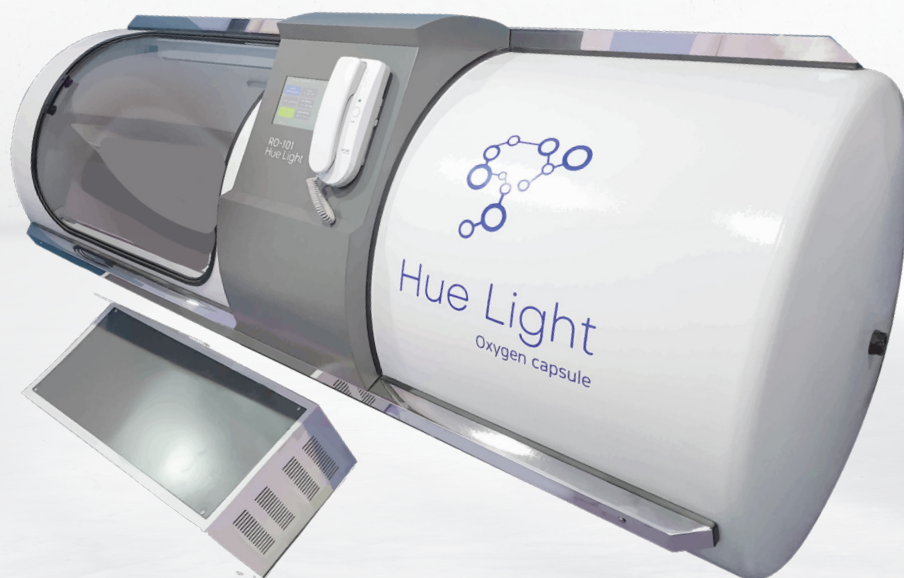




RO-101 Hyperbaric Oxygen Capsule



Hyperbaric Oxygen Capsule

"Soluble Oxygen" is an effective treatment for peripheral circulatory disorders and infected wound.

Over 40% of concentrated O₂ is absorbed inside the high-pressure Oxygen chamber. This treatment method increases the oxygen saturation level inside the cells and the blood vessels. It was originally applied for partial disorders including decompression sickness (DCS), carbon monoxide-poisoning; moreover, recently clinical studies are backing evidences that it can also be helpful for Parkinson's and Alzheimer's.



Specification

Device: **Hyperbaric Oxygen Capsule**

Model: **RO-101**

Maximum pressure: **Max 1.5atm**

Oxygen concentration: **<23.5%**

Compressing speed: **Min 80kPa (0.8bar)/min to Max 300kPa/min**

Compressing speed: **40kPa to 20kPa, 60sec (+/- 20 sec)**

Power: **726VA; 60Hz 110-240V**

Weight: **150 kg (capsule); 75kg (control box)**

Dimension: **94cm (W) x 220cm (L) x 100cm (H) (capsule) 40cm(w)x120cm(L)x32cm(H) (cb)**

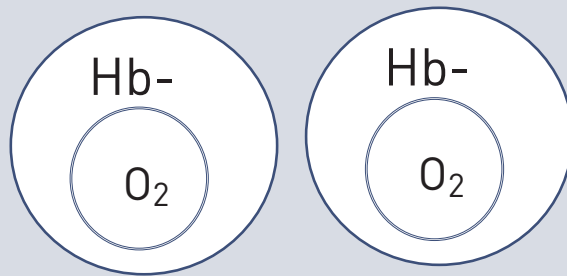
Other features: **Interphone, Emergency features**

Indoor setting: **5-45 C; Low humidity**



Mechanism

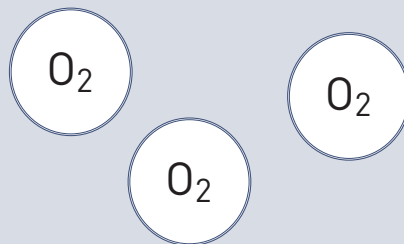
Bounded Oxygen



Avg. 68-99% in the bloodstream

Big in size– hard to enter the capillary to the cells

Dissolved Oxygen



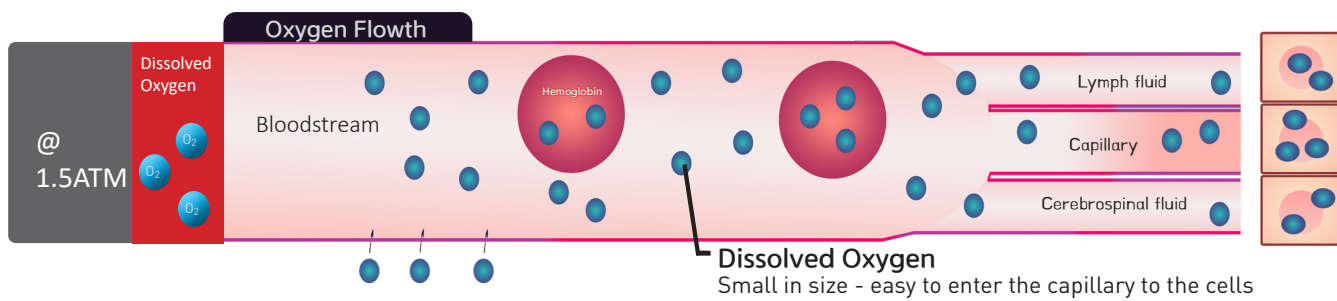
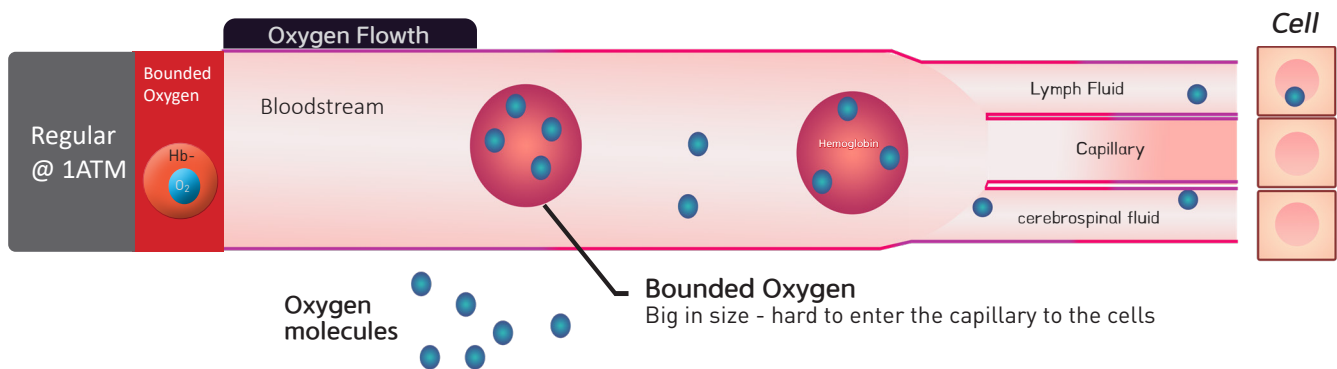
Avg 1-2% in the bloodstream

Average 1-2% in the bloodstream

Small in size – easy to enter the capillary to the cells

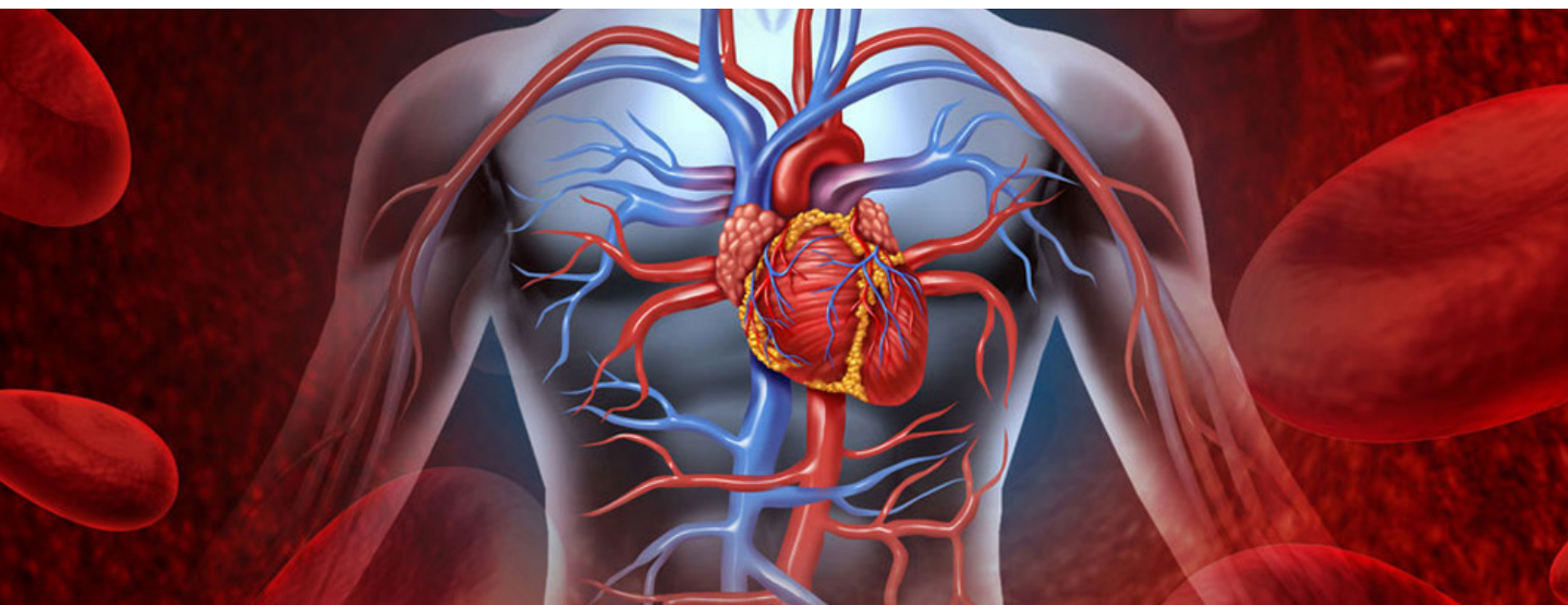
Oxygen absorption of the cells

Before and after the hyperbaric oxygen therapy



Effects

- » *Improve stagnant hypoxic state of the cells*
- » *Accelerate wound healing*
- » *Sterilizing effect by leukocytes a.k.a. white blood cells: applicable states include bacterial infection, gas gangrene, necrotizing fascitis, osteomyelitis, and etc.*
- » *Expedite Nitrogen gas excretion within the body*



01

Clinical applications and contemporary trends of hyperbaric oxygen therapy in Korea

You, Y. H., Kim, H., Kim, H., Choi, S., & Kim, G. (2014)

Through theoretical treatment mechanisms and several significant clinical studies, it is evident that hyperbaric oxygen therapy is an effective treatment for various diseases. Therefore, it is necessary to actively use hyperbaric oxygen therapy for diseases that are adaptable to it.

02

A case report of a patient with ADHD and learning disorders treated with hyperbaric oxygen therapy and the oriental medical therapy

Lee, S., Lee, R., Lee, S., & Park, S. (2013)

The improvement of the patient's concentration, communication, motion, confidence, and sleep conditions were observed. These therapies including the hyperbaric oxygen therapy are efficient for the treatment of ADHD and learning

03

Influence of the application to hyperbaric oxygen therapy and physical therapy on chronic low back pain in elderly

Yoon, J., Jang, M., Hyun, S., & Yoon, B. (2011)

Application of HBOT in chronic low back pain could be beneficial for reducing pain and could help in functional recovery.

04

A case-control study on the effect of hyperbaric oxygen therapy on cerebral infarction patients

Oh, M., Kim, D., Yim, H., & Shin, H. (2008)

The results suggest that hyperbaric oxygen therapy (HBOT) could be a useful medical treatment to treat cerebral infarction. Further studies are needed on more cases to make sure that hyperbaric oxygen therapy (HBOT) is surely effective for cerebral infarction.



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