



# Moderate Levels of Oxygenation during the Late Stage of Earth’s Great Oxidation Event

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## INTRODUCTION

Oxygen is a life-saving essential medicine that has no replacement. Healthcare workers use oxygen to treat respiratory diseases such as COVID-19 and pneumonia. Oxygen is also essential in surgery and trauma. Vulnerable groups such as the elderly, pregnant women and newborns require regular oxygen therapy. Oxygen is an essential drug, but it is a complex product. Must be manufactured in a medical device or industrial facility. Oxygen also requires the entire system to reach the patient safely. Due to its complexity, access to oxygen faces many challenges. Availability, quality, affordability, management, supply, staffing and safety. Faced with these challenges, WHO is continuously developing resources and tools to address them. The air around us contains about 21% oxygen. When you breathe in, this oxygen goes directly to your alveoli. The alveoli are lined with capillaries that allow oxygen to enter the bloodstream and bathe all the cells in the body. Conversely, carbon dioxide is released from the blood into the lungs. In the bloodstream, most oxygen binds to hemoglobin in red blood cells, acting as a carrier. Oxygen is then released from hemoglobin and enters the cells.

## DESCRIPTION

Carbon dioxide, a byproduct of the respiratory process, is then captured and returned to the lungs for exhalation. When there is insufficient oxygen available in the tissues, the body becomes oxygen deficient (or hypoxic). Even if there is enough oxygen in the air, the body will not be able to absorb it properly. Oxygen is taken up from the lungs by hemoglobin and transported to all the cells of the body. It is also highly recommended to breathe through the nose as it has structures that clean and

filter the air before it reaches the lungs. Adequate levels of oxygen are necessary for an energetic life. If your oxygen levels drop, oxygen cylinders can be used to raise them. The trachea is the second organ that carries air into the lungs. The lungs are also important organs that help absorb oxygen into the bloodstream. Oxygen is carried throughout the body from the lungs. The diaphragm is her fourth organ that is important for the distribution of oxygen in the human body.

## CONCLUSION

Once in the lungs, air travels down tubes called bronchi and into smaller, branching tubes called bronchioles. Bronchioles push air into tiny air sacs known as alveoli, where oxygen is extracted from the air and directed into tiny blood vessels called capillaries. This is how oxygen reaches every cell in the body. Industrial oxygen is not intended for human use. Medical grade oxygen reaching the patient must be tested to meet approved specifications for identity, purity and content. In addition, good practices for manufacturing, storing, and distributing medical oxygen must be followed. Uncertainties related to the purity and content of industrial oxygen, the potential for particulate and microbial contamination, and manufacturing, storage, and distribution processes that may not be properly planned, operated, and controlled, may pose an unacceptable risk to the patient.

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## CONFLICT OF INTEREST

The authors declare no conflict of interest.

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