

Defib Academy Ch. 11 Workbook Homework

Total points 92/100 ?

Chapter 11 (Airway Management) Workbook Homework

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✓ What concentration of inspired oxygen is provided by a nasal cannula when the flowmeter is set at 1 to 6L/min? *2/2

- ☐ 10% to 18%
- ☐ 52% to 84%
- ☐ 89% to 98%
- ☒ 24% to 44%



✓ An irregular breathing pattern with increased rate and depth followed by apnea: *2/2

- ☐ Hypoxia
- ☐ Tidal volume
- ☒ Cheyne-Stokes
- ☐ Hypoxic drive



✓ Lung *

2/2

☒ Thoracic Cavity



☐ Oral Cavity

✓ Oropharyngeal airways should be measured from the tip of the nose to the earlobe. *2/2

1. True

2. False



Full Name (first and last) *

travis boettcher

✓ The functional site of oxygen and carbon dioxide exchange: *

2/2

☐ Inhalation

☐ Exhalation

☐ Ventilation

☒ Alveoli



✓ Moves downward with contraction: *

2/2

- ☐ Hypoxia
- ☐ Larynx
- ☒ Diaphragm
- ☐ Exhalation



✓ You respond to a construction site and find a worker lying supine in the dirt. He was struck by a heavy construction vehicle and flew more than 15 feet (4.6 m) before landing in his current position. There is discoloration and distention of his abdomen about the right upper quadrant (RUQ). He is unconscious, and his respirations are 10 breaths/min and shallow, with noisy gurgling sounds. What technique will you use to open his airway? *2/2

- ☐ Cross-finger technique
- ☐ Head tilt-chin lift maneuver
- ☐ Head tilt-neck lift maneuver
- ☒ Jaw-thrust



✓ When the airway is not clear, suctioning the oral cavity before positive pressure ventilation is initiated is important because it: *2/2

- ☐ Stimulates the patient to breathe
- ☐ Prevents gagging
- ☐ Prevents tachycardia
- ☒ Helps reduce the risk of aspiration



✓ Which of the following is the most common method of assisting ventilations in the field? *2/2

- ☐ Continuous positive airway pressure (CPAP)
- ☒ Bag-mask device with oxygen reservoir and supplemental oxygen
- ☐ Flow-restricted, oxygen-powered ventilation device
- ☐ Mouth-to-mask with one-way valve



✗ Nasopharynx * 0/2

- ☐ Oral Cavity
- ☒ Thoracic Cavity



✓ The space between the lungs that contains the heart, great vessels, trachea, main bronchi, esophagus, and many nerves:

*2/2

- ☐ Alveoli
- ☐ Diaphragm
- ☐ Intercostal muscle
- ☒ Mediastinum



✓ The brainstem normally triggers breathing by increasing respirations when:

*2/2

- ☒ Carbon dioxide levels increase
- ☐ Nitrogen levels decrease
- ☐ Oxygen levels increase
- ☐ Carbon dioxide levels decrease



✓ What is the most common airway obstruction in the unconscious patient?

*2/2

- ☐ Food
- ☒ Tongue
- ☐ Blood
- ☐ Tonsils



✓ The air we breathe contains ____ % oxygen and ____ % nitrogen. *

2/2

- ☐ 20/54
- ☐ 15/78
- ☐ 21/75
- ☒ 21/78



✓ The amount of air moved during one breath: *

2/2

- ☐ Hypoxia
- ☒ Tidal volume
- ☐ Exhalation
- ☐ Ventilation



✓ The upper airway consists of all anatomic airway structures above the level of the _____ .

*2/2

- ☒ Vocal chords
- ☐ Lungs
- ☐ Diaphragm
- ☐ Ribcage



✓ What percentage of the air that we breathe is made up of oxygen? * 2/2

- ☐ 16%
- ☐ 78%
- ☐ 12%
- ☒ 21%



✓ During inhalation, the ____ and _____ contract, causing the thorax to enlarge. *2/2

- ☐ Heart/mind
- ☒ Diaphragm/intercostal muscles
- ☐ Vertebrae/diaphragm
- ☐ Lungs/ribcage



✓ The primary mechanism for triggering breathing is the level of _____ in the blood. *2/2

- ☐ Iron
- ☒ Carbon dioxide
- ☐ Nitrogen
- ☐ Oxygen



✗ Raises ribs when it contracts: *

0/2

- ☐ Mediastinum
- ☒ Diaphragm
- ☐ Intercostal muscle
- ☐ Larynx



✓ A complex structure made of cartilage, marking where the upper air- way *2/2 ends and the lower airway begins:

- ☐ Mediastinum
- ☒ Larynx
- ☐ Diaphragm
- ☐ Alveoli



✓ The proper technique for sizing an oropharyngeal airway before insertion *2/2 is to measure the device from:

- ☐ The center of the jaw to the earlobe
- ☐ The tip of the nose to earlobe
- ☐ The bridge of the nose to tip of the chin
- ☒ The corner of the mouth to the earlobe or angle of the jaw



✓ Which of the following is a sign of inadequate breathing in an adult? * 2/2

- ☐ Equal chest expansion.
- ☐ Warm, pink skin.
- ☒ Diminished breath sounds.
- ☐ Respiratory rate of 18 breaths/min.



✓ What are agonal gasps? * 2/2

- ☐ Painful respirations due to broken ribs
- ☐ Occasional gasping breaths but adequate to maintain life
- ☐ Another name of ataxic respirations
- ☒ Occasional gasping breaths but unable to maintain life



✓ Hyoid Bone * 2/2

- ☐ Thoracic Cavity
- ☒ Oral Cavity



✓ A secondary system for control of breathing: *

2/2

- ☒ Hypoxic drive
- ☐ Diaphragm
- ☐ Alveoli
- ☐ Ventilation



✓ The pin-indexing system is used to allow any gas regulator to be connected to an oxygen cylinder.

*2/2

- 1. True
- 2. False



✓ Hypoxia is the act of air moving in and out the lungs during chest compressions.

*2/2

- 1. False
- 2. True



✓ You respond to a construction site and find a worker lying supine in the dirt. He was struck by a heavy construction vehicle and flew more than 15 feet (4.6 m) before landing in his current position. There is discoloration and distention of his abdomen about the right upper quadrant (RUQ). He is unconscious, and his respirations are 10 breaths/min and shallow, with noisy gurgling sounds. After opening the airway, your next priority is to: *2/2

- ☐ Assist respirations
- ☐ Provide oxygen at 15 L/min via a nasal cannula
- ☒ Suction the airway ✓
- ☐ Provide oxygen at 6 L/min via a nonrebreathing mask

✓ Nasal cannulas can deliver a maximum of 44% oxygen at 6 L/min. * 2/2

1. False
2. True ✓

✓ When ventilating a patient with a bag-mask device, you should: * 2/2

- ☐ Only perform this with an advanced airway
- ☐ Squeeze the bag hard and fast
- ☐ Look for inflation of the cheeks
- ☒ Look for rise and fall of the chest ✓



✓ **Bronchus ***

2/2

- ☒ Oral Cavity
- ☐ Thoracic Cavity



✓ **Which of the following could result in an inaccurate pulse oximetry reading?**

*2/2

- ☐ Warm extremities
- ☐ Hyperthermia
- ☐ Vasodilation
- ☒ Carbon monoxide poisoning



✓ **In exhalation, air pressure in the lungs is ____ than the pressure outside. *** 2/2

- ☒ Higher
- ☐ Similar to
- ☐ Equal to
- ☐ Lower



✓ Continuous positive airway pressure has proven to be immensely beneficial to patients experiencing respiratory distress from acute pulmonary edema or obstructive pulmonary disease.

*2/2

1. True



2. False

✓ When a person goes ____ minutes without oxygen, brain damage is very likely.

*2/2

☐ More than 10

☒ 6 to 10



☐ 0 to 4

☐ 4 to 6

✗ The exchange of air between lungs and the environment: *

0/2

☐ Ventilation

☒ Exhalation



☐ Alveoli

☐ Inhalation



✓ An active part of breathing: *

2/2

- ☐ Hypoxia
- ☒ Inhalation
- ☐ Exhalation
- ☐ Ventilation



✓ Which of the following statements regarding respiratory rate is TRUE? *

2/2

- ☐ The rate is faster when the person is sleeping.
- ☐ The rate is the same in infants and children.
- ☒ The normal rate is 12 to 20 breaths/min.
- ☐ The respiratory rate is about equal to the person's heart rate.



✓ Insufficient oxygen in the cells and tissues is called hypoxia. *

2/2

- 1. True
- 2. False



✓ A passive process not requiring muscular effort: *

2/2

- ☐ Hypoxia
- ☒ Exhalation
- ☐ Inhalation
- ☐ Ventilation



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- ☒ Oropharyngeal airway
- ☐ Jaw thrust
- ☐ Nasal cannula
- ☐ Head tilt-chin lift maneuver



✓ Insufficient oxygen for cells and tissues: *

2/2

- ☐ Cheyne-Stokes
- ☒ Hypoxia
- ☐ Alveoli
- ☐ Hypoxic drive

✓

✓ Pharynx *

2/2

- ☐ Thoracic Cavity
- ☒ Oral Cavity

✓

✓ Vena Cava *

2/2

- ☐ Upper and Lower Airways
- ☒ Thoracic Cavity

✓

✓ Nasopharyngeal airways physically keep the tongue from blocking the upper airway and facilitate suctioning of the oropharynx. *2/2

1. True
2. False

✓



✓ Compressed gas cylinders pose no unusual risk. *

2/2

1. False



2. True

✓ Which of the following is a contraindication for placement of an oropharyngeal airway?

*2/2

☐ Fractured nasal bone

☐ Unconsciousness

☒ Intact gag reflex



☐ Severe head injury

✓ Epiglottis *

2/2

☒ Oral Cavity



☐ Thoracic Cavity



✖ What is a common problem when a single EMT uses a bag-mask device? * 0/2

- ☐ Overinflation of the lungs
- ☒ Delivering an inappropriate rate of ventilations
- ☐ Maintaining airtight mask seal
- ☐ Environmental conditions



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