

Q&A about the SentriO Oxy™ Mask System



A. What's special about the SentriO Oxy?

It's a newly available breakthrough oxygenation mask system with FDA clearance (shown upper left) that provides ultra-high oxygenation on low-flow oxygen. It can be used in a wide range of settings from home to long-term care facility, to hospital to ICU. When used in a home setting, the oxygen source can be an oxygen generator, like that shown in upper left.

B. Why is SentriO Oxy the oxygenation device of choice for COVID-19?

COVID-19 is an infectious respiratory disease unlike any other previously encountered:

1. It is highly contagious, and the viral pathogen is mutation prone
2. It has a long asymptomatic incubation period of about two weeks, thereby enhancing silent spread and evading early detection and effective contact tracing.
3. During the incubation period, extreme hypoxia -- with shockingly low oxygen saturation in the 70's to 80's (previously deemed incompatible with life) -- results in severe damage to lungs, heart, liver, brain and kidneys. Sudden, fulminant downhill course is common by the time patient becomes symptomatic and seeks help.

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safety is crucial to preventing the serious damage to vital organs that often lead to crippling of health, if not death.

4. Ventilators are a group of costly and sophisticated invasive medical device that deliver forced ventilation. Most physicians, except for anesthesiologist, intensivist and pulmonologist, are not familiar with its use. Aside from requiring intravenous sedatives and skeletal paralytic drugs to keep intubated patients from fighting the ventilator, the forced ventilation from the machine is traumatic for the already weakened and inflamed lungs, leading to further damages. Unsurprisingly, the majority of patients put on ventilators die.
5. Alternatives to ventilators range from the common nasal cannula (providing only 25-30% oxygen concentration) to face mask (40%), non-rebreathing mask (50%), helmet ventilator (60%) HFNC (80-90%) to ventilator (90-100%). The last three require oxygen flow in the-60 LPM (liters per minute) range which requires special facilities and availability of 86,400 liters of oxygen per patient per day. Such high-flow oxygen requirement is totally impractical for most nations which have a limited oxygen supply.
6. The cost of the COVID-19 pandemic is projected by Harvard economists to cost the United States \$16 trillion, \$8.5 trillion of which is needed to treat loss of health after survival. This is an unaffordable cost even for the U.S., let alone other nations. 27-33% of those who recover from COVID develop “long-haul COVID” requiring costly treatment and rehabilitation. While the actual economic aftermath of the COVID pandemic will vary by nation in dollar amount, its devastating impact will be universally crushing. It is therefore CRITICAL for all nations to spend the money prophylactically to PREVENT the complications of COVID hypoxia. Every dollar spent on the SentiO Oxy will save tens of thousands of dollars in rehabilitation costs.
7. Prevention of loss of lives and health is paramount for preservation of the human resources that are essential for economic recovery of any nation.
8. The SentiO Oxy™ mask system is an economical and effective new solution which is so simple and easy to use that even family members or the patients themselves can apply. It is newly available starting June 2021.

Patients breathe on their own, in comfort and are protected with a wide margin of oxygen safety without fear of running out of oxygen and engage in the expensive and perpetual cycle of scouring for the next tank of oxygen every 6-12 hours or so. It is an FDA-cleared device that works in conjunction with an oxygen generator at home or any wall-mounted flow regulator at a healthcare facility.

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9. Aside from their game-changing importance in treating patients acutely infected with COVID, their stockpiling as part of any nation's strategic medical reserve will be instrumental in preventing the widespread loss of life that has been witnessed across the globe.

C. What will SentiO Oxy enable nations fighting COVID-19 to do?

To save lives, reduce health loss and ready nations with limited healthcare infrastructure to weather the next outbreak of infectious respiratory epidemic by stockpiling an adequate supply of oxygenating mask systems and oxygen generators.

D. How is SentiO Oxy superior to traditional methods of oxygenation?

By pairing the most effective non-invasive oxygenation mask system in the world with heavy-duty 10L oxygen generators, we economically unshackle developing nations from the wasteful and ineffective burden of relying on oxygen tanks. The transformative impact is comparable to providing running water via plumbing versus a bucket brigade with badly leaking buckets. Except millions of lives are at stake.

Each oxygen generator costs over \$1200 which is less than 10% of the average cost of a ventilator at over \$14,000. While the initial cash outlay for the heavy-duty 10L oxygen generators is considerable, the equipment is very durable and worthwhile as part of the national strategic reserve. It is an investment no nation can afford to be without.

SentiO is usable on person ranging from children to adults (both male and female)

The SentiO Oxy is compatible with any oxygen source, whether by flow regulator from a tank, from the wall source of a hospital or from an oxygen generator (powered by electricity). The oxygen generator can produce an unlimited amount of oxygen up to 96% purity indefinitely. It's zeolite catalytic molecular sieve has a lifespan of up to 20 years.

E. About HealOMed Scientific:

HealOMed is founded by Dr. Edward Lin, a Yale-trained board-certified anesthesiologist and inventor with multiple patented medical innovations. Dr. Lin was formerly Henry Woodburn Fellow at Roswell Park Cancer Institute, the highest honor of the Graduate School of Biomedical Sciences at the State University of New York at Buffalo. Team members include professionals with decades of experience in operations, quality assurance, manufacturing and regulatory affairs. At a time when there is a global shortage of the zeolite material needed inside molecular filter that enable oxygen generator to function properly, Dr. Lin's team has secured a quality source and has the capacity to deliver up to 20,000 units of CFDA and CE- certified generators per month from ISO 13485-certified facilities, an output level that is likely unmatched.

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