

# **Ozone oxygen in the care of Covid-19 patients and in the sanitization of environments**

The effectiveness of ozone in the treatment of Covid-19 patients and its ability to sanitize environments are at the center of a burning topical debate.

To provide readers with a scientific basis, enriched by the testimonies of doctors and patients, "Orbisphera" has decided to publish a special dossier on the topic.

Enjoy the reading.

## **SCIENTIFIC PUBLICATIONS**

### **Scientific review "European Review for Medical and Pharmacological Sciences"**

Professors of the SIOOT (Scientific Society of Oxygen Ozone Therapy) have published in the European Review for Medical and Pharmacological Sciences a study entitled "Potential mechanisms by which the oxygen-ozone (O<sub>2</sub>-O<sub>3</sub>) therapy could contribute to the treatment against the coronavirus COVID- 19 ".

<https://www.europeanreview.org/article/20976>

### **Scientific Journal "Antioxidants"**

Potential Cytoprotective Activity of Ozone Therapy in SARS-CoV-2 / COVID-19  
Gregorio Martínez-Sánchez 1, \*, Adriana Schwartz 2 and Vincenzo Di Donna 3.

<https://pubmed.ncbi.nlm.nih.gov/32384798/>

### **Scientific magazine "Ozone Therapy"**

The effectiveness of ozone oxygen in curing Covid patients is explained in the article "Oxygen-ozone immunocetual therapy in COVID-19 outbreak: facts and figures" by Giovanni Ricevuti, Marianno Franzini, Luigi Valdenassi.

<https://www.pagepressjournals.org/index.php/ozone/article/view/9014>

## Spain

First Spanish clinical study with ozone therapy for COVID-19 patients. Published by the Policlinica Group, Madonna del Rosario hospital in Ibiza.

<https://www.grupopoliclinica.es/exito-del-primer-ensayo-clinico-espanol-con-ozonoterapia-para-pacientes-covid-19-en-grupo-policlinica/>

## China

**"Case study" of a Covid patient treated with ozone oxygen** by the Medical College of the University of Tianjin (China) and the doctors of the Haihe hospital.

[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3561379](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3561379)

## USA

### Investigating antibody-catalyzed ozone generation by human neutrophils

Recent studies have suggested that antibodies can catalyze the generation of previously unknown oxidants including dihydrogen trioxide and ozone from singlet oxygen and water. This discovery of the production of such a powerful oxidant in a biological context raises questions about not only the capacity of O<sub>3</sub> to kill invading microorganisms but also its role in amplification of the inflammatory response by signaling and gene activation.

<https://www.pnas.org/content/100/6/3031>

<https://science.sciencemag.org/content/298/5601/2195.abstract>

## Scientific Society of Oxygen Ozone Therapy (SIOOT)

SIOOT has published data on 73 Covid patients treated with oxygen ozone and the comparison with 40 patients treated with conventional therapy.

Of 73 non-intubated Covid patients treated with ozone oxygen, 94% had significant and decisive improvements.

Ozone was effective in 84% of cases on intubated ICU patients.

[http://www.ossigenoozono.it/IT/CovidDetail/3518/I\\_DATI\\_EMATOCLINICI\\_DIMOSTRANO\\_L'EFFICACIA\\_DELL'OSSIGENO\\_OZONO\\_TERAPIA\\_CON\\_PROTOCOLLI\\_SIOOT](http://www.ossigenoozono.it/IT/CovidDetail/3518/I_DATI_EMATOCLINICI_DIMOSTRANO_L'EFFICACIA_DELL'OSSIGENO_OZONO_TERAPIA_CON_PROTOCOLLI_SIOOT)

[http://www.ossigenoozono.it/IT/CovidDetail/3514/QUARTO\\_REPORT\\_-\\_DATI\\_EMATOCLINICI\\_DEI\\_PAZIENTI\\_TRATTATI\\_CON\\_OSSIGENO\\_OZONO\\_TERAPIA\\_SIOOT](http://www.ossigenoozono.it/IT/CovidDetail/3514/QUARTO_REPORT_-_DATI_EMATOCLINICI_DEI_PAZIENTI_TRATTATI_CON_OSSIGENO_OZONO_TERAPIA_SIOOT)

[http://www.ossigenoozono.it/IT/CovidDetail/3512/TERZO\\_REPORT\\_-\\_OSSIGENO\\_OZONO\\_SIOOT\\_NEI\\_PAZIENTI\\_RICOVERATI\\_CON\\_COVID-19](http://www.ossigenoozono.it/IT/CovidDetail/3512/TERZO_REPORT_-_OSSIGENO_OZONO_SIOOT_NEI_PAZIENTI_RICOVERATI_CON_COVID-19)

**In Romania**, the government has authorized the use of the SIOOT protocol to treat Covid patients:

<https://www.antena3.ro/actualitate/sanatate/ozonoterapie-speranta-tratare-bolnavi-coronavirus-568354.html>

### **Brazil, bill to treat Covid patients with oxygen ozone**

According to the press agency of the Chamber of Deputies, MEP Paula Belmonte has presented a bill to allow the use of oxygen ozone in experimental studies against Covid-19 on the entire Brazilian territory.

<https://www.camara.leg.br/noticias/653829-PROJETO-AUTORIZA-USO-DA-OZONIOTERAPIA-COMO-TRATAMENTO-COMPLEMENTAR-PARA-COVID-19>

## **OZONE EFFECTIVENESS AGAINST VIRUSES AND SANITIZING ENVIRONMENTS**

**Document of the National Food Safety Committee (CNSA) of the Ministry of Health** and related national and international bibliography:

[http://www.salute.gov.it/imgs/C\\_17\\_pubblicazioni\\_1514\\_allegato.pdf](http://www.salute.gov.it/imgs/C_17_pubblicazioni_1514_allegato.pdf)

### **Order of food technologists**

"**Igiene Alimenti**", the official magazine of the Order of Food Technologists, published a special dossier in September 2015, written by Massimo Artorige Giubilesi and Ania Venanzio, which contains all the data on the effectiveness of ozone in air sanitization, water, food and all environments.

<https://giubilesiassociati.com/lozono-un-disinfettante-efficace-potente-economico-2/>

Dr. Maria Manuela Russo, vice-president of the Order of Food Technologists Campania and Lazio, interviewed by Andrea Febo on "Il Gambero Rosso" (April 24, 2020), recalled that there is a national and international documentation relating to the sanitation of the environments that confirms the virucidal and bactericidal function of ozone.

<https://www.gamberorosso.it/notizie/fase-2-nella-ristorazione-lozono-e-unalternativa-valida-al-plexiglass/>

### **World Health Organization (WHO)**

Ozone is the most efficient disinfectant: WHO (World Health Organization) supports it in a document in which it analyzes the best methods for sanitizing water.

[https://www.orbisphera.org/backoffice/Multimedia/Content/Disinfectants\\_and\\_Disinfection.pdf](https://www.orbisphera.org/backoffice/Multimedia/Content/Disinfectants_and_Disinfection.pdf)

### **"The Journal of Science and Medicine"**

The following study has consulted all written and published research on the topic of sanitization with ozone, demonstrating that an adequate concentration of ozone used for a specific period of time is able to obtain viral inactivation in the various environments with an efficacy ranging from 95 % to 99%.

The Journal of Science and Medicine, Vol 2 No 1 (2020): "Ozone Gas: Scientific Justification and Practical Guidelines for Improvised Disinfection using Consumer-Grade Ozone Generators and Plastic Storage Boxes".

<https://www.josam.org/josam/article/view/35>

## **TESTIMONIES OF DOCTORS WHO ARE PRACTICING OZONE IN HOSPITALS**

### **Hospitals of Foggia**

Prof. Gilda Cinnella, director of Anesthesia and Resuscitation of the "Ospedali Riuniti":

<https://www.lagazzettadelmezzogiorno.it/news/foggia/1225783/coronavirus-dal-riuniti-di-foggia-la-sperimentazione-lozonoterapia-efficace-sui-malati-gravi.html>

## **Atri hospital**

Dr. Enrico Marini, head of the Medicine department of the San Salvatore di Atri Hospital:

<https://www.ilcentro.it/teramo/guarito-il-paziente-curato-con-l-ozono-1.2407184>

## **Vaio / Fidenza Hospital, Parma Local Health Authority**

Dr. Luca Marziani, medical director of the Complex Operative Unit of Anesthesia, Resuscitation, Hyperbaric Oxygen Therapy and Antalgic Therapy of the Hospital of Vaio / Fidenza - ASL of Parma:

[https://www.orbisphera.org/Pages/PrimoPiano/2172/L%e2%80%99ossigeno-ozonoterapia\\_%c3%a8\\_un\\_valido\\_strumento\\_soprattutto\\_se\\_utilizzato\\_in\\_fase\\_precoc\\_e\\_di\\_malattia](https://www.orbisphera.org/Pages/PrimoPiano/2172/L%e2%80%99ossigeno-ozonoterapia_%c3%a8_un_valido_strumento_soprattutto_se_utilizzato_in_fase_precoc_e_di_malattia)

## **Mauriziano Hospital of Turin**

The management of Covid patients undergoing oxygen ozone therapy with the SIOOT treatment protocol is entrusted to Dr. Stefania Marengo, internist, and to dr. Piermarco Babando, dentist and ozone therapist of the SIOOT (Italian Oxygen Ozone Therapy Society):

<https://www.lastampa.it/torino/2020/05/21/news/in-condizioni-disperate-per-il-coronavirsu-salvato-con-l-ossigeno-ozono-terapia-1.38871235>

## **Udine hospital**

Dr Amato De Monte, director of the Department of Anesthesia and Resuscitation of the Central Friuli University Health Company, together with Carlo Tascini, who heads the Infectious Diseases Clinic, and other colleagues, treated 36 Covid patients with oxygen ozone; of these, 35 managed to avoid hospitalization in intensive care with ventilation:

[https://www.repubblica.it/salute/medicina-e-ricerca/2020/04/06/news/coronavirus\\_l\\_ozonoterapia\\_evita\\_la\\_terapia\\_intensiva-253290022/](https://www.repubblica.it/salute/medicina-e-ricerca/2020/04/06/news/coronavirus_l_ozonoterapia_evita_la_terapia_intensiva-253290022/)

## **TESTIMONIES OF PEOPLE SAVED BY OZONE**

**Mauriziano Torino, 76 year-old dying man saved from oxygen ozone**

Oxygen-ozone therapy against coronavirus. So, in recent days, the doctors of the Mauritian hospital in Turin saved Marco Maranzani, 76, suffering from Covid-19 when his conditions were now considered desperate ...

[https://torino.corriere.it/salute/20\\_maggio\\_21/coronavirus-76enne-salvato-l-ossigeno-ozono-terapia-sue-condizioni-erano-disperata-f0966e46-9b55-11ea-b206-e08ec5340715.shtml](https://torino.corriere.it/salute/20_maggio_21/coronavirus-76enne-salvato-l-ossigeno-ozono-terapia-sue-condizioni-erano-disperata-f0966e46-9b55-11ea-b206-e08ec5340715.shtml)

### **San Salvatore Hospital, Atri**

Dr Emidio Braca 67 years old, general practitioner (general medicine) from Roseto degli Abruzzi (Teramo). Affected by interstitial pneumonia, admitted to the Covid ward of the Hospital of Atri (Teramo), he was saved thanks to the use of oxygen ozone therapy.

In intensive care saved from oxygen, ozone therapy. Raiuno "live life":

<https://www.raisplay.it/video/2020/04/storie-di-lotta-per-la-vita-91f0e5ba-004d-4133-a4e7-432bfac3c39d.html>

<https://www.tgroseto.it/2020/04/roseto-dott-emidio-braca-parla-su-rai-1-della-vittoria-sul-coronavirus/>

### **San Leopoldo Mandic Hospital Unit, Merate**

Sergio Maccarinelli told the story of his brother Angelo, who was intubated and was dying, then with oxygen ozone therapy ... (the story was reported by many newspapers, web newspapers, social networks, etc.).

<http://www.comune.torino.it/pass/salute/2020/04/23/mio-fratello-stava-morendo-lossigeno-ozono-lo-ha-salvato/>

### **Como. Honorable Claudio Pedrazzini, treated by prof. Marianno Franzini**

The story of Claudio Pedrazzini, the first Italian deputy hit by the virus and then cured thanks to oxygen ozone therapy, has been told by many newspapers (including "Tuttosport") websites, social networks, etc. We only mention the Lodi newspaper:

<https://www.ilcittadino.it/cronaca/2020/04/15/pedrazzini-di-cambiamo-la-cura-ossigeno-ozono-mi-ha-guarito-dal-virus/qwETTBCSQX6cjG8PNZ4zx3/index.html>

## **Santa Maria della Misericordia Hospital, Udine**

The councilor of Lignano Sabbiadoro, Paolo Ciubej, was treated and cured with oxygen ozone at the Santa Maria della Misericordia hospital in Udine:

<https://www.telefriuli.it/cronaca/guarito-covid-19-cura-ozono-terapia-udine-assessore-paolo-ciubej-lignano-sabbiadoro/2/205688/art/>

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