MACY-PAN®



HARD TYPE HYPERBARIC
OXYGEN CHAMBER

HP2202

2.0ATA

Shanghai Baobang Medical Equipment Co.,Ltd
Shanghai, China

Home
School
Sports Team
Plateau Area
Hotel
Health Center
Office
Sports Venues
Beauty Spa

When do you need
Hyperbaric Chamber?


Physical fatigue

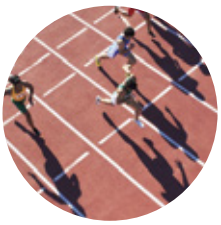

Backache


Mental stressed


Body injury


Sports recovery


Hangover


After competitions


Before drinking


Skin aging


Insomnia



OXYGEN ENERGY OF LIFE

Oxygen is an indispensable element to sustain life activities.
The nature of breathing is actually a process of providing oxygen for body. Life will end without oxygen.

Oxygen is the key substance to keep upgrade body immune system.
Oxygen can guarantee the operation of immune system under full-oxygen circumstances when nutrients are converted into energy through cells then supplied to organs.

Oxygen plays a key role in body metabolism which determines metabolic speed and quality.

BENEFITS OF OXYGEN SUPPLEMENT

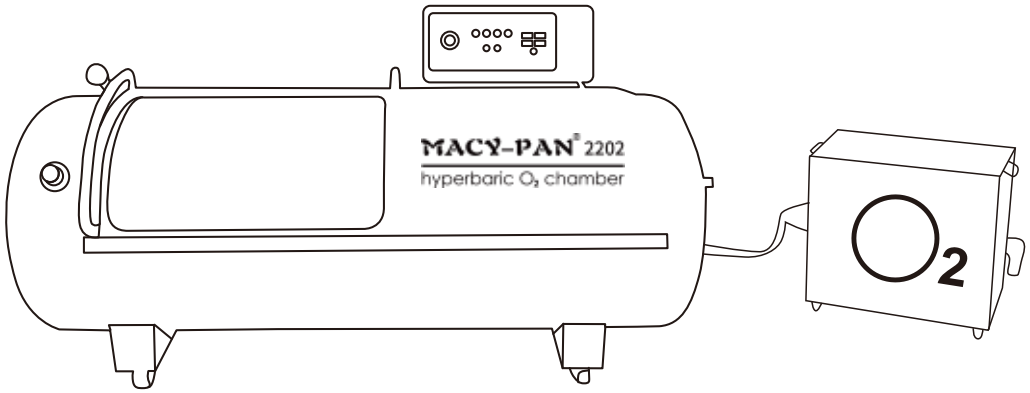
Generally, there are two categories of oxygen supplement: oxygen therapy treatment and oxygen health care. And we all know that prevention is more overweight than treatment."Tissue and cells will not combined without enough oxygen, which not only the fundamental cause of illness and cancer, but also the reason of the generation of degenerative disease constitution. Hypoxia is one of the clear evidence of immune and degenerative illness. And increasing the oxygenation will enhance the level of health" Otto Warburg said, who has achieved the Nobel Prize twice in Physiology or Medicine .

Oxygen affects all body cells. There will be illness if cells are lacking of nutrition or oxygen too long. Therefore, oxygen supplement is just like the supplement of vitamin, which will nurture our cells well and become a good way to prevent illness and maintain health.



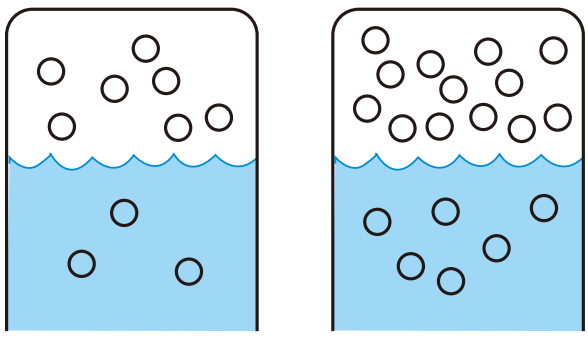
Working Principle
Hyperbaric Chamber

Hyperbaric Chamber is combined with one chamber cabin and a motor system machine. Motor system machine is to transport air and high purity oxygen into cabin to realize chamber pressure increasing. Then automatic valves on chamber cabin will control the pressure stable on working pressure. The pressure level is about 1.3–1.5ATA(30–50Kpa). We recommend 60 minutes for each session.



Henry's Law:

"The amount of dissolved gas in a liquid is proportional to Its partial pressure above the liquid."



Circle: Gas
Blue : Liquid

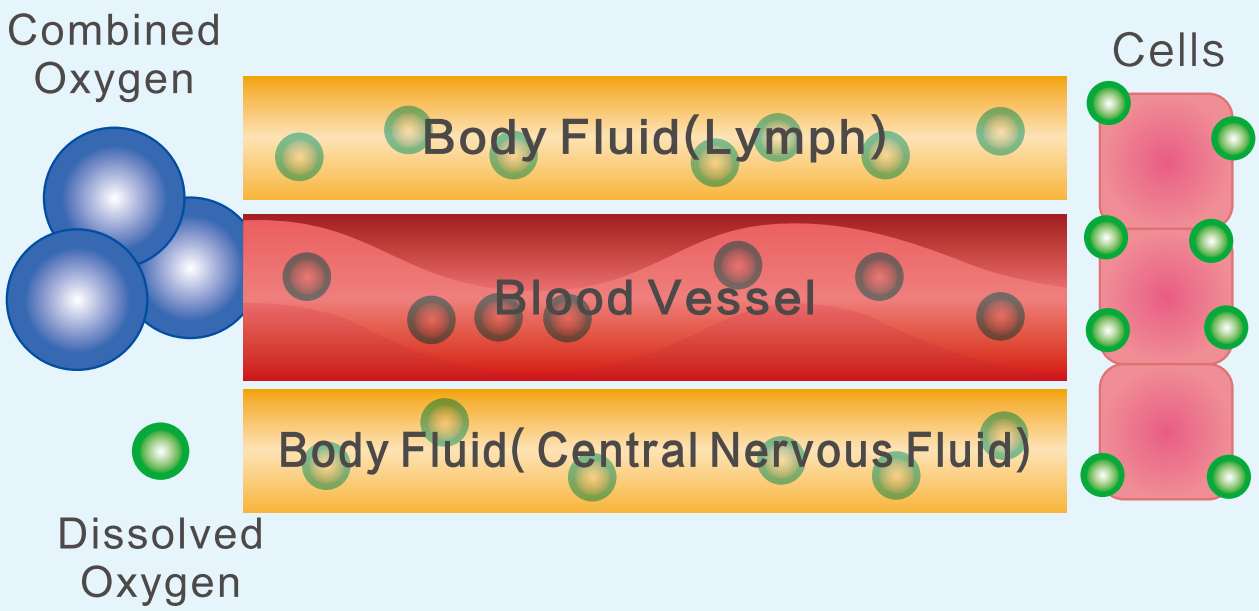
The difference between hyperbaric oxygen and atmospheric oxygen dissolved oxygen in the body

Dissolved oxygen and pressure

Pressure		Theoretical Dissolved Oxygen(vol%)	
Atmosphere	mmHg	Inhaling air	Inhaling 100% oxygen
1	760	0.32	2.09
1.5	1140	0.61	3.26
2	1520	0.81	4.44
2.36	1794	0.99	5.29
2.82	2143	1.17	6.37
3	2280	1.31	6.80
4	3040	1.80	
5	3800	2.30	

Quoted from Prof. Liu Qingle Online Forum
"Hyperbaric Oxygen Therapy for Brain Injury"

Hyperbaric Oxygen Therapy or Atmospheric Oxygen Therapy?



Oxygen transport can be classified into “combined oxygen and dissolved oxygen”. When entering blood, most oxygen will be combined with hemoglobin, then become combined oxygen. Another part of oxygen will be dissolved in plasma directly and physically, then become dissolved oxygen. Therefore, combined oxygen is difficult to pass the narrow vascular wall, while dissolved oxygen is small and can greatly dissolved in blood and fluid under hyperbaric circumstances.

Customers casesfrom 123 countries



Serbia World
Judo Champion



Li Dongna, Captain of the Chinese
women football team



Steve Aoki



Dana White



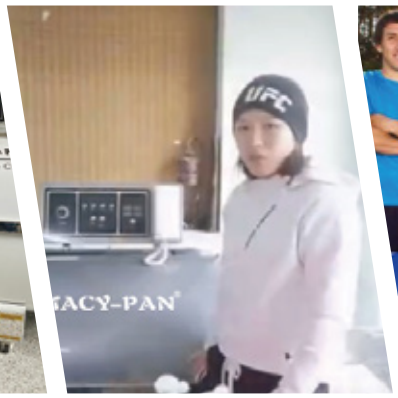
Matjaz Belsak



Alan Douglas
Borges de Carvalho



T.J. Dillashaw



Zhang Weili



Chilean
Football Team

Promote postoperative recovery and wound healing

Wounds need oxygen and nutrients to heal. During hyperbaric oxygen therapy, the increase in oxygen pressure can increase and improve the oxygen supply in the blood of damaged tissues. It can reduce tissue edema, promote angiogenesis, stimulate cells, and improve the immune system by enhancing white blood cells. It promotes the formation of new blood vessels and the synthesis of collagen, accelerating the healing of chronic wounds, burns, and postoperative wounds. At the same time, hyperbaric oxygen reduces the release of inflammatory mediators and inhibits excessive inflammatory responses. It enhances the bactericidal ability of white blood cells and reduces the risk of infection.

Anaerobic bacteria have difficulty surviving in a hyperbaric oxygen environment, making it particularly suitable for the treatment of infected wounds or necrotizing soft tissue infections. It stimulates the bone marrow to release stem cells and promotes the migration of stem cells to the wound area. Stem cells differentiate into various cell types and participate in tissue repair and regeneration.



Sudden deafness

Hyperbaric oxygen can significantly increase the partial pressure of oxygen in the blood and tissue cells and the oxygen diffusion radius in tissues. It improves the inner ear circulation, reduces inner ear edema and ischemic - hypoxic damage, accelerates the repair of inner ear hair cells and vestibular nerve fibers. It can also reduce platelet aggregation, decrease blood viscosity, and inhibit the inflammatory response.

The consensus of the 10th European Congress of Hyperbaric Medicine and the American Indications for Hyperbaric Oxygen Therapy (14th edition) both recommend hyperbaric oxygen for the treatment of sudden deafness.

Anti - aging of whole - body cells and organs

Age - related diseases and systemic degenerative diseases have increasingly attracted worldwide attention. Hyperbaric oxygen therapy helps combat degenerative diseases by promoting the regeneration of tissues and blood vessels.

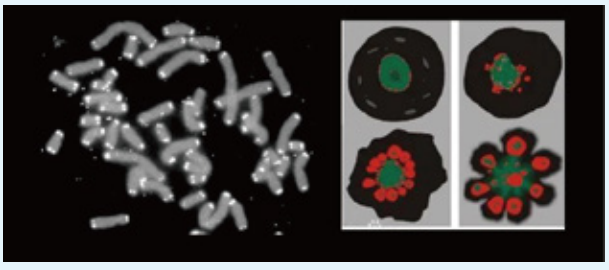


Cells in the human body undergo a balance process of growth and death. Apoptosis is a self - regulated cell death process within the cell. There are genes in the cell that promote and inhibit apoptosis, and their balance determines the rate of aging. If the activity of pro - apoptotic genes is too high, it will lead to aging. The apoptosis of young people's cells is slower, making them look young and beautiful. However, as people age, apoptosis gradually dominates, leading to aging.

Hyperbaric oxygen therapy can stimulate angiogenesis in parts of the body where blood circulation is blocked. Some doctors use HBOT to assist in the treatment of coronary heart disease. Some doctors use it to help treat coronary heart disease, macular degeneration, Parkinson's disease, Alzheimer's disease, osteoarthritis, and immune - related diseases. In addition, hyperbaric oxygen therapy can also promote the activation of collagen, helping to combat signs of aging, including reducing skin damage and maintaining skin elasticity. Clinical studies have shown that HBOT can provide cellular assistance to all organs in the body, promote health, and thus treat age - related degenerative diseases. It provides cellular assistance to all organs of the body, thereby promoting health and beauty.

The essence of human aging is the aging of genes,which manifests as the aging of cells.

The image on the right shows human chromosomes. Each pair of chromosomes appears as individual strands. At the top of each chromosome, there are some bright spots, which are medically referred to as "telomeres." Telomeres act as a "cap" that protects the chromosome. If this "cap" is lost, the chromosome will continuously shorten, leading to the loss of genes.



From a genetic perspective, this process represents human aging. On the right side of the image, you can see a cell, with the green area in the center being the cell nucleus. If its telomeres are lost, the chromosomes will continue to shorten, and red "apoptotic bodies" will form around the nucleus. As the number of "apoptotic bodies" increases, the cell's morphology changes accordingly. Eventually, the cell will enter an abnormal state. This entire process is called "apoptosis," or programmed cell death.

Improve cardiovascular and cerebrovascular diseases, myocardial infarction, cerebral infarction, and brain trauma

Improve tissue hypoxia, provide sufficient oxygen to the heart and brain tissues, improve cell metabolism, and reduce ischemia - reperfusion injury. Hyperbaric oxygen stimulates the release of vascular endothelial growth factor (VEGF), promoting the formation of new blood vessels.

- It improves the blood supply in the wound area, providing more oxygen and nutrients for tissue repair. At the same time, it promotes the proliferation and differentiation of neural stem cells, enhancing the survival and functional recovery of neurons.
- It has a protective and reparative effect on neurological diseases such as cerebral infarction and brain trauma.
- It inhibits the activity of apoptosis - related proteins (such as caspase - 3), reducing apoptosis.
- It protects the cells of the heart and brain tissues, reducing cell death caused by ischemia - reperfusion.
- It enhances the energy metabolism of mitochondria and improves the efficiency of ATP production.
- It provides more energy for heart and brain cells to support their normal functions.
- It stimulates the formation and opening of collateral blood vessels in the ischemic area, improving the blood supply in the ischemic area and reducing the infarct area.

Sports recovery



In the sports field, the therapeutic effects of hyperbaric oxygen therapy are obvious. Hyperbaric oxygen can quickly improve the hypoxic state, rapidly restore physical fitness, relieve delayed - onset muscle soreness, accelerate metabolism, and accelerate the metabolic decomposition of lactic acid and ammonia. It can also help with nervous system repair, clear the mind before training and competitions, and improve sports performance.

Moreover, it can assist skeletal muscle, myocardium, and the brain to restore normal oxidative metabolism, accelerate the removal of harmful metabolites, and reduce muscle fatigue and damage.

SPECIFICATIONS

Name	Pressure	Pressure rising speed	Material
Hard Hyperbaric Chamber	2.0ATA(100kPa)	About 10 minutes	Stainless Steel

Composition

- (1) Chamber Cabin; (2) Motor system (air and oxygen machine);
- (3) Mattress; (4) Pillow; (5) Air/Oxygen tubes

Optional Components

- Air Conditioning

Application

- one people each time

Name	Size	Weight (with pulley)	Power
HP2202-75	Diameter750*2200mm ±10	150kg±3kg	1500W
HP2202-85	Diameter850*2200mm ±10	160kg±3kg	
HP2202-90	Diameter900*2200mm ±10	170kg±3kg	
Air System Machine	760*420*720mm	80kg±3kg	
Air Conditioning	580*450*550mm	45kg±3kg	800W

Chamber Performance

- Time setting: 60–120minutes or no limits, following your option.
- Interphone is available, convenient to communicate between inside and outside.
- With pulley, move easily.
- LED light and Music media are installed
- With operation system both inside and outside, convenient to use.

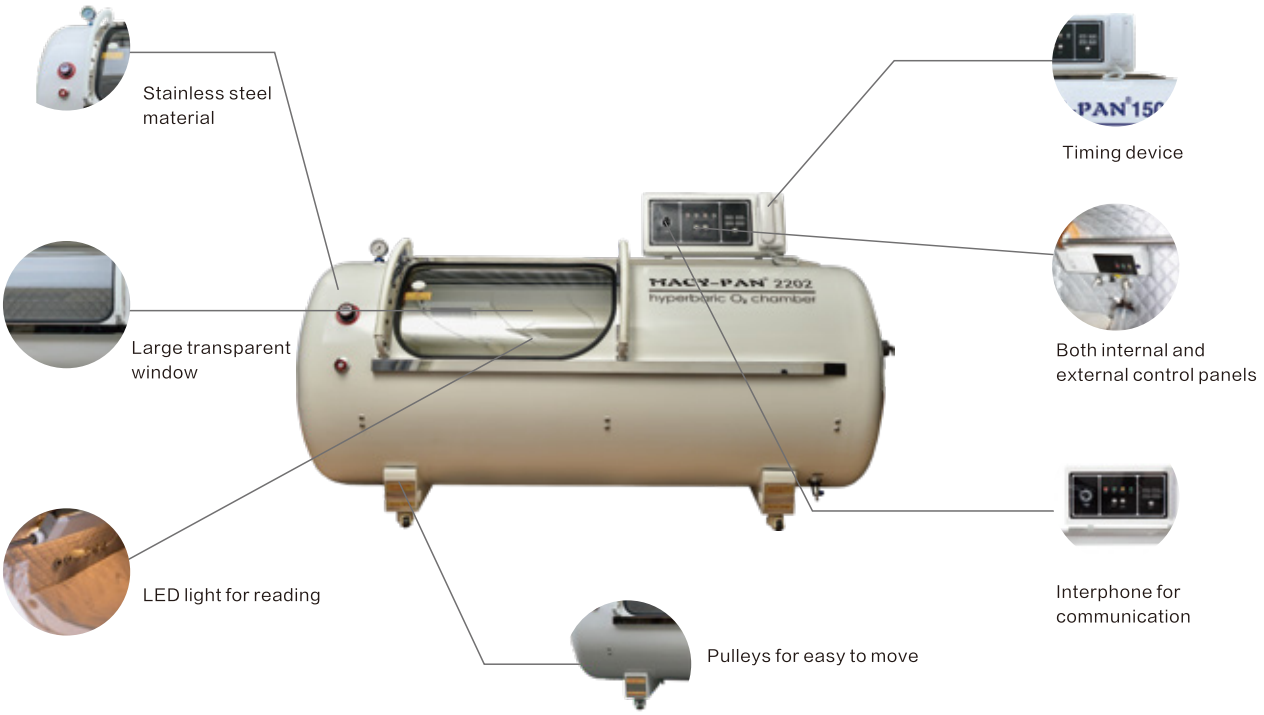
Safety Measures

- Big transparent window
- Emergency pressure relief valve
- Both internal and external pressure gauges
- The operation panel monitors the pressure and oxygen concentration inside the chamber.
- Two automatic valves to keep inside pressure constant.
- Both internal and external pressure relief valves to adjust pressure anytime
- Power–failure alarm system
- Interphone available for communication
- Circulated atmosphere constantly inside the chamber

Precautions

- Pregnant women or patients with infectious diseases,
- Drunk, bad cold or pneumothorax patients,
- Patients who need cardiac pacemaker
- Rhinitis or tympanitis patients
- Hypertension patients(over 160/100MI)
- Severe emphysema patients

HP2202



- Inside air is circulating
- Multiple safety measures
- Internal and external pressure relief valves
- 3D high stretch mattress and pillow, ergonomic design, moisture-proof and antibacterial
- Air conditioning is optional to be equipped
- Automatic and easy operation

Design is too boring?

Contact us and customize your own unique chamber



Why choose us ?



CERTIFICATIONS



IS09001



ISO13485



CE



Patent for Invention
Patent NO:ZL201010285814.6



PICC Insurance



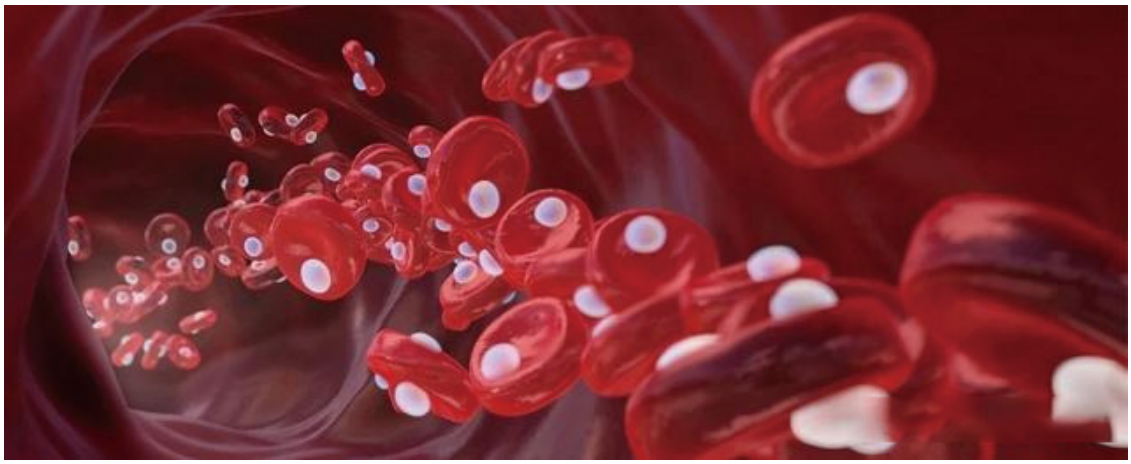
Patent for Utility Model



Industrial Design Patent
NO:ZL201030516286.1

Assist in cancer treatment

Numerous studies have proven that hyperbaric oxygen therapy can increase the oxygen concentration in plasma and raise the oxygen content in the tumor microenvironment, providing more clinical benefits for cancer treatment.



These benefits include: inhibiting tumor growth, enhancing the sensitivity of cancer cells to cancer treatment methods such as radiotherapy and chemotherapy, thus strengthening the treatment effect; reducing the side effects of radiotherapy and chemotherapy (such as myelosuppression, leukopenia, radiation encephalopathy, myelopathy, osteonecrosis, etc.); improving postoperative healing and reducing postoperative complications.



Research also indicates that the efficacy of hyperbaric oxygen therapy alone is limited. More often, hyperbaric oxygen therapy is used as an adjuvant treatment in combination with other treatment methods, such as conventional radiotherapy and chemotherapy, photodynamic therapy (for more information on photodynamic therapy, please refer to the article "What is Photodynamic Therapy (PDT)" on this official account), thermotherapy (for more information, please refer to the article "What is Thermotherapy" on this official account), and ketogenic diet.

In a study on glioma, the median survival time of patients receiving radiotherapy combined with hyperbaric oxygen therapy was 38 weeks, while that of the control group (patients receiving radiotherapy under normal atmospheric pressure) was 31 weeks. The survival rates after 18 months were 28% and 10% respectively. A clinical trial involving 320 cervical cancer patients showed that the local tumor control rate and survival rate of the radiotherapy combined with hyperbaric oxygen therapy group were significantly higher than those of the control group.



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