACCZSApyM-kf1ZksAdmLoM)

However, the US FDA has issued warnings, claiming that it has the same effect as drinking bleach. <https://www.fda.gov/news-events/press-announcements/fda-warns-consumers-about-dangerous-and-potentially-life-threatening-side-effects-miracle-mineral#targetText=Miracle%20Mineral%20Solution%20has%20not,and%20flu%2C%20among%20other%20conditions>. It claims that ClO<sub>2</sub> can cause nausea, dehydration, severe vomiting, diarrhoea, low blood pressure (hypotension) and death. ClO<sub>2</sub> is banned in the US, UK, Australia and Canada. Bolivia, which legalised the use of ClO<sub>2</sub> for the treatment of COVID 19 in 2020, recorded a dramatic fall in deaths. This encouraged COMUSAV doctors to treat COVID-19 patients on requested in some neighbouring countries where ClO<sub>2</sub> has not been approved for this use.

### WARNINGS

1. Concentrated CDS must not be inhaled – it is toxic to the lungs. As Kalcker pointed out - *It is like water, you can drink it but you cannot breathe it.* <https://andreaskalcker.com/en/cds-clo2/cds-toxicity.html>
2. CDS is a disinfectant, but like alcohol which is another disinfectant, it can be drunk.
3. Store CDS in a brown bottle in the fridge to protect it from UV light.
4. Since it is an oxidising agent corrosive to some metals, be careful of what you store it in and what you wash in it.
5. CDS in concentrated form has a bleaching effect and is harmful.
6. 3000 ppm CDS is not available in UK. Since I only took a weak beginners dose myself, I was not overly concerned about the dosage. The beginner's dose is not enough to treat viral infections. Kalcker recommends Protocol C but his team were unable to help me determine the dose required in mg for the product I was using. Reports of adverse effects of CDS may have been due to over-dosing by people like me, trying to work this out for themselves. Please be careful. COMUSAV recommends <http://www.mmsmineralshop.com/>

### Antidotes and drug interactions

7. You should not have ClO<sub>2</sub> with food. As with homeopathic remedies and bicarbonate of soda, it is best to have the remedy at least an hour before or after a meal. The best is to have it on an empty stomach on waking or retiring to bed.
8. When using ClO<sub>2</sub> as a therapeutic, it is best NOT to have antioxidants like Vitamin C at the same time as CDS. It can also be antidoted by coffee, alcohol, chocolate and anti-oxidants, dairy products and sugar.
9. CDS is a blood thinner and improves circulation. So, if taking Warfarin (or other blood thinners), you need to monitor to avoid an overdose. People with ulcers and bleeding conditions are advised to avoid medicinal doses of ginger and turmeric, which are also blood

thinners. These people should start with a very low dose and to double-check if it is suitable for them.

10. Avoid supplementing CDS with other oxidants like hydrogen peroxide, ozone and bicarbonate of soda. Stick to just one agent.

### **Side effects**

11. Can cause diarrhoea, vomiting, dizziness. Advised to ease of and build up to dose. I started with a low dose and just had some burping and felt peckish between meals.
12. Report of a decrease in T4 thyroxine levels in African green monkeys after 4 wk of oral exposure. However, after 8 wk of treatment T4 levels rebounded to above pre-treatment levels, coinciding with an increase in thyroid radio iodide uptake. My husband's TSH has shot up after starting with just one weak dose. It will be interesting to see the next blood test results.
13. ClO<sub>2</sub> also decreased haemoglobin levels in some studies. My husband's haemoglobin count has also gone down from 127 to 123 – something which needs checking.
14. Ease off if you get a strong Herx or [Jarisch-Herxheimer](#) Reaction, which is a medically recognised over-active immune response to the toxins released by dying pathogens. During this healing syndrome symptoms flare up and get worse before they get better. One way around this problem is to reduce the dose and then work up again slowly.
15. ClO<sub>2</sub> seems to have similar properties to bicarbonate of soda and ginger/turmeric. Since these other agents have side-effects which we need to be aware of, ClO<sub>2</sub> may also have some of the same side effects. We need more information on this topic. For example, ClO<sub>2</sub> had drying effect on me, which eased off with use.

### **Immunity**

16. CDS does not increase immunity. It helps the body cope with COVID symptoms. For example, in Bolivia, the infection rates remained high but there were fewer deaths.
17. The body's immune response does not last forever – it only lasts for a few months. So, it is important to observe public health measures and take CDS when there are waves of mutations.

### **Intravenous Use**

18. When used intravenously, it has to be used within a narrow pH range of 7.4 and 7.8 to avoid phlebitis. Phlebitis is the inflammation of a vein often accompanied by pain, erythema (superficial reddening of the skin), edema, etc. I found irritation like phlebitis on my varicose veins on taking a very weak dose of ClO<sub>2</sub> – this was not accompanied by inflammation but there was playable puffiness along the varicose vein which started to improve.
19. Kalcker notes that CDS in concentrated form will irritate mucosa. So, it has to be diluted to 50 mg or 0.005% in physiological saline solution.

### **Storage**

20. ClO<sub>2</sub> is a toxic gas which is very soluble in water to form non-toxic CDS but it evaporates at and above 11°C. So, CDS must be stored in the fridge in a brown bottle to protect it from UV light. CDS should be consumed when mixed and should not be left lying around.

M Kirby, 5 May 2021

Revised: 10 May 2021