Introducing the new Hi-Ox.

THE ONLY OXYGEN MASK PROVEN TO DELIVER >80% OXYGEN, EVEN AT 8 LPM

The Hi-Ox delivers solutions for treating and transporting patients with high-flow oxygen needs:

- **Proven solution** delivers higher FiO2's than ANY mask, at ANY flow. Proven to deliver >80% oxygen, even at 8 LPM.

- **Delivering >90% oxygen** to severely hypoxic patients is simplified by the design and performance of the Hi-Ox.

- **Transporting patients** who require very high flows is always a problem when typical E-cylinder regulators only go to 10-15 LPM. The Hi-Ox solves that problem.

- **Discharging high oxygen flow dependent patients.** The Hi-Ox solution enables patients requiring high flow oxygen to be discharged sooner to home or hospice centers, making them treatable with oxygen concentrators.

The simple fact is that conventional oxygen masks just can't deliver high FiO2s to hypoxic patients. The Hi-Ox was developed to solve that problem.

The Hi-Ox delivers higher FiO2s than ANY mask, at ANY flow. It’s the only disposable mask proven to deliver >80% oxygen, even at 8 LPM.

Not a conventional mask, the Hi-Ox is a unique non-breathing, sequential dilution mask that delivers high FiO2s at one-half to one-third the flow of other devices.

Finally, a simple, low-cost solution for hospitals, and field applications where oxygen resources are limited by flow requirements or tanks.

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**Hi-Ox versus Non-Rebreathing Mask Performance Data**

Finally, a mask with no limits

**THE HI-OX — NEW TECHNOLOGY OXYGEN MASK FOR PATIENTS REQUIRING HIGH OXYGEN CONCENTRATIONS**

The limitations of conventional oxygen delivery

Conventional oxygen masks just can’t deliver a high FiO2 to hypoxic patients. Just sitting at rest, most adults have a peak inspiratory flow of 30 liters per minute. Add a little exertion from dyspnea where the patient’s flow increases, and the limitations of these masks become even more significant.

Unless the flow from the oxygen mask meets the patient’s inspiratory flow, 21% room air leaking in from around mask and in through the mask’s exhalation holes during inspiration, will dilute the 100% oxygen and the patient won’t get the >80% oxygen you want to deliver.

**Plugging the holes**

The Hi-Ox starts with a soft vinyl facemask that seals to the face and has no holes in the mask for exhalation that would allow room air to enter. Dilution of the inspired oxygen is also limited by a better face seal assured by dual head straps (above and below the ears) and a more anatomic foam lined bridge for the nose that moves the mask down from around the eyes.

**Changing the delivery with sequential dilution**

Gas flow is controlled by three low resistance valves. The 3-valve system separates the reservoir bag inspired oxygen from the exhalation path to the room. The Hi-Ox’s third sequential dilution valve opens only once the reservoir bag is emptied, so that room air is sequentially added at the end of the inspired breath. Taking advantage of the patient’s approximate 150 ml anatomic deadspace, which does not participate in gas exchange, the oxygen concentration of that gas in the airways becomes immaterial to the delivered FiO2 to the alveoli. This means that high concentrations of oxygen can be delivered at relatively lower flow rates.

**Aerosol Delivery Feature**

Now you can also deliver aerosolized drugs while maintaining high inspired oxygen concentrations. The Aerosol Adapter for the Hi-Ox enables use of most small volume nebulizers to deliver aerosols right to the breathing path of your patients without going through valves or baffles that reduce aerosol delivery.