

Summary

The Covid 19 Pandemic has hit the Healthcare Systems worldwide and in Latin America. Ecuador has the second most cases of illness and deaths caused by this illness. In view of the various obstacles been produced by conventional medicine and the late methods adopted by the Ecuadorian healthcare system in the face of such an emergency, The Association of doctors experienced in integrative medicine (AEMEMI) and pupils of Andreas Kacker have decided to participate in this fight for the wellbeing(health) of the Ecuadorian people. In this scenario both effectiveness and toxicity of Chlorine Dioxide became evident in patients suffering from respiratory symptoms and positive to Sars CoV2 (Covid19) via a quasi experimental study of 104 patients we observed in relation to taking CDS. We noticed that the group most affected by Covid19 was between the ages of 30 and 50 years old, predominantly females rather than males, in this study where the female population was more willing to submit to the experimental treatment with CDS. Because of this our statistics differ from the

worldwide ones where it has been noticed that the male population is the one more susceptible to die. With respect to the symptoms in first places the loss of smell n=49, followed by dry cough

n=45, sore throat n=41, myalgia n=49, fever n=40, back ache n=40, headache n=37, loss of taste n=36, loss of appetite n=32, difficulty breathing n=17, shivering n=16, diarrhea n=12, vomit n=3. With this initial symptomatology there was a general reduction of the symptoms in 82.2% by the fourth day and the remaining 12.8% only had a light dry cough and some backache and should be noticed that there were no fatalities and ill effects in this group that we studied. It is important to further research through advanced statistical analysis which would include the same criteria for all patients like Lab tests, pictures and demonstrate the various levels of gravity such as critical, moderate and light, in order to prove in a sure manner the effectiveness and low toxic effects of this mineral.

INTRODUCTION

Taking into consideration the anti-viral properties of Chlorine Dioxide and it's practically non existent adverse effects, on the basis of the doctor's experience with this substance, AEMEMI recommends this Mineral whose promising beneficial effects can be a solution for the current situation in Ecuador. Dr. Roberto Garcia Espinosa who has a 35 year experience and who has specialized in integrative medicine for over 15 years, has recommended using CDS to treat people affected by Covid19 in the city of Guayaquil as it is where there are the most number of cases and has asked the collaboration of doctors specialized in integrative medicine in order to run clinical tests of the affected population. His proposal has been accepted by Dr. Carmen Sarmiento Barba who has more than 22 years experience in this kind of medicine, dr. Sarita Montoya Carvajal, Dr. Sonia Moreira Vera, epidemiologist with excellent experience in matters of infectious and contagious diseases, Dr. Edwin Andrade Vilela Specialised in primary health care, later joins the group Maria Robles Urgiles, an experienced doctor with a degree in tropical medicine and immunodeficiency diseases like HIV-Aids. Furthermore ms. Lucia Jara a graduate in statistics collaborates in data analysis.

The present clinical test produces an alternative treatment for Covid19 with the purpose of determining the beneficial effects, as much as the toxicity through an observational study, for prospective cases.

General Objective

To prove the effectiveness and toxicity of CDS in patients with respiratory symptoms and positive for SARS-COS2 (COVID-19)

Specific objectives

- Share the benefits of Chlorine Dioxide in relation to viral infections with patients with symptoms typical of Covid19 and health workers.
- Demonstrate the validity and toxicity of Chlorine Dioxide in patients with symptoms related to Covid19
- Describe the improvement of symptoms in patients after taking Chlorine Dioxide according to the protocols established by the medical association AEMEI.
- Propose a treatment plan with CDS to the Health authorities.

CHEMICAL CHARACTERISTICS OF CHLORINE DIOXIDE

Chlorine Dioxide (CLO₂) is a yellow/greenish gas produced by mixing sodium chlorite at 25% (NACLO₂) with Cloridric acid at 4% (HCL), this gas has a boiling point of 11 C and has the characteristic of being very soluble in water while not hydrolyzing in it. Chlorine Dioxide does not leave any residue in the body and does not cause a long term accumulation.

CDS IN THE HUMAN BODY

When ingested Chlorine Dioxide is rapidly released and for the most part is absorbed by the stomach lining in order to reach the blood. Chlorine Dioxide has a behavior very similar to oxygen as it has a similar acidity (Bohr effect). When Chlorine Dioxide finds an acid environment it separates into Oxygen and Chlorine, where Chlorine being very electronegative will react with an atom of sodium to form sodium chloride (NACL) and the oxygen will react

oxidizing the pathogens eliminating them by destabilizing the cellular wall (bacteria) and the outer wrapping and protein shell (virus).

“It also appears that besides these pathogens , the majority of the substances that are toxic for the body are acid or have free radicals that are oxidizable, malignant tumors need an acid medium to grow and sick tissues accumulate acid residues, the same that would interfere with the proper functioning, so therefore in theory a good dose of this “selective antacid” would correct the condition of the disease. In studies of the use of Chlorine Dioxide with Malaria patients would go from being very ill to complete recovery in about 4 hours, which seems very fast.”(Ruiz A. 2009)

Human cells don't have cellular walls and are not affected. Probably our skin and our bodies are protected from the general oxidative effect of Chlorine Dioxide by a variety of reducing agents in our cells and in or blood like catalase, glutathione, superoxide dismutase, vitamins E , C, A, B complex, uric acid, zinc and selenium. This is probably the same protection mechanism that prevents oxygen from damaging free radicals. Bacteria and viruses don't contain these types of reducing agents.(Alliger, H...)

Chlorine Dioxide with an oxidative potential of 0.95 V has the ability of eliminating every type of cellular pathogen without damaging our body since 1.2V is required in order to destroy cells. Thanks to it's oxidative power, Chlorine Dioxide has the ability to eliminate heavy metals like aluminium and mercury.

Chlorine Dioxide not only eliminates pathogens selectively but it provides oxygen increasing saturation and alkalisng the body seizing hydrogen ions to later convert into water. The increase of oxygen will convert into energy stimulating the mitochondria in order to produce ATP.

CLINICAL TESTS

Not counting with the published scientific interventions, the patients involved in the present study, participated voluntarily authorizing it with an informed consent,

we must reiterate which formula was adopted first of all with the doctors of the organization. The doctors of AEMEMI wish to provide hope for life to the least privileged population who have not had health coverage and low income and have not had access to adequate medical attention in the city's various health establishments which find themselves collapsing under the enormous increase of infected patients. Besides helping the public health system with rapid improvement and respite from the symptoms in the infected patients. We trust that this is the first of future investigations in Latin America and the world that may enhance the beneficial properties of CDS. For the benefit of humanity especially for the middle and lower income population as this is accessible to everyone due to its low cost and in consideration of the amount of mortality and disease caused by this pandemic.

CLINICAL PRACTICE

The infection from the influenza virus in the air of mice can be prevented by the gas of Chlorine Dioxide (ClO₂)

This study demonstrated that ClO₂ reduced the function of hemagglutinin (HA) of the influenza A virus (H1N1) in a manner depending on the concentration, the time and temperature. The scientist N. Ogata succeeded in deactivating the influenza virus inhibiting its ability to bind to receptors (Ogata N. 2012)

Maria e. Alvarez y R. O'Brien in their investigation "Mechanism of deactivation of Polio virus by Chlorine Dioxide and Iodine" demonstrated that both elements have antiviral ability in reacting with the Polio virus capsid altering its PH and they also noticed a difference in the action mechanism. Iodine works diminishing the ability the virus has to anchor itself to the cells while chlorine dioxide also deactivated the virus of the infected cells reacting with the viral ARN deteriorating the capacity of the genome reducing the incorporation of the uridine in the new viral ARN (Alvarez N., O'Brien R., 1982)

Y S Chen and J M Vaughn also studied the deactivation of the rotavirus in humans and monkeys using chlorine dioxide and discovered that with a concentration of 0.2mg/l and a PH 8 the viruses were rapidly deactivated compared to the effectiveness of ozone in an alkaline medium (Chen Y, Vaughn J 1990)

Currently there is another study approved by the US National Library of Medicine titled Determination of the effectiveness of Chlorine Dioxide in treatment of Covid19 whereby through investigation of prospective cases, they will verify the effectiveness of chlorine dioxide in the treatment of patients infected by Covid19. The investigation will take place between April and June in a cuasi experimental manner in Columbia and Madrid.

TOXICITY OF CHLORINE DIOXIDE

Many evaluations have demonstrated that the components of ClO₂ are not toxic. Five decades of use have not produced any health negative impact. The toxicology tests include: oral intake of ClO₂ in drinking water, adding it to tissue cultures, injected in the blood, seed dis, sinfection, disinfection of insect egg, injected under he skin of animals and in the brain of mice, administered to more than 1500 mice and the plant stems. The standard tests include Ames mutation, hamster, rabbit eye test, abrasion of the skin, pharmacodynamic and teratology (Alliger, H). Though the subchronic/chronic toxicity of ClO₂ has been checked in various studies , only Daniel et al (1990) and Haag (1949) examined a large variety of final points. The other studies (Bercz et al 1982; Abdel-Rahman et al. 1984b; Couri and Abdel-Rahman, 1980; Moore and Calabrese, 1982) focused on the hematological system. Todate no study has examined the potential carcinogenic of chlorine dioxide. Studies in humans have demonstrated there were no significant side effects ingesting 24ppm/l of ClO₂ for 12 weeks (Judith R, et al 1982).

“ClO₂ has been called “the ideal biocide” because the solution kills microbes rapidly without causing any damage to humans or animals”. The time required for the elimination of the pathogens is proportionate to the size of a body, therefore the small ones will be eliminated extremely quickly. For example the time required for a bacteria to die is in milliseconds in a solution of 300 ppm of ClO₂.

Therefore a contact of a few minutes is sufficient to kill all the bacteria and yet short enough to keep safe the penetration into live tissue of an organism (Noszticzus et al 2013) Studies on ClO₂ have specified that when ClO₂ is activated a small portion of it changes in its conjugate which happens to be hypochlorous acid, the substance that neutrophils and macrophages use to kill microbes. With that it has an antibiotic effect. (Ruiz A. 2009)

STUDY DESIGN

The study was conducted in Ecuador and precisely in the city of Guayaquil between March 25th and April 10th as a quasi experimental descriptive study, looking at various cases whose sample selection was, for convenience, not probabilistic considering the same patients the population and the sample with the participation of 104 individuals, who submitted voluntarily, it includes proof of Covid19, with respiratory symptoms of the disease as well as people who had been in touch with infected individuals. The group of doctors shared with the patients the beneficial effects and the toxicity known about the chlorine dioxide explaining the dosage to be taken, the schedule for the formula and following up the days after the treatment and analyzing results.

Inclusion criteria

- A. Positive to Covid19
- B. Some of the symptoms typical of Covid19
- C. Age between 18 and 80 years old

Exclusion criteria

- A. Negative to Covid19
- B. Renal insufficient IV/VI
- C. Congestive heart failure
- D. Patients on blood thinners especially Warfarin

E. Children under 14 years and older than 14 without parents authorisation

PROPOSED TREATMENT

Protocols F or C were recommended or both depending on the severity of the illness and the doctor's criteria. Following are the two protocols:

Protocol F Dilute 20ml of CDS in 500 ml of water
Drink 65ml every 15 min for 2 hours
REST 2 HOURS

Protocol C Dilute 10ml of CDS in 500 ml of water
Drink 63 ml every hour for 8 times

Patients who tested positive and are severely infected with symptoms use attack dosis or protocol F for two or three days according to improvement and symptoms, change maintenance dosis or protocol C for seven more days.

Patients who have been in contact with positive people take maintenance dosis, protocol C for 5 to 10 days,

Children under 5 should take half the amount also for 10 days of treatment.

Recommended 20 days treatment depending on the pathology

It can be administered by IV depending on the severity of the case and the dose is 30ml of CDS diluted in 250 of saline solution 0.9% 14 drops a minute.

RECOMMENDATION

- Patients or any one who starts the treatment should have eaten half hour before

- Not recommended for children under one year old because mother's milk contains lauric acid which is an antiviral.
- Maintain an adequate diet, hydration and control of metabolism.

Possible precautions and contraindications

Chlorine dioxide reacts with antioxidants and various acids so it is not advised to take vitamin C or ascorbic acid during the treatment. In the case of patients using Warfarine it is advised to constantly check the numbers in order to avoid overdosing as chlorine dioxide improves blood fluidity.

Though chlorine dioxide dissolves in water it has the advantage of not hydrolizing and therefore does not produce toxic trihalomethanes which are carcinogenic precursors.

RESULTS

Table 1 Case frequency by Covid19 symptoms

SYMPTOMS	WOMEN	MEN	TOTAL
FEVER	18	14	32
CHILLS	7	7	14
MUSCULAR PAIN	33	29	62
DRY COUGH	42	37	79
HEADACHE	18	19	37
BACK ACHE	37	33	69
DIFFICULTY BREATHING	11	17	28
VOMIT	2	6	8
DIARRHEA	6	11	17
SORE THROAT	20	25	45
LOSS OF SMELL	35	32	68

LOSS OF TASTE	19	20	39
LACK OF APPETITE	16	14	31

Source: Patients' informed consent.

Analysis: In relation to the symptoms in first place is dry cough n=79, followed by back ache n=70 and loss of smell n=67, mialgia n=62, sore throat n=45, headache n=37, fever n=32, lack of appetite n=30, difficulty breathing n=28, chills n=14, diarrhea n=17, vomit n=8.

Table n. 2

Population distribution according to age						PERCENTAGE
AGE	SEX				TOTAL	
	FEMALE	%	MALE	%		
< 10	3	2,9	4	3,8	7	6,7
11-20	6	5,8	3	2,9	9	8,7
21-30	7	6,7	7	6,7	14	13,5
31-40	12	11,5	7	6,7	19	18,3
41-50	9	8,7	13	12,5	22	21,2
51-60	7	6,7	10	9,6	17	16,3
61-70	5	4,8	3	2,9	8	7,7
71-80	5	4,8	2	1,9	7	6,7
>80	1	1,0	0	0,0	1	1,0
TOTAL	55	52,9	49	47,1	104	100,0

Source: Patients' informed consent.

Graphic 1

Analysis: We observed that the most affected are in the age group between 10 - 50 years old with a 21,2 % followed by those between 30 - 40 with 18,3% (19) and those 51-60 with 16,3% (17) and the rest is divided up similarly diminishing in the youngest (younger than 10) and oldest (older than 71).

Graphic 2

Analysis: We noticed that the female group is more affected with a 52,9% than the male with 47%.

Table 3 Symptoms distribution according to the day of the treatment (DAY 1)

SYMPTOMS	WOMEN	MEN	TOTAL
FEVER	40	28	68
CHILLS	16	14	30
MUSCULAR PAIN	41	31	72
DRY COUGH	45	38	83
HEADACHE	37	38	75
BACK ACHE	40	38	78
DIFFICULTY BREATHING	17	22	39
VOMIT	3	10	13
DIARRHEA	12	17	29
SORE THROAT	41	40	81
LOSS OF SMELL	49	40	89
LOSS OF TASTE	36	33	69
LACK OF APPETITE	32	25	57

GRAPHIC 3

Analysis: With relation to the symptoms the loss of smell n=89, followed by dry cough n=83 and sore throat n=81, back ache n=78, fever= 68,

mialgia n=72, headache n=75, loss of taste n=69, lack of appetite n=57, difficulty breathing n=39, chills n=30.

In women in first place loss of smell n=49, followed by dry cough n=45, sore throat n=41, mialgia n=49, fever n=40, backache, headache n=37, loss of taste n=36, lack of appetite n=32, difficulty breathing n=17, chills n=16, diarrhea n=12 and vomit n=3, similar to men.

TABLE 4 Symptoms distribution according to the day of the treatment (DAY 2)

SYMPTOMS	WOMEN	MEN	TOTAL
FEVER	12	11	23
CHILLS	3	6	9
MUSCULAR PAIN	35	31	66
DRY COUGH	41	37	78
HEADACHE	14	15	29
BACK ACHE	37	31	68
DIFFICULTY BREATHING	12	18	30
VOMIT	2	5	7
DIARRHEA	4	10	14
SORE THROAT	14	24	38
LOSS OF SMELL	44	38	82
LOSS OF TASTE	18	22	40
LACK OF APPETITE	13	14	27

Source: Patients informed consent.

Graph 4

Analysis: According to the symptoms, in first place is loss of smell n=82, followed by dry cough n=78, back ache n=68, mialgia n=66, sore throat n=38, loss of taste n=40, difficulty breathing n=30, headaches n=29, lack of appetite n=27, fever n=23, chills n=16, diarrhea n=14, vomit n=7.

TABLE 5 Symptoms distribution according to the day of the treatment (DAY 3)

SYMPTOMS	WOMEN	MEN	TOTAL
FEVER	2	3	5
CHILLS	1	2	3
MUSCULAR PAIN	23	25	48
DRY COUGH	39	37	76
HEADACHE	3	4	7
BACK ACHE	33	29	62
DIFFICULTY BREATHING	5	10	15
VOMIT	1	2	3
DIARRHEA	3	5	8
SORE THROAT	5	10	15
LOSS OF SMELL	13	19	32
LOSS OF TASTE	3	5	8
LACK OF APPETITE	4	4	8

Source: Patients' informed consent.

Graph 5

Analysis: According to the symptoms in first place dry cough n=76, back ache n=62, mialgia n=48, loss of amell n=32, sore throat n=15, difficulty breathing n=15, loss of taste n=8, lack of appetite n=8, diarrhea n=8, fever n=5, chills n=3, vomit n=3.

TABLE 6

SYMPTOMS	WOMEN	MEN	TOTAL
FEVER	1	0	1
CHILLS	0	1	1
MUSCULAR PAIN	14	16	30
DRY COUGH	35	27	62
HEADACHE	1	1	2
BACK ACHE	22	27	49
DIFFICULTY BREATHING	2	4	6
VOMIT	0	0	0
DIARRHEA	3	1	4
SORE THROAT	0	1	1
LOSS OF SMELL	5	3	8
LOSS OF TASTE	1	0	0
LACK OF APPETITE	2	0	2

Source: Patients' informed consent.

Graph 6

Analysis: According to the symptoms in first place dry cough n=62, followed by back ache n=49, mialgi n=30, loss of smell n=8, difficulty breathing n=6, diarrhea n=4, headache n=2, lack of appetite n=2, fever n=1, chills n=1, sore throat n=1, loss of taste n=1, vomit n=0.

Table 8

Distribution of 11 patients entered in the study of CDS with blood work and Cat Scans between the 24th of March and the 10 of April 2020, AEMEMI 2020.															
LYM PHO CITE	NEUT ROPH ILE	D DIM ER	FER RITI N	HD L	TG O	T G P	T T P	TP	P C R	IG M	IGG	UR EA	CR EAT INE	R X	T A C
40.1 %	x103/ UL	0.3	49.3 6	0	20	19	21 .2	10	0	260 *	117 8*	18	0.6 5	n o	n o
39.5 %	48.4	0.2	117. 80*	0	24	33	34 .4	11. 2	0	62*	160 3*	19	0.8 9	n o	n o
50.1 %	42.9	245	773*	40	40*	18 2*	0	0	0. 6	0	0	23	0.7 1	n o	ye s
37.5 %	52.3	115*	656*	25 1*	40*	74 *	0	0	0. 6	0	0	21	0.7 8	n o	n o

17.9 %	70.3		605.6*	0	15				39.6*			15		n o	ye s
47%	46.5	0	262*	143.33	40*	69*	0		0.10	0	0	22	0	n o	n o
30.7 %	61	0.30	0	0	0	0	0	0	0	0	0	0	0	n o	%
0	0	0	0	0	0	0	0	0	0	0	0	0	0	n o	Y es
0	0	0	0	0	0	0	0	0	0	0	0	0	0	n o	n o
5.4%	8.5	8.5	934.8*	0	25	22	0	0	11.10*	0	0	0	0	n o	n o
22.3 %	1.5	1.5	434.9*		23	28	31.8	10.4	0.28	ige 68/135	25*	0.71	0.71	n o	n o
47.3 %	172	172	775.9*	167.85	32		11.20	12.7	0.41			1.24	1.24		

Analysis: we observed that the biomarkers of less than 70% of the patients (12) in whom we performed lab tests for Ferritine, D dimer, PCR, TGO, TGP were altered in the clinical trial like the inversion of the formula for lymphocytes and neutrophils.

*Alteration according to lab results.

LINFOPENIA & LYMPHOCYTOSIS	NEUTROPHILE	D DIMER	FERRITINE	HDL	TGO	TGP	PCR	IGM	IGG	CT
4	2	2	8	3	3	3	2	2	3	3
33,33	16,67	16,67	16,67	25,00	25,00	25,00	16,67	16,67	25,00	25,00

GRAPHIC 3 8

Analysis: We observed that Ferritine was the biomarker with most alterations in the study of the group of patients who had Lab tests and it reflects 66,7% followed by the Lymphocytes inversion at 33,3%, HDL 25%, TGP 25%, Neutrophile 16,6%, D Dimer 16,6%, PCR 16,6%, IGM 16%, IGG 25%.

Table 10 Proportion of patients whose symptoms show a great decrease on the fourth day of treatment.

SYMPTOMS	Initial symptoms	Symptoms on the 4th day	%	Reduction
FEVER	68	1	1,5	-98,53
CHILLS	30	1	3,3	-96,67
MUSCULAR PAIN	72	30	42	-58,33
DRY COUGH	83	62	75	-25,3
HEADACHE	75	2	2,7	-97,33
BACK ACHE	78	49	63	-38,18
DIFFICULTY BREATHING	39	6	15	84.62
VOMIT	13	0	0	-100
DIARRHEA	29	4	14	-86,21
SORE THROAT	81	1	1,2	-98,77
LOSS OF SMELL	89	8	9	-91,01
LOSS OF TASTE	69	1	1,4	-98,55
LACK OF APPETITE	57	2	3,5	96,49

As observed in table 10 there is a general diminishing of the symptoms of Covid19 by 82,2% on the fourth day of treatment with chlorine dioxide and the remaining 18,8% had

light recurrence of dry cough 75%, backache 63%, mialgia 42%, and between 15% to 1,4% consecutively presented difficulty breathing, loss of smell, diarrhea, anorexia, chills, headache, fever, loss of taste. We must point out that none of the patients died and we cannot prove with certainty that the cases of diarrhea have been caused by taking chlorine dioxide as it is known that the Covid19 symptoms are varied and include digestive problems. Besides these were patients that took part in this clinical study in this condition and hence it can be confirmed that diarrhea is a result of the viral picture.

It is also important to mention that 11.53% of the patients had lab tests and chest CTs and 66% of the patients had changes in ferritine followed by lymphopenia and leukopenia,

Besides 40% of the patients had Covid 19 symptoms and 30% are contacts of the patients that were included in the study. The study has its limitations as the patients included in the study are of a low income category and could not afford confirming tests nor tests of developing fase. However the clinical improvement of these cases is evident.

CONCLUSIONS AND RECOMMENDATIONS

We realized that the group most affected was between the age of 30 to 50 and that the female group was most affected.(To be considered that is was prevalently women who were concerned about their health and accepted to participate in this experimental study of CDS).

With reference to the symptoms there was a significant diminishing of the symptoms after four days of treatment for fever 98,5%, chills 96,7%, mialgia 58,3%, headache 97,3%, back ache 37,2%, difficulty breathing 84,6%, vomit 100%, diarrhea 86,2%, odinofagia 98,8%, anosmia 91%, ageusia 98,6%, anorexia 96,5%.

There is a general diminishing of 82,2% of the symptoms of Covid19 after the fourth day of treatment with Chlorine Dioxide and and the remaining 18,8% presented light recurrence of dry cough and back ache.

The biomarker most altered in the patients that were tested in lab was Ferritine by 66,7%, followed by inversion of lymphocytes 33,3%, HDL 25%, TGP 25%, Neutrofilia 16,6%, Dimer D 16,6%, PCR 16,6%, IGM 16,6%, IGG 25%.

No deaths were registered in this study group and there were no reports of negative or toxic effects.

With these results it is advisable for the Ecuadorian Health Authorities to allow this alternative in the treatment of Sars-Cov2 to avoid high level of mortality in the country and using Chlorine Dioxide in large scale is recommended.

BIBLIOGRAPHY

CONCLUSION

With this study we proved that Chlorine Dioxide in the right dosage cured 97% of patients who tested positive to Covid 19 and were in the early stages (1 2 y 3) and the 3% of patients with did not require hospitalisation but only medical support in the home. It is important that it should be a doctor experienced in human fisiopatologia he who takes care of a positive Covid19 patient and his contacts in order to achieve the desired therapeutic results and to avoid misusing the Chlorine Dioxide formula as it is the doctor who obtains the hospital referral in case of necessity if the patient is in stage 4 or 5 and needs to be admitted to a hospital.

We have performed this study of CDS for Covid19 for the purpose of investigation and to save lives for 10 days with the previously mentioned dosage but we recommend that the treatment should be for 21 days.

RECOMMENDATIONS

To Detect Covid19 in its early stages when symptoms have just manifested themselves.

To educate the population to acknowledge having these symptoms as negating them for fear of stigmatization allows the illness to progress and the patient shows up only when he has insufficient breathing.

Evaluate with blood work how the patient arrives, his clinical conditions and more blood work after the treatment with Chlorine Dioxide.

Chlorine Dioxide has proved to be 100% effective as a prevention and without any side effects, we have proved it with this study, therefore, we recommend to replicate this study in order to hear the voices of those who have benefited which is humanity and end this pandemic in the shortest time possible.

The following have participated in this study on the effectiveness of Chlorine Dioxide in the treatment of Covid19:

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