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Mild Hyperbaric Oxygen Therapy Test

Chapters 1-6

- 1. Mild hyperbaric oxygen therapy (mHBOT) is defined as:
 - **A.** a small chamber that is placed over an extremity and pressurized with oxygen. The patient does not breathe the oxygen, nor is the remainder of the body pressurized.
 - **B.** the pressure of a gas over a liquid the amount of the gas that diffuses into the liquid.
 - C. a portable emergency response piece of equipment that is quickly and easily assembled and transported.
 - **D**. the medical practice of breathing pure oxygen while in a sealed chamber that has been pressurized at 1 to 1.5 times the normal atmospheric pressure.
- 2. MHBOT utilizes filtered, pressurized ambient air to dissolve ______directly into the plasma, cerebrospinal fluid, flooding tissues, and vital organs.
 - A. blood
 - B. oxygen
 - C. medication

D. water

- 3. As a newer therapy, mHBOT has only been officially approved by the FDA to treat what specific condition?
 - A. carbon monoxide poisoning
 - **B.** brain abscesses
 - C. acute mountain sickness
 - **D.** decompression sickness
- 4. Monoplace chambers are typically constructed of pressure-safe, clear acrylic because:
 - A. This is a cheaper alternative to more expensive, but inferior options
 - B. The acrylic is often coated with a special bond, one which has a soothing effect on the patients inside
 - C. Other materials have been deemed unsafe by the FDA in recent years.
 - D. Transparent walls offer clinical staff a clear view of the patient, and the patient enjoys a less "closed-in" feeling
- 5. Define Topical oxygen, or topox, another hyperbaric treatment option -
 - A. a small chamber is placed over an extremity and pressurized with oxygen. The patient does not breathe the oxygen, nor is the remainder of the body pressurized.
 - **B.** the pressure of a gas over a liquid the amount of the gas that diffuses into the liquid.
 - C. a portable emergency response piece of equipment that is quickly and easily assembled and transported.
 - **D.** the medical practice of breathing pure oxygen while in a sealed chamber that has been pressurized at 1 to 1.5 times the normal atmospheric pressure.
- 6. Define portable hyperbaric stretchers:
 - A. a camp bed, particularly a portable, collapsible one.

	B. a bed specially designed for hospitalized patients or others in need of some form of health car
	C. a small chamber, placed over an extremity and pressurized with oxygen. The patient does not breathe the oxygen, nor is the remainder of the body pressurized.
	D. portable units/emergency response equipment that are quickly and easily assembled and transported. These units are used to save lives as well as transport patients who cannot, for one reason or another, be decompressed
7.	A clergyman and physician by the name of Henshaw created what device?
	A. pneumatic laboratory
	B. mobile hyperbaric operating theater
	C. domicilium
	D. Timken Tank
8.	True/False - Henshaw's device worked by using a system of bellows to change the pressure in an airtight chamber. In this way, it was a chamber capable of both hyperbaric and hypobaric environments.
9.	According to Henshaw, hyperbaric conditions with were beneficial for people withconditions. A. acute B. chronic
10	. Meanwhile, the city of became the site of the first North American hyperbaric center in 1860.
	A. Oshawa, Ontario in Canada
	B. San Francisco

	C. Toronto, Ontario in Canada
	D. Kansas City
11	. The majority of research performed on hyperbaric oxygen therapy can be credited to a medical doctor named
	Churchill Davis. Davis was especially interested in how much better patients under therapy
	reacted while utilizing hyperbaric oxygen.
	A. amputee / physical P. corpor / rediction
	B. cancer / radiation
	C. trauma / physical
	D. Transplant / radiation
12	. What types of ailments, with regards to scientific testing, might easily prevented via use of the domicilium?
	A. joint pain/afflictions
	B. dental afflictions
	C. rectal afflictions
	D. respiratory afflictions
13	. Boyle's Law is defined as:
	A. For every action, there is an equal and opposite reaction
	B. Matter can be neither created nor destroyed, though it can be rearranged. Mass remains constant in an ordinary chemical
	change.
	C. as long as the temperature of a set amount of gas stays constant, the pressure and volume are always constant. This
	law also says that if the volume decreases with constant temperature and gas molecules, then the pressure increases.
	The opposite is also true.
	D. the pressure of a gas over a liquid increases the amount of the gas that diffuses into the liquid.

14. Henry's Law is defined as:

- **A.** Matter can be neither created nor destroyed, though it can be rearranged. Mass remains constant in an ordinary chemical change.
- **B.** Equal volumes of gases under identical temperature and pressure conditions will contain equal numbers of particles (atoms, ion, molecules, electrons, etc.).
- C. as long as the temperature of a set amount of gas stays constant, the pressure and volume are always constant. This law also says that if the volume decreases with constant temperature and gas molecules, then the pressure increases. The opposite is also true
- D. the pressure of a gas over a liquid increases the amount of the gas that diffuses into the liquid.
- 15. Who discovered oxygen in 1773?
 - A. Anthony Bardeen
 - **B. Sir Isaac Newton**
 - C. Nikola Tesla
 - D. Carl Wilhelm Scheele
- 16. In its gaseous state, oxygen is:
 - A. colorless
 - **B.** odorless
 - C. tasteless
 - D. All of the above
- 17. True/False Oxygen is non-toxic to anaerobic organisms. If False, explain why. it is toxic
- 18. If the body is not processing oxygen and oxygen saturation falls below ____ percent, then the body is showing signs of hypoxia.

A. 95				
B. 85				
C. 90				
D. 80				
19. True/False -	A lack of oxygen is known as anoxia.			
20. True/False - A complete lack of oxygen is known as <u>hypoxia</u> .				
·	minutes without oxygen, brain cells and the state of t	are destroyed, and an exte	nded period of hypoxia leads to be	rain
A. The system disease-causin B. Enables the C. Mechanica D. a vast net	irculatory system. m comprising a network of lymphatic vesting agents. ne body to move using muscles al and chemical processes that provide nutwork of organs and vessels that is respect to and from cells.	ntrients via the mouth, nose,	trachea, lungs, and diaphragm.	

- 23. The nervous system is defined as.
 - A. The body's electrical wiring. It controls and coordinates every function of the body.
 - **B.** Enables the body to move using muscles
 - C. The system comprising a network of lymphatic vessels that carry a clear fluid called lymph. Defends the body against disease-causing agents
 - D. Provides chemical communications within the body using hormones
- 24. True/False The spinal cord should be straight when viewed from front to back, and have <u>three</u> curves when viewed from the side. If False, explain why.
- 25. Some of the <u>nerve disorders</u> that can affect the nervous system are:
 - A. nerve compression
 - **B.** vascular disorders such as stroke
 - C. transient ischemic attacks (TIA), subarachnoid hemorrhages, subdural hemorrhages and hematomas, and extradural hemorrhages.
 - D. All of the above
 - E. None of the above
- 26. True/False The mild hyperbaric chamber is filled with compressed ambient air from $\underline{3 \text{ to } 5.5}$ pounds per square inch (1.3 ATA max), and the pressure is equivalent to being $\underline{15 \text{ feet}}$ below sea level. If False, explain why. -2-4.5, 11 feet
- 27. True/ False Because oxygen can function as an antibiotic, hyperbaric oxygen therapy is currently used to treat <u>all</u> of these ailments: gas gangrene, necrotizing fasciitis, diabetic foot infections, refractory osteomyelitis, neurosurgical infections, and fungal infections

28.	With regards to oxygen, a free radical is defined as: A. any atom, molecule, or ion that has an unpaired valence electron.
	B. any molecule produced through the bonding together of several amino acids
	C. three or more sugar molecules bonded together.D. oily molecules that do not dissolve in water or evaporate easily
29.	Superoxide is sent out by the immune system to kill invaders. The cells that send this out have an enzyme called superoxide dismutase, which basically neutralizes the superoxide so it:
	A. does not harm the cell it wishes to protect.B. Harms the cell it wishes to protect, but still maintains a benefit
	C. Neutralizes the cell entirely, leading to a quicker recovery
	D. Acts as a placebo effect, making the patient feel as if they're getting better while the body continues to fight infection.
30.	Hydroxyl radicals are used much in the same way but more sparingly. These are released for specific types of bacteria, but they cannot be neutralized with an enzyme. As a result, the body uses themas cells can only be protected from the free radical by use of melatonin and dietary antioxidants. A. at a rapid rate B. sparingly
31.	True/ False - Vasculogenesis relates to wound healing in that vasculogenesis refers to the creation of vascular tissue in the body, which will result in increased blood flow to that area. This has to do with wound healing as the <u>increase of vascularity</u> to that area results in a <u>decreased</u> ability of that tissue to heal.
32.	True/ False - HBOT care might positively affect late tissue radiation injuries (LTRI) because the leading theory is that the radiation causes progressive endarteritis of the capillaries. This obviously leads to hypoxia of the tissue and

subsequent unhealed ulcers. The tissue cannot heal itself because of the lack of resources associated with the lack of blood flow.
The study showed that HBOT is likely effective for late radiation tissue injury of the pelvis, with demonstrated efficacy specifically for radiation damage to what two parts? A. The anus and rectum
B. lymph nodes and scrotum
C. diaphragm and lungs
D. vulva and rectum
Some people used to think that HBOT would the amount of inflammation in the body, especially in the respiratory system. The body produces ROS and RNS with the use of the HBOT therapy. A. increase B. decrease
HBOT has a need for more research into its ability to help people suffering from which autism spectrum disorder(s)? A Autistic disorder
B. Asperger's syndrome
C. Pervasive developmental disorder
D. All of the above
•
False, explain why – The chambers use filtered, ambient air, so there is no risk of oxygen toxicity to the body, even with regular use.

D. alcohol and fruit juice