ELSEVIER

COLUMN

Ace Your Certification Exam

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1. All of the following are UHMS approved indications for hyperbaric oxygen therapy except
 - a. Carbon monoxide poisoning
 - b. Acute idiopathic sensory neural hearing loss
 - c. Traumatic brain injury
 - d. Diabetic wounds
 - e. Acute central retinal artery occlusion
2. In a 80 year diabetic male who presents with Wagner Grade 3 diabetic wound with osteomyelitis, all of the following are appropriate measures to treat his wound except
 - a. Hyperbaric oxygen therapy
 - b. Negative pressure therapy before debridement
 - c. Surgical debridement of osteomyelitic bone
 - d. IV antibiotics
3. According to TCOM consensus report by UHMS, patient's with DM type 2 and end stage renal disease, hypoxia is defined as
 - a. Baseline TCPO₂ values of less than 50 mm Hg
 - b. Baseline TCPO₂ values between 50 mm Hg and 60 mm Hg
 - c. Baseline TCPO₂ values of between 60 mm Hg and 70 mm Hg
 - d. Baseline TCPO₂ values anything below 60 mm Hg
 - e. All of the above
4. Hyperbaric oxygen therapy is defined by UHMS as the administration of oxygen under increased atmospheric pressure of at least ____ ATA and above
 - a. 1 ATA
 - b. 1.4 ATA
 - c. 2 ATA
 - d. 2.4 ATA
5. TCPO₂ values of greater than ____ mm Hg indicate a likelihood that the surgical site has high likelihood of healing
 - a. 5 mm Hg
 - b. 10 mm Hg
 - c. 20 mm Hg
 - d. 40 mm Hg

Answers

1, c; 2, b; 3, a; 4, b; 5, d

Question 1: Answer c

All of the following indications are approved by UHMS except traumatic brain injury, traumatic brain injury is still not listed under approved list of HBO indications by UHMS.¹

Question 2: Answer d

In patients with Wagner Grade 3 diabetic wound, hyperbaric oxygen therapy, IV antibiotics and debridement are necessary and indicated, negative pressure therapy is contraindicated in patient's with untreated osteomyelitis.²

Question 3: Answer e

In patients with DM type 2 and ESRD, according to consensus report by UHMS, TCPO₂ values of less than 50 mm Hg is considered hypoxic. In patient's with DM type 2 alone less than 40 mm Hg is considered hypoxic and in nondiabetic patients oxygen value less than 30 mm Hg is considered hypoxic.³

Question 4: Answer b

UHMS defines hyperbaric oxygen therapy as the administration of oxygen under increased atmospheric pressure of at least 1.4 ATA and above.¹

Question 5: Answer d

TCPO₂ values can help us determine chances of healing or failure to heal at that particular level of surgery. Values greater than 40 mm Hg may suggest high likelihood of healing.^{1,3}

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References

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3. Fife CE, Smart DR, Sheffield PJ, et al: Transcutaneous oximetry consensus statements. *UHM* 2009;36(1). Transcutaneous oximetry in clinical practice.