

# Defib Academy Ch. 12 Workbook Homework

Total points 84/100 ?

Chapter 12 (Principles of Pharmacology) Workbook Homework

Email \*

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✓ Which of the following is not one of the "nine rights" of medication administration? \*2/2

- ☐ Right to refuse
- ☐ Right patient
- ☒ Right handed
- ☐ Right time



✗ Nitroglycerin should be administered only when the patient's systolic blood pressure is above 100 mm Hg. \*0/2

1. True
2. False



✓ Nitroglycerin decreases blood pressure. \*

2/2

1. False

2. True



✓ Nitroglycerin relieves the squeezing or crushing pain associated with angina by:

\*2/2

- ☐ Causing the heart to contract harder and increase cardiac output
- ☐ Causing the heart to beat faster to supply more oxygen to the heart
- ☒ Dilating the arteries to increase the oxygen supply to the heart muscle
- ☐ Causing the heart to beat faster and more efficiently



✓ A medication is a chemical substance that is used to treat or prevent disease or relieve pain.

\*2/2

1. False

2. True



✓ Which of the following routes of administration involves medication being absorbed in the fat tissue between the skin and muscle? \*2/2

- ☒ Subcutaneous
- ☐ Intravenous
- ☐ Intranasal
- ☐ Intramuscular



✓ When given by mouth, solutions may be absorbed from the stomach fairly quickly because the medication is already dissolved. \*2/2

1. True
2. False



✗ Which of the following is taken into consideration when determining the dose of a medicine? \*0/2

- ☐ Sex
- ☐ Ability to swallow
- ☒ Occupation
- ☐ Age



✓ The brand name that a manufacturer gives to a medication is called the \_\_\_\_\_ name. \*2/2

- ☐ Generic
- ☐ Prescription
- ☒ Trade
- ☐ Chemical



✓ Which of the following statements about oxygen is FALSE? \* 2/2

- ☒ It should be administered to all patients
- ☐ It is not safe to use around open flames
- ☐ The nonrebreathing mask is the preferred route of administration for shock
- ☐ It is the most commonly administered medication in the prehospital setting



✓ The science of drugs and their ingredients, uses, and actions: \* 2/2

- ☐ Dose
- ☒ Pharmacology
- ☐ Adverse effect
- ☐ Action



✓ Metered-dose inhalers are often used with a spacer. \*

2/2

1. False

2. True



✓ Intended therapeutic effect that a drug is supposed to have: \*

2/2

☐ Pharmacology

☐ Absorption

☒ Action

☐ Does



✓ Gelatin shells filled with powdered or liquid medication: \*

2/2

☐ Topical medications

☐ Action

☒ Capsules

☐ Adverse effect



✓ The process by which medications travel through body tissues until they reach the bloodstream: \*2/2

☐ Action

☐ Contraindication

☐ Indication

☒ Absorption



✓ Parenteral medications enter the body through the digestive tract. \* 2/2

1. True

2. False



✗ \_\_\_\_\_ are the effects that are undesirable but pose little risk to the patient. \*0/2

☐ Special effects

☐ Adverse effects

☐ Unintended effects

☒ Side effects



✗ "I think she's drunk!" a bystander yells as you and your partner arrive on the scene of an unknown medical problem. You observe an approximately 45-year-old woman stumbling between several cars in the parking lot of a grocery store. As you catch up to the woman, you ask her if she is diabetic. She nods clumsily and leans against one of the cars. You test her blood glucose and obtain a reading of 49 mg/ dL. What should you do? \*0/2

- ☐ Administer glucose gel orally.
- ☒ Contact the medical control for further instructions. ✗
- ☐ Restrain her onto the gurney and insert a nasopharyngeal airway.
- ☐ Wait for an ALS response so that glucose can be administered intravenously.

Full Name (first and last) \*

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✗ You are called to a home of a 34-year-old male who is unresponsive. When you arrive, you find the patient supine and unconscious on the living room floor, with snoring respirations. Oral glucose is \_\_\_\_ for this patient. \*0/2

- ☐ Contraindicated
- ☒ Indicated ✗
- ☐ Prescribed
- ☐ Not normally given



✓ Naloxone should be administered in a full dose to a single nostril. \* 2/2

1. True

2. False



✓ There are only seven routes of medication administration. \* 2/2

1. False

2. True



✓ The fastest way to deliver a chemical substance is by the \_\_\_\_ route. \* 2/2

☐ Oral

☐ Intramuscular

☐ Sublingual

☒ Intravenous



✓ Any action of a drug other than the desired one: \* 2/2

☒ Adverse effect

☐ Contraindication

☐ Action

☐ Indication





✓ Enteral medications enter the body through the skin. \*

2/2

1. False



2. True

✓ The most common technique for naloxone administration is via the: \*

2/2

☒ Intranasal route



☐ Intravenous route

☐ Oral route

☐ Intramuscular route

✓ Nitroglycerin should be given to someone with low blood pressure. \*

2/2

1. False



2. True

✓ Nitroglycerin is usually taken \_\_\_\_\_. \*

2/2

☐ Intravenously

☒ Sublingually



☐ Orally

☐ Intramuscularly



✓ \_\_\_\_ is a simple sugar that is readily absorbed by the bloodstream. \* 2/2

☒ Glucose



☐ Fructose

☐ Sucralose

☐ Lactose

✓ Lotions, creams, ointments: \* 2/2

☐ Absorption

☒ Topical medications



☐ Contraindications

☐ Action

✓ The government publication listing all drugs in the United States is called the: \* 2/2

☐ Department of Transportation Reference Guide

☐ Nursing Drug Reference

☐ US Pharmacology

☒ United States Pharmacopeia



✓ \_\_\_\_ is the main hormone that controls the body's fight-or-flight response. \*2/2

- ☒ Epinephrine
- ☐ Dopamine
- ☐ Adrenaline
- ☐ Serotonin



✓ Nitroglycerin relieves pain because its purpose is to increase blood flow by relieving the spasms or causing the arteries to: \*2/2

- ☐ Contract
- ☐ Thicken
- ☒ Dilate
- ☐ Constrict



✓ Sublingual medications are rapidly absorbed into the digestive tract. \* 2/2

1. True
2. False



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

2/2

1. True



2. False

✗ Oral glucose may be administered to an unconscious patient in order to save his or her life. \*0/2

1. False

2. True



✓ What medication is commonly administered in a metered-dose inhaler (MDI)?

\*2/2

☐ Naloxone

☒ Albuterol



☐ Activated charcoal

☐ Nitroglycerine



✗ You are dispatched to the county fair for a 54-year-old woman \*0/2  
complaining of chest pain. You arrive to find her pressing on the center of her chest and note that she has pale, clammy skin. You ask if she has any cardiac history, and she tells you, "No, I just have arthritis, and my doctor says that I am prediabetic." Her vital signs are: pulse 112 beats/minute, respiratory rate 18 breaths/minute, blood pressure 94/62 mm Hg, and oxygen saturation 99% on room air. Would you give this patient aspirin?

- ☒ Yes. Its analgesic properties may help with the discomfort. ✗
- ☐ No. Nitroglycerin would be more appropriate.
- ☐ Yes. Her signs and symptoms indicate a cardiac problem, and aspirin could help.
- ☐ No. Aspirin is contraindicated for arthritis.

✓ Your patient is a 73-year-old man who complains of severe chest \*2/2  
pressure with trouble breathing while having dinner at a local diner. He has a small vial of nitroglycerin in his pocket but says that he has not taken any in several days and needs you to help him to get the vial open. After administering oxygen, what is the first thing that you should do?

- ☒ Obtain the patient's blood pressure and ensure that his systolic pressure is not below 100 mm Hg. ✓
- ☐ Begin assessing the patient's ventilations.
- ☐ Check his blood glucose level.
- ☐ Place him in the recovery position.



✗ Which of the following is considered a relative contraindication to administration of aspirin?

\*0/2

- ☒ Hypersensitivity to aspirin
- ☐ History of asthma
- ☐ Preexisting liver damage
- ☐ History of nausea

✗

✓ You and your partner are dispatched to a home on the east side of town for a possible heart attack. On arrival, you are met by a distressed wife who says her husband began having chest pain while mowing the lawn. After obtaining the patient's vital signs, you begin to take a SAMPLE history. When you ask about medications, the patient begins listing off all of the medications he has been prescribed by his doctor. Nitroglycerin would be contraindicated if the patient was currently taking which of the following medications?

\*2/2

- ☐ Albuterol
- ☐ Aspirin
- ☐ Oxygen
- ☒ Sildenafil

✓

✓ Oxygen is a catalyst for combustion. \*

2/2

1. True
2. False

✓



✓ Epinephrine is a hormone produced by the pancreas. \*

2/2

1. True

2. False



✓ A situation in which a drug should not be given: \*

2/2

☐ Adverse effect

☐ Action

☐ Indication

☒ Contraindication



✓ Reasons or conditions for which a medication is given: \*

2/2

☐ Contraindication

☒ Indication

☐ Absorption

☐ Action



✓ Which medication commonly comes in gel form? \*

2/2

- ☒ Glucose
- ☐ Naxolone
- ☐ Activated charcoal
- ☐ Epinephrine



✓ The amount of medication given: \*

2/2

- ☒ Dose
- ☐ Action
- ☐ Absorption
- ☐ Capsules



✓ You are called to a home of a 34-year-old male who is unresponsive. When you arrive, you find the patient supine and unconscious on the living room floor, with snoring respirations. Which of the following medications might be useful in this situation?

\*2/2

- ☐ Aspirin
- ☐ Nitroglycerin
- ☐ Albuterol
- ☒ Naloxone





✓ You are called to the beach for a 15-year-old boy who is having trouble breathing. He tells you between gasps that he was stung by something and that his body feels "swollen." Just then, his mother runs up to you and puts an EpiPen into your hand. "Here," she says breathlessly. "This is his EpiPen. He needs this!" Would you administer epinephrine to this patient? \*2/2

- ☐ No. The EpiPen will make his condition worse.
- ☒ Yes. Push the EpiPen firmly against the patient's thigh for several seconds. ✓
- ☐ No. His signs and symptoms contraindicate an epinephrine injection.
- ☐ Yes. Use the sublingual route.

✓ Outside a hospital, a(n) \_\_\_\_ is the preferred method of giving oxygen to patients who are experiencing significant respiratory distress. \*2/2

- ☐ Bag-mask device
- ☒ Nonrebreathing mask ✓
- ☐ Nasal cannula
- ☐ Endotracheal tube

✓ Which of the following is NOT a characteristic of epinephrine? \* 2/2

- ☐ Increasing the heart rate and blood pressure
- ☒ Secreted naturally by the pituitary gland ✓
- ☐ Dilating blood vessels
- ☐ Dilating passages in the lungs



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