EMA400 Animal Hyperbaric Oxygen Chamber 0-1.5ATA for Animal Therapeutic Treatment

Our Product Introduction

Basic Information

- Place of Origin: china
- Brand Name: O2EMENG
- Certification: CE/FDA/FC/ROHS/UKCA/SGS
- Model Number: EMA400
- Minimum Order Quantity: 1PC
- Price: 10000-12000 USD
- Packaging Details: wooden packing
- Delivery Time: 15-20 working days
- Payment Terms: D/P, T/T, Western Union, MoneyGram
- Supply Ability: 100PCS

Product Specification

- Working Pressure: 0-1.5ATA (can Be Set)
- Total Weight: 450kgs
- Overall Size: 1100x800x1480mm
- Model: EMA400
- Function: Hyperbaric Oxygen Therapy
- Usage: Medical/Therapeutic
- Highlight: **1.5ata hyperbaric oxygen chamber**, **1.5ata oxygen hyperbaric chamber**, **therapeutic hyperbaric oxygen chamber**

More Images





Our Pro

Product Description

EMA400 Animal Hyperbaric Oxygen Chamber 0-1.5ATA for Animal Therapeutic Treatment

Product Description:

This particular Hyperbaric Oxygen Chamber, model EMA400, has a working pressure range of 0-1.5ATA, which can be easily set to the desired level. It is designed to be easy to use, with simple controls and a comfortable interior.

The Hyperbaric Oxygen Chamber is a large, sturdy device, with a total weight of 450kgs. It is built to last, with durable materials and a design that can withstand repeated use over time. This is important, as hyperbaric oxygen therapy is not a one-time treatment, but rather a series of sessions that may be needed over a period of weeks or months.

One of the key benefits of the Hyperbaric Oxygen Chamber is that it can help to accelerate the healing process. By increasing the amount of oxygen in the bloodstream, it can help to improve circulation, reduce inflammation, and promote the growth of new tissue.

Another benefit of the Hyperbaric Oxygen Chamber is that it can be used to treat a wide variety of conditions. These include, but are not limited to, Hydrocephalus,Braincontusior,etc.

Overall, the Hyperbaric Oxygen Chamber is a powerful and effective tool for anyone looking to improve their health and wellbeing. Whether you are dealing with a specific medical issue or simply want to boost your overall wellness, this device can help you achieve your goals.

Technical Parameters:

Model	EMA400
Function	Hyperbaric Oxygen Therapy
Usage	Medical/Therapeutic
Working pressure	0-1.5ATA (can Be Set)
Overall size	1100x800x1480mm
Total Weight	450kgs

Applications:

The Hyperbaric Oxygen Chamber is used to treat a variety of conditions, including but not limited to:

Hydrocephalus

Brain contusion

Encephalopathy

Vestibular Syndrome

Epilepsy

Spinal cord contusion

The EMA400 model can be set to a working pressure of 0-1.5ATA, which allows for a comfortable and effective treatment experience.

The Hyperbaric Oxygen Chamber is a versatile device that can be used in a variety of settings, including but not limited to:

Animal Hospitals

Home use

The compact and portable design of the EMA400 model makes it easy to transport and store, making it an ideal choice for animal who require Hyperbaric Oxygen Therapy on-the-go. Whether it's for medical or therapeutic purposes, the Hyperbaric Oxygen Chamber from O2EMENG is a reliable and effective device that can provide life-changing benefits to those who use it.

Support and Services:

Our product technical support team can help you with any questions or concerns you may have about the use and maintenance of your chamber. We also offer a range of services, including guidance on installation, training and maintenance to ensure the equipment operates safely and effectively.

If you require technical support or services for your Hyperbaric Oxygen Chamber, please do not hesitate to contact us.

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Animal Hyperbaric Chamber

Theory of Foundation - What is HBOT?

Hyperbaric Oxygen Therapy (HBOT)

In an environment higher than one bar, the process of inhaling high concentration oxygen to treat diseases is called HBOT, which can use different oxygen concentrations and pressures based on the patient's conditions.

HBOT's efficacy

① **Pressure effect**

When the pressure of bubbles in the body increases under an environment with pressure above one bar, the volume of bubbles will shrink, and the area of infarction will reduce, which is beneficial for bubbles to dissolve in the blood.

② **Vasoconstriction**

Hyperbaric oxygen has the vasoconstriction effect like a-adrenaline, reduces the local blood volume, and helps to mitigate brain edema, edema after burns or crush injuries. Although the local blood supply decreases, the amount of oxygen brought into the tissue via blood increases.

③ **Clearance**

A large amount of oxygen in the body can accelerate the clearance of other harmful gases, such as CO, dioxomethane, N2, etc.

HBOT's effect on increasing blood oxygen content of pet body

A. Increase in blood oxygen content

In HBOT, a large amount of oxygen dissolves in the blood due to the increase in pressure, leading to an increase in the amount of oxygen brought into ischemic tissue by the blood.

B. Increase in diffusion distance of blood oxygen

Generally, the average distance of the capillary network of the brain is about 60um. Under normal circumstances, the effective radius of diffusion distance of the capillary network in ectocinerea is about 30um, but it can reach 100um under hyperbaric oxygen.

In cases of inflammation, trauma or burns, tissue cells become swollen and the distance between cells and capillaries increases. Oxygen inhalation under normal pressure can not meet the oxygen supply of histiocyte, but the application of specific hyperbaric oxygen can completely solve the above hypoxia situation.

Antibacterial effect of HBOT

Antibacterial effect/Oxygen is a broad-spectrum antibiotic that not only resists anaerobic bacteria but also aerobic bacteria.

A. Anaerobic bacteria need to grow in anaerobic or low oxygen partial pressure environments, and their growth is inhibited when the oxygen partial pressure increases.

B. Aerobic and anaerobic bacteria share certain components, such as sulfyderyl (SH), which is easily oxidized into disulfide groups. Sulfyderyl is an important part of many enzymes, especially oxidoreductase. After the sulfhydryl groups of coenzyme A, lipoic acid, glutathione, succinate dehydrogenase, transaminase and other coenzymes are oxidized, the enzymes activity decrease and the bacterial metabolism is hindered.

C. HBOT promotes the bactericidal effect of leucocytes. The antibacterial effect of leucocytes depends on hydrogen peroxide, hyperoxide, superoxide and other deoxidized oxygen derived from molecular oxygen. The oxygen consumption rate of leucocytes increases significantly after swallowing bacteria.

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Various types of poisoning

CO poisoning, CO2 poisoning, H2S poisoning, cyanide poisoning, ammonia poisoning, phosgene poisoning, pesticide poisoning, chemical drug poisoning, etc.

Most poisonings can cause a decrease in the body's oxygen content, leading to systemic organ failure. Poisoning cases are common in pets in daily life. First of all, it should be clarified that HBOT is adjuvant treatment, instead of sole therapy!

It can not be simply understood as long as the poisoned is put into the HBOT chamber!

Clinical indications for HBOT

Generally speaking, HBOT may achieve good efficacy for all hypoxia and ischemia diseases, or a series of diseases caused by hypoxia and ischemia.

HBOT may also achieve good efficacy in some infectious diseases and autoimmune diseases.

HBOT is adjuvant treatment, instead of sole therapy!

Cardiovascular and cerebrovascular diseases

① Cardiopathy
② Acute stroke
③ Cerebral vascular occlusion
④ ICH
⑤ TIVH
⑥ Cerebral congestion

Urinary system diseases

① Nephritis
② Renal failure
③ Urethral infection and edema

Motor system diseases

① Postoperative complications of tendon or ligament rupture caused by crushing injury
② Chronic osteomyelitis
③ Adverse reactions to fracture healing

Neurogenic compression diseases

① Sudden deafness
② Posterior branch paralysis
③ Spinal cord injury

Integumentary system diseases

① Pyoderma
② Scaldings
③ Burns
④ Necrotizing parenchyma infection
⑤ Trauma caused by trauma
⑥ Poor wound healing

Respiratory diseases

① Pharyngitis
② Bronchopneumonia
③ Lobular pneumonia
④ Lobar pneumonia

1. General

1.1 Product introduction

Dear VIP clients, thank you for choosing the VennAid Pet HBOT Chamber!

The body of VennAid Pet HBOT Chamber adopts integrated design and full-automatic computer control with self-supported oxygenerator, which does not need external oxygen connection. The upper part is the treatment chamber made of acrylic material, with good sealing performance. It is suitable for pets of all shapes. The fully transparent chamber is designed to prevent pets from being in a dark environment, thus more convenient for disinfection and observation of pet status.

Dual control modes: Full-automatic computer control for one-button-starting, with all functions in automatic operating mode; manual control for selected starting of specific function, which is convenient, quick, safe and reliable.

The apparatus is equipped with a 7" visual touch screen, which displays the O2 concentration, CO2 concentration, temperature, humidity and pressure in the chamber in real time during operation. The treatment time is also displayed. In operation, the apparatus detects the CO2 concentration in the chamber and automatically cleans the chamber when the concentration reaches the set value. Automatic cyclic cleaning can also be controlled by a computer.

1.2 Brief description

EMA400 system includes modules:

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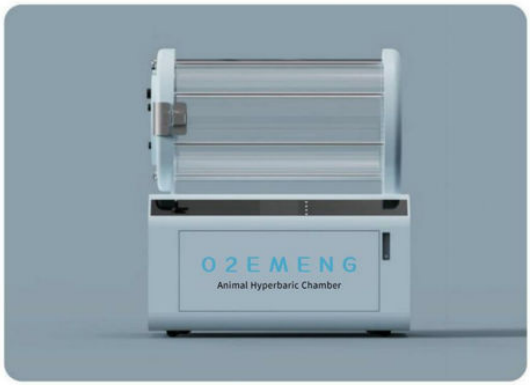
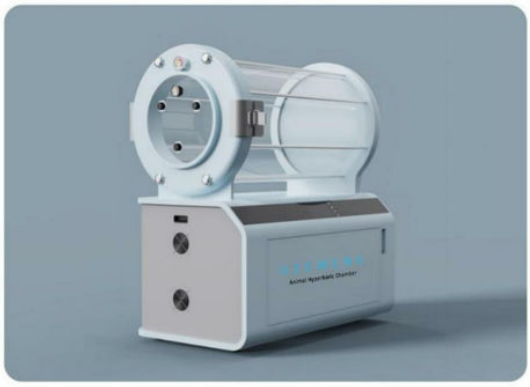
2. Recommendation of new model - EMA400





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Technical parameters

VennAid Pet HBOT Chamber

	Parameter
Oxygen supply method	Hyperbaric and high concentration oxygenerator is adopted.
O2 concentration	21% -93% adjustable.
O2 concentration rate	60% in 10 min.
Oxygen chamber pressure	0-50kpa adjustable (dual protection by mechanical and electronic relief valves, pressure value constant in the chamber).
Treatment time	0-200 min adjustable. After reaching the set-up time, the apparatus will automatically cycle to clean the chamber. An automatic alarm will prompt at expiration of treatment.
Chamber environment monitoring	O2 concentration, **CO2 concentration**, temperature, humidity, pressure.
Temperature control	The chamber has added heating and cooling functions, and constant temperature control can be achieved by setting up the temperature value.
Inlet/outlet filtration	Filters at the air inlet/outlet can filter hair and prevent hair from clogging the pipelines.
Oxygenerator	Multi-functional, the high concentration oxygenerator can directly extract oxygen for safe use.
Safeguard	It adopts Schneider leakage protection power MASW, and the body has protective earthing.
Overall size	1100×800×1480mm (L×W×H), split design is convenient for transportation and installation.
Operational modes	Convenient operation with manual/automatic control modes.
Manufacturer training available	Usually, the Company can provide on-site installation and training. Due to the pandemic control policy, online video guidance and training can also be provided subject to clients' needs.
Overall description	The body adopts a fully-transparent chamber design, avoiding pets from being in a dark environment, making it more convenient for disinfection and observation of pet status. The latest model adopts thickened stainless steel pallets, which is safer and more practical. All functions may be initiated in automatic operating mode. Manual control may select a specific function to startup separately, which is convenient, quick, safe and reliable.
Silent	Adopting a full set of muted system with a high-quality air compression shed to enhance the comfort of pets in the chamber.

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Installation Instructions for Chamber and Circuits of VennAid HBOT Chamber

1. Placement

Place the four legs of the chamber in the four corner holes of the cabinet. Facing the operation panel, place the chamber door in the left hand. When lifting and placing the chamber, do not place your hands directly below the two ends of the chamber to prevent getting caught. Please pay attention to safety.

After the chamber is placed, tighten the hand wheels of the four foot holes to secure bolts. After the chamber is installed, adjust the position of the fuma wheel at the bottom of the cabinet to press close to the ground to ensure the stability of the chamber.

Attention: Place the chamber in the correct direction. If it is in a wrong direction, the circuits cannot be connected.

2. Installation of sensor interfaces

Remove the plug from the interface of radiator 1. Remove the cap on the pipe of radiator 1, and insert the pipe into the corresponding interface.

Remove the plug from the interface of radiator 2. Remove the cap on the pipe of radiator 2, and insert the pipe into the corresponding interface.

Attention: Remove the caps and plugs. Press the clamp spring down to the bottom before pulling plug out to avoid damaging the joint due to hard pulling. Check if the socket is tightly inserted and if there is any leakage.

3. Installation of oxygen, air and exhaust gas interfaces

Find the corresponding interfaces for oxygen, air and exhaust gas. Insert the pipes directly and check their tightness to see if securely inserted.

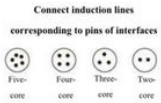
4. Installation of aviation plugs for sensors

Insert the two-core aviation plug into the corresponding two-core socket.

Insert the three-core aviation plug into the corresponding three-core socket.

Insert the four-core aviation plug into the corresponding four-core socket.

Insert the five-core aviation plug into the corresponding five-core socket.



Attention: When inserting the aviation plugs, it is necessary to distinguish the direction and stack the nuts tightly to ensure that the wiring is aesthetic.

5. Installation of pressure sensor

The red line is for the pressure sensor. Just insert and tighten it.

Important note: All installation must be carried out without power on to prevent apparatus damaged and ensure safety.

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Guides for Using VennAid Pet Oxygen Chamber

I. Preparation before using

1. Spray an appropriate amount of water mist on the acrylic bulkhead inside the chamber to prevent static electricity and maintain humidity inside. (No alcohol) When spraying water mist, be careful not to spray onto the aluminum alloy box on the right fender.

2. Place a diaper pad for easy cleaning.

3. Gently place the pet into the chamber. Pay attention to the iron chains or metal objects of pet. Do not put them into the chamber together (prevent sparks from friction).

4. Fasten the quick buckle.

Before fastening the quick buckle, gently close the chamber door, and check if the handwheel locking bolt is in the correct position.

5. Finally, tighten the locking bolts of four handwheels to be naturally tight. (There is an interesting story. Why we say it should be naturally tight when we close the chamber door is that if a male user locks the door with a lot of efforts tightly, then a female user who opens the door will be particularly difficult. So please pay attention to the tightening force.)

6. Startup

After the chamber door is closed, press the button of main power switch. Then the LCD screen will display the startup of system.

7. Click to startup the system and click "Welcome" to move on. Now the apparatus begins to operate normally.

8. Time setting

When the system is working normally, the default time is 60 min. If the treatment time needs to be adjusted subject to the treatment requirements, how can we set it? Click on the treatment time, enter a time value (up to 200 min), and click "OK". So the system time is set,. Under normal circumstances, our system displays a treatment time of 60 min. If there are no other requirements for treatment time, there is no need to set it.

9. Temperature setting

Click on the temperature setting. If we need to raise the temperature, click on the heating button. If we need to lower the temperature, click on the cooling button. The reference value for temperature setting is 24~26℃.

II. Preparation for taking pets out

When the treatment time expires, the system will automatically alarm to indicate the expiration of treatment.

1. Click on the touch screen and set "Automatic operation of system" to "On", and then the system will automatically stop operation.

2. Press the pressure relief button on the operation panel, and the system will automatically relieve pressure. When the pressure value reaches 0, check whether the pressure on the mechanical pressure gauge in front of the chamber door is 0, too. When the value on the mechanical pressure gauge is also 0, it indicates that the pressure in the chamber has been completely discharged and the door can be safely opened. If there is a power outage or an unexpected circumstance that prevents pressure relief, we can loosen the bolt of manual pressure relief valve on the right side of chamber, and then the pressure will be relieved manually.)

3. After confirming whether the pressure on the mechanical pressure gauge is 0 and the pressure value on the display screen is 0 at the same time, the chamber door may be opened.

4. First loosen the four locking bolts of handwheels and confirm complete disengagement.

5. Stand at the front of the chamber and then open the quick buckle of the door (Do not open the chamber door standing directly opposite to the door).

6. Gently open the chamber door and safely take the pets out. Important note: Non-specialist may not operate.

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Animal Hyperbaric Chamber

HBOT provides a new, scientifically effective adjuvant method that injects hyperbaric oxygen of high concentration into the body, which has a beneficial efficacy on improving the recovery of pets, increasing the healing rate and reducing disability.

1. Blood cells:	Strengthen immunity, resist allergies, improve hematopoiesis, treat blood clots, and eliminate pathogens with immune cells.
2. Circulation system:	Eliminate pulmonary edema, reduce excessive energy consumption of the heart, prevent hypoxia, supply oxygen, and increase the detoxification of the livers.
3. Respiratory system:	Eliminate pneumonia infection, remove breathing difficulties, and treat anemia and hypoxia.
4. Digestive system:	Treat gastrointestinal ulcers, constipation, detoxification, liver disease, and enhance pancreatic function.
5. Urinary system:	Eliminate urinary toxins, control the progression of renal failure, detoxify, and quickly stop bleeding of urinary tract mucosal.
6. Neurological system:	Treat concussion and pathogenic encephalitis, control senile dementia and neuritis., and improve spinal paralysis.
7. Immune and endocrine:	Improve the symptoms of hyperthyroidism, hypothyroidism, Cushing, Edison and diabetes as well as allergy.
8. Metabolic effects:	Inhibit the growth of tumor cells, and improve lactic acidosis.
9. Musculoskeletal:	Improve the symptoms of muscle pain, ligament strain, degenerative arthritis and post heat shock acidemia after orthopedic surgery.
10. Psychoneurosis :	Psychosis, PTSD (Post Traumatic Syndrome), post stress.
11. Integumentary system:	Promote wound repair, strengthen immunity, and help hair growth.

Clinical precautions: **Manual oxygen inhalation mode is recommended instead of hyperbaric mode:**

A. Untreated pneumothorax and active bleeding.
B. Pets with high blood pressure.
C. Severe Emphysema with suspected bullae.
D. When upper respiratory tract infection occurs, there is a risk of middle ear barotrauma and paranasal sinus barotrauma.
E. Pets with infectious diseases.
F. In animal pregnancy, HBOT treatment in early stage will increase the incidence rate of congenital malformations.

4. Reference for the application on common symptoms

Clinical symptoms for VennAid HBOT Chamber

The following symptoms should be relieved with high-oxygen mode before hyperbaric oxygen mode for treatment. Do remember!	Dermatopathya	Thoracic diseases	Digestive tract diseases	Urogenital tract diseases	Neurological diseases	Blood Immunity	ENT diseases	Musculoskeletal		
	Bacterial infection	Pulmonary edema	Bacterial dysentery	Renal failure	Brain trauma	Sepsis	Shallow corneal ulcer cancer	Post bone surgery		①Once a day, 3 courses of treatment
	①	②+③	①	①+④+⑦	B+①	②+③	①+④	③+⑦		②Twice a day, 3 courses of treatment
1. Fever	Fungal infection	Various types of pneumonia	Viral	Cystitis	Brain hypoxia	Lactatemia	Conjunctivitis	Tendinitis		③Once every 2 days, 3 courses of treatment
2. Hypertension	③	①+③	①	①+③	C+①	①+④	①	①+④+⑤		④ Once every 3 days, 3 courses of treatment
3. Chest injury	Parasite	Myocarditis	Parasite	Urethral bleeding	Paralysis	Available STD	Purulent rhinitis	Arthritis		⑤Once every 5 days, 3 courses of treatment
4. Upper respiratory obstruction	①	③+⑥	①	①	A+②+④	①+③	A+①+③	A+①+⑤		⑥Once every 7 days, 3 courses of treatment
5. Claustrophobia	Endocrine	Post pleural fluid extraction	Inflammatory enteritis	Post sterilization	Multiple neuritis	Anemia	Upper respiratory syndrome	Muscle tear		⑦Once a week, health care
6. Pregnant pets	⑦	①	⑦	①	④+⑦	④+⑦	A+①	①+⑦		⑧ Biweekly, health care
7. Untreated tumors	Allergy	Post cardiac fluid extraction	Post cardiac fluid extraction	Post uterine pyogenic surgery	Delayed intestinal peristalsis	Vasculitis	Stomatitis	Osteomyelitis		⑨Once a month, health care
8. Epilepsy	①+⑥	③	③	②+④	①+⑥	①+⑦	A+①+④	②+④		A. Treat in case of symptoms.
9. Not available for canine distemper	Post operation	Post empyema aspiration	Allergic enteritis	Post delivery	Intestinal dysphoria	Sepsis	Laryngitis	Rhabdomyolysis		B.Do not leave the chamber in 2 hours due to critical illness.
10. Pulmonary arterial hypertension	②+③	①	①+⑥	④	④+⑦	②+④	②	①+③		C. Do not leave the chamber in 4 hours due to critical illness.
11. Pets with loud breathing	Post operation		Hepatitis	Urinary and reproductive infections	Neurodysplasia	Tumor after chemotherapy	Earlap/Otitis media	Neuromyositis		To be collocated
12. Deep corneal ulceration cancer	①		①+④	②	①+⑧	⑦	①+④	①+⑥+⑧	∈	Traditional internal medicine treatment (drug infusion)
13. Severe dehydration			Pancreatitis		Epilepsy	Poisoning	Labyrinthitis	Contusion	✱	Assisted nutritional therapy (nutritional element)
14. Severe enterrhagia			①+③		A+⑨	C+A+③	A+②+⑤	②+③+⑦	ω	Surgical treatment of lesions (removal of debris)
			Gastrointestinal ulcer		Facial nerve disorders				ϕ	In a DBP environment (resting)
			①		①+⑥+⑨					
			Hepatopancreatobiliary inflammation							
			②+③							
			Diabetes							
			⑦							

Available for infectious diseases: Dogs: Coronavirus, infectious liver disease, leptospira, small/large scorpions, elixisome, canine cough, and internal parasites.
Cats: Septicemia, AIDS, toxoplasma gondii, abdominal transmission, goblet, blister, mycoplasma, chlamydia, blood badong, internal and external parasites.
Attention: It is recommended to use Anlixiao disinfectant to clean the cabin.

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Animal Hyperbaric Chamber

Clinical cases

HBOT for neurological diseases

- Encephalopathy
- Brain contusion
- Vestibular Syndrome
- Spinal cord injury
- Facial nerve paralysis
- Nerve rupture

Hydrocephalus

- Chihuahua, 3 years

Walking in circles due to stiff hind limbs
Nystagmus
Unable to stand for about 4 months

- Preliminary diagnosis: Hydrocephalus
- Drug therapy
- Treatment

40Kpa, 90% oxygen, 90 min adjuvant treatment

Brain contusion

- Little yellow dog, 4 months, male

Traffic accident
Coma, mouth and nose bleeding

- Preliminary diagnosis: Brain injury
- Medication treatment after radiography
- HBOT treatment

Mitigate brain edema, lower brain pressure, and accelerate the elimination of edema

Encephalopathy

- Niunia, 12 years
- 5 days of treatment in other hospitals
- Symptoms:

Limb weakness, drowsiness

- No special abnormalities found in the laboratory inspection
- Normal blood ammonia
- Treatment plan - HBOT

Increase oxygen partial pressure
Promote cerebral microcirculation
Control cerebral edema

Vestibular Syndrome

- Increase oxygen partial pressure and enhance microvascular oxygen diffusion
- Reduce intracranial pressure
- Regulate the balance of autonomic nerves

Epilepsy

- Chihuahua, 4 years
- Epilepsy for 8 days
- Petit mal
- HBOT+CBD

Spinal cord contusion

IVDD Canine intervertebral disc disease

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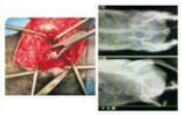
Clinical cases

Fracture of caudal vertebrae



Corneal ulcer

High-oxygen partial pressure to fiber cells, improve tissue defects in microvessels, accelerate epithelial fine chest growth, reduce retinal and iris edema, promote the absorption of aqueous humor, vitreous body, and retinal blood, reduce the impact on vision, and diminish inflammation.

Tracheal collapse

○ Yorkshire Terrier, 6 years
Difficulty breathing, collapse grade D
○ Surgical tracheal stent intervention
HBOT treatment for 1.5 hours per course
○ High-oxygen partial pressure quickly improves hypoxia status
○ Increase alveolar microcirculation

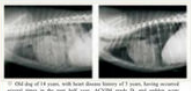
Interstitial pneumonia

○ High-oxygen partial pressure quickly improves hypoxia status
Prevent and control secondary infections
Reduce inflammation
Mitigate progression of pulmonary fibrosis

Aspiration pneumonia

○ Accelerate the absorption, clearance and repair of pneumonia lesions
○ Contract blood vessels, diminish inflammation and reduce edema
○ Reduce secretion of bronchial mucosal glands

Pulmonary edema



▽ Old dog of 14 years, with heart disease history of 5 years, having occurred several times in the past half year. ACVIM grade D, and sudden acute pulmonary edema
▽ Transfer to hyperbaric oxygen chamber after relevant treatment
40Kpa, 1.5 hours, continuous routine CMF treatment and infusion
Reduce fragmentation of foam volume in the respiratory tract, and improve ventilation
Hydrostatic pressure between lung tissues > microvascular hydrostatic pressure, increase lymphatic reflux, and eliminate edema
High-oxygen partial pressure improves pulmonary ischemia and hypoxia edema, bleeding, and congestion

Aspiration pneumonia

HBOT
Reduce the volume and fragmentation of foam in the respiratory tract, and improve ventilation
Hydrostatic pressure between lung tissues > microvascular hydrostatic pressure, enhance lymphatic reflux
Eliminate edema
High-oxygen partial pressure improves lung ischemia and hypoxia edema, bleeding, congestion correct Acidosis, correct electrolyte

Problem wound

○ The breathing volume inside the chamber is more than 5 times that of oxygen in normal air
○ The pure oxygen it inhales is dissolved in the blood package, which improves the oxygen content in the tissue, equivalent to the function that 1/3 of erythrocyte carrying oxygen
○ Increase the oxygen partial pressure in the affected tissue, improve blood circulation in the affected area, and relieve the phenomenon of tissue hypoxia and edema
○ Promote wound healing, enable the leukocyte to effectively sterilize and accelerate the healing of the affected part

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Animal Hyperbaric Chamber

Clinical cases

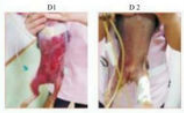
Oral ulcerative carcinoma

- Cat, 2 years
- Mistaking sodium hydroxide solution

Problem wounds caused by diabetes

- The breathing volume inside the chamber is more than 5 times that of oxygen in normal air.
- The oxygen it inhales is dissolved in the blood package, which improves the oxygen content in the tissue, equivalent to the function that 1/3 of erythrocyte carrying oxygen.
- Increase the oxygen partial pressure in the affected tissue, improve blood circulation in the affected tissues, and relieve the phenomenon of tissue hypoxia and edema.
- Promote wound healing, enable the leukocyte to effectively sterilize, and accelerate the healing of the affected part.

Crush injury



CO poisoning

- High-oxygen partial pressure rapidly dissociates HBCO
- Improve metabolic acidosis
- Reduce intracranial pressure
- Reduce excessive damage to brain cells
- High arterial oxygen partial pressure can reduce the half-life of CO bound with heme from 320 min to 23 min in the CO poisonde animals, so that CO can be discharged from the body as soon as possible.

Parrot brooding

- Parrot brooding
- Principle: Promote vasoconstriction and edema of tissues and organs

Lactic acid metabolism in racing pigeons

5. Precautions

Precautions

(1) When applying the HBOT, pay attention to the condition of animals, stop the treatment in time when finding maladaptive symptoms, and continue the treatment when the hazards are eliminated.

(2) After treatment, check the display screen of pressure whether is 0. Only open the chamber door when the mechanical pressure gauge is 0 at the same time.

(3) In case of emergency (power outage), the pressure can be manually relieved.

(4) The trays placed before each use should be cleaned promptly after use to ensure the cleanliness of the chamber.

(5) For cases with infectious diseases, it is recommended to use a dedicated HBOT chamber alone for treatment instead of mixing with non-infectious cases.

(6) Non-trained personnel may neither operate the apparatus nor adjust parameters. If necessary, professional operator shall be responsible for setting relevant parameters.

(7) The equipment is live with high voltage power and high pressure pipeline. Non-professionals of the Company may not open the apparatus.

(8) Please contact the corresponding service staff promptly if there are any issues related to using the apparatus.

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