



CLINICAL PROTOCOLS WITH
CDS IN COVID-19

Due to the actual situation in regards Coronavirus and along with medical doctors of COMUSAV (www.comusav.com) we have updated our protocols C, F, Y in the treatment with Chlorine Dioxide in its form of CDS at 0.3% = 3000 ppm.

PROTOCOL

C

PREVENTION AND FIRST SYMPTOMS

MIX 10 ML OF CDS IN 1L WATER
DIVIDED INTO 10 DOSIS DAILY

Always start with standard Protocol C increasing the dosis based on blood oxygen saturation. CDS IS ALWAYS DILUTED IN WATER.

PROTOCOL C: THE MIX OF 10 ML OF CDS DILUTED IN 1 LITER OF WATER DIVIDED INTO 10 DOSES. TAKE 100 ML OF THE MIX EVERY HOUR (1 HOUR APART FROM MEALS).

C15

1 LITER OF WATER
15 ML OF CDS
10 DAILY DOSES (100ml each)

DAILY LIFE IN PUBLIC & FAMILY OF INFECTED PATIENTS

C20

1 LITER OF WATER
20 ML OF CDS
10 DAILY DOSES (100ml each)

1ST RESPONDERS & RESIDENTS AT+ 2,600M ALTITUDE

C30

1.5 LITERS OF WATER
30 ML OF CDS
10 DAILY DOSES (100ml each)

ICU PATIENTS & RESIDENTS OVER 3,600M ALTITUDE

PROTOCOL

F

ACUTE VIRAL & BACTERIAL INFECTIONS

Protocol F15 is applied to people over 60kg who have a fever. The F20 protocol is applied to people with a fever and/or an oxygen saturation of over 92% or in case of being at an altitude higher than 2,600m. The F30 protocol is applied to people with a fever and whose oxygen saturation has been reduced to below 85% or in case of being above an altitude of 3,600m.

F10

0.5 LITER OF WATER
10 ML OF CDS
8 DOSES IN **2** HOURS

F15

0.5 LITER OF WATER
15 ML OF CDS
8 DOSES IN **2** HOURS

WEIGHT 60+ KG AND HAVE A FEVER

F20

0.75 LITER OF WATER
20 ML OF CDS
8 DOSES IN **2** HOURS

F30

1 LITER OF WATER
30 ML OF CDS
8 DOSES IN **2** HOURS

FEVER AND/OR OXYGEN SATURATION IS $\geq 92\%$
OR WHEN ALTITUDE IS 2,600M+

FEVER AND/OR OXYGEN SATURATION $\leq 85\%$
OR WHEN ALTITUDE IS 3,600M +

NIÑOS (CHILDREN)

ADD 1ML OF CDS TO 100ML OF PURIFIED WATER. IF CHILD IS TOO YOUNG TO DRINK 100ML OF THE MIX, ADAPT AMOUNT OF WATER ACCORDINGLY.

N2

1 LITER OF WATER, ADD
2 ML OF CDS PER 12KG WEIGHT
100 ML DOSE EVERY HOUR

PREVENTIVE

N4

1 LITER OF WATER
4 ML OF CDS PER 12KG WEIGHT
100 ML DOSE EVERY HOUR

WITH SYMPTOMS

N3

1 LITER OF WATER, ADD
3 ML OF CDS PER 12KG WEIGHT
100 ML DOSE EVERY HOUR

COVID EXPOSURE

ENEMA (SLOW ABSORPTION)

It is not an evacuation enema, **but a slow absorption one**. Connect an venoclysis or infusion set with a nasogastric tube to the saline bag with CDS and insert it rectally as deeply as possible until the beginning of the descending colon. **Set to a few drops per minute** based on patient's tolerance.

E10

0.5 L SODIUM CHLORIDE SOLUTION (NaCl 0.9%)
10 ML CDS
DROPS DOSIS BASED ON PROGRESS

E20

0.75 L SODIUM CHLORIDE SOLUTION (NaCl 0.9%)
20 ML CDS
DROPS DOSIS BASED ON PROGRESS

E30

1 L SODIUM CHLORIDE SOLUTION (NaCl 0.9%)
30 ML CDS
DROPS DOSIS BASED ON PROGRESS

HYPODERMIC OR INTRAVENOUS

This is the prolonged **intravenous application** of CDS in severe COVID19 patients to avoid or remove intubation. The Y10 protocol is used at sea level. The Y20 protocol is used for oxygen saturation of less than 85% and at an altitude of 2,600m. The Y30 protocol is used for a saturation of less than 75% or at altitudes above 3600m. The Y50 protocol is only applied in critical rescue cases and in patients with morbid obesity, using a subclavian central line. Slow dripping is imperative with a **maximum of 15 drops per minute** to avoid phlebitis. In case of **irritation**, reduce the speed of the drip. For high doses, use an infusion pump whenever possible for better clinical control as well as **avoid sunlight and heat**. PREFERABLY PERFORM THIS PROTOCOL AT NIGHT TO AVOID VIRAL SPIKE.

Y10

10 ML CDS (500ML RINGER'S LACTATE-FREE SOLUTION)
15 DROPS PER MINUTE
IT IS USED AT SEA LEVEL

Y20

20 ML CDS (500ML RINGER'S LACTATE-FREE SOLUTION)
15 DROPS PER MINUTE
OXYGEN SATURATION <85% & AT 2,600M ALTITUDE

Y30

30 ML CDS (500ML RINGER'S LACTATE-FREE SOLUTION)
15 DROPS PER MINUTE
OXYGEN SATURATION <75% & AT 3,600M+ ALTITUDE

Y50

50 ML CDS (500ML RINGER'S LACTATE-FREE SOLUTION)
15 DROPS PER MINUTE
USE SUBCLAVIAN CENTRAL LINE FOR CRITICAL CASES & MORBID OBESITY

NOTE: If Ringer's Lactate-Free Solution is NOT found, saline solution with 10cc of sodium bicarbonate solution can be used.

HOME WITH COVID-19 PATIENTS

It is considered a mandatory protocol in all rooms with COVID-19 patients present. **In a small glass, pour approximately 10ml of CDS** for a room of **10 square meters**.

In larger rooms several equidistant glasses are distributed.

Once the yellow color of the CDS is gone, it must be replaced with a new one.



10 ML CDS

10 M²

DERMATOLOGIC IN SPRAY

Essential for all medical personnel as a first response emergency and to be able to carry it with them constantly.

After each **contact with COVID-19 patients**, the mouth, eyes, nose and hands are sprayed for disinfection.

It is **non-irritating**, eyes can be opened, inhaling through the nose and apply in several sprays is safe.



1/3 OF CDS

2/3 SALINE SOLUTION (NaCl 0.9%)

50 ML BOTTLE SIZE

THIS DILUTION MAKES 1,000 PPM CDS SPRAY

MORE INFORMATION

www.comusav.com

www.andreaskalcker.com



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