

Defib Academy Ch.20 Workbook Homework

Total points 80/100 ?

Chapter 20 Workbook Homework

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✓ Hyperglycemia is : *

2/2

- ☐ Is an extremely low blood glucose level
- ☒ Is an extremely high blood glucose level
- ☐ Associated with pale, cool and moist skin
- ☐ Associated with sickle cell disease



✓ Emergency care of a patient with a hemotological disorder includes all of *2/2 the following EXCEPT:

- ☐ Providing supportive and symptomatic care
- ☐ Rapid transport for patients with altered mental status
- ☐ Placing patients in position of comfort
- ☒ Providing 4LPM O2 via nasal cannula for pt's with inadequate breathing



✓ Where is glycogen stored in the body? *

2/2

- ☐ The kidneys
- ☐ The brain
- ☒ The liver
- ☐ The stomach



✓ Always suspect hypoglycemia in a patient presenting with : *

2/2

1. Altered mental status
2. Nausea
3. Kussmal respirations
4. Vomiting



✓ Without _____ or with very low levels, the brain cells rapidly suffer permanent damage.

*2/2

1. Epinephrine
2. Bicarbonate
3. Glucose
4. Dextrose



✓ If blood glucose levels remain low, a patient may lose consciousness and suffer brain damage. *2/2

1. False

2. True



Full Name (first and last) *

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✓ What condition increases the patient's risk to develop thrombophila? * 2/2

- ☐ Diabetes
- ☐ Cirrhosis of the Liver
- ☒ Cancer
- ☐ Sickle cell disease



✓ An African American patient presenting with severe, generalized pain may have undiagnosed _____. *2/2

- 1. Sickle cell disease
- 2. Hypothyroidism
- 3. Polycystic Ovary syndrome
- 4. Diabetes Mellitus



✓ Polyphagia is: *

2/2

- ☐ Closes the airway
- ☐ A structure in the hypothalamus
- ☒ Excessive eating
- ☐ Excessive urination



✓ Diabetes mellitus is a metabolic disorder in which the hormone _____ is missing or the body has become resistant to it. *2/2

- ☐ Epinephrine
- ☐ Estrogen
- ☒ Insulin
- ☐ Dopamine



✗ Higher glucose levels in the blood causes the excretion of glucose in the urine. *0/2

1. True
2. False



✓ Type 1 diabetes is : *

2/2

- ☐ A form of cancer
- ☐ Curable
- ☐ A disease affecting bone density
- ☒ A disease caused by autoimmune destruction of the pancreatic beta cells



✓ A sickle cell related issue that results from unintentional clot formation is *2/2 known as a (an) :

- ☒ vasoocclusive crisis
- ☐ Aplastic crisis
- ☐ Splenic sequestration crisis
- ☐ hemolytic crisis



✓ Insulin is produced by the : *

2/2

- ☒ Pancreas
- ☐ Spleen
- ☐ Adrenal glands
- ☐ Liver



✗ The most important step in caring for an unresponsive diabetic patient is *0/2 to:

1. Give oral glucose immediately
2. Open the airway
3. Give them food
4. Obtain a SAMPLE history



✓ _____ is/are a potentially life threatening complication of hypoglycemia. *2/2

1. Hypotention
2. Seizures
3. Kussmal respirations
4. Polydipsia



✓ Polyuria is : * 2/2

- ☐ Frequent fainting
- ☐ Frequent eating
- ☒ Frequent urination
- ☐ Frequent drooling



✓ Insulin is : *

2/2

- ☒ A hormone that allows glucose to enter the cells
- ☐ A specialized immune cell in the blood
- ☐ A hormone triggering melatonin release
- ☐ Also called glucagon



✓ Polydipsia is : *

2/2

- ☒ Excessive thirst
- ☐ Excessive urination
- ☐ Excessive hunger
- ☐ A congenital heart disease



✓ Hemophilia is : *

2/2

- ☐ Weight loss
- ☒ A disorder that causes the inability to form blood clots
- ☐ A disorder that causes the excessive formation of blood clots
- ☐ The fear of wasps



✓ Sickle cell disease : *

2/2

- ☐ Is an inherited disease affecting white blood cells
- ☒ Is an inherited disease affecting red blood cells
- ☐ Affects the sleep cycle
- ☐ Is the disease where excessive adrenalin is secreted

✓

✓ Normal glucose range is : *

2/2

- ☐ 90 - 140
- ☐ 70 - 110
- ☒ 80 - 120
- ☐ 60 - 100

✓

✓ A sweet or fruity odor on the breath of a patient is commonly found in what condition?

*2/2

- ☐ Hemophilia
- ☐ Hypoglycemia
- ☒ Hyperglycemia
- ☐ Anemia

✓



✓ The onset of hypoglycemia can occur within _____. *

2/2

1. Minutes
2. Seconds
3. Hours
4. Days



✓ When fat is used as an immediate fuel source, _____ and fatty acids are formed as waste products.

*2/2

1. Bicarbonate
2. Dextrose
3. Ketones
4. Sucrose



✓ When the cells do not get the glucose that they require, the body resorts to burning _____ for energy. *

2/2

- ☒ Fats
- ☐ Proteins
- ☐ Muscle
- ☐ Blood cells



✓ _____ is a hormone produced in the pancreas that enables glucose to enter the cells. *2/2

- ☐ Glugoneogenesis
- ☒ Insulin
- ☐ Immunoglobulin
- ☐ Estrogen



✓ Type 2 diabetes is : * 2/2

- ☒ A type of diabetes caused by insulin resistance
- ☐ A type of diabetes caused by excessive production of glucose in the pancreas
- ☐ Pale skin
- ☐ A bleeding disorder



✓ Diabetic emergencies can occur when the blood glucose levels drop to low or become too high. *2/2

1. True
2. False



✓ Diabetic patients may require insulin to control their blood glucose levels. * 2/2

1. False

2. True



✗ The life span of a red blood cell is typically 50-75 days. * 0/2

1. False

2. True



✓ What is a hormone? * 2/2

☐ Excessive eating

☐ Deep rapid breathing

☒ A chemical released by a gland that regulates body organs

☐ Frequent urination



✗ People with hemophilia have an increased ability to clot after an injury * 0/2

1. True

2. False



✓ Thrombophilia : *

2/2

- ☐ Can mimic alcohol intoxication
- ☒ Is a tendency to form clots
- ☐ Is a fondness of animals
- ☐ Decreases your risk of forming blood clots



✓ The term for excessive eating as a result of cell "hunger" is called : *

2/2

- ☐ Polyuria
- ☐ Polyphonia
- ☐ Polydipsia
- ☒ Polyphagia



✓ Kussmal respirations : *

2/2

- ☐ Are shallow and slow respirations
- ☒ Are deep and rapid respirations
- ☐ Are observed in hypoglycemic patients
- ☐ Are always observed in hyperglycemic patients



✗ A clot that forms deep in a leg is called an aplastic crisis. *

0/2

1. False

2. True

✗

✓ Hematology is: *

2/2

- ☐ The study of cancer
- ☐ The study of sleep disorders
- ☐ The study of skin related diseases
- ☒ The study of blood related diseases

✓

✓ When patients use fat for energy, the waste products increase the acid levels in the blood and tissues.

*2/2

1. False

2. True

✓

✓ Acidosis is : *

2/2

- ☐ A pathologic condition resulting from the accumulation of bases in the body
- ☐ Part of the endocrine system
- ☒ A pathologic condition resulting from the accumulation of acids in the body
- ☐ Caused by insulin and glucose

✓



✓ Oral diabetic medications do NOT include : *

2/2

- ☒ Insulin
- ☐ Januvia
- ☐ Metformin
- ☐ Glucotrol



✓ Glucose is : *

2/2

- ☐ Broken down in the stomach
- ☒ A primary fuel, along with oxygen, for cellular metabolism
- ☐ A medication taken to prevent hyperglycemia
- ☐ A hormone responsible for ATP production



✓ The term for excessive urination is : *

2/2

- ☐ Polydactyl
- ☐ Polyphagia
- ☒ Polyuria
- ☐ Polydipsia



✗ Determination of hyperglycemia of hypoglycemia should be: *

0/2

1. Done before transport
2. Based on your knowledge of signs and symptoms of each condition
3. Determined by a urine glucose test

✗

✓ Diabetes mellitus is : *

2/2

- ☐ A disorder requiring administration of hypertension medication
- ☒ A disorder affecting the metabolism of glucose
- ☐ A disorder affecting the levels of calcium in the body
- ☐ A disorder requiring monitoring of liver enzymes

✓

✓ The accumulation of ketones and fatty acids in the blood tissue can lead to the dangerous condition in diabetic patients known as : *2/2

- ☐ Hyperosmolar hyperglycemic nonketotic coma (HHNC)
- ☐ Splenic shock
- ☒ Diabetic ketoacidosis
- ☐ Insulin shock

✓



✗ Symptomatic hyperglycemia is : *

0/2

- ☒ Is a result of a patient consuming a large meal ✗
- ☐ A state of unconsciousness resulting from several problems; including, ketoacidosis, dehydration, and hyperglycemia
- ☐ A state of unconsciousness resulting from several problems; including, bulimia, insomnia and hypoglycemia
- ☐ A inherited disease

✗ Which of the following is a contraindication for administration of oral glucose?

*0/2

- ☐ Altered mental status
- ☐ Recent surgery
- ☐ Inability to swallow
- ☒ History of diabetic ketoacidosis ✗

✗ The patient with diabetic ketoacidosis (DKA) will generally have a glucose level higher than :

*0/2

- ☒ 300 mg/dL ✗
- ☐ 400 mg/dL
- ☐ 200 mg/dL
- ☐ 100 mg/dL



✗ Insulin is one of the basic sugars essential for cell metabolism in humans.

*0/2

1. False

2. True

✗

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