

### Question 1

The predominant effect of a drug with primarily alpha properties would result in which of the following?

- A) Vasodilation
- B) Increased heart rate
- C) Decreased heart rate
- D) Vasoconstriction

Answer: <https://biology-forums.com/index.php?topic=793747>

### Question 2

The alternate pathway that reacts quickly to foreign bodies and uses antibodies and inflammation to combat pathogens is the \_\_\_\_\_ system.

- A) complement
- B) lymphatic
- C) humoral
- D) cell-mediated

Answer: <https://biology-forums.com/index.php?topic=794254>

### Question 3

Which of the following structures FIRST allows gas exchange as air enters the lungs?

- A) Respiratory bronchioles
- B) Alveolar ducts
- C) Alveolar sacs
- D) Terminal bronchioles

Answer: <https://biology-forums.com/index.php?topic=793628>

### Question 4

Your patient is a 49-year-old male complaining of a headache and weakness of his left arm, accompanied by nausea and vomiting. The information that would be most helpful in differentiating a brain abscess from a brain tumor is whether or not the patient:

- A) has had a seizure.
- B) exhibits nuchal rigidity.
- C) has had a change in the level of responsiveness.
- D) has a recent history of brain surgery.

Answer: <https://biology-forums.com/index.php?topic=793859>

### Question 5

Fibrinolytics are effective against:

- A) any clot.
- B) clots containing fibrin.
- C) occlusions only in the heart.
- D) occlusions only in the brain.

Answer: <https://biology-forums.com/index.php?topic=794222>

### Question 6

Your patient is a conscious and alert 22-year-old female who was stung by a hornet. She states that she has "allergies to bee stings" and has been told that she could die if stung. Your physical examination reveals a 1-cm-diameter, red, edematous area where she was stung on the left forearm. Her skin is warm and dry, and her lung sounds are clear and equal bilaterally. HR = 12 and regular, BP = 122/82, RR = 12 and regular, SaO<sub>2</sub> = 98%. The most appropriate treatment for this patient would include:

- A) 100 percent oxygen via nonrebreather mask 15 lpm, IV of NS 1-2 L, epinephrine 1:1000 0.3 mg SC, diphenhydramine 25 mg IV.
- B) IV as soon as possible with a crystalloid solution.
- C) 15 lpm oxygen by nonrebreather, epinephrine 1:1000 0.3 mg SC, diphenhydramine 25 mg IV, transport.
- D) transport only.

Answer: <https://biology-forums.com/index.php?topic=793953>

### Question 7

Which of the following correctly lists the organs and regions of the gastrointestinal tract in sequence after the stomach?

- A) Duodenum, jejunum, ileum, descending colon, transverse colon, ascending colon, rectum, anus
- B) Duodenum, ileum, jejunum, large intestine, anus, rectum
- C) Jejunum, duodenum, ileum, large intestine, anus, rectum
- D) Duodenum, jejunum, ileum, ascending colon, transverse colon, descending colon, rectum, anus

Answer: <https://biology-forums.com/index.php?topic=793999>

### Question 8

Which of the following cause(s) injury by inducing liquefaction necrosis?

- A) Caustics
- B) Alkalis
- C) Emulsifiers
- D) Acids

Answer: <https://biology-forums.com/index.php?topic=794123>

### Question 9

Your patient is a 24-year-old male with a history of type I diabetes. You were called to his place of employment because he was behaving bizarrely. On your arrival he is confused and combative with a blood glucose level of 41 mg/dL. Due to poor vasculature and the patient's combativeness, you have not been able to start an IV. Which of the following is the best course of action?

- A) Administer 1 mg glucagon, IM.
- B) Administer 5 mg Valium, IM, and attempt the IV again when the patient is less agitated.
- C) Administer half an amp (12.5 g) of 50 percent dextrose, IM.
- D) Use four-point restraints to restrain the patient and transport. Attempt the IV again if the patient becomes unresponsive.

Answer: <https://biology-forums.com/index.php?topic=793934>

### Question 10

Which of the following agencies monitors national disease data and provides disease information to health care providers?

- A) DHHS
- B) CDC
- C) OSHA
- D) NIOSH

Answer: <https://biology-forums.com/index.php?topic=794240>

### Question 11

Which of the following best describes a profound melancholy characterized by a diminished interest in daily pleasures, hypersomnia, feelings of worthlessness, inability to concentrate, and agitation?

- A) Bipolar disorder
- B) Schizoaffective disorder
- C) Dysthymia
- D) Depression

Answer: <https://biology-forums.com/index.php?topic=794334>

### Question 12

Your first priority in the treatment of an inhaled toxin is to:

- A) decontaminate the patient.
- B) remove the patient from the source.
- C) flood with oxygen.
- D) deluge with water.

Answer: <https://biology-forums.com/index.php?topic=794165>

### Question 13

Oliguria is defined as:

- A) urine output of less than 400-500 mL daily.
- B) urine output of less than 4000-5000 mL daily.
- C) urine output of less than 100-200 mL daily.
- D) urine output of less than 1000-2000 mL daily.

Answer: <https://biology-forums.com/index.php?topic=794089>

### Question 14

Which of the following is NOT a common form of pathogen transmission?

- A) Cough
- B) Sneeze
- C) Sexual contact
- D) Organisms shed into the environment

Answer: <https://biology-forums.com/index.php?topic=794284>

### Question 15

Hepatitis A is can exist on unwashed hands for:

- A) 5 days.
- B) 4 days.
- C) 6 hours.
- D) 4 hours.

Answer: <https://biology-forums.com/index.php?topic=794296>

### Question 16

Which of the following endocrine substances acts as a marker for congestive heart failure?

- A) BNP
- B) Angiotensin
- C) ACTH
- D) Troponin

Answer: <https://biology-forums.com/index.php?topic=793685>

### Question 17

Which of the following best describes four-point restraints?

- A) Straps restraining the patient across the chest, hips, thighs, and legs
- B) A separate restraint on each of the four extremities
- C) A commercially manufactured restraint device
- D) Restraint of the head, torso, arms, and legs

Answer: <https://biology-forums.com/index.php?topic=794345>

### Question 18

In response to an increase in blood sugar, the pancreas will release insulin to:

- A) produce more glucose.
- B) allow the glucose to permeate the cell membrane.
- C) allow glucose to be wasted in the urine.
- D) allow glucose to cross the blood-brain barrier.

Answer: <https://biology-forums.com/index.php?topic=793942>

### Question 19

The primary neurotransmitter of the parasympathetic nervous system is:

- A) epinephrine.
- B) acetylcholine.
- C) retelease.
- D) dopamine.

Answer: <https://biology-forums.com/index.php?topic=793869>

### Question 20

Pulmonary embolism is a problem of:

- A) interstitial edema.
- B) ventilation of lungs.
- C) thickness of the respiratory membrane.
- D) perfusion of the lungs.

Answer: <https://biology-forums.com/index.php?topic=793594>

### Question 21

The amount of resistance that must be overcome by the left ventricle during systole is called:

- A) stroke volume.
- B) preload.
- C) cardiac output.
- D) afterload.

Answer: <https://biology-forums.com/index.php?topic=793729>

### Question 22

You respond to a nursing home for an ill patient. Upon your arrival, the staff tells you that over the past few days the patient's urine output has been

steadily declining. Today, the patient has voided only approximately 400 mL. You suspect:

- A) chronic renal failure.
- B) acute renal failure.
- C) renal calculi.
- D) pyelonephritis.

Answer: <https://biology-forums.com/index.php?topic=794088>

### Question 23

You respond to a call of an ill person. Upon arrival, you find your patient complaining of diffuse abdominal pain and hematemesis. When asked, the patient states that the emesis was "coffee ground" in nature. You suspect:

- A) lower GI bleed.
- B) upper GI bleed.
- C) melena.
- D) esophageal varices.

Answer: <https://biology-forums.com/index.php?topic=794041>

### Question 24

Glucose is excreted through the urea above which level?

- A) 250 mg/dL
- B) 500 mg/dL
- C) 150 mg/dL
- D) 180 mg/dL

Answer: <https://biology-forums.com/index.php?topic=794085>

### Question 25

Myocardial ischemia may result in:

- A) J waves.
- B) ST segment depression.
- C) QRS duration greater than 0.12 seconds.
- D) inverted P waves.

Answer: <https://biology-forums.com/index.php?topic=793716>

### Question 26

The family members of a 72-year-old female state that the patient complained of a sudden, severe headache; had slurred speech; then became unresponsive. She responds to painful stimuli with decorticate posturing and has snoring respirations at a rate of 10 per minute. Her radial pulse is palpable but grossly irregular. According to her son, she also suffers from congestive heart failure, hypertension, and diabetes. Which of the following should you do first?

- A) Attach the cardiac monitor.
- B) Manage the airway with a modified jaw-thrust maneuver.
- C) Check her blood sugar.
- D) Insert an endotracheal tube.

Answer: <https://biology-forums.com/index.php?topic=793854>

### Question 27

Which of the following statements regarding a dialysis fistula is TRUE?

- A) A fistula is a surgical anastomosis of an artery and a vein.
- B) The fistula is the preferred site of venous access in an emergency situation.
- C) A fistula uses a dual lumen tube to connect an artery and a vein.
- D) The fistula is inserted peripherally, but the end of it is placed near the right atrium.

Answer: <https://biology-forums.com/index.php?topic=794077>

### Question 28

You should most highly suspect that a patient with tremors, periodic muscular rigidity, slowed movement, and impaired balance and coordination suffers from:

- A) peripheral neuralgia.
- B) amyotrophic lateral sclerosis.
- C) autonomic dysreflexia.
- D) Parkinson's disease.

Answer: <https://biology-forums.com/index.php?topic=793818>

### Question 29

Which of the following best describes an emotional reaction characterized by rage?

- A) Emotional lability
- B) Anger
- C) Dread
- D) Irrationality

Answer: <https://biology-forums.com/index.php?topic=794330>

### Question 30

Which of the following is NOT a known transmission route for hepatitis B?

- A) Blood transfusion
- B) Dialysis
- C) Tattooing
- D) Insect bites

Answer: <https://biology-forums.com/index.php?topic=794242>

### Question 31

One cause of altered mental status that you are able to quickly rule out is:

- A) hyperglycemia.
- B) hypoglycemia.
- C) TIA.
- D) CVA.

Answer: <https://biology-forums.com/index.php?topic=793876>

### Question 32

Which of the following best describes the mechanism of action of ACE inhibitors?

- A) They inhibit sodium reabsorption, causing increased excretion of sodium.
- B) They increase the GFR directly.
- C) They inhibit the conversion of angiotensin I to angiotensin II.
- D) They inhibit the formation of renin in the renin-angiotensin system.

Answer: <https://biology-forums.com/index.php?topic=794066>

### Question 33

You respond to an ill patient. You note that the patient appears jaundiced and has a white frosty dust on his skin. You suspect:

- A) eczema.
- B) scabies.
- C) uremic frost.
- D) renal frost.

Answer: <https://biology-forums.com/index.php?topic=794091>

### Question 34

Demographics are:

- A) statistics related to the morbidity and mortality of all illnesses and injuries.
- B) geographical distributions of illness and injury.
- C) statistics related to the incidence of infectious disease.
- D) characteristics of human populations.

Answer: <https://biology-forums.com/index.php?topic=794252>

### Question 35

Your patient is an 18-year-old female suffering from sickle cell crisis. Which of the following is the best course of treatment for this patient?

- A) High-concentration oxygen, IV NS KVO, diphenhydramine
- B) High-concentration oxygen, IV bolus of NS
- C) High-concentration oxygen, IV bolus of NS, morphine sulfate
- D) High-concentration oxygen, IV NS KVO

Answer: <https://biology-forums.com/index.php?topic=794211>

### Question 36

Which of the following is least likely to be a precipitating factor of thyrotoxic crisis?

- A) Trauma
- B) Cold environment
- C) Infection
- D) Overdose of thyroid hormone

Answer: <https://biology-forums.com/index.php?topic=793897>

### Question 37

The nervous system is divided into which two main parts?

- A) Central and autonomic
- B) Autonomic and cranial
- C) Peripheral and autonomic
- D) Central and peripheral

Answer: <https://biology-forums.com/index.php?topic=793865>

### Question 38

LSD and PCP are examples of:

- A) amphetamines.
- B) hallucinogens.
- C) sedatives.
- D) narcotics.

Answer: <https://biology-forums.com/index.php?topic=794113>

### Question 39

An elevation of the ST segment is associated with:

- A) hyperkalemia.
- B) left ventricular hypertrophy.
- C) slowed conduction through the AV node.
- D) myocardial injury.

Answer: <https://biology-forums.com/index.php?topic=793755>

### Question 40

An allergen's most common route of entry in an anaphylactic reaction is:

- A) absorption.
- B) ingestion.
- C) injection.
- D) inhalation.

Answer: <https://biology-forums.com/index.php?topic=793970>

### Question 41

All of the following may be associated with urinary tract infection EXCEPT:

- A) cystitis.
- B) cholecystitis.
- C) prostatitis.
- D) pyelonephritis.

Answer: <https://biology-forums.com/index.php?topic=794060>

### Question 42

Which of the following is a collection of genetic diseases characterized by progressive muscle weakness and skeletal muscle degeneration?

- A) Multiple sclerosis
- B) Myasthenia gravis
- C) Muscular dystrophy
- D) Amyotrophic lateral sclerosis

Answer: <https://biology-forums.com/index.php?topic=793828>

### Question 43

A series of two or more generalized motor seizures without an intervening period of consciousness is known as:

- A) status epilepticus.
- B) hypertonic seizures.
- C) a complex partial seizure.
- D) a petit mal seizure.

Answer: <https://biology-forums.com/index.php?topic=793814>

#### Question 44

Which of the following questions would best help you determine if the pathology of a patient's complaint has been progressing?

- A) "On a scale of 0 to 10, with 10 being the worst pain possible, how would you have rated the pain when it started? How would you rate the pain now?"
- B) "When did your pain first start?"
- C) "Have you ever felt this pain before?"
- D) "On a scale of 1 to 10, with 10 being the worst pain possible, how would you rate this pain?"

Answer: <https://biology-forums.com/index.php?topic=794015>

#### Question 45

A potassium level of 8.0 would commonly be associated with which ECG finding?

- A) T wave merging with QRS
- B) Delta wave
- C) U wave
- D) Flattening T wave

Answer: <https://biology-forums.com/index.php?topic=793786>

#### Question 46

Which of the following best describes a person's state of cerebral functioning?

- A) Mental status
- B) Affect
- C) Level of consciousness
- D) Intelligence

Answer: <https://biology-forums.com/index.php?topic=794343>

#### Question 47

All of the following contribute to the pathogenesis of diverticulosis EXCEPT:

- A) decreased colon motility.
- B) herniation of mucosa and submucosa through the teniae coli.
- C) increased colon pressure.
- D) low-fiber diet.

Answer: <https://biology-forums.com/index.php?topic=793988>

#### Question 48

Alcohol is classified as a(n):

- A) stimulant.
- B) anxiolytic.
- C) depressant.
- D) hallucinogen.

Answer: <https://biology-forums.com/index.php?topic=794128>

#### Question 49

Your patient is a 44-year-old female with a history of hiatal hernia. She is complaining of diffuse abdominal pain. All four quadrants are tender to palpation. She also states that she has vomited numerous times and describes the presence of bile. You note that her abdomen is slightly distended, and auscultation of her abdomen reveals absent bowel sounds. Of the following, which is the most likely cause of her clinical condition?

- A) Pancreatitis
- B) Cholecystitis
- C) Diverticulitis
- D) Bowel obstruction

Answer: <https://biology-forums.com/index.php?topic=794013>

#### Question 50

The father of a 15-year-old male who has had a generalized seizure asks you why his son turned blue during the seizure. Which of the following is the best answer?

- A) "The heart slows down and the blood pressure drops during a seizure, causing a lack of circulation to the skin."
- B) "The muscles used in breathing cannot work effectively during the seizure, decreasing the amount of oxygen in the blood."
- C) "It is a normal part of the seizure process and nothing to worry about."
- D) "The brain stem stops working during a seizure, which causes breathing to stop, decreasing the amount of oxygen in the blood."

Answer: <https://biology-forums.com/index.php?topic=793855>

### Question 51

Which of the following is TRUE concerning sickle cell anemia?

- A) It is a hereditary disease involving abnormal hemoglobin.
- B) It is a hereditary disease involving lack of intrinsic factor.
- C) It is an autoimmune disease in which the body destroys its own hemoglobin.
- D) It is an acquired disease in which the body cannot absorb iron.

Answer: <https://biology-forums.com/index.php?topic=794210>

### Question 52

You are examining a patient who was recently involved in a traumatic incident. You notice that the patient is now exhibiting periumbilical ecchymosis. This is known as:

- A) Grey Turner's sign.
- B) Cullen's sign.
- C) Edwards' sign.
- D) rigidity sign.

Answer: <https://biology-forums.com/index.php?topic=794037>

### Question 53

The lead to the left of the sternum at the fourth intercostal space is:

- A) V1.
- B) V2.
- C) V3.
- D) V4.

Answer: <https://biology-forums.com/index.php?topic=793739>

### Question 54

Atrial depolarization is represented on the ECG by the:

- A) P wave.
- B) ORS.
- C) T wave.
- D) J point.

Answer: <https://biology-forums.com/index.php?topic=793776>

### Question 55

In addition to determining potential toxicity based on the type of agent, poison control centers are able to:

- A) refer the patient to a specialist.
- B) determine whether transport is needed.
- C) guide the paramedic in starting definitive treatment in the field.
- D) give the paramedic documentation advice.

Answer: <https://biology-forums.com/index.php?topic=794159>

### Question 56

Which of the following statements about *Streptococcus pneumoniae* is TRUE?

- A) Vaccines are ineffective against *Streptococcus pneumoniae*.
- B) It is the second most common cause of pneumonia in adults.
- C) It is the leading cause of meningitis in children.
- D) It is an infrequent cause of otitis media in children.

Answer: <https://biology-forums.com/index.php?topic=794269>

### Question 57

A life-threatening medical condition that is caused by systemic inflammatory response syndrome (SIRS) is:

- A) hypoglycemia.
- B) thrombocytopenia.
- C) septicemia.
- D) pernicious anemia.

Answer: <https://biology-forums.com/index.php?topic=794281>



### Question 58

You suspect your patient is experiencing a hemorrhagic stroke. He is confused, has a respiratory rate of 20, and a blood pressure of 178/88. Which of the following additional findings would most increase your suspicion of increased intracranial pressure?

- A) Slurred speech
- B) Hallucinations
- C) Anterograde amnesia
- D) Heart rate of 50

Answer: <https://biology-forums.com/index.php?topic=793822>

### Question 59

Which of the following is NOT a difference between cellular and humoral immunity?

- A) Humoral immunity uses memory cells, while cell-mediated immunity does not.
- B) T cells mature in the thymus gland, but B cells mature in lymph tissue.
- C) T cells use cytotoxins to destroy pathogens, while B cells use antibodies.
- D) Cellular immunity concerns itself with pathogens in cells and tissue; humoral concerns itself with pathogens in the lymph.

Answer: <https://biology-forums.com/index.php?topic=794183>

### Question 60

With occlusion of the SMA or IMA vascular structures, what gastrointestinal emergency may occur?

- A) Renal infarction
- B) Hepatic encephalitis
- C) Pancreatitis
- D) Mesenteric ischemia

Answer: <https://biology-forums.com/index.php?topic=794032>

### Question 61

To test for Brudzinski's sign you would:

- A) have the patient take a deep breath while you palpate under the right costal margin.
- B) check for periumbilical ecchymosis.
- C) place the patient in a supine position and flex the neck.
- D) stroke the bottom of the foot from heel to toe with a pen.

Answer: <https://biology-forums.com/index.php?topic=794275>

### Question 62

Increasing PaCO<sub>2</sub> will cause:

- A) cerebral vasoconstriction.
- B) cerebral vasodilation.
- C) hyperventilation syndrome.
- D) ataxic respirations.

Answer: <https://biology-forums.com/index.php?topic=793872>

### Question 63

Elastic and smooth muscle fibers are primarily found in the tunica \_\_\_\_\_ of blood vessels.

- A) collateralus
- B) media
- C) adventitia
- D) intima

Answer: <https://biology-forums.com/index.php?topic=793695>

### Question 64

Treatment of a patient in acute renal failure may include all of the following EXCEPT:

- A) IV normal saline.
- B) dialysis.
- C) furosemide.
- D) potassium.

Answer: <https://biology-forums.com/index.php?topic=794051>

### Question 65

All the following pathogens typically cause meningitis in children EXCEPT:

- A) Haemophilus influenza type B
- B) Streptococcus pneumoniae
- C) Neisseria meningitidis
- D) Paramyxovirus

Answer: <https://biology-forums.com/index.php?topic=794270>

### Question 66

A pathological Q wave indicating infarction should measure:

- A) 0.004 second.
- B) 0.12 second.
- C) 0.32 second.
- D) 0.04 second.

Answer: <https://biology-forums.com/index.php?topic=793794>

### Question 67

You are called to the home of a 28-year-old male who is complaining of hoarseness, a scratchy sensation in the back of his throat, and palpitations. The symptoms began about 30 minutes ago and have grown steadily worse ever since the patient ingested prescribed penicillin 1 hour ago. Patient management should include all of the following EXCEPT:

- A) epinephrine 1:1000 0.3 mg SC.
- B) administration of an IV beta-blocker.
- C) IV of crystalloid solution such as lactated Ringer's or normal saline.
- D) high-concentration oxygen via nonrebreather mask.

Answer: <https://biology-forums.com/index.php?topic=793965>

### Question 68

For which of the following diseases is there no vaccine?

- A) Measles
- B) Croup
- C) Mumps
- D) Rubella

Answer: <https://biology-forums.com/index.php?topic=794232>

### Question 69

The leading cause(s) of end-stage renal failure is (are):

- A) renal calculi and kidney infection.
- B) acute renal failure.
- C) uncontrolled diabetes mellitus and hypertension.
- D) kidney infection.

Answer: <https://biology-forums.com/index.php?topic=794072>

### Question 70

Inhalation of a poison causes:

- A) absorption by the trachea.
- B) absorption through the alveolar-capillary membrane.
- C) increase in secretions.
- D) aspiration.

Answer: <https://biology-forums.com/index.php?topic=794161>

### Question 71

A 64-year-old female is alert and oriented, in moderate respiratory distress, and complaining of chest pain. She describes an acute onset of right-sided chest pain that radiates across her chest. Physical examination reveals cold, diaphoretic skin; lung sounds with crackles bilaterally; JVD; and peripheral edema. Medical history includes hypertension, prior myocardial infarction, and heart failure. HR = 128, BP = 86/56, RR = 26, SaO<sub>2</sub> = 92%. Which of the following is appropriate in the prehospital treatment of this patient?

- A) Dopamine
- B) Nitroglycerin
- C) Amiodarone
- D) Morphine

Answer: <https://biology-forums.com/index.php?topic=793706>

### Question 72

Poisonous proteins shed by bacteria growth are called:

- A) exotoxins.
- B) endotoxins.
- C) spores.
- D) fungi.

Answer: <https://biology-forums.com/index.php?topic=794283>

### Question 73

Which of the following provides evidence that a patient is using accessory muscles to breathe?

- A) The patient is using his diaphragm with inspiration.
- B) The patient's lips are pursed.
- C) There is noticeable contraction of the intercostal muscles.
- D) The patient is sitting up, leaning forward to breathe.

Answer: <https://biology-forums.com/index.php?topic=793597>

### Question 74

One large box on the ECG paper indicates:

- A) 0.20 seconds.
- B) 0.04 seconds.
- C) 2 seconds.
- D) 4 seconds.

Answer: <https://biology-forums.com/index.php?topic=793775>

### Question 75

Your patient is a 52-year-old female who is alert but slightly confused after a syncopal episode lasting about 1 minute. She has no complaints, and your physical exam reveals no abnormalities aside from slight confusion. She has had a stroke and has a history of type II diabetes and hypertension. HR = 100, BP = 132/84, RR = 12, SaO<sub>2</sub> = 99%. Which of the following is the least likely cause of the patient's episode?

- A) Orthostatic hypotension
- B) Hypoglycemia
- C) Transient ischemic attack
- D) Transient cardiac arrhythmia

Answer: <https://biology-forums.com/index.php?topic=793850>

### Question 76

Which of the following situations would NOT result in anemia?

- A) Blood loss
- B) Destruction of red blood cells
- C) Increased production of erythropoietin
- D) Iron deficiency

Answer: <https://biology-forums.com/index.php?topic=794200>

### Question 77

Your patient is a 43-year-old female with a history of peanut allergy. She is complaining of dizziness after eating a casserole that she later discovered contained peanuts. Your physical examination reveals warm, diaphoretic skin; a blotchy, red rash covering her chest and arms; and lung sounds that are clear and equal bilaterally. HR = 122, BP = 124/76, RR = 15 and regular, SaO<sub>2</sub> = 97%. In addition to providing oxygen, appropriate treatment for this patient includes:

- A) IV of NS wide open, epinephrine 1:1000 SC, diphenhydramine IV.
- B) IV with crystalloid solution such as lactated Ringer's or normal saline.
- C) IV with crystalloid solution such as lactated Ringer's or normal saline, epinephrine 1:1000 SC, diphenhydramine IV.
- D) IV with crystalloid solution such as lactated Ringer's or normal saline, epinephrine 1:1000 SC, diphenhydramine IV, nebulized albuterol.

Answer: <https://biology-forums.com/index.php?topic=793966>

### Question 78

Which of the following statements about patient restraint is FALSE?

- A) Patients should be transported in a prone position.
- B) Restraining the thighs just above the knees can be more effective at preventing kicking than restraining at the ankles.
- C) Verbal methods of deescalation should be tried before considering physical restraint.
- D) Neuromuscular blocking agents should never be used to restrain a patient.

Answer: <https://biology-forums.com/index.php?topic=794326>

### Question 79

Your patient is complaining of "coughing up blood," or, in medical terms:

- A) hemothorax.
- B) hemoptysis.
- C) neoplasm.
- D) hemopulmonary spasm.

Answer: <https://biology-forums.com/index.php?topic=793646>

### Question 80

Which of the following organisms causes mononucleosis?

- A) Epstein-Barr virus
- B) *Pediculus humanus capitis*
- C) *Treponema*
- D) Herpes zoster

Answer: <https://biology-forums.com/index.php?topic=794237>

### Question 81

Your patient is a 32-year-old female who is alert and complaining of dysuria. She describes a three-day history of pain with urination and urinary urgency and difficulty. She describes the pain as a 5 on a scale of 0 to 10. Physical examination reveals tenderness on palpation of the lower abdomen bilaterally and warm, dry skin. HR = 88, BP = 126/78, RR = 12. The most appropriate action is:

- A) oxygen, IV fluids, morphine.
- B) Expedite transport in position of comfort.
- C) oxygen, IV fluids.
- D) IV fluids, morphine.

Answer: <https://biology-forums.com/index.php?topic=794054>

### Question 82

A three-year-old male patient has a history of an underdeveloped cell-mediated immune system. Which of the following most likely contribute to this deficiency?

- A) Hypoadrenalism
- B) HIV infection
- C) Type I diabetes mellitus
- D) Thymus gland insufficiency and a lack of thymosin secretion

Answer: <https://biology-forums.com/index.php?topic=793891>

### Question 83

Which of the following is NOT likely to negatively impact the emotional or behavioral status of a patient with a psychiatric disorder?

- A) Medical illness
- B) Following the same routine daily
- C) Stressful situations
- D) Taking recreational drugs and using alcohol

Answer: <https://biology-forums.com/index.php?topic=794336>

### Question 84

Which of the following is a risk factor for stroke?

- A) Atrial fibrillation
- B) Premature atrial contractions
- C) First-degree heart block
- D) Sinus arrhythmia

Answer: <https://biology-forums.com/index.php?topic=793803>

### Question 85

Ventricular repolarization is represented on the ECG by the:

- A) P wave.
- B) QRS complex.
- C) T wave.
- D) J point.

Answer: <https://biology-forums.com/index.php?topic=793778>

### Question 86

A patient has accidentally ingested about 4 ounces of drain cleaner. Your primary concern should be:

- A) metabolic alkalosis.
- B) internal bleeding.
- C) potential airway compromise.
- D) decreased level of consciousness.

Answer: <https://biology-forums.com/index.php?topic=794093>

### Question 87

You are presented with a 42-year-old male who is unconscious with snoring respirations after a heroin overdose. HR = 64, BP = 98/50, RR = 6 and shallow, SaO<sub>2</sub> = 91%. Which of the following is the most appropriate initial treatment?

- A) Intubate, ventilate with supplemental oxygen
- B) IV access, administer a 250 cc fluid bolus
- C) BLS airway management and ventilation with supplemental oxygen
- D) IV access, administer naloxone

Answer: <https://biology-forums.com/index.php?topic=794143>

### Question 88

You respond to a report of a patient with shortness of breath. Upon arrival, you find a patient who has been stung by a bee. The patient is displaying urticaria and wheezing. You suspect:

- A) anaphylaxis.
- B) asthma.
- C) meningitis.
- D) ARDS.

Answer: <https://biology-forums.com/index.php?topic=793984>

### Question 89

Which of the following is the most important intrinsic risk factor for respiratory disease?

- A) Environment
- B) Smoking
- C) Sedentary lifestyle
- D) Family history

Answer: <https://biology-forums.com/index.php?topic=793580>

### Question 90

ECG findings associated with hypokalemia include:

- A) U waves and flat T waves.
- B) U waves and an Osborn wave.
- C) an Osborn wave and a "J" wave.
- D) flattened T waves and a widened QRS complex.

Answer: <https://biology-forums.com/index.php?topic=793669>

### Question 91

Prehospital treatment for a hemophiliac patient who is bleeding is to:

- A) contact online medical control for factor VIII infusion.
- B) provide aggressive IV therapy with isotonic crystalloids.
- C) control bleeding with direct pressure.
- D) administer IV colloid solutions.

Answer: <https://biology-forums.com/index.php?topic=794174>

### Question 92

Which of the following would directly result in decreased fibrinolysis?

- A) Increased factor X
- B) Decreased plasminogen secretion
- C) Increased plasmin secretion
- D) Hypercalcemia

Answer: <https://biology-forums.com/index.php?topic=794170>

### Question 93

A type of generalized seizure characterized by a rapid loss of consciousness and motor coordination, muscle spasms, and jerking motions is known as a(n):

- A) simple partial seizure.
- B) absence.
- C) tonic-clonic seizure.
- D) complex partial seizure.

Answer: <https://biology-forums.com/index.php?topic=793837>

### Question 94

Cushing's syndrome is a disorder of the:

- A) posterior pituitary gland.
- B) adrenal glands.
- C) thyroid gland.
- D) ovaries.

Answer: <https://biology-forums.com/index.php?topic=793935>

### Question 95

Your patient is a 72-year-old female, alert and oriented, sitting up in bed at a nursing home. She is in mild respiratory distress. The staff describes a four-day history of fever, malaise, and productive cough. The patient also states that she has been experiencing chills and chest pain with deep inspiration. Physical examination reveals rales and rhonchi in the right upper lobe and warm, moist skin. HR = 116, BP = 104/76, RR = 20, SaO<sub>2</sub> = 93%. Based on the clinical exam findings, the most appropriate diagnosis would be:

- A) pneumonia.
- B) emphysema.
- C) congestive heart failure.
- D) chronic bronchitis.

Answer: <https://biology-forums.com/index.php?topic=793627>

### Question 96

Poiseuille's law specifically states that blood flow through a vessel is directly proportional to the \_\_\_\_\_ of the vessel's radius.

- A) fourth power
- B) third power
- C) square
- D) tenth power

Answer: <https://biology-forums.com/index.php?topic=793723>

### Question 97

Which of the following is NOT a possible source of cyanide poisoning?

- A) Fume inhalation from burning plastic, synthetic carpeting, or silk
- B) Ingestion of apricot, pear, and cherry pits
- C) Long-term sodium nitroprusside therapy
- D) Improperly vented heating systems

Answer: <https://biology-forums.com/index.php?topic=794140>

### Question 98

When assessing a fistula used for hemodialysis, which of the following should concern you?

- A) Pulsation with each heartbeat
- B) A bruit on auscultation
- C) Bruising around the fistula
- D) Lack of a palpable vibration

Answer: <https://biology-forums.com/index.php?topic=794078>

### Question 99

Which of the following best describes why the secondary response to an antigen is faster than the primary response?

- A) The secondary response uses memory cells, which immediately release antibodies specific to the antigen.
- B) The secondary response uses memory cells, which immediately release antigens specific to the antibodies.
- C) The primary response uses B and T cells specific to the antigens.
- D) The secondary response has fewer steps than the primary response, allowing it to progress faster.

Answer: <https://biology-forums.com/index.php?topic=793950>

### Question 100

Which of the following best describes perceived loss of physical functioning without medical or traumatic cause?

- A) Somatization disorder
- B) Conversion disorder
- C) Catatonia
- D) Body dysmorphic disorder

Answer: <https://biology-forums.com/index.php?topic=794322>

### Question 101

Esophageal varices are most associated with:

- A) kidney disease.
- B) liver disease.
- C) gastroesophageal reflux disease.
- D) pancreatitis.

Answer: <https://biology-forums.com/index.php?topic=794030>

### Question 102

Which of the following statements regarding polycythemia is most accurate?

- A) It decreases the patient's risk of infection.
- B) It decreases the ability of blood to clot.
- C) It increases the patient's risk of infection.
- D) It increases the patient's risk of thrombosis and congestive heart failure.

Answer: <https://biology-forums.com/index.php?topic=794212>

### Question 103

A 36-year-old female is conscious and alert and complaining of palpitations. She denies chest pain, difficulty breathing, or loss of consciousness but becomes "dizzy" with exertion. She states that she has been experiencing agitation, insomnia, intolerance to heat, and weight loss. Physical exam reveals exophthalmos and an enlarged thyroid gland. HR = 142 and regular, BP = 110/70, RR = 14 and regular. Which of the following would be most effective in treating this patient?

- A) 250 cc fluid challenge
- B) 50 percent dextrose IV
- C) Synchronized cardioversion
- D) Propranolol

Answer: <https://biology-forums.com/index.php?topic=793898>

### Question 104

Abdominal pain that is dull in nature and cannot be narrowed to one specific area is known as:

- A) referred pain.
- B) somatic pain.
- C) visceral pain.
- D) Kehr's sign.

Answer: <https://biology-forums.com/index.php?topic=794034>

### Question 105

A 32-year-old female is conscious and alert at a group home for recovering alcoholics and states, "I'm having rum fits." Counselors from the home tell you that she is a chronic alcoholic who entered their program three days ago and has not had a drink since. Physical examination reveals cool, diaphoretic skin; dilated pupils bilaterally that are responsive to light; and obvious anxiety. HR = 122, BP = 156/104, RR = 20, SaO<sub>2</sub> = 99%, blood glucose = 62 mg/dL. Based on the clinical exam findings, all of the following should be part of your patient management EXCEPT:

- A) 25 g of D50W IV.
- B) metoprolol IV.
- C) IV of normal saline.
- D) thiamine 100 mg IM.

Answer: <https://biology-forums.com/index.php?topic=794133>

### Question 106

In a patient with a hematological disease resulting in production of high numbers of abnormal red blood cells, which of the following would you be most likely to find?

- A) Splenomegaly
- B) Fever

- C) Hepatomegaly
- D) Florid skin

Answer: <https://biology-forums.com/index.php?topic=794179>

### Question 107

A majority of carbon dioxide in the body is transported as:

- A) bicarbonate ion.
- B) hydrogen ion.
- C) hemoglobin.
- D) plasma.

Answer: <https://biology-forums.com/index.php?topic=793639>

### Question 108

Which of the following situations would result in a right shift of the oxygen-hemoglobin dissociation curve?

- A) Hypothermia
- B) Hyperventilation
- C) Sepsis
- D) Increase in 2,3-BPG

Answer: <https://biology-forums.com/index.php?topic=794180>

### Question 109

You are transporting a cardiac arrest when you achieve ROSC. You now want to keep the patient's systolic blood pressure in the range of:

- A) 120-130 mmHg.
- B) 60-70 mmHg.
- C) 80-100 mmHg.
- D) 20-40 mmHg.

Answer: <https://biology-forums.com/index.php?topic=793798>

### Question 110

The most important determinant of ventilatory rate is:

- A) arterial PO.
- B) SpPO.
- C) arterial PCO<sub>2</sub>.
- D) arterial NaHCO<sub>3</sub>.

Answer: <https://biology-forums.com/index.php?topic=793637>

### Question 111

Excessive preload over time would lead to:

- A) decreased capacity of the left ventricle.
- B) strengthening of the left ventricle.
- C) increased ejection fraction of the left ventricle.
- D) weakening of the left ventricle.

Answer: <https://biology-forums.com/index.php?topic=793719>

### Question 112

Your patient is a 40-year-old male. As a child he would have been least likely to have suffered from:

- A) RSV.
- B) pertussis.
- C) measles.
- D) mumps.

Answer: <https://biology-forums.com/index.php?topic=794239>

### Question 113

You respond to an ill patient experiencing flu-like symptoms. Upon your arrival, the patient states that she woke up not feeling well. The patient states that she has been heating her home with wood due to the electric bill being too high. You should suspect:

- A) carbon dioxide poisoning.
- B) carbon monoxide poisoning.
- C) hypercarbia.
- D) hypothermia.

Answer: <https://biology-forums.com/index.php?topic=794168>



### Question 114

The continued use of the drug despite the fact that it may be harmful and serves no medical purpose is:

- A) substance abuse.
- B) withdrawal.
- C) addiction.
- D) habituation.

Answer: <https://biology-forums.com/index.php?topic=794156>

### Question 115

Which of the following patients that have been TASERed do NOT meet the acceptable criteria to remove the TASER darts?

- A) A patient with a heart rate of 105/min
- B) A patient with a room SpO<sub>2</sub> of 96 percent
- C) A patient with the TASER dart embedded in the URQ of the abdomen
- D) A patient with the TASER dart embedded in the neck

Answer: <https://biology-forums.com/index.php?topic=794351>

### Question 116

Starling's law states that:

- A) the greater the contraction, the higher the afterload.
- B) the preload determines the cardiac output.
- C) the more the myocardial muscle is stretched, the greater the contraction.
- D) for every action, there is an equal and opposite reaction.

Answer: <https://biology-forums.com/index.php?topic=793763>

### Question 117

Your patient has ingested cyanide in a suicide attempt. Which of the following is the primary threat to life you should anticipate?

- A) Hypotension
- B) Pulmonary edema
- C) Cellular asphyxia
- D) Liver failure

Answer: <https://biology-forums.com/index.php?topic=794111>

### Question 118

Your patient is undergoing chemotherapy and is complaining of bleeding from the gums and blood in his stool. Which of the following will best address the patient's problem?

- A) Stopping the chemotherapy
- B) Administering platelets
- C) Administering erythropoietin
- D) Administering vitamin K

Answer: <https://biology-forums.com/index.php?topic=794204>

### Question 119

Which of the following statements about hyperglycemic hyperosmolar nonketotic coma (HHNK) is TRUE?

- A) Unlike diabetic ketoacidosis, HHNK is not life-threatening.
- B) Prehospital treatment of HHNK includes correcting metabolic acidosis.
- C) Aside from managing the ABCs, prehospital management is primarily aimed at correcting dehydration.
- D) Paradoxically, the definitive management of HHNK includes the administration of 50 percent dextrose.

Answer: <https://biology-forums.com/index.php?topic=793929>

### Question 120

The intrinsic firing rate of the AV node is \_\_\_\_\_ to \_\_\_\_\_ beats per minute.

- A) 40, 60
- B) 20, 40
- C) 60, 80
- D) 80, 100

Answer: <https://biology-forums.com/index.php?topic=793746>

### Question 121

You are transporting a patient to a tertiary trauma center. The patient is receiving blood and has sustained trauma the local center cannot handle. You notice that the patient has begun to develop tachycardia, hives, and a fever. You suspect:

- A) hypovolemia
- B) a normal response to a transfusion.
- C) transfusion reaction.
- D) anaphylaxis.

Answer: <https://biology-forums.com/index.php?topic=794223>

### Question 122

Abdominal pain that is sharp in nature and can be localized is known as:

- A) referred pain.
- B) somatic pain.
- C) visceral pain.
- D) Kehr's sign.

Answer: <https://biology-forums.com/index.php?topic=794035>

### Question 123

What is the most common cause of chronic gastroenteritis?

- A) Microbial infection
- B) Floral infection
- C) Elevated cortisol
- D) Use of NSAIDs

Answer: <https://biology-forums.com/index.php?topic=794031>

### Question 124

If the stroke volume decreased, which of the following would occur to maintain the blood pressure at its current value?

- A) Increased heart rate and increased peripheral vascular resistance
- B) Decreased heart rate and decreased peripheral vascular resistance
- C) Increased heart rate and decreased peripheral vascular resistance
- D) Decreased heart rate and increased peripheral vascular resistance

Answer: <https://biology-forums.com/index.php?topic=793682>

### Question 125

Which of the following statements about disseminated intravascular coagulation (DIC) is TRUE?

- A) The bleeding typical of DIC is a result of an increased fibrinogen level.
- B) DIC most commonly results from hemophilia, hypertension, and severe tissue injury.
- C) Causes of DIC include reduced fibrinogen levels, consumption of coagulation factors, and thrombocytopenia.
- D) Activated thrombin converts fibrinogen to fibrin in the circulating blood.

Answer: <https://biology-forums.com/index.php?topic=794188>

### Question 126

Which of the following would interfere with urine production?

- A) Benign prostatic hypertrophy
- B) Renal calculi
- C) Tumor in the renal pelvis
- D) Toxic damage to the nephrons

Answer: <https://biology-forums.com/index.php?topic=794065>

### Question 127

The anterior surface of the heart is best viewed by ECG leads:

- A) II, III, and aVF.
- B) V1-V4.
- C) I and aVL.
- D) aVR, aVL, and aVF.

Answer: <https://biology-forums.com/index.php?topic=793690>

### Question 128

HIV attacks and destroys the:

- A) B lymphocytes.
- B) T lymphocytes.

- C) pluripotent stem cells.
- D) macrophages.

Answer: <https://biology-forums.com/index.php?topic=794234>

### Question 129

You are assessing your respiratory patient. Of the following findings, which would concern you the most?

- A) Tachycardia
- B) Intercostal retractions
- C) Altered mental status
- D) Stridor

Answer: <https://biology-forums.com/index.php?topic=793645>

### Question 130

All of the following symptoms are consistent with urinary tract infection EXCEPT:

- A) passing hard, granular material in the urine.
- B) difficulty beginning and continuing to void.
- C) tenderness over one or both flanks.
- D) frequent urge to urinate.

Answer: <https://biology-forums.com/index.php?topic=794064>

### Question 131

Common chief complaints and symptoms associated with cardiac disease include all of the following EXCEPT:

- A) dyspnea.
- B) syncope.
- C) chest pain.
- D) vertigo.

Answer: <https://biology-forums.com/index.php?topic=793738>

### Question 132

Paramedics use all of the following interventions to treat congestive heart failure EXCEPT:

- A) sitting the patient upright.
- B) decreasing patient anxiety.
- C) administering oxygen
- D) administering fluid bolus to treat hypotension.

Answer: <https://biology-forums.com/index.php?topic=793727>

### Question 133

Which of the following is commonly indicated in the management of cocaine overdose?

- A) Thiamine
- B) Flumazenil
- C) Diazepam
- D) Narcan

Answer: <https://biology-forums.com/index.php?topic=794152>

### Question 134

Your patient is a 72-year-old male who is conscious but lethargic and sitting in a chair. His son states that the patient has been a bit slow lately and has been gaining weight. The medical history includes hypothyroidism and myocardial infarction. The patient has been compliant with his Synthroid and has nitroglycerin for use as needed. The patient responds to verbal stimuli, is confused, has a large tongue, and pale, cold, doughy skin. His only complaint is constipation. HR = 60 and regular, BP = 112/80, RR = 10 and shallow, SaO<sub>2</sub> = 92%, temperature = 88°F, blood glucose = 180 mg/dL.

Your treatment of this patient should include:

- A) infusion of 1 to 2 liters of warm normal saline.
- B) atropine 0.5 mg IV.
- C) rewarm with heat packs.
- D) oxygen, 4 lpm by nasal cannula.

Answer: <https://biology-forums.com/index.php?topic=793888>

### Question 135

Your patient is a 24-year-old male who has been an in-patient in a rehabilitation hospital following surgical fixation of a fractured pelvis. Staff reports sudden development of hypotension and severe respiratory distress about 30 minutes ago. There is no other significant history. Physical exam findings include cold, diaphoretic skin with peripheral cyanosis; jugular venous distension; clear breath sounds bilaterally; and vitals as follows: HR =

134, BP = 74/50, RR = 28, SaO<sub>2</sub> = 84%. Which of the following is most likely?

- A) Spontaneous tension pneumothorax
- B) Pulmonary embolism
- C) Myocardial infarction
- D) Idiopathic congestive heart failure

Answer: <https://biology-forums.com/index.php?topic=793622>

### Question 136

Which of the following most accurately represents the pathophysiological sequence of untreated type I diabetes?

- A) Oversecretion of insulin results in hypoglycemia; cells convert to the use of fats for energy resulting in the production of ketone bodies.
- B) Glucose is not absorbed through the gastrointestinal tract, resulting in hyposecretion of insulin and hypoglycemia. Lack of glucose results in anaerobic metabolism and acidosis.
- C) Hyposecretion of insulin prevents glucose from being broken down in the gastrointestinal tract; too much glucose is absorbed from the gastrointestinal tract resulting in hyperglycemia and ketoacidosis.
- D) Hyposecretion of insulin results in inability of glucose to enter cells; blood glucose levels rise, and cells convert to the use of fats for energy, resulting in the production of ketone bodies.

Answer: <https://biology-forums.com/index.php?topic=793924>

### Question 137

Your patient is a 30-year-old male complaining of pain radiating from the left flank into the groin. He states that it began as a vague pain in his flank, then became very sharp and radiating. Based on his description of his pain, you would also expect him to complain of:

- A) inability to urinate.
- B) purulent urethral discharge.
- C) fever.
- D) painful urination.

Answer: <https://biology-forums.com/index.php?topic=794050>

### Question 138

The administration of a vaccine results in \_\_\_\_\_ immunity.

- A) induced passive
- B) natural passive
- C) natural induced
- D) active

Answer: <https://biology-forums.com/index.php?topic=793972>

### Question 139

Abdominal pain that is originating in a region other than where it is felt is known as:

- A) referred pain.
- B) somatic pain.
- C) visceral pain.
- D) Kehr's sign.

Answer: <https://biology-forums.com/index.php?topic=794036>

### Question 140

Typical stroke volume is about \_\_\_\_\_ of the volume of the left ventricle.

- A) one-third
- B) one-half
- C) two-thirds
- D) three-quarters

Answer: <https://biology-forums.com/index.php?topic=793672>

### Question 141

As hepatitis progresses, the patient may become:

- A) edematous.
- B) jaundiced.
- C) more infectious.
- D) less infectious.

Answer: <https://biology-forums.com/index.php?topic=794295>

### Question 142

According to the 2009 extension of the Ryan White Care Act, an employee who has been exposed to an infectious disease has the right to:

- A) demand that the patient be tested for infectious disease.
- B) ask about the source patient's infection status.
- C) have the receiving ED draw a sample of the patient's blood for testing.
- D) nothing; HIPAA is in effect.

Answer: <https://biology-forums.com/index.php?topic=794292>

### Question 143

If a patient being treated for hypoparathyroidism stopped taking the medications prescribed for his condition, which of the following would be most likely to occur?

- A) Hypercalcemia
- B) Hyperkalemia
- C) Hypocalcemia
- D) Hypokalemia

Answer: <https://biology-forums.com/index.php?topic=793917>

### Question 144

Airway resistance is increased by:

- A) sympathetic nervous system stimulation.
- B) decreased elasticity of the chest wall.
- C) anticholinergic drugs.
- D) bronchospasm.

Answer: <https://biology-forums.com/index.php?topic=793584>

### Question 145

ETCO<sub>2</sub> is recorded during phase \_\_\_\_\_ of the capnogram.

- A) I
- B) II
- C) III
- D) IV

Answer: <https://biology-forums.com/index.php?topic=793602>

### Question 146

Upon palpation of your patient's abdomen you note that it is very tender under the right costal margin. This should be documented as a positive \_\_\_\_\_ sign.

- A) Murphy's
- B) Cullen's
- C) McBurney's
- D) Grey-Turner's

Answer: <https://biology-forums.com/index.php?topic=794024>

### Question 147

Which of the following is associated with CAPD?

- A) Catheter placed in the central circulation
- B) Catheter providing access to the abdominal cavity
- C) Dialysis shunt in either arm
- D) Dialysis fistula in either arm

Answer: <https://biology-forums.com/index.php?topic=794080>

### Question 148

Your patient is a 34-year-old female, eight weeks postpartum. She is alert and oriented but crying and extremely depressed. She states she "just can't go on like this." Her husband called EMS because she is distraught and cannot care for herself or the baby. Which of the following statements about this situation is TRUE?

- A) Postpartum depression is common, but it is not linked to suicide.
- B) The patient requires medical treatment.
- C) Suicide is not likely as long as the husband remains supportive.
- D) She should be advised not to have additional children.

Answer: <https://biology-forums.com/index.php?topic=794321>

### Question 149

You respond to an ill male patient. Upon arrival, you note a farmer who is complaining of not feeling well. The patient presents in a tripod position with copious secretions, lacrimation, vomiting, and evidence of urination and defecation. You suspect:

- A) anticholinergic exposure.
- B) cholinergic exposure.
- C) sympathomimetic exposure.
- D) extrapyramidal syndrome.

Answer: <https://biology-forums.com/index.php?topic=794166>

### Question 150

An ECG monitor is useful for:

- A) determining cardiac output.
- B) detecting the total electrical activity within the heart.
- C) determining stroke volume.
- D) evaluating the effectiveness of cardiac contractions.

Answer: <https://biology-forums.com/index.php?topic=793708>

### Question 151

As you are palpating your patient's chest, he speaks, and you can feel the vibration through the chest wall. You should document this as:

- A) crepitus.
- B) tactile fremitus.
- C) bronchovesicular sounds.
- D) a pleural friction rub.

Answer: <https://biology-forums.com/index.php?topic=793600>

### Question 152

You and your partner have just been notified by the infection control officer that you have been exposed to an active meningitis case. You would expect to receive prophylactic:

- A) Cipro.
- B) Zithromax.
- C) penicillin.
- D) nothing, just self-monitor.

Answer: <https://biology-forums.com/index.php?topic=794303>

### Question 153

Which of the following statements about corticosteroid use in anaphylaxis treatment is TRUE?

- A) Administration of high-dose corticosteroids results in peripheral vasoconstriction.
- B) Corticosteroids stabilize mast cell and basophil membranes, preventing degranulation and histamine release.
- C) Corticosteroids can reduce the inflammation associated with anaphylaxis.
- D) Corticosteroids can help reverse bronchospasm associated with anaphylaxis.

Answer: <https://biology-forums.com/index.php?topic=793954>

### Question 154

The mitral valve is also known as the \_\_\_\_\_ valve.

- A) pulmonic
- B) right atrioventricular
- C) left atrioventricular
- D) tricuspid

Answer: <https://biology-forums.com/index.php?topic=793742>

### Question 155

When evaluating a patient with a possible neurologic emergency, which acronym can help you remember the causes?

- A) TICKLES
- B) AVPU
- C) AEIOU-TIPS
- D) ISAL

Answer: <https://biology-forums.com/index.php?topic=793877>

### Question 156

Your patient is a 58-year-old female who is confused and dyspneic. Her daughter called EMS because the patient complained of a fluttering sensation in her chest, followed a few minutes later by chest pain and an acute onset of confusion. She is pale and diaphoretic without a palpable radial pulse.

The monitor shows a narrow complex rhythm at a rate of 180. Which of the following is most appropriate?

- A) Valsalva maneuver
- B) IV adenosine
- C) Immediate synchronized cardioversion
- D) IV diltiazem

Answer: <https://biology-forums.com/index.php?topic=793713>

### Question 157

Which of the following statements concerning Q waves on the ECG is most accurate?

- A) Q waves are not a normal finding on the ECG.
- B) The absence of a Q wave is a significant pathophysiological finding.
- C) A Q wave is significant if it is 0.04 or more seconds wide.
- D) A Q wave is only significant in the presence of chest pain.

Answer: <https://biology-forums.com/index.php?topic=793688>

### Question 158

Your patient is a 56-year-old female who is sitting on a park bench. She is conscious, though lethargic, and complaining of faintness. She states she has had a "chest cold" for the past week so had decided to stop taking her "blood pressure pills" until she felt better. She states that this morning she ingested five tablets instead of her normal one tablet dose to "catch up" after the days off. You note cool, slightly diaphoretic skin; lungs clear bilaterally; PEARL; and no motor deficits. HR = 48, BP = 76/30, RR = 12, SaO<sub>2</sub> = 97%. Which of the following is least likely to be the medication she overdosed on?

- A) Metoprolol
- B) Procardia
- C) Cardizem
- D) Verapamil

Answer: <https://biology-forums.com/index.php?topic=794106>

### Question 159

Your patient is a 24-year-old, 176-pound male who is alert and oriented 12 hours after ingesting thirty 500 mg tablets of Tylenol. Which of the following are the most likely complaints or findings?

- A) Confusion, lethargy, and hyperthermia
- B) Nausea, vomiting, weakness, and fatigue
- C) Abdominal pain and oliguria
- D) Signs and symptoms of liver failure

Answer: <https://biology-forums.com/index.php?topic=794125>

### Question 160

Which of the following best explains the cause of the histamine and heparin release in response to exposure to an antigen?

- A) Humoral cells have initiated a chemical attack on the antigens.
- B) IgE antibodies have attached themselves to the membranes of basophils and mast cells, resulting in degranulation.
- C) IgG and IgM antibodies have activated basophils and mast cells, resulting in degranulation.
- D) IgE antibodies have activated the membranes of B and T cells, resulting in release of histamine and heparin.

Answer: <https://biology-forums.com/index.php?topic=793973>

### Question 161

Which medication is best for improving hypotension secondary to anaphylactic shock?

- A) Diphenhydramine
- B) Epinephrine
- C) Hydrocortisone
- D) Oxygen

Answer: <https://biology-forums.com/index.php?topic=793964>

### Question 162

Release of acetylcholine at the neuroeffector junction would result in a(n):

- A) increase of both sympathetic and parasympathetic tone.
- B) positive dromotropic effect.
- C) negative chronotropic effect.
- D) positive inotropic effect.

Answer: <https://biology-forums.com/index.php?topic=793715>

### Question 163

Your patient is a 76-year-old female who was initially lethargic but responded to verbal stimuli. According to family members, the patient experienced a sudden decrease in responsiveness. She had a left-sided facial droop, aphasia, a dilated and nonreactive right pupil, and a flaccid left arm. Lung sounds are decreased bilaterally. HR = 58, BP = 172/102, RR = 6 and shallow, SaO<sub>2</sub> = 88%. As you start to treat her, the patient has a generalized seizure lasting about 30 seconds. She is now unresponsive. Which of the following is most appropriate?

- A) Intubation, IV of normal saline at a keep open rate, cardiac monitor, blood glucose determination, sublingual nitroglycerin spray, transport without delay
- B) Hyperventilate by bag-valve mask, IV of normal saline at a keep open rate, check blood glucose level, administer 25 gm of dextrose if needed, administer naloxone and thiamine, intubate if no improvement, transport without delay
- C) Intubation, IV of normal saline at a keep open rate, cardiac monitor, blood glucose determination, transport without delay
- D) Hyperventilate by bag-valve mask, IV of normal saline at a keep open rate, diazepam 5 mg IV, intubate if no improvement, transport without delay

Answer: <https://biology-forums.com/index.php?topic=793811>

### Question 164

When the body produces antibodies against itself, this is known as:

- A) immunology.
- B) allergy.
- C) autoimmunity.
- D) immunocompromise.

Answer: <https://biology-forums.com/index.php?topic=794287>

### Question 165

Your patient is a 24-year-old male Chinese citizen on vacation in the United States. He is in moderate distress, complaining of difficulty breathing and gives a four-day history of runny nose, sore throat, fever, chills, and general malaise with a productive cough. His sputum production was significantly worse when he woke this morning, and he developed difficulty breathing this afternoon. HR = 134, BP = 132/84, RR = 26, SaO<sub>2</sub> = 90%. This presentation is most consistent with:

- A) pneumonia.
- B) tuberculosis.
- C) SARS.
- D) hantavirus pulmonary syndrome.

Answer: <https://biology-forums.com/index.php?topic=793609>

### Question 166

A chemical substance that is released into the blood by a gland and that controls or affects processes in other glands or body systems is a(n):

- A) enzyme.
- B) hormone.
- C) leukotriene.
- D) neurotransmitter.

Answer: <https://biology-forums.com/index.php?topic=793895>

### Question 167

You are pruning a rosebush and puncture the skin on your thumb with a thorn. The next day you note that the area is swollen. Which of the following best explains the swelling that has occurred?

- A) Humoral immunity activation results in localized tissue damage and edema of the tissue surrounding the injury site.
- B) Localized vasodilation and increased capillary permeability result in plasma leakage into the tissue surrounding the injury site.
- C) Cell-mediated immunity activation results in chemotaxis and increased capillary permeability.
- D) There is an infection, resulting in edema to the surrounding tissue.

Answer: <https://biology-forums.com/index.php?topic=794194>

### Question 168

Your patient is suffering from end-stage liver disease. In which of the following ways would impairment of the hematologic system most likely be evident?

- A) Jaundice
- B) Polycythemia resulting in a florid appearance
- C) Vaso-occlusive crisis resulting in joint pain
- D) Leukocytosis

Answer: <https://biology-forums.com/index.php?topic=794202>

### Question 169



Which of the following classes of drugs is commonly abused to produce hyperactivity and exhilaration?

- A) Amphetamines
- B) Barbiturates
- C) Alcohol
- D) Benzodiazepines

Answer: <https://biology-forums.com/index.php?topic=794097>

### Question 170

The order Hymenoptera includes:

- A) wasps.
- B) jellyfish.
- C) spiders.
- D) scorpions.

Answer: <https://biology-forums.com/index.php?topic=794122>

### Question 171

Your patient is a 15-year-old asthmatic who has been having difficulty breathing for 45 minutes but does not have his Xopenex inhaler with him.

Capnography shows an ETCO<sub>2</sub> of 45 mmHg. The best way to interpret this finding is:

- A) this is a normal ETCO<sub>2</sub>, indicating that this is a mild asthma attack.
- B) the patient's ETCO<sub>2</sub> first dropped as he began to hyperventilate but now is rising again and may continue to rise to dangerous levels.
- C) this is a high ETCO<sub>2</sub>, and the patient requires immediate ventilatory assistance to prevent respiratory arrest.
- D) this is a low ETCO<sub>2</sub> indicating that the patient is hyperventilating and thus in the early stages of an asthma attack.

Answer: <https://biology-forums.com/index.php?topic=793608>

### Question 172

Which of the following should be suspected as a potential cause of syncope?

- A) Hypovolemia
- B) Cardiac arrhythmia
- C) Unknown cause
- D) All of the above

Answer: <https://biology-forums.com/index.php?topic=793819>

### Question 173

You are called to evaluate an ill child. The mother states that the child was fine a few hours ago but now is exhibiting, dysphonia, drooling, dysphagia, and distress. You suspect:

- A) croup.
- B) epiglottitis.
- C) bronchitis.
- D) influenza A.

Answer: <https://biology-forums.com/index.php?topic=794305>

### Question 174

Your patient is a 48-year-old female who is supine on the floor of a neighborhood health clinic. She became unconscious after receiving 250 mg of IM doxycycline. Clinic staff reports that the patient "broke out in hives and lost consciousness." The patient is being ventilated by bag-valve mask and has an IV of normal saline running wide open. A nurse practitioner on the scene informs you that, before your arrival, he administered 2 doses of 0.5 mg of epinephrine SC, 50 mg of diphenhydramine IV, and 1 L of NS. HR = 138; BP = 84/60; RR = 12/min, assisted with BVM; SaO<sub>2</sub> = 94%. Of the following, which is the most appropriate continued treatment of this patient?

- A) Intubate, Solu-Medrol IV, 250 cc NS fluid challenge, transport.
- B) Intubate, administration of dopamine IV infusion, rapid transport.
- C) Continue administering fluids and transport to the nearest facility.
- D) Initiate a second IV of NS wide open, intubate and hyperventilate, transport.

Answer: <https://biology-forums.com/index.php?topic=793967>

### Question 175

All the following are common signs or symptoms of lice infestation EXCEPT:

- A) red macules or papules on the affected areas.
- B) white, oval-shaped nits on the hair shafts.
- C) itching.
- D) open lesions in the affected areas.

Answer: <https://biology-forums.com/index.php?topic=794238>

### Question 176

Which of the following statements about measles and the measles virus is FALSE?

- A) Immunization is ineffective until age 15.
- B) Measles is highly communicable.
- C) Measles is transmitted by inhalation of infected droplets.
- D) Signs of measles infection include high fever and a maculopapular rash.

Answer: <https://biology-forums.com/index.php?topic=794265>

### Question 177

The pathophysiology of toxic inhalation involves:

- A) bronchodilation and destruction of cilia.
- B) irritation, edema, and destruction of alveolar tissue.
- C) pulmonary hypertension, alveolar atelectasis, and destruction of cilia.
- D) bronchoconstriction and dispersal of surfactant.

Answer: <https://biology-forums.com/index.php?topic=794148>

### Question 178

The posterior pituitary produces which two hormones?

- A) Insulin and glucagon
- B) Epinephrine and norepinephrine
- C) Growth hormone and gonadotropin
- D) ADH and oxytocin

Answer: <https://biology-forums.com/index.php?topic=793940>

### Question 179

Your patient is a 48-year-old female who is unconscious with snoring respirations after ingesting an unknown substance. You note cold, peripherally cyanotic skin and a weak, rapid pulse. Her pupils are equal and reactive but constricted. She has no unusual odors, and her blood glucose level is 80 mg/dl. HR = 74, BP = 100/68, RR = 4, SaO<sub>2</sub> = 91%. Which of the following is appropriate?

- A) Intubate, ventilate using supplemental oxygen, IV, 1 mEq/kg sodium bicarbonate
- B) Intubate, ventilate using supplemental oxygen, IV, 2 mg naloxone, 100 mg thiamine, 25 gm dextrose
- C) Assist ventilations using supplemental oxygen, IV, 2 mg naloxone
- D) Assist ventilations using supplemental oxygen, IV, 2 mg naloxone, 100 mg thiamine, 25 gm dextrose

Answer: <https://biology-forums.com/index.php?topic=794157>

### Question 180

Which of the following cells play a functional role in the inflammatory response?

- A) Neutrophils
- B) T lymphocytes
- C) Stem cells
- D) B lymphocytes

Answer: <https://biology-forums.com/index.php?topic=794248>

### Question 181

Which of the following is least pertinent in the prehospital setting when obtaining the history of a patient with a suspected transient ischemic attack or stroke?

- A) History of diabetes
- B) History of cardiovascular disease
- C) Allergies
- D) Medications

Answer: <https://biology-forums.com/index.php?topic=793847>

### Question 182

Cell-mediated immunity generates:

- A) T lymphocytes.
- B) B lymphocytes.
- C) inflammation.
- D) histamine.

Answer: <https://biology-forums.com/index.php?topic=794286>

### Question 183

You are caring for a patient you suspect of having an active TB infection. Your personal protective equipment (PPE) should include:

- A) Tyvek suit.
- B) hazmat level B protection.
- C) powered air-purifying respirator (PAPR) mask.
- D) N-95 mask.

Answer: <https://biology-forums.com/index.php?topic=794299>

### Question 184

Which of the following complaints is most typical for a patient suffering an exacerbation of multiple sclerosis?

- A) "Each night I seem to get a fever and break out in a sweat."
- B) "I have no feeling in either my arms or my legs."
- C) "I cannot remember my address or phone number."
- D) "My legs feel heavy, and I am having trouble walking."

Answer: <https://biology-forums.com/index.php?topic=793834>

### Question 185

All of the following are assessed during the Cincinnati Prehospital Stroke Screen EXCEPT:

- A) memory.
- B) speech.
- C) facial droop.
- D) arm drift.

Answer: <https://biology-forums.com/index.php?topic=793853>

### Question 186

An intrinsic risk factor is one that is influenced:

- A) within the patient.
- B) outside the patient.
- C) by the atmosphere.
- D) by a carcinogen.

Answer: <https://biology-forums.com/index.php?topic=793632>

### Question 187

The diaphragm is innervated by the:

- A) renal nerve.
- B) renic nerve.
- C) pulmonary nerve.
- D) phrenic nerve.

Answer: <https://biology-forums.com/index.php?topic=793634>

### Question 188

On an ECG tracing, negative impulses are seen as:

- A) downward deflections.
- B) upward deflections.
- C) ST segment.
- D) J point.

Answer: <https://biology-forums.com/index.php?topic=793772>

### Question 189

Mushrooms from the class \_\_\_\_\_ are responsible for over 90 percent of deaths from mushroom toxicity.

- A) Button
- B) Amanita
- C) Shiitake
- D) Galerina

Answer: <https://biology-forums.com/index.php?topic=794124>

### Question 190

Which three cranial nerves are involved in the cardinal positions of gaze?

- A) I, III, and VI
- B) VI, VII, and X
- C) III, IV, and VI
- D) I, III, and IV

Answer: <https://biology-forums.com/index.php?topic=793823>

### Question 191

A mental status exam on a behavioral emergency should include all of the following EXCEPT:

- A) orientation.
- B) sensorium.
- C) mood and affect.
- D) time since diagnosis.

Answer: <https://biology-forums.com/index.php?topic=794368>

### Question 192

Which of the following statements about Neisseria meningitidis is TRUE?

- A) The vaccine is recommended for health care workers.
- B) It is the bacteria that most often causes serious cases of meningitis.
- C) It is responsible for 90 percent of patients with a viral meningitis.
- D) Signs and symptoms of infection can take weeks to develop.

Answer: <https://biology-forums.com/index.php?topic=794271>

### Question 193

You are caring for a patient with chronic bronchitis. The patient has an SpO<sub>2</sub> of 90%. You should:

- A) administer supplemental oxygen at high flow 15 lpm via NRB.
- B) administer supplemental oxygen at high flow, via CPAP.
- C) administer supplemental oxygen at low flow, via nasal cannula.
- D) do nothing, as this is an expected reading.

Answer: <https://biology-forums.com/index.php?topic=793657>

### Question 194

A parasympatholytic agent used to treat symptomatic bradycardia is:

- A) Atrovent.
- B) atropine.
- C) epinephrine.
- D) Levophed.

Answer: <https://biology-forums.com/index.php?topic=793788>

### Question 195

Inhaled toxins:

- A) cause damage and edema in the lungs.
- B) are immediately absorbed into the bloodstream.
- C) are eliminated by first-round metabolism.
- D) permeate the blood-brain barrier more quickly.

Answer: <https://biology-forums.com/index.php?topic=794162>

### Question 196

The \_\_\_\_\_ system is a complicated body system responsible for combating infection.

- A) immune
- B) nervous
- C) respiratory
- D) cardiovascular

Answer: <https://biology-forums.com/index.php?topic=793979>

### Question 197

Your patient is a 32-year-old female who is alert and sitting at her kitchen table complaining of dizziness and near-syncope with exertion. She describes a four-day history of a 104°F fever, nausea, vomiting, and diarrhea unrelieved with over-the-counter medications. Physical examination reveals dry skin and mucous membranes, lung sounds clear and equal bilaterally. HR = 131 and regular, BP = 84/60, RR = 20 and regular, SaO<sub>2</sub> = 98%, blood glucose = 58 mg/dL. She has a history of colitis, for which she often takes prednisone, but she has been noncompliant with her prednisone therapy for the past five days because she cannot afford to refill her prescription. The treatment for this patient should include:

- A) a one-liter NS bolus IV.
- B) an IV of NS, 25 g dextrose IV, and 100 mg thiamine IV.
- C) a one-liter NS bolus, IV, and 25 g dextrose IV.
- D) 15 lpm oxygen by nonrebreather, IV of NS, 25 g dextrose.

Answer: <https://biology-forums.com/index.php?topic=793915>

### Question 198

A 54-year-old female is conscious and alert and in significant pain after a coral snake bite to her hand. You note two small puncture wounds surrounded by a swollen, red area. She states that she is nauseous and has chills. Your management of this patient should include immobilization of the affected arm and:

- A) placing it at the level of the heart.
- B) placing it below the level of the heart with a constricting band proximal to the wound.
- C) elevating it above the level of the heart.
- D) placing it at the level of the heart with ice packs to the affected area.

Answer: <https://biology-forums.com/index.php?topic=794100>

### Question 199

Your patient was in the building when a fire started at a factory that manufactures plastics. He is complaining of a headache, palpitations, and a burning sensation in his throat. His airway, breathing, and circulation are intact. Heart rate = 128, respirations = 22, blood pressure = 148/84, SaO<sub>2</sub> = 93%. You should immediately:

- A) administer amyl and sodium nitrate.
- B) initiate supportive measures.
- C) apply the cardiac monitor.
- D) prepare to intubate.

Answer: <https://biology-forums.com/index.php?topic=794121>

### Question 200

For a patient with hemophilia B, which of the following statements is TRUE?

- A) The patient's father had hemophilia B, and the mother was a carrier of the defective gene.
- B) The patient's father had hemophilia B, and the mother was unaffected.
- C) The patient's father was a carrier for the defective gene, and her mother did not carry the defective gene.
- D) The patient's mother was a carrier for the defective gene, and her father did not carry the defective gene.

Answer: <https://biology-forums.com/index.php?topic=794198>

### Question 201

All of the following are common complications of renal dialysis EXCEPT:

- A) bleeding from the needle puncture site.
- B) dysfunction of the fistula.
- C) air embolism.
- D) localized infection at the needle puncture site.

Answer: <https://biology-forums.com/index.php?topic=794057>

### Question 202

Which of the following statements about sickle cell disease is FALSE?

- A) Patients with chronic sickle cell disease have chronic hemolytic anemia.
- B) Sickled red blood cells have longer life spans than normal red blood cells.
- C) Sickle hemoglobin has a flawed chemical structure that results in erythrocyte deformity when oxygen levels are low.
- D) Splenomegaly is a common problem of sickle cell disease.

Answer: <https://biology-forums.com/index.php?topic=794177>

### Question 203

Which of the following findings is most suggestive of cystitis?

- A) Abdominal distension
- B) Suprapubic tenderness to palpation
- C) Flank pain radiating to the groin
- D) Diffuse, periumbilical abdominal pain

Answer: <https://biology-forums.com/index.php?topic=794058>

### Question 204

Which of the following is the most direct cause of polyuria in untreated diabetes?

- A) Hyperglycemia
- B) Hypoglycemia
- C) Too much insulin
- D) Too little insulin

Answer: <https://biology-forums.com/index.php?topic=793925>

### Question 205

The right atrioventricular valve is referred to as the \_\_\_\_\_ valve.

- A) tricuspid
- B) bicuspid
- C) aortic
- D) pulmonary

Answer: <https://biology-forums.com/index.php?topic=793758>

### Question 206

Which of the following treatment regimens for anaphylaxis lists the medications in the correct order of administration following oxygen?

- A) Dexamethasone, diphenhydramine, epinephrine
- B) Epinephrine, diphenhydramine, dexamethasone
- C) Epinephrine, dexamethasone, diphenhydramine
- D) Diphenhydramine, epinephrine, dexamethasone

Answer: <https://biology-forums.com/index.php?topic=793951>

### Question 207

Which of the following medications would be most useful in the event of a transfusion reaction?

- A) Aspirin
- B) Diphenhydramine
- C) Magnesium sulfate
- D) Furosemide

Answer: <https://biology-forums.com/index.php?topic=794208>

### Question 208

Obstructive sleep apnea is an example of:

- A) lower airway obstruction.
- B) upper airway obstruction.
- C) COPD.
- D) CHF.

Answer: <https://biology-forums.com/index.php?topic=793641>

### Question 209

Which of the following statements about leukocytes is FALSE?

- A) Leukocytes follow chemical signals to an infection site.
- B) Leukocytes protect against foreign invaders.
- C) Leukocytes engulf and destroy foreign invaders via leukopoiesis.
- D) Leukocytes can travel through blood vessel walls into the surrounding tissues.

Answer: <https://biology-forums.com/index.php?topic=794195>

### Question 210

Which of the following rhythms requires transcutaneous pacing?

- A) Supraventricular tachycardia
- B) Junctional tachycardia
- C) Sinus bradycardia
- D) Symptomatic third-degree AV block

Answer: <https://biology-forums.com/index.php?topic=793705>

### Question 211

Your patient is a 24-year-old male complaining of a one-week history of abdominal pain. He describes the pain as in the upper right quadrant, dull and reproducible with movement and palpation. He also describes a decreased appetite, weight loss, and clay-colored stool over the same period. Of the following, which is the most likely cause of his clinical condition?

- A) Colitis
- B) Cholecystitis

- C) Acute hepatitis
- D) Pancreatitis

Answer: <https://biology-forums.com/index.php?topic=794010>

### Question 212

You are caring for a patient who is complaining of diffuse musculoskeletal pain, shortness of breath, and atraumatic priapism. You suspect:

- A) sickle cell vaso occlusive crisis.
- B) sickle cell hematologic crisis.
- C) Acute lymphocytic leukemia (ALL).
- D) AML.

Answer: <https://biology-forums.com/index.php?topic=794226>

### Question 213

Homeostasis refers to:

- A) the tendency of the body to maintain an appropriate internal environment.
- B) the body's ability to regulate the external environment.
- C) intrinsic environmental regulatory factors.
- D) extrinsic environmental regulatory factors.

Answer: <https://biology-forums.com/index.php?topic=793939>

### Question 214

Which of the following statements about rubella and the rubella virus is FALSE?

- A) EMS providers should receive an MMR vaccination.
- B) The virus is spread via contact with infected blood and body fluids.
- C) Immunization via the MMR vaccination is 98 to 99 percent effective.
- D) Infection in the first trimester of pregnancy increases the risk of birth defects.

Answer: <https://biology-forums.com/index.php?topic=794253>

### Question 215

Acute renal failure occurs when a patient loses \_\_\_\_\_ of the functioning nephrons.

- A) 80%
- B) 70%
- C) 60%
- D) 50%

Answer: <https://biology-forums.com/index.php?topic=794090>

### Question 216

One small box on the ECG paper indicates:

- A) 0.20 seconds.
- B) 0.04 seconds.
- C) 2 seconds.
- D) 4 seconds.

Answer: <https://biology-forums.com/index.php?topic=793774>

### Question 217

The half-life of carboxyhemoglobin is reduced to approximately 22 minutes by using:

- A) 100% oxygen.
- B) 44% oxygen.
- C) hypobaric oxygen therapy.
- D) hyperbaric oxygen therapy.

Answer: <https://biology-forums.com/index.php?topic=794167>

### Question 218

Using a pharmaceutical agent for something other than its intended use is called:

- A) overdose.
- B) addiction.
- C) habituation.
- D) substance abuse.

Answer: <https://biology-forums.com/index.php?topic=794099>

### Question 219

Health care workers can best avoid hepatitis B infection by:

- A) using standard precautions for all patients.
- B) using an alcohol-based hand sanitizer after each patient contact.
- C) completing the hepatitis B vaccine series.
- D) receiving gamma globulin in the event of an exposure.

Answer: <https://biology-forums.com/index.php?topic=794244>

### Question 220

Your patient is a 35-year-old male whom you suspect of having a kidney stone. All of the following would be consistent with this impression EXCEPT:

- A) hematuria.
- B) a description of "knifelike" pain.
- C) restlessness.
- D) fever.

Answer: <https://biology-forums.com/index.php?topic=794070>

### Question 221

Which of the following diseases involves inflammation followed by demyelination of the brain and spinal cord nerve fibers?

- A) Myasthenia gravis
- B) Muscular dystrophy
- C) Multiple sclerosis
- D) Alzheimer's disease

Answer: <https://biology-forums.com/index.php?topic=793835>

### Question 222

Which of the following is the most frequent cause of deterioration in a patient with a psychiatric disorder?

- A) Failure to keep counseling appointments
- B) Situational stresses
- C) Being released from an institution back into the public
- D) Noncompliance with medications

Answer: <https://biology-forums.com/index.php?topic=794342>

### Question 223

Which of the following explains the profound protein catabolism and gluconeogenesis associated with Cushing's syndrome?

- A) Cushing's syndrome affects normal fat deposition.
- B) Glucocorticoids cause sodium retention and increased blood volume.
- C) Cortisol is an antagonist to insulin.
- D) Increased epinephrine and norepinephrine release result in hypermetabolism.

Answer: <https://biology-forums.com/index.php?topic=793903>

### Question 224

Your patient is a 23-year-old male prisoner who is alert and oriented, complaining of general malaise. He describes a month-long history of weakness, joint pain, nausea and occasional vomiting, and anorexia. He has no medical history and takes no medications. Physical examination reveals clear lung sounds bilaterally; warm, dry skin; several prison tattoos; a firm liver; and jaundice to his sclera. Which of the following is most likely?

- A) Fatty liver
- B) Cirrhosis of the liver
- C) HIV
- D) Hepatitis B

Answer: <https://biology-forums.com/index.php?topic=794263>

### Question 225

A male will express hemophilia if he acquires \_\_\_\_\_ chromosome(s).

- A) defective X and Y
- B) one defective X
- C) two defective X
- D) one defective Y

Answer: <https://biology-forums.com/index.php?topic=794197>



### Question 226

Your patient is experiencing profuse hives, itching, dyspnea, coughing, tachycardia, and dizziness after eating seafood 5 minutes ago. You might also expect to see all of the following additional signs EXCEPT:

- A) laryngeal edema.
- B) bronchospasm.
- C) cyanosis.
- D) hypertension.

Answer: <https://biology-forums.com/index.php?topic=793948>

### Question 227

Which of the following is NOT associated with chronic alcohol ingestion?

- A) Decreased sensation in hands and feet
- B) Thiamine deficiency
- C) Hyperactivity
- D) Esophageal varices

Answer: <https://biology-forums.com/index.php?topic=794126>

### Question 228

Which of the following is the most reliable way to differentiate between a hyperglycemic emergency and a hypoglycemic emergency?

- A) Determine whether or not the patient took his insulin or oral antihyperglycemic medicines.
- B) Determine whether the patient is a type I or type II diabetic.
- C) Follow the conventional wisdom, "Pale, cool, wet: low; red, hot, dry: high."
- D) Assess the blood glucose level.

Answer: <https://biology-forums.com/index.php?topic=793931>

### Question 229

You have been called to a college dormitory where campus police are talking to a 20-year-old male who was threatening to jump from his eighteenth-floor window. The patient admits that he was upset because he is failing most of his courses and his girlfriend broke up with him but says he was just "psyching out" his roommate and had no intention of jumping. Campus police tell you that the patient was sitting on the balcony railing with his feet over the edge when they arrived. The patient was cooperative when they asked him to come back inside the room. Which of the following is the best course of action?

- A) Consider it a police matter, and mark in service.
- B) Have the police place the patient under immediate detention, and transport the patient in restraints.
- C) Tell the patient you must take his suicide threat seriously and transport him for evaluation.
- D) Have the patient sign a refusal form as long as the roommate will take responsibility for staying with him.

Answer: <https://biology-forums.com/index.php?topic=794339>

### Question 230

The base of the heart lies at the level of the \_\_\_\_\_ rib.

- A) first
- B) third
- C) second
- D) fourth

Answer: <https://biology-forums.com/index.php?topic=793720>

### Question 231

You are assessing an unresponsive patient with a MedicAlert tag that indicates he is a diabetic. The patient's airway is patent, respirations are 20 per minute and adequate, radial pulse is rapid and weak, and the skin is warm and moist. You attempt to get a blood glucose reading, but your blood glucose monitor malfunctions. Which of the following is the best course of action?

- A) Administer 25 g of 50 percent dextrose.
- B) Administer a 1 to 2 liter bolus of NS.
- C) Request another unit to respond to the scene with a blood glucose monitor.
- D) Request an order for 20 units of regular insulin.

Answer: <https://biology-forums.com/index.php?topic=793933>

### Question 232

The most common cause of death resulting from myocardial infarction is:

- A) end-organ failure.
- B) inadequate tissue perfusion.

- C) heart failure.
- D) dysrhythmia.

Answer: <https://biology-forums.com/index.php?topic=793710>

### Question 233

All of the following may cause a transient ischemic attack EXCEPT:

- A) intracranial hemorrhage.
- B) cerebrovascular spasm.
- C) hypotension.
- D) a small embolus.

Answer: <https://biology-forums.com/index.php?topic=793833>

### Question 234

The more acidic the blood is, the more readily hemoglobin:

- A) binds carbon dioxide.
- B) releases oxygen.
- C) releases carbon dioxide.
- D) binds oxygen.

Answer: <https://biology-forums.com/index.php?topic=794181>

### Question 235

Your patient is a 45-year-old male who has been suffering from hypocalcemia since surgery to remove his thyroid gland six weeks ago. Of the following, which is most likely the cause of the patient's hypocalcemia?

- A) Increased function of residual thyroid tissue
- B) Loss of parathyroid gland function
- C) Loss of thyroid gland function
- D) Increase in parathyroid gland function

Answer: <https://biology-forums.com/index.php?topic=793909>

### Question 236

The lymphatic system is comprised of all of the following EXCEPT:

- A) spleen.
- B) lymph nodes.
- C) thymus.
- D) liver.

Answer: <https://biology-forums.com/index.php?topic=794288>

### Question 237

Your partner experiences an itchy, red rash on her hands that stops at the wrists after using a new brand of glove your service purchased. Her skin is warm, dry, and nondiaphoretic; the rash is isolated to her hands; and her lung sounds are clear bilaterally. She has no other complaints. HR = 88, RR = 12, BP = 122/80. Of the following treatments, which is most appropriate?

- A) Oxygen via nonrebreather mask 15 lpm, cardiac monitor, IV of NS KVO, epinephrine SC, diphenhydramine IM
- B) Oxygen via nasal cannula 4 lpm, cardiac monitor, IV of NS KVO, epinephrine IV, diphenhydramine IM
- C) Advise the dispatcher you will be going out of service
- D) Diphenhydramine IM

Answer: <https://biology-forums.com/index.php?topic=793976>

### Question 238

You are examining a patient who is exhibiting signs of hypovolemia. Upon inspection of the patient's flank, you notice ecchymosis. This is known as:

- A) Grey Turner's sign.
- B) Cullen's sign.
- C) Edwards' sign.
- D) rigidity sign.

Answer: <https://biology-forums.com/index.php?topic=794038>

### Question 239

You are caring for a patient with Guillain-Barré syndrome. The most likely cause of hypoxia in this patient would be:

- A) impaired perfusion.
- B) inadequate lung volume.
- C) impaired ventilation.

D) increased thickness of the respiratory membrane.

Answer: <https://biology-forums.com/index.php?topic=793614>

### Question 240

Your diabetic patient asks you why diabetics need to take insulin. Which of the following answers is most accurate?

- A) "Insulin helps glucose enter the cells of the body so it can be used for energy."
- B) "Insulin helps the body eliminate excess glucose through the kidneys."
- C) "Insulin breaks down glucose into proteins so it can be used by the cells for energy."
- D) "Without insulin glucose is converted to ketone bodies, which are toxic in large quantities."

Answer: <https://biology-forums.com/index.php?topic=793923>

### Question 241

When the ECG paper is traveling at the standard rate of 25 mm/sec, a large box in the horizontal direction equals:

- A) 0.08 seconds.
- B) 0.12 seconds.
- C) 0.20 seconds.
- D) 0.24 seconds.

Answer: <https://biology-forums.com/index.php?topic=793679>

### Question 242

A couple has been experimenting with Ecstasy. They are both complaining of anxiety, nausea, and palpitations. You would also expect:

- A) dyspnea.
- B) seizures.
- C) elevated blood pressure.
- D) bradycardia.

Answer: <https://biology-forums.com/index.php?topic=794119>

### Question 243

Which of the following is caused by unilateral paralysis of cranial nerve VII?

- A) Dystonia
- B) Bell's palsy
- C) Autonomic dysreflexia
- D) Myoclonus

Answer: <https://biology-forums.com/index.php?topic=793804>

### Question 244

Your patient has type A+ blood. Which of the following statements about the patient's blood is TRUE?

- A) The patient produces anti-A antibodies.
- B) The blood cells lack Rh antigens.
- C) There are type A antigens on the surface of the red blood cells.
- D) The patient can only receive A+ blood if a transfusion is needed.

Answer: <https://biology-forums.com/index.php?topic=794206>

### Question 245

Which of the following statements about hepatitis is TRUE?

- A) Hepatitis is caused by a wide range of potential causes.
- B) All types of hepatitis are typically fatal within six months to two years.
- C) The most common cause of hepatitis is alcohol abuse.
- D) All types of hepatitis lead to chronic liver disease.

Answer: <https://biology-forums.com/index.php?topic=794020>

### Question 246

Upon identifying an antigen in the bloodstream, B cells launch a chemical attack by producing antigens specific to the antibody. This is an example of \_\_\_\_\_ immunity.

- A) secondary
- B) humoral
- C) antibody
- D) cellular

Answer: <https://biology-forums.com/index.php?topic=793959>

### Question 247

Which of the following properly accounts for the differences between visceral and somatic pain?

- A) Spilled organ contents and bacteria can result in visceral pain, while somatic pain is caused by organ distension.
- B) Visceral pain originates in the walls of hollow organs, while somatic pain originates in skeletal muscle.
- C) The nerves that carry somatic pain impulses enter the spinal column at various levels, while the nerves that carry visceral impulses enter the spinal column via specific nerve routes.
- D) The nerves that carry visceral pain impulses enter the spinal column at various levels, while the nerves that carry somatic impulses enter the spinal column via specific nerve routes.

Answer: <https://biology-forums.com/index.php?topic=794004>

### Question 248

Which of the following accounts for more than 90 percent of hospital admissions for toxic substance exposure?

- A) Pediatric overdoses
- B) Intentional poisoning by another person
- C) Pediatric accidental poisonings
- D) Adult poisonings and overdoses

Answer: <https://biology-forums.com/index.php?topic=794150>

### Question 249

You respond to a patient with difficulty breathing. Upon assessment you notice that the patient is sitting in the tripod position, with marked JVD. The patient has clubbing in the fingers and new pitting edema. You should suspect:

- A) CHF.
- B) COPD.
- C) cor pulmonale.
- D) pulmonary neoplasm.

Answer: <https://biology-forums.com/index.php?topic=793655>

### Question 250

Which of the following hormones has the greatest effect on blood pressure homeostasis?

- A) Calcitonin
- B) Cortisol
- C) Parathyroid hormone
- D) Aldosterone

Answer: <https://biology-forums.com/index.php?topic=793921>

### Question 251

Blood pressure is defined as:

- A) stroke volume  $\times$  heart rate  $\times$  SVR.
- B) stroke volume  $\times$  diastolic pressure  $\times$  SVE.
- C) heart rate  $\times$  preload  $\times$  SVR.
- D) afterload  $\times$  preload  $\times$  SVE.

Answer: <https://biology-forums.com/index.php?topic=793765>

### Question 252

Which of the following statements would be most typical of an undiagnosed diabetic?

- A) "I am so thirsty I have to keep a glass of water by my bed at night."
- B) "I have gained ten pounds over the past two weeks."
- C) "It seems like I am dehydrated because I hardly urinate at all."
- D) "I haven't had much of an appetite. I am not hungry at all."

Answer: <https://biology-forums.com/index.php?topic=793928>

### Question 253

You are treating a patient you suspect may be suffering from septic shock. You should consider fluid and pressor therapy to maintain a mean arterial pressure (MAP) of:

- A) above 90 mmHg.
- B) above 60 mmHg.
- C) below 120 mmHg.
- D) below 60 mmHg.

Answer: <https://biology-forums.com/index.php?topic=794309>

### Question 254

Which of the following is a mobile, single-celled, parasitic organism?

- A) Fungus
- B) Virus
- C) Protozoan
- D) Bacterium

Answer: <https://biology-forums.com/index.php?topic=794255>

### Question 255

The diaphragm is controlled by the \_\_\_\_\_ nerve.

- A) vagus
- B) olfactory
- C) abducens
- D) phrenic

Answer: <https://biology-forums.com/index.php?topic=793582>

### Question 256

When dealing with a geriatric behavior crisis, you should:

- A) chemically restrain the patient.
- B) medicate the patient as soon as possible.
- C) be sure to call the patient by a nickname to establish a rapport.
- D) avoid administering any medication.

Answer: <https://biology-forums.com/index.php?topic=794372>

### Question 257

Which of the following would result in an increased respiratory rate?

- A) A decrease of cerebrospinal fluid PO<sub>2</sub>
- B) Stimulation of chemoreceptors by an increase of PCO<sub>2</sub>
- C) An increase of cerebrospinal fluid pH
- D) Stimulation of baroreceptors by an increase of PCO<sub>2</sub>

Answer: <https://biology-forums.com/index.php?topic=793630>

### Question 258

The primary neurotransmitter of the sympathetic nervous system is:

- A) epinephrine.
- B) acetylcholine.
- C) reeplase.
- D) dopamine.

Answer: <https://biology-forums.com/index.php?topic=793868>

### Question 259

Your patient is a 28-year-old male who tells you his hands and arms are turning green. He states that he was held captive by some people for a month and forced to make movies. While the patient is undoubtedly convinced he is turning green, you cannot see it. The patient's brother tells you that he has not been missing for the past month but that he has stopped taking his medication. Which of the following is most consistent with this situation?

- A) Schizotypal personality disorder
- B) Bipolar disorder
- C) Acute dystonic reaction
- D) Schizophrenia

Answer: <https://biology-forums.com/index.php?topic=794344>

### Question 260

Gastrointestinal emergencies account for \_\_\_\_\_ percent of emergency room visits annually.

- A) 5
- B) 10
- C) 2.5
- D) 7.5

Answer: <https://biology-forums.com/index.php?topic=794016>

### Question 261

Which of the following is NOT part of the respiratory status assessment?

- A) Mental status
- B) Color
- C) Respiratory effort
- D) Lung compliance

Answer: <https://biology-forums.com/index.php?topic=793644>

### Question 262

Clostridium botulinum has its effect primarily by:

- A) altering cellular structure to create syncytia.
- B) releasing a toxin that results in muscular paralysis.
- C) creating gas through the fermentation of carbohydrates in muscle tissue.
- D) causing septicemia.

Answer: <https://biology-forums.com/index.php?topic=794249>

### Question 263

You are on the scene of an agitated male patient with a history of alcohol abuse. He is threatening to "knock your head off" if you get close to him. While you are getting a history from the patient's wife, she states that, "He had something wrong with his EKG. A long QRS, or something like that." Which of the following should you avoid in the treatment of this patient?

- A) Lorazepam
- B) Diazepam
- C) Droperidol
- D) Physical restraint

Answer: <https://biology-forums.com/index.php?topic=794335>

### Question 264

Which of the following should NOT be part of the general management of a patient with altered mental status?

- A) Thiamine
- B) 50 percent dextrose
- C) IV with saline lock
- D) Hyperventilation with 100 percent oxygen

Answer: <https://biology-forums.com/index.php?topic=793839>

### Question 265

You have been called to a residence by the parents of a 14-year-old boy, whom they found sniffing paint fumes in an effort to get high. The patient is agitated, coughing, and complaining of dizziness and shortness of breath. His airway is patent, respirations adequate, and radial pulse easily palpable. Closer assessment of the patient reveals paint around his mouth and breath sounds that are clear and equal. Heart rate = 96, respirations = 20, blood pressure = 116/78, and SaO<sub>2</sub> = 96%. Oxygen via a nonrebreather has been applied and an IV established. Which of the following is the most important in the assessment and care of this patient?

- A) Benzodiazepines
- B) Antipyretics
- C) Cardiac monitoring
- D) Albuterol administration

Answer: <https://biology-forums.com/index.php?topic=794104>

### Question 266

An accelerated junctional rhythm has a rate between \_\_\_\_\_ and \_\_\_\_\_.

- A) 40, 60
- B) 20, 40
- C) 100, 150
- D) 60, 100

Answer: <https://biology-forums.com/index.php?topic=793740>

### Question 267

Epinephrine administration results in all of the following EXCEPT:

- A) hypotension.
- B) increased cardiac contractile force.
- C) increased peripheral vasoconstriction.

D) tachycardia.

Answer: <https://biology-forums.com/index.php?topic=793955>

### Question 268

Bleeding in the gastrointestinal tract proximal to the ligament of Treitz is considered to be in the:

- A) small intestine.
- B) lower GI tract.
- C) upper GI tract.
- D) colon.

Answer: <https://biology-forums.com/index.php?topic=794003>

### Question 269

Your patient is a 68-year-old female who is conscious but confused and lying supine in bed without complaint. Her daughter states that the patient was recently diagnosed with a bladder infection and has been taking antibiotics. She also states that her mother has not produced urine for two days, during which she has become increasingly confused. Physical examination reveals swelling to the face, hands, and feet; cool and moist skin; and lung sounds that are clear and equal bilaterally. HR = 104, BP = 142/88, RR = 14, SaO<sub>2</sub> = 96%. In addition to administering oxygen and monitoring the cardiac rhythm, which of the following courses of action is most appropriate?

- A) IV of NS with 250 cc fluid challenge
- B) 12-lead ECG, IV of NS KVO
- C) IV of NS KVO, furosemide, 40 mg
- D) IV of NS KVO

Answer: <https://biology-forums.com/index.php?topic=794068>

### Question 270

Which of the following would you expect to see immediately after the ingestion of a large meal?

- A) Increase of blood glucagon levels and a decrease of blood glucose levels
- B) Increase of blood glucose and blood insulin levels
- C) Decrease of blood glucose levels followed by an increase of blood insulin levels
- D) Increase of blood glucagon and blood glucose levels

Answer: <https://biology-forums.com/index.php?topic=793918>

### Question 271

Your patient is a 42-year-old male who is supine on the floor, responsive only to pain. His wife states that he has been extremely depressed recently and talked about suicide yesterday. The patient's skin is hot and dry, pupils are dilated and reactive to light bilaterally, and there is vomit around his mouth. HR = 138 and regular, BP = 82/52, RR = 16 and shallow. Temperature is 105.5°F. The patient has a history of hypothyroidism, for which he takes Synthroid. Your partner suctions the airway and initiates BVM ventilations with 100 percent oxygen and an oropharyngeal airway. In addition to monitoring the cardiac rhythm and starting an IV of normal saline, you should:

- A) perform synchronized cardioversion and intubate if the rhythm does not convert.
- B) intubate the trachea and request orders for propranolol, IV.
- C) intubate the trachea and request orders for diltiazem.
- D) administer 25 g of 50 percent dextrose and intubate if the level of responsiveness does not improve.

Answer: <https://biology-forums.com/index.php?topic=793889>

### Question 272

From which of the following incidents would infection with *Clostridium tetani* be most likely?

- A) Eating improperly prepared, home-canned food
- B) Receiving a puncture wound to the foot
- C) Drinking contaminated well water
- D) Being bitten by an infected animal

Answer: <https://biology-forums.com/index.php?topic=794268>

### Question 273

Which of the following is characterized by involuntary muscle twitching?

- A) Ataxia
- B) Trismus
- C) Myoclonus
- D) Dystonia

Answer: <https://biology-forums.com/index.php?topic=793840>

### Question 274

Causes of the inflammatory process include all of the following EXCEPT:

- A) infection.
- B) chemical exposure.
- C) trauma.
- D) psychosocial factors.

Answer: <https://biology-forums.com/index.php?topic=794220>

### Question 275

Oxygen can benefit patients with chronic renal failure because it is common for patients with chronic renal failure to be:

- A) anemic due to the blood loss associated with hemodialysis.
- B) anemic due to decreased production of RBCs.
- C) hypoxic secondary to associated congestive heart failure.
- D) hypoxic secondary to associated hypotension.

Answer: <https://biology-forums.com/index.php?topic=794074>

### Question 276

Your patient is a 68-year-old female who is being treated for colon cancer. She is conscious and alert, in mild distress, and complaining of progressive weakness over the past three days. Palpation of her abdomen reveals tenderness to the lower right quadrant. Her skin is pale, cool, and dry, and you note the smell and appearance of melena in her stool. HR = 108, BP = 100/60, RR = 12, SaO<sub>2</sub> = 97%. Proper treatment of this patient might include:

- A) IV of normal saline with a 250 mL fluid challenge, repeated if necessary.
- B) IV of 5 percent dextrose solution at 30 mL per hour.
- C) two large-bore IVs of lactated Ringer's solution, wide open.
- D) two large-bore IVs of normal saline, 20 mL/kg fluid bolus.

Answer: <https://biology-forums.com/index.php?topic=793997>

### Question 277

You have administered a drug with potent beta-1 effects. Which of the following effects should you most anticipate?

- A) Smooth muscle relaxation
- B) Peripheral vasoconstriction
- C) Increased heart rate
- D) Peripheral vasodilation

Answer: <https://biology-forums.com/index.php?topic=793683>

### Question 278

Your patient is experiencing dyspnea and urticaria after ingesting penicillin. Auscultation of his lungs reveals diffuse expiratory wheezes. Which of the following medications will best help correct your patient's bronchospasm?

- A) Epinephrine 1:1000 SC
- B) Ranitidine 50 mg IV
- C) Solu-Medrol 125 mg IV
- D) 100 percent oxygen via nonrebreather mask 15 lpm

Answer: <https://biology-forums.com/index.php?topic=793946>

### Question 279

Hyperglycemia is most likely a result of damage to the pancreatic \_\_\_\_\_ cells.

- A) alpha
- B) beta
- C) acinar
- D) delta

Answer: <https://biology-forums.com/index.php?topic=793890>

### Question 280

You respond to a call of a patient experiencing back pain. Upon your arrival, the patient is curled into the fetal position and feels warm to the touch.

You suspect:

- A) acute renal failure.
- B) acute renal calculi.
- C) acute pyelonephritis.
- D) acute urinary tract infection.

Answer: <https://biology-forums.com/index.php?topic=794087>

### Question 281



All of the following are roles of a poison control center EXCEPT:

- A) identifying the toxin or poison.
- B) determining the potential toxicity of the agent.
- C) providing information on the most current definitive treatment.
- D) notifying the receiving hospital and recommending treatment.

Answer: <https://biology-forums.com/index.php?topic=794145>

### Question 282

Immediately after birth, an infant is allowed to suckle at the mother's breast. Palpation of the uterus suggests that the uterus is contracting. This finding can be attributed to:

- A) secretion of oxytocin.
- B) secretion of estrogen and progesterone.
- C) inhibition of estrogen and progesterone.
- D) inhibition of oxytocin.

Answer: <https://biology-forums.com/index.php?topic=793900>

### Question 283

Which of the following is associated with a greater predisposition for hypoglycemia due to decreased gluconeogenesis?

- A) Pancreatitis
- B) Cholecystitis
- C) Cardiac failure
- D) Renal failure

Answer: <https://biology-forums.com/index.php?topic=793907>

### Question 284

A 56-year-old female is conscious and alert and complaining of diarrhea and nausea. The patient describes a two-day history of her symptoms and states that the pain is "all over her abdomen." All four quadrants are tender to palpation. She also describes hematochezia. PMH includes CAD, and she recently began taking 325 mg of ASA once a day. Of the following, which is the most likely cause of her clinical condition?

- A) Diverticulitis
- B) Peptic ulcer
- C) Acute pancreatitis
- D) Acute gastroenteritis

Answer: <https://biology-forums.com/index.php?topic=794018>

### Question 285

A form of spina bifida in which some of the spinal cord and meninges are protruding from a defect in the spine is a(n):

- A) meningioma.
- B) myelomeningocele.
- C) osteogenesis imperfecta.
- D) hydrocele.

Answer: <https://biology-forums.com/index.php?topic=793849>

### Question 286

Your patient is a 66-year-old female who is conscious and alert, complaining of a one-week history of progressive "lightheadedness" with exertion. She also complains of mild nausea; dark, sticky stools; and pain in her lower abdomen. Which of the following is the most likely cause of this patient's condition?

- A) Acute cholecystitis
- B) Diverticulosis
- C) Gastrointestinal bleeding
- D) Ingestion of an iron or a bismuth-containing medication

Answer: <https://biology-forums.com/index.php?topic=794006>

### Question 287

Which of the following is NOT associated with anorexia nervosa?

- A) Intense fear of obesity
- B) Cessation of menstruation
- C) Excessive fasting
- D) Intentionally inducing vomiting after eating

Answer: <https://biology-forums.com/index.php?topic=794329>

### Question 288

Diphenhydramine is administered in anaphylaxis because it:

- A) blocks histamine receptors.
- B) is nonselective.
- C) reduces histamine release from mast cells and basophils.
- D) produces all of the above.

Answer: <https://biology-forums.com/index.php?topic=793960>

### Question 289

To detect life-threatening cardiac dysrhythmias, the paramedic must view the ECG in \_\_\_\_\_ lead(s).

- A) two
- B) one
- C) three
- D) twelve

Answer: <https://biology-forums.com/index.php?topic=793686>

### Question 290

When a patient receives a laceration, the clotting process that occurs is primarily mediated by the \_\_\_\_\_ pathway.

- A) platelet
- B) common
- C) extrinsic
- D) intrinsic

Answer: <https://biology-forums.com/index.php?topic=794171>

### Question 291

Your patient is a 12-year-old male who is conscious and alert and complaining of diffuse abdominal pain. He states that the pain began about 3 hours after eating supper. He has had severe diarrhea and some vomiting. Any of the following could be therapeutic EXCEPT:

- A) diazepam.
- B) Compazine.
- C) IV of NaCl or lactated Ringer's solution.
- D) Zofran.

Answer: <https://biology-forums.com/index.php?topic=793995>

### Question 292

Which of the following types of agents acts specifically by inhibiting bacterial growth or reproduction?

- A) Bacteriostatic
- B) Antiseptic
- C) Pathological
- D) Aseptic

Answer: <https://biology-forums.com/index.php?topic=794251>

### Question 293

Which of the following statements about hepatitis A is TRUE?

- A) Hepatitis A is transmitted through direct contact with blood and body fluids.
- B) Many patients are asymptomatic with hepatitis A infection.
- C) Transmission via needle stick injury is common.
- D) The incubation period for hepatitis A is three to five days.

Answer: <https://biology-forums.com/index.php?topic=794264>

### Question 294

Your patient is a 68-year-old female complaining of diffuse abdominal pain. She has a history of intestinal hernias and adhesions from previous abdominal surgery. Your suspicion should be highest for:

- A) appendicitis.
- B) diverticulitis.
- C) bowel obstruction.
- D) ulcerative colitis.

Answer: <https://biology-forums.com/index.php?topic=794000>

### Question 295

Which of the following is NOT a phase of cardiac arrest?

- A) Electrical phase
- B) Circulatory phase
- C) Rigor mortis phase
- D) Metabolic phase

Answer: <https://biology-forums.com/index.php?topic=793797>

### Question 296

Which of the following correctly pairs a toxin with its antidote?

- A) Benzodiazepine: naloxone
- B) Acetaminophen: N-acetylcysteine
- C) Carbon monoxide: amyl nitrite
- D) Aspirin: magnesium citrate

Answer: <https://biology-forums.com/index.php?topic=794139>

### Question 297

In which of the following situations is a significant amount of carboxyhemoglobin most likely to be present?

- A) A patient who is being treated with nitrites for cyanide poisoning
- B) A patient with COPD who is short of breath with an SpO<sub>2</sub> of 90 percent
- C) A patient found unresponsive in an apartment in which there is a gas furnace
- D) A patient who inhaled anhydrous ammonia fumes

Answer: <https://biology-forums.com/index.php?topic=793610>

### Question 298

You have been called to treat a patient complaining of difficulty breathing. Which of the findings should concern you the most?

- A) The patient is confused, agitated, and angry that you are trying to help him.
- B) The patient is sitting in the "tripod" position.
- C) The patient has a heart rate of 126.
- D) The patient can speak only one to two words between breaths.

Answer: <https://biology-forums.com/index.php?topic=793598>

### Question 299

Atrial fibrillation is most associated with \_\_\_\_\_ strokes.

- A) hypoxic
- B) thrombotic
- C) embolic
- D) hemorrhagic

Answer: <https://biology-forums.com/index.php?topic=793852>

### Question 300

The main purpose of the GI tract is:

- A) to convert food into nutrients for the body.
- B) to expel waste products.
- C) to facilitate metabolism.
- D) glucogenolysis.

Answer: <https://biology-forums.com/index.php?topic=794040>

### Question 301

Which of the following is least likely to lead to acute renal failure?

- A) Pneumonia
- B) Urethral obstruction
- C) Interstitial nephritis
- D) Heart failure with hypotension

Answer: <https://biology-forums.com/index.php?topic=794062>

### Question 302

The right ventricle pushes blood to the lungs through the:

- A) pulmonary vein.
- B) pulmonary artery.
- C) pulmonary pathway.
- D) pulmonary vena cava.

Answer: <https://biology-forums.com/index.php?topic=793760>

### Question 303

Life-threatening arrhythmias can result in death of the AMI patient as soon as:

- A) 3 hours after onset.
- B) 4 hours after onset.
- C) 2 hours after onset.
- D) 1 hour after onset.

Answer: <https://biology-forums.com/index.php?topic=793793>

### Question 304

Which of the following statements about immunity is TRUE?

- A) T cells mature in the bone marrow.
- B) Lymphocytes are the primary cells involved in the immune response.
- C) Humoral immunity uses cytotoxic chemicals to destroy pathogens.
- D) Cell-mediated immunity uses antibody formation to combat pathogens.

Answer: <https://biology-forums.com/index.php?topic=794169>

### Question 305

Which of the following is evaluated in the Los Angeles Prehospital Stroke Screen but is not part of the Cincinnati Prehospital Stroke Scale?

- A) Facial droop
- B) Arm drift
- C) Temperature
- D) Blood glucose level

Answer: <https://biology-forums.com/index.php?topic=793858>

### Question 306

Which of the following patients are at risk for the most common cause of upper airway obstruction?

- A) 4-year-old male with croup
- B) 21-year-old female unconscious and supine on the floor
- C) 22-year-old female stung by a wasp
- D) 5-year-old female with epiglottitis

Answer: <https://biology-forums.com/index.php?topic=793585>

### Question 307

Your patient is taking an immunosuppressant drug to prevent rejection of a transplanted kidney. As a consequence, the patient is more prone to:

- A) prolonged blood clotting time.
- B) aplastic anemia.
- C) infection.
- D) polycythemia.

Answer: <https://biology-forums.com/index.php?topic=794203>

### Question 308

While working in the emergency department, you accidentally stick yourself with the stylette of an IV needle you just used to start an IV. What should you do immediately?

- A) Wash the area thoroughly with soap and running water.
- B) Stop the bleeding with a sterile gauze pad.
- C) Wipe the area with a povidone-iodine swab.
- D) Wipe the area with an alcohol prep.

Answer: <https://biology-forums.com/index.php?topic=794245>

### Question 309

You have been called for a 46-year-old female complaining of a headache. Which of the following statements made by the patient should you find most concerning?

- A) "I have never had a headache this bad."
- B) "The pain gets worse when the lights are on."

C) "I have never been nauseated like this with a headache before."  
D) "I took two Tylenol tablets 2 hours ago, and the pain is still there."  
Answer: <https://biology-forums.com/index.php?topic=793810>

### Question 310

Your patient has a history of pernicious anemia. If not treated, your primary concern for this patient should be:  
A) hypovolemia.  
B) prolonged blood clotting time.  
C) hypoxia.  
D) infection.  
Answer: <https://biology-forums.com/index.php?topic=794209>

### Question 311

Normal exhalation involves all of the following EXCEPT:  
A) decreased intrathoracic volume.  
B) phrenic nerve stimulation.  
C) relaxation of the diaphragm.  
D) elastic recoil of lung tissue.  
Answer: <https://biology-forums.com/index.php?topic=793595>

### Question 312

What neurological problem results in a neural defect in which the fetal vertebrae do not close properly, often resulting in spinal cord dysfunction?  
A) Creutzfeldt-Jakob disease  
B) Spina bifida  
C) Guillain-Barré syndrome  
D) Multiple sclerosis  
Answer: <https://biology-forums.com/index.php?topic=793861>

### Question 313

Which of the following best explains the process of osmotic diuresis associated with hyperglycemia?  
A) Glucose in the urine lowers osmotic pressure inside the kidney tubule, preventing water reabsorption.  
B) Glucose in the urine raises osmotic pressure inside the kidney tubule, drawing water into the tubule.  
C) Decreased insulin levels result in decreased ADH secretion.  
D) Elevated blood glucose levels result in increased ADH secretion.  
Answer: <https://biology-forums.com/index.php?topic=793882>

### Question 314

One of the most effective ways to prevent disease transmission is:  
A) use of gloves.  
B) sterilizing all equipment.  
C) washing your hands.  
D) using an alcohol-based sanitizer.  
Answer: <https://biology-forums.com/index.php?topic=794291>

### Question 315

Most carbon dioxide from cellular metabolism reaches the alveoli by being transported:  
A) bound to hemoglobin.  
B) as bicarbonate ion.  
C) dissolved in plasma.  
D) as carbonic anhydrase.  
Answer: <https://biology-forums.com/index.php?topic=793593>

### Question 316

Which of the following would most increase the likelihood of a urinary tract infection?  
A) Prior history of renal calculi  
B) Lack of sexual activity  
C) Urinary stasis  
D) Male gender  
Answer: <https://biology-forums.com/index.php?topic=794047>

### Question 317

"Rock" and "crack" are street names for:

- A) cocaine.
- B) marijuana.
- C) heroin.
- D) morphine.

Answer: <https://biology-forums.com/index.php?topic=794132>

### Question 318

A male patient presents with a puncture wound to his heel from stepping on a nail. He informs you that he is visiting from El Salvador and has never received a tetanus vaccination. At the emergency room he is administered tetanus immune globulin, as well as a tetanus vaccination. Which of the following best describes the rationale for this treatment?

- A) The tetanus immune globulin provides immediate protection, while the tetanus vaccination provides passive immunity by producing tetanus-specific antibodies.
- B) The tetanus immune globulin provides passive immunity, while the tetanus vaccination provides active immunity.
- C) The tetanus immune globulin provides IgE antibodies for immediate protection, while the tetanus vaccination provides natural immunity by producing tetanus-specific antibodies.
- D) The tetanus immune globulin provides IgG and IgM antibodies for immediate protection, while the tetanus vaccination provides passive immunity by producing tetanus-specific antibodies.

Answer: <https://biology-forums.com/index.php?topic=793962>

### Question 319

You are performing a physical exam on a patient with emphysema. You note that the patient has a pink hue to her skin. You should suspect:

- A) cor pulmonale.
- B) polycythemia.
- C) methahemoglobinemia.
- D) carboxyhemoglobinemia.

Answer: <https://biology-forums.com/index.php?topic=793656>

### Question 320

Pulmonary shunting can be seen in patients with suspected:

- A) tension pneumothorax.
- B) hemothorax.
- C) pulmonary embolism.
- D) hypovolemic shock.

Answer: <https://biology-forums.com/index.php?topic=793643>

### Question 321

In which of the following situations is hemolytic disease of the newborn most likely to occur?

- A) An Rh positive mother delivers a first Rh negative newborn
- B) An Rh positive mother delivers a second Rh negative newborn
- C) An Rh negative mother delivers a first Rh positive newborn
- D) An Rh negative mother delivers a second Rh positive newborn

Answer: <https://biology-forums.com/index.php?topic=794207>

### Question 322

You are caring for a patient who is complaining of chills, fever, night sweats, sudden weight loss, and hemoptysis. You suspect:

- A) AIDS.
- B) hepatitis B virus.
- C) tuberculosis.
- D) Ebola virus disease (EVD).

Answer: <https://biology-forums.com/index.php?topic=794298>

### Question 323

Which of the following statements about hemodialysis is TRUE?

- A) Blood is removed from the body, wastes are collected in a filter, and blood is then returned to the body.
- B) Dialysate is placed in the abdominal cavity, the peritoneum acts as a dialysis membrane, and dialysate is then removed from the abdominal cavity.
- C) Dialysate enters the circulation through the venous site of a fistula and leaves through the arterial side of the fistula.
- D) Dialysis approximates the physiology of the nephron by placing blood on one side of a semipermeable membrane and dialysate on the other side.

Answer: <https://biology-forums.com/index.php?topic=794055>

### Question 324

You run a 12-lead ECG on a patient exhibiting chest pain. It reveals ST segment elevation in leads II, III, and aVF, with reciprocal in leads aVL and I. You suspect:

- A) anterior MI.
- B) lateral MI.
- C) inferior MI.
- D) high lateral wall MI.

Answer: <https://biology-forums.com/index.php?topic=793800>

### Question 325

A 24-year-old male is supine on the floor and unconscious with snoring respirations. You note a weak, rapid pulse and cool, diaphoretic skin. HR = 124 and regular, BP = 136/88, RR = 12 and regular. Blood glucose is 24 mg/dL. After manually opening the airway and providing oxygen, which of the following should be performed next?

- A) Start an IV and administer 25 gm dextrose, IV.
- B) Start an IV and administer 0.3 mg glucagon, IV.
- C) Intubate the trachea, start an IV, and administer 25 gm dextrose.
- D) Administer glucagon, 1 mg IM.

Answer: <https://biology-forums.com/index.php?topic=793905>

### Question 326

Which of the following is NOT a government organization involved with infectious diseases?

- A) CDC
- B) OSHA
- C) EPA
- D) FEMA

Answer: <https://biology-forums.com/index.php?topic=794282>

### Question 327

Which of the following is the best method of communicating with an emotionally disturbed patient?

- A) Ignore statements that are irrelevant to the situation.
- B) Tell the patient you understand how he feels.
- C) Explain that you are concerned with the patient's welfare.
- D) Agree with everything the patient says.

Answer: <https://biology-forums.com/index.php?topic=794318>

### Question 328

The amount of air moved in and out of the lungs during a normal, quiet respiration is called:

- A) tidal volume.
- B) dead space volume.
- C) inspiratory capacity.
- D) functional reserve capacity.

Answer: <https://biology-forums.com/index.php?topic=793616>

### Question 329

You are called for a patient experiencing SOB. The patient is also a diabetic, so you perform a 12-lead ECG. It shows ST segment elevation in leads V1, V2, V3, and V4 with reciprocal changes in leads V5, V6, II, III, and aVF. You suspect:

- A) septal-anterior MI.
- B) inferoseptal MI.
- C) lateral MI.
- D) inferior MI.

Answer: <https://biology-forums.com/index.php?topic=793801>

### Question 330

While examining a patient, you note that he exhibits a positive Brudzinski's sign. You suspect:

- A) meningitis.
- B) pertussis.
- C) varicella.
- D) tuberculosis.

Answer: <https://biology-forums.com/index.php?topic=794302>

### Question 331

Your patient is a 60-year-old male complaining of chills, fever, joint pain, and vomiting. He states he was bitten by a spider yesterday morning, and now he thinks the bite might be infected. The patient has an ulcerated wound on his left leg. The best treatment for this patient would include:

- A) diazepam 2.5 mg.
- B) magnesium sulfate, 2 g.
- C) calcium gluconate 0.1 mg/kg.
- D) supportive management.

Answer: <https://biology-forums.com/index.php?topic=794149>

### Question 332

Which of the following is a narcotic?

- A) Mescaline
- B) Crack
- C) Cocaine
- D) Heroin

Answer: <https://biology-forums.com/index.php?topic=794155>

### Question 333

Claudication is significant because it:

- A) leads to glaucoma when left untreated.
- B) indicates the presence of atherosclerosis.
- C) results from inadequate coronary artery perfusion.
- D) results in inadequate cerebral perfusion.

Answer: <https://biology-forums.com/index.php?topic=793737>

### Question 334

Patients with lymphoma are most likely to experience abnormal function of:

- A) thrombocytes.
- B) stem cells from which malignancy arises.
- C) erythrocytes.
- D) neutrophils.

Answer: <https://biology-forums.com/index.php?topic=794176>

### Question 335

Which of the following is a highly toxic, odorless, tasteless gas that is a by-product of incomplete combustion?

- A) Carbon dioxide
- B) Carbon monoxide
- C) Cyanide
- D) Methane

Answer: <https://biology-forums.com/index.php?topic=794142>

### Question 336

Ventricular depolarization is represented on the ECG by the:

- A) P wave.
- B) QRS complex.
- C) T wave.
- D) J point.

Answer: <https://biology-forums.com/index.php?topic=793777>

### Question 337

A 19-year-old female with difficulty breathing produces a peak expiratory flow rate of 425 lpm, indicating:

- A) moderate bronchoconstriction.
- B) mild bronchoconstriction.
- C) normal ventilatory state.
- D) severe bronchoconstriction.

Answer: <https://biology-forums.com/index.php?topic=793588>



### Question 338

Cardiac output is:

- A) stroke volume  $\times$  heart rate.
- B) stroke volume  $\times$  diastolic pressure.
- C) heart rate  $\times$  preload.
- D) afterload  $\times$  preload.

Answer: <https://biology-forums.com/index.php?topic=793764>

### Question 339

When dealing with the pediatric patient in a behavioral crisis, you should:

- A) give the child some time alone to think.
- B) alter the truth to persuade the child.
- C) talk to the child like an adult.
- D) allow the child to keep a favorite toy or blanket.

Answer: <https://biology-forums.com/index.php?topic=794373>

### Question 340

Lung perfusion depends on all of the following EXCEPT:

- A) efficient pumping of blood by the heart.
- B) intact pulmonary capillaries.
- C) an intact alveolar membrane.
- D) adequate blood volume.

Answer: <https://biology-forums.com/index.php?topic=793621>

### Question 341

You respond to a call of an ill male patient. Upon arrival, you see a patient in a chair, hooked into two large bags—one on an IV stand, one below his waist. The tubes are going into the patient's abdomen. You should suspect that this patient is undergoing:

- A) peritoneal dialysis.
- B) hemodialysis.
- C) gastric lavage.
- D) J tube feeding.

Answer: <https://biology-forums.com/index.php?topic=794092>

### Question 342

Your patient is a 16-year-old male who attempted suicide. He is unconscious and apneic, lying supine on a garage floor. The family states they found the patient unconscious in the front seat of a car that was running in an enclosed garage. HR = 70, BP = 100/60, RR = 0. In addition to an IV of normal saline, which of the following is the most appropriate?

- A) Intubate, remove the patient from the garage, and transport to a hospital with a hyperbaric chamber.
- B) Remove the patient from the garage, initiate BVM ventilations with 100 percent oxygen, intubate, and transport to a hospital with a hyperbaric chamber.
- C) Remove the patient from the garage, initiate BVM ventilations with 100 percent oxygen, intubate, and transport to the nearest facility.
- D) Remove the patient from the garage, intubate, and transport to the nearest hospital.

Answer: <https://biology-forums.com/index.php?topic=793620>

### Question 343

A finding of exophthalmos and goiter should increase your suspicion for a problem with the:

- A) anterior pituitary gland.
- B) posterior pituitary gland.
- C) thyroid gland.
- D) parathyroid gland.

Answer: <https://biology-forums.com/index.php?topic=793937>

### Question 344

Your patient is a 23-year-old female who is 6 hours postpartum after a traumatic delivery resulting in a massive blood transfusion. She is to be transferred from a community hospital to a specialty hospital for further care. She is unconscious and intubated, with a number of intravenous lines. Your physical examination reveals a purpuric rash over the chest and abdomen and mottling of the fingers and toes and all of the venous access sites are oozing blood. In addition, auscultation of the lung fields reveals rales to the dependent regions. HR = 112, BP = 82/60, RR = 12 via ventilator. Which of the following best describes the patient's condition and treatment needs, in addition to continued ventilation and fluid administration?

- A) DIC; type O negative blood

- B) Idiopathic hemophilia; corticosteroids
- C) DIC; fresh frozen plasma and platelet administration
- D) Idiopathic hemophilia; factor VIIa administration

Answer: <https://biology-forums.com/index.php?topic=794186>

### Question 345

Which sign associated with an allergic reaction should concern a caregiver the most?

- A) Urticaria
- B) Wheezing
- C) Warm, flushed skin
- D) GI distress

Answer: <https://biology-forums.com/index.php?topic=793949>

### Question 346

The acronym AVPU is used to quickly assess a patient's:

- A) mood.
- B) thought.
- C) mental status.
- D) judgment.

Answer: <https://biology-forums.com/index.php?topic=793871>

### Question 347

You are examining a newborn and note that the meninges and spinal cord are protruding through an opening over the lower back. This is known as:

- A) a myelomeningocele.
- B) a meningocele.
- C) spina bifida occulta.
- D) poliomyelitis.

Answer: <https://biology-forums.com/index.php?topic=793860>

### Question 348

Which of the following most accurately describes the etiology of Wolff-Parkinson-White syndrome?

- A) Presence of an accessory conduction pathway
- B) Idiopathic
- C) Increased automaticity
- D) Shifting supraventricular pacemaker sites

Answer: <https://biology-forums.com/index.php?topic=793702>

### Question 349

The first medication administered to a patient experiencing an anaphylactic reaction should be:

- A) epinephrine.
- B) diphenhydramine.
- C) high-concentration oxygen.
- D) glucagon.

Answer: <https://biology-forums.com/index.php?topic=793952>

### Question 350

You respond to an ill type 2 diabetic patient. Upon your arrival, the patient complains of not feeling well for a few days, and increasing blood glucose levels. You suspect:

- A) DKA.
- B) HHNK.
- C) TNK.
- D) TPA.

Answer: <https://biology-forums.com/index.php?topic=793944>

### Question 351

Your patient is a 50-year-old male who has been detained by mall security officers. The patient is distraught, stating that he needs to "get away from the terrorists." The security officers state the patient was found climbing into a trash dumpster behind the mall and became distressed when they took him away from it. Your physical exam is unremarkable except for noting neglect of hygiene and nutrition. His skin is warm and dry. HR = 98, BP = 114/78, RR = 12, SaO<sub>2</sub> = 99%, blood glucose = 80 mg/dL. You offer him transport to the ED, which he accepts. Which of the following is most appropriate during transport of this patient?

- A) Apply a cardiac monitor, IV, oxygen
- B) Restrain the patient with four-point restraints, no ALS interventions
- C) Start an IV, and request orders for haloperidol
- D) Make the patient comfortable on the stretcher, no ALS interventions

Answer: <https://biology-forums.com/index.php?topic=794311>

### Question 352

You are evaluating your patient's ECG under fluorescent lights. You notice significant artifact due to:

- A) machine malfunction.
- B) 60 hertz interference.
- C) poor eyesight.
- D) road noise.

Answer: <https://biology-forums.com/index.php?topic=793773>

### Question 353

Which of the following statements about influenza and the influenza virus is FALSE?

- A) High-risk individuals include the elderly.
- B) An influenza vaccine confers immunity against only a few strains of the virus each year.
- C) Influenza is the leading cause of respiratory disease worldwide.
- D) The disease is characterized by nausea, vomiting, and diarrhea.

Answer: <https://biology-forums.com/index.php?topic=794261>

### Question 354

An emergency in which the patient's behavior is unusual, bizarre, threatening, or dangerous is referred to as a:

- A) psychiatric emergency.
- B) code greens.
- C) behavioral emergency.
- D) personal assist.

Answer: <https://biology-forums.com/index.php?topic=794352>

### Question 355

All of the following are considered part of the lower gastrointestinal tract EXCEPT the:

- A) jejunum.
- B) large intestine.
- C) ileum.
- D) duodenum.

Answer: <https://biology-forums.com/index.php?topic=793987>

### Question 356

A tonic-clonic seizure is characterized by:

- A) flaccidity.
- B) movement of one area of the body.
- C) a period of apnea.
- D) increased muscle tone and rhythmic jerking.

Answer: <https://biology-forums.com/index.php?topic=793881>

### Question 357

Which of the following ECG findings is least anticipated in a patient experiencing an acute myocardial infarction?

- A) Osborn wave
- B) ST elevation
- C) ST depression
- D) QRS greater than 0.12 seconds

Answer: <https://biology-forums.com/index.php?topic=793718>

### Question 358

The carpopedal spasms that occur due to hyperventilation syndrome are a result of a relative \_\_\_\_\_, secondary to \_\_\_\_\_.

- A) hypocalcemia, decrease in unbound calcium
- B) hypercalcemia, respiratory alkalosis
- C) hypocalcemia, increase in bound calcium
- D) hyponatremia, respiratory alkalosis

Answer: <https://biology-forums.com/index.php?topic=793617>

### Question 359

Which of the following most accurately differentiates cardioversion from defibrillation?

- A) Cardioversion is timed to be synchronous with the patient's R wave.
- B) Cardioversion requires fewer than 100 joules.
- C) The electrical stimulation of cardioversion travels at a slower rate through the myocardium.
- D) Cardioversion cannot be used in patients who have a pulse.

Answer: <https://biology-forums.com/index.php?topic=793697>

### Question 360

When using CPAP in patients with COPD, in general, PEEP should be:

- A) < 10 mm Hg.
- B) > 10 mm Hg.
- C) < 10 cm H<sub>2</sub>O.
- D) > 10 cm H<sub>2</sub>O.

Answer: <https://biology-forums.com/index.php?topic=793607>

### Question 361

You are working in the ED caring for a 55-year-old female with a long history of COPD. She is more short of breath today than usual and states she has an increased cough. She has a tympanic temperature of 99.8°F. You have drawn arterial blood gases with the patient on room air and when the report comes back, it shows that the patient has a pO<sub>2</sub> of 52 mmHg. Which of the following is most likely?

- A) You have inadvertently drawn a venous sample.
- B) The patient is critically hypoxic and requires assisted ventilation.
- C) This is the typical value for this patient.
- D) The lab performed the test incorrectly.

Answer: <https://biology-forums.com/index.php?topic=793591>

### Question 362

Which of the following is the most likely result of increased pulmonary artery pressure?

- A) Increased left ventricular workload and cor pulmonale
- B) Increased right ventricular workload and cor pulmonale
- C) Decreased right atrial workload and right ventricular hypertrophy
- D) Increased left ventricular workload and congestive heart failure

Answer: <https://biology-forums.com/index.php?topic=793693>

### Question 363

You encounter a patient complaining of polyuria, polyphagia, polydipsia, and abdominal pain. Based on these complaints, which of the following would you also expect to find?

- A) Complaint of chest pain and shortness of breath
- B) Blood glucose of less than 70 mg/dL
- C) Kussmaul's respirations and a fruity breath odor
- D) Blood glucose between 80 and 120 mg/dL

Answer: <https://biology-forums.com/index.php?topic=793885>

### Question 364

Which of the following statements would be most typical of a patient with hepatitis?

- A) "It seems like everything has a yellow tinge to it."
- B) "I have sharp pain on the left side of my abdomen."
- C) "I have to urinate all the time."
- D) "My stools are really light in color."

Answer: <https://biology-forums.com/index.php?topic=794021>

### Question 365

Which of the following would be most typical of a patient suffering from diverticulitis?

- A) Dark, tarry stools
- B) Diffuse abdominal pain
- C) Left lower quadrant pain
- D) Inability to have a bowel movement

Answer: <https://biology-forums.com/index.php?topic=794028>

### Question 366

Humoral and cell-mediated immunity differ in that cell-mediated immunity uses:

- A) B cells, which generate effector cells to combat such invaders as intracellular organisms, while cellular immunity uses T cells that reside in lymph tissue and produce antibodies to combat foreign invaders.
- B) T cells, which generate effector cells to combat such invaders as intracellular organisms, while humoral immunity uses B cells that reside in lymph tissue and produce antibodies to combat foreign invaders.
- C) B cells, which generate effector cells to combat such invaders as intracellular organisms, while humoral immunity uses T cells that reside in lymph tissue and produce antibodies to combat foreign invaders.
- D) T cells, which reside in lymph tissue and produce antibodies to combat foreign invaders, while humoral immunity uses B cells that generate effector cells to combat such invaders as intracellular organisms.

Answer: <https://biology-forums.com/index.php?topic=794187>

### Question 367

Normal tidal volume in an average 70 kg adult is approximately \_\_\_\_\_ e.

- A) 1,500
- B) 1,000
- C) 750
- D) 500

Answer: <https://biology-forums.com/index.php?topic=793586>

### Question 368

Your patient is an 83-year-old male with a fever of 103°F. In addition, the patient is confused and combative. Heart rate = 132, respirations = 20, blood pressure = 100/70, SpO2 95% on room air, and blood glucose level = 90 mg/dL. During your examination you note that the patient has a Foley catheter and that the collection bag appears not to have been emptied for quite some time. The bag is full of dark, cloudy urine with sediment at the bottom of the bag. Which of the following is most appropriate?

- A) Acetaminophen suppository
- B) BLS transport without intervention
- C) Furosemide
- D) Intravenous fluid therapy with normal saline

Answer: <https://biology-forums.com/index.php?topic=794061>

### Question 369

Increased hepatic resistance to blood flow, as happens in cirrhosis, results in:

- A) hepatic arterial hypertension and obstruction of the common bile duct.
- B) portal vein hypertension and esophageal varices.
- C) portal artery hypertension and ascites.
- D) hepatic vein hypertension and hepatic vein aneurysm.

Answer: <https://biology-forums.com/index.php?topic=794002>

### Question 370

Your patient is a 60-year-old male with an acute exacerbation of COPD. You may consider giving the patient ipratropium because, in addition to reversing bronchospasm, it is helpful in:

- A) reducing inflammation.
- B) drying bronchial secretions.
- C) expectoration of mucus.
- D) stimulating the respiratory center in the medulla.

Answer: <https://biology-forums.com/index.php?topic=793605>

### Question 371

Which treatment would best halt the urticaria associated with an allergic reaction?

- A) Solu-Medrol
- B) Oxygen
- C) Dopamine and albuterol
- D) Epinephrine and diphenhydramine

Answer: <https://biology-forums.com/index.php?topic=793947>

### Question 372

Which of the following is the best route for administering epinephrine to patients in severe anaphylactic shock refractory to initial interventions?

- A) SC

- B) ET
- C) IM
- D) IV

Answer: <https://biology-forums.com/index.php?topic=793974>

### Question 373

Which of the following best describes a state of disorientation or disorganized thought?

- A) Delusion
- B) Confabulation
- C) Neurosis
- D) Confusion

Answer: <https://biology-forums.com/index.php?topic=794341>

### Question 374

Narcan acts as an antagonist to all of the following medications EXCEPT:

- A) midazolam.
- B) methadone.
- C) codeine.
- D) heroin.

Answer: <https://biology-forums.com/index.php?topic=794146>

### Question 375

Which of the following best describes a feeling of alarm at the expectation of danger?

- A) Fear
- B) Rage
- C) Phobia
- D) Stress

Answer: <https://biology-forums.com/index.php?topic=794325>

### Question 376

Persistent abdominal pain is considered a surgical emergency when lasting longer than:

- A) 2 days.
- B) 2 hours.
- C) 6 days.
- D) 6 hours.

Answer: <https://biology-forums.com/index.php?topic=794039>

### Question 377

Histamine causes the all of the following EXCEPT:

- A) bronchoconstriction.
- B) vasodilation.
- C) increased vascular permeability.
- D) increased intracranial pressure.

Answer: <https://biology-forums.com/index.php?topic=793983>

### Question 378

You respond to an ill patient. Upon your arrival, the patient states that she has had an increase in urination, thirst, and general malaise. The patient's finger stick blood glucose reading is 550 mg/dL; her blood pressure is 110/80 mmHg; pulse, 100; respiratory rate 26; ETCO<sub>2</sub> 29; and you note an acetone odor. You suspect:

- A) HHNK.
- B) DKA.
- C) DNK.
- D) TNK.

Answer: <https://biology-forums.com/index.php?topic=793943>

### Question 379

You are called to a patient with severe shortness of breath. Upon arrival, you find your patient in the tripod position, with pursed lips and audible wheezing. SpO<sub>2</sub> is at 89% and capnography shows a "shark fin" pattern with an ETCO<sub>2</sub> of 50. You should:

- A) administer a beta agonist.
- B) administer a beta antagonist.

- C) administer an alpha antagonist.
- D) administer an alpha agonist.

Answer: <https://biology-forums.com/index.php?topic=793658>

### Question 380

Your patient is found sitting on the edge of the bathtub with cool, diaphoretic skin. She states she became lightheaded and nearly "passed out" while vomiting. Your cardiac monitor shows a sinus bradycardia at a rate of 48. Which of the following is most likely?

- A) Sick sinus syndrome
- B) Use of sympathomimetic medications
- C) Disease of the cardiac conduction system
- D) Increased parasympathetic tone

Answer: <https://biology-forums.com/index.php?topic=793678>

### Question 381

Lung compliance is described as:

- A) the ease with which the chest expands.
- B) the diameter of the chest wall.
- C) the depth at which the chest expands.
- D) the rate at which the chest expands.

Answer: <https://biology-forums.com/index.php?topic=793635>

### Question 382

Which of the following is least likely to be associated with the pain of acute myocardial infarction?

- A) Pain described as sharp
- B) Discomfort lasting longer than 30 minutes
- C) Radiation to arms and neck
- D) Pain reproducible with palpation

Answer: <https://biology-forums.com/index.php?topic=793724>

### Question 383

The intrinsic rate of the SA node is:

- A) set by the sympathetic nervous system.
- B) 15-40 bpm.
- C) 60-100 bpm.
- D) 40-60 bpm.

Answer: <https://biology-forums.com/index.php?topic=793768>

### Question 384

A patient is experiencing severe abdominal cramping, vomiting, diarrhea, and facial flushing after eating undercooked chicken. Management of this patient should include all of the following EXCEPT:

- A) activated charcoal.
- B) IV of normal saline.
- C) oxygen.
- D) transport.

Answer: <https://biology-forums.com/index.php?topic=794110>

### Question 385

Whooping cough is also known as:

- A) meningococcus.
- B) pertussis.
- C) varicella.
- D) pneumonia.

Answer: <https://biology-forums.com/index.php?topic=794304>

### Question 386

A sudden disruption of pulmonary perfusion caused by a blood clot is known as:

- A) pulmonary occlusion.
- B) pulmonary diffusion.
- C) pulmonary edema.
- D) pulmonary embolism.

Answer: <https://biology-forums.com/index.php?topic=793640>

### Question 387

A patient has a fever of 105°F, irritability, delirium, tachycardia, vomiting, and hypotension. These signs and symptoms are most consistent with:

- A) thyrotoxic crisis.
- B) myxedema.
- C) Graves' disease.
- D) hypothyroidism.

Answer: <https://biology-forums.com/index.php?topic=793904>

### Question 388

Air entering and leaving the lungs via inspiration and expiration is known as:

- A) ventilation.
- B) respirations.
- C) perfusion.
- D) oxygenation.

Answer: <https://biology-forums.com/index.php?topic=793581>

### Question 389

Your female patient is experiencing sharp, stabbing, right-sided face pain of her upper and lower lips, cheek, and around her orbit. This best describes:

- A) a cluster headache.
- B) temporomandibular joint syndrome.
- C) trigeminal neuralgia.
- D) Bell's palsy.

Answer: <https://biology-forums.com/index.php?topic=793827>

### Question 390

You have been on the scene of a 55-year-old cardiac arrest patient for 30 minutes. You have full ALS care initiated, with no response to therapy. You should:

- A) consider termination of the arrest.
- B) transport immediately.
- C) keep working until you get a change.
- D) consider defibrillating at 360 joules.

Answer: <https://biology-forums.com/index.php?topic=793799>

### Question 391

Your patient is a 24-year-old male who is alert and oriented, complaining of severe "dizziness" and an earache for two days. He states that any movement of his head causes him to become very dizzy and nauseated. The patient's skin is warm and dry, his pupils are equal and reactive, and there is no gross neurological deficit. HR = 82, BP = 120/82, RR = 12, SaO<sub>2</sub> = 99%. Which of the following is most likely?

- A) Subdural hematoma
- B) Transient cerebral attack
- C) Hypersensitivity of the carotid sinus
- D) Labyrinthitis

Answer: <https://biology-forums.com/index.php?topic=793821>

### Question 392

Pseudoseizures are best controlled by:

- A) lorazepam.
- B) phenytoin.
- C) using physical restraints.
- D) a command to stop.

Answer: <https://biology-forums.com/index.php?topic=793856>

### Question 393

The endocrine system differs from the nervous system in that it:

- A) controls the body without nerve impulses.
- B) controls the body with specialized chemical messengers.
- C) doesn't regulate anything in the body.
- D) directly regulates the brain.

Answer: <https://biology-forums.com/index.php?topic=793938>



### Question 394

Prozac, Paxil, and Zoloft are all examples of:

- A) phenothiazines.
- B) monoamine oxidase inhibitors.
- C) selective serotonin reuptake inhibitors.
- D) tricyclic antidepressants.

Answer: <https://biology-forums.com/index.php?topic=794144>

### Question 395

Which of the following occurs during depolarization of a cardiac cell?

- A) Sodium moves out of the cell.
- B) The cell becomes relatively more positively charged.
- C) Potassium moves into the cell.
- D) The cell becomes negatively charged.

Answer: <https://biology-forums.com/index.php?topic=793722>

### Question 396

A type II diabetic with a blood glucose of 24 mg/dL would most likely be unconscious due to:

- A) insulin shock.
- B) cerebral hypoglycemia.
- C) gluconeogenesis.
- D) diabetic ketoacidosis.

Answer: <https://biology-forums.com/index.php?topic=793887>

### Question 397

The postsynaptic neurotransmitter of the sympathetic nerves is:

- A) dopamine.
- B) acetylcholine.
- C) norepinephrine.
- D) epinephrine.

Answer: <https://biology-forums.com/index.php?topic=793836>

### Question 398

A clue that the scene may NOT be safe to enter would be:

- A) a messy house.
- B) broken-down cars.
- C) an overgrown lawn.
- D) broken glass and furniture.

Answer: <https://biology-forums.com/index.php?topic=794356>

### Question 399

Your patient is an 18-year-old female college student who is supine in bed and responsive only to painful stimuli. Her roommate states that they went to a party last night. She says the patient only drank soda, but now she thinks a guy who had been following them around might have put something in the patient's drink. Physical examination reveals cool, dry skin and pupils sluggish to light bilaterally. HR = 72, BP = 112/64, RR = 10, SaO<sub>2</sub> = 98%. Which of the following drugs was most likely slipped into her drink?

- A) Flunitrazepam
- B) LSD
- C) Amphetamines
- D) Opium

Answer: <https://biology-forums.com/index.php?topic=794134>

### Question 400

One area in which paramedics have a chance to assume leadership is:

- A) public education and infectious disease prevention.
- B) FEMA studies.
- C) CDC studies.
- D) hospital advisory boards.

Answer: <https://biology-forums.com/index.php?topic=794307>

### Question 401

The need to progressively increase the dose of a drug to reproduce the effect originally achieved at smaller doses is:

- A) addiction.
- B) tolerance.
- C) substance abuse.
- D) habituation.

Answer: <https://biology-forums.com/index.php?topic=794117>

### Question 402

Which of the following is NOT a goal of the inflammatory process?

- A) To produce antibodies to combat pathogens
- B) To ward off damage from microorganisms or trauma
- C) To facilitate repair of the tissues
- D) To localize the damage

Answer: <https://biology-forums.com/index.php?topic=794199>

### Question 403

Which of the following statements best explains why urinary tract infections are more common in females than in males?

- A) The presence of estrogen in the lining of the female reproductive tract makes the mucous membranes more prone to infection.
- B) Bacteria from the vagina commonly enter the female urethra.
- C) The female urethra is shorter than those in males, more easily allowing bacteria to enter the rest of the urinary tract.
- D) Males have more acidic urine, which is effective in eliminating bacteria from the urinary tract.

Answer: <https://biology-forums.com/index.php?topic=794045>

### Question 404

Which of the following statements about pulse oximetry is FALSE?

- A) Oxygen saturation is the percentage of hemoglobin that is bound with some molecular structure.
- B) Pulse oximetry values can be expected to decrease within seconds in cases of developing hypoxia.
- C) Pulse oximetry should be used on all patients with respiratory complaints.
- D) Pulse oximetry has the ability to noninvasively measure total hemoglobin (SpHb) in addition to SpO2 and other parameters.

Answer: <https://biology-forums.com/index.php?topic=793623>

### Question 405

You are working at the triage desk in the ED when a young man on crutches approaches the desk. He appears moderately short of breath. He states he had a cast put on his left leg seven days ago after surgery for a ruptured Achilles tendon. This morning, while he was watching television, he suddenly became short of breath. He has a history of asthma, for which he takes Xopenex as needed, and is taking Tylenol with codeine for pain related to his surgery. The patient's lung sounds are clear and equal, SpO2 is 90 percent on room air, heart rate is 100 and regular, respirations are 24 and slightly labored, blood pressure is 128/88, and the patient is afebrile. These findings are most consistent with:

- A) allergic reaction to codeine.
- B) asthma exacerbated by recent anesthesia.
- C) pneumonia secondary to recent anesthesia.
- D) pulmonary embolism associated with immobilization of the lower extremity.

Answer: <https://biology-forums.com/index.php?topic=793613>

### Question 406

A 46-year-old female alcoholic is hypotensive, in severe distress, complaining of dysphagia, and vomiting bright red blood. Of the following, which is the most likely cause of this patient's clinical condition?

- A) Hemorrhagic pancreatitis
- B) Acute gastroenteritis
- C) Esophageal varices
- D) Acute gastric ulcer perforation

Answer: <https://biology-forums.com/index.php?topic=794017>

### Question 407

During a domestic disturbance your patient experienced a sudden onset of violent, bizarre movements of the extremities followed by unresponsiveness to verbal stimuli. On your arrival the bizarre movements begin again but stop suddenly when you firmly say, "Stop!" This most indicates \_\_\_\_\_ seizure.

- A) absence
- B) simple partial

- C) complex partial
- D) pseudo

Answer: <https://biology-forums.com/index.php?topic=793831>

### Question 408

Which of the following is the least likely cause of PEA?

- A) Hypertension
- B) Hypovolemia
- C) Cardiac tamponade
- D) Tension pneumothorax

Answer: <https://biology-forums.com/index.php?topic=793712>

### Question 409

Contaminated sharps need to be placed in:

- A) properly labeled puncture-resistant containers.
- B) biohazard containers in the dirty-utility room.
- C) the decontamination room.
- D) They can be thrown in the trash if they are "self containing."

Answer: <https://biology-forums.com/index.php?topic=794289>

### Question 410

Which of the following findings would be most specific to mumps?

- A) Swelling and tenderness of the parotid glands
- B) Temperature of 103°F or higher
- C) Redness of the face that gives a "slapped cheeks" appearance
- D) Fluid-filled vesicles on the trunk

Answer: <https://biology-forums.com/index.php?topic=794278>

### Question 411

Which of the following statements about patient restraint is TRUE?

- A) Restraints can be released once the patient is in control of himself.
- B) Roller bandages for restraint do not cause neurovascular damage to the extremities, but leather restraints do.
- C) Handcuffs are an acceptable choice for prehospital care.
- D) Four-point restraints should be used.

Answer: <https://biology-forums.com/index.php?topic=794316>

### Question 412

The most common cause of dementia is:

- A) Bell's palsy.
- B) stroke.
- C) Alzheimer's disease.
- D) Korsakoff's psychosis.

Answer: <https://biology-forums.com/index.php?topic=793816>

### Question 413

The pressure in the ventricle at the end of diastole is called:

- A) afterload.
- B) Starling's law.
- C) stroke volume.
- D) preload.

Answer: <https://biology-forums.com/index.php?topic=793762>

### Question 414

Your patient is in four-point restraints and starts to spit at you during transport. You should:

- A) put a nonrebreather mask on the patient but do not administer oxygen.
- B) place the patient prone, with his face turned away from you.
- C) place a surgical mask over the patient's mouth and nose.
- D) wear a HEPA respirator or an N-95 mask.

Answer: <https://biology-forums.com/index.php?topic=794347>

### Question 415

The most common complication in adults contracting the varicella virus is:

- A) chickenpox.
- B) pneumonia.
- C) respiratory syncytial virus (RSV).
- D) paranoia.

Answer: <https://biology-forums.com/index.php?topic=794300>

### Question 416

On-scene you are presented with a confused patient suffering from altered mental status. Additionally, in front of the family, the patient is very irritable and verbally abusive toward all present, including EMS. His wife states that his "kidneys are no good" and he also has "sugar" problems. Your assessment indicates that he is dyspneic with pale skin that is covered with a fine white sediment. His radial pulse is weak, rapid, and irregular. Additionally, you note edema to his hands, feet, and face. Crackles are noted to the lungs bilaterally and he has a dialysis graft on his right forearm. Your partner reports that his heart rate is 164, respirations 26, blood pressure 176/90, and SpO2 89%. After applying high-concentration oxygen, which of the following would you perform next?

- A) Administer furosemide, 120 mg
- B) Infuse a 1000 mL bolus of NS
- C) Determine the blood glucose level
- D) Administer sodium bicarbonate, 50 mEq

Answer: <https://biology-forums.com/index.php?topic=794075>

### Question 417

The five-step procedure for analyzing ECGs includes all of the following EXCEPT:

- A) rate.
- B) P wave.
- C) QRS complex.
- D) V1.

Answer: <https://biology-forums.com/index.php?topic=793782>

### Question 418

Posturing with the arms flexed and the legs extended is known as:

- A) decerebrate position.
- B) decorticate position.
- C) postictal position.
- D) neurogenic shock position.

Answer: <https://biology-forums.com/index.php?topic=793874>

### Question 419

Secretion of glucagon from the pancreas results in \_\_\_\_\_, which causes a(n) \_\_\_\_\_ in blood glucose levels.

- A) gluconeogenesis, decrease
- B) glycogenolysis, decrease
- C) gluconeogenesis, increase
- D) glycogenolysis, increase

Answer: <https://biology-forums.com/index.php?topic=793911>

### Question 420

Which of the following best describes the correct positioning of a restrained patient?

- A) Prone, sandwiched between the cot and a long backboard to prevent movement
- B) Prone, ensuring the restraints are not loose enough to allow patient movement
- C) Left lateral recumbent, ensuring the restraints are not tight enough to affect breathing or circulation
- D) Supine on the cot, ensuring the restraints are not loose but do not restrict circulation or breathing

Answer: <https://biology-forums.com/index.php?topic=794346>

### Question 421

A smoker who also takes supplemental vitamin K would be expected to:

- A) have a higher incidence of polycythemia.
- B) have enhanced clotting ability.
- C) have a lower risk of developing pulmonary embolism.
- D) be unable to generate active forms of clotting factors II, VII, IX, and X.

Answer: <https://biology-forums.com/index.php?topic=794184>

### Question 422

The initial exposure of an individual to an antigen is referred to as what?

- A) Allergy
- B) Sensitization
- C) Hypersensitivity
- D) Active immunity

Answer: <https://biology-forums.com/index.php?topic=793980>

### Question 423

Which hepatitis often presents with hepatitis D?

- A) A
- B) B
- C) C
- D) D

Answer: <https://biology-forums.com/index.php?topic=794266>

### Question 424

Your patient is a 68-year-old male complaining of difficulty breathing for two days. He is sitting up, conscious, alert, and oriented and appears to be in mild respiratory distress. Physical examination reveals cool, dry, pink skin; he is thin with well-defined accessory muscles, and you note diffuse wheezing to all lung fields. HR = 102, BP = 136/96, RR = 20, SaO<sub>2</sub> = 92%. The patient gives a 20-pack-a-year history of smoking. These findings are most typical of:

- A) emphysema.
- B) asthma.
- C) chronic bronchitis.
- D) congestive heart failure.

Answer: <https://biology-forums.com/index.php?topic=793611>

### Question 425

Your patient is a 20-year-old female college student who lives in a dormitory. She complains of weakness, fever, chills, nausea, a rash on her chest, and neck pain. Physical examination reveals warm, moist skin; pain with flexion of her neck; and a petechial rash on her chest. HR = 92, BP = 108/68, RR = 14, SaO<sub>2</sub> = 99%. Which of the following is most appropriate?

- A) Place an N-95 respirator on the patient, transport BLS, notify the hospital before arrival
- B) Place a face mask on your patient and yourself, transport BLS, notify the hospital before arrival
- C) Administer oxygen by nonrebreather, BLS, and transport
- D) Administer O<sub>2</sub> via nonrebreather mask, cardiac monitor, IV of normal saline, and transport

Answer: <https://biology-forums.com/index.php?topic=794267>

### Question 426

Pain at McBurney's point is associated with:

- A) cholecystitis.
- B) kidney stones.
- C) appendicitis.
- D) pancreatitis.

Answer: <https://biology-forums.com/index.php?topic=794025>

### Question 427

Your patient is a 19-year-old male who ingested thirty 500 mg tablets of Tylenol 25 minutes ago. Police officers on the scene are requesting that you "check him out" before they transport him for psychiatric evaluation. The patient denies ingesting other drugs or alcohol and has no complaints. HR = 94, BP = 116/74, RR = 12, SaO<sub>2</sub> = 98%. Which of the following would be most appropriate?

- A) Release the patient to law enforcement custody
- B) Transport to the emergency department and administer activated charcoal
- C) Transport to the emergency department and administer sodium bicarbonate
- D) Transport to the emergency department and start an IV of normal saline

Answer: <https://biology-forums.com/index.php?topic=794127>

### Question 428

Your patient is a 55-year-old male whose wife called EMS after the patient complained of bright red bleeding during a bowel movement. The patient refuses transport, stating he has hemorrhoids and has had similar bleeding in the past. Which of the following statements is most appropriate?

- A) "I'm sure you are right; there is nothing to worry about."
- B) "Similar bleeding can be caused by more serious conditions."
- C) "This does not sound like hemorrhoids."
- D) "Even though this sounds like hemorrhoids, the bleeding may become life-threatening."

Answer: <https://biology-forums.com/index.php?topic=794026>

### Question 429

A patient undergoes neurological changes during hemodialysis. Of the following, which is the most likely cause of these neurologic abnormalities?

- A) Acute myocardial infarction
- B) Hyperglycemia
- C) Hypotension
- D) Accumulated blood urea

Answer: <https://biology-forums.com/index.php?topic=794049>

### Question 430

Diaphoresis exhibited in a patient actively having an MI is due to:

- A) sympathetic response.
- B) parasympathetic response.
- C) increased metabolism.
- D) increased myocardial demand.

Answer: <https://biology-forums.com/index.php?topic=793787>

### Question 431

Immunity resulting from a direct attack on a foreign substance by specialized cells in the immune system is:

- A) primary immunity.
- B) humoral immunity.
- C) cellular immunity.
- D) secondary response.

Answer: <https://biology-forums.com/index.php?topic=793975>

### Question 432

Your patient is a 19-year-old male complaining of a two-day history of abdominal pain described as diffuse and colicky, located around his umbilical area. He also states a loss of appetite and a low-grade fever over the same period. Palpation of his abdomen reveals tenderness and guarding to the periumbilical area. Of the following, which is the most likely cause of his clinical condition?

- A) Bowel obstruction
- B) Appendicitis
- C) Peptic ulcer disease
- D) Cholecystitis

Answer: <https://biology-forums.com/index.php?topic=794007>

### Question 433

What ethnicity is most likely to suffer from sickle cell disease?

- A) Native American
- B) Asian
- C) African American
- D) Caucasian

Answer: <https://biology-forums.com/index.php?topic=794214>

### Question 434

Of the following, which would be the most likely dysfunction experienced by a patient with multiple myeloma?

- A) Increased T cell production
- B) Decreased T cell production
- C) Decreased blood cell production
- D) Increased blood cell production

Answer: <https://biology-forums.com/index.php?topic=794172>

### Question 435

Tenderness associated with pyelonephritis is best evaluated by percussing:

- A) in the midline, just superior to the symphysis pubis.
- B) just lateral to the spine slightly superior to the sacroiliac joint.

C) laterally, just superior to the superior iliac crest.  
D) over the pubis in lower UTI and at the flank in upper UTI.  
Answer: <https://biology-forums.com/index.php?topic=794048>

### Question 436

The two main functions of the renal system are:  
A) maintaining pH balance and blood volume.  
B) maintaining blood glucose and clearing dead blood cells.  
C) maintaining blood volume with proper pH, and retaining glucose and excreting urea.  
D) maintaining hematocrit levels with the proper creatine balance, and activation of the RAAS.  
Answer: <https://biology-forums.com/index.php?topic=794084>

### Question 437

Your patient is complaining of pain secondary to epididymitis. Where should you expect the pain to be located?  
A) Flank  
B) Testes  
C) Suprapubic region  
D) Lower left or right quadrant, depending on which side is affected  
Answer: <https://biology-forums.com/index.php?topic=794067>

### Question 438

The left atrioventricular valve is referred to as the \_\_\_\_\_ valve.  
A) tricuspid  
B) mitral  
C) aortic  
D) pulmonary  
Answer: <https://biology-forums.com/index.php?topic=793759>

### Question 439

Public education about cardiovascular disease focuses on:  
A) risk factors and signs and symptoms of CVD.  
B) CPR and public access defibrillation.  
C) CPR and signs and symptoms of CVD.  
D) risk factors and public-access defibrillation.  
Answer: <https://biology-forums.com/index.php?topic=793664>

### Question 440

A potassium level of 3.0 would commonly be associated with which ECG finding?  
A) T wave merging with QRS  
B) Delta wave  
C) U wave  
D) Flattening T wave  
Answer: <https://biology-forums.com/index.php?topic=793785>

### Question 441

Which of the following findings would be atypical in a patient with a history of Cushing's syndrome?  
A) Blood glucose level of 190 mg/dL  
B) Blood pressure of 154/86 mmHg  
C) Bruising of the extremities  
D) Temperature of 101°F  
Answer: <https://biology-forums.com/index.php?topic=793936>

### Question 442

The standard dose of diphenhydramine for anaphylaxis is:  
A) 10-20 mg.  
B) 30-40 mg.  
C) 50-100 mg.  
D) 25-50 mg.  
Answer: <https://biology-forums.com/index.php?topic=793986>

### Question 443

You have applied a CO-oximeter to your patient, and it is displaying an SpCO of 15 percent. Which of the following is the most appropriate interpretation of this finding?

- A) This is consistent with a fatal level of carbon monoxide poisoning.
- B) This is a normal reading for a smoker and nothing to worry about.
- C) This is a normal reading for a nonsmoker and nothing to worry about.
- D) This is consistent with mild carbon monoxide poisoning.

Answer: <https://biology-forums.com/index.php?topic=793612>

### Question 444

Paradoxical movement is associated with:

- A) tension pneumothorax.
- B) hemothorax.
- C) flail chest.
- D) simple pneumothorax.

Answer: <https://biology-forums.com/index.php?topic=793650>

### Question 445

Mushrooms and yeasts are examples of:

- A) parasites.
- B) fungi.
- C) helminthes.
- D) protozoa.

Answer: <https://biology-forums.com/index.php?topic=794274>

### Question 446

Upon examining your patient, you note that he has a clubbing of the fingers. You would suspect a history of:

- A) hypoxemia.
- B) neoplasm.
- C) hypertension.
- D) peripheral vascular disease.

Answer: <https://biology-forums.com/index.php?topic=793651>

### Question 447

Which of the following is least likely to result in hypoglycemia in a type I diabetic patient?

- A) Increased exercise level
- B) Taking insulin as usual but missing a meal
- C) Eating foods high in sugar
- D) Inadvertently administering too much insulin

Answer: <https://biology-forums.com/index.php?topic=793914>

### Question 448

Which of the following is NOT considered an appropriate method of controlling a combative patient in the prehospital setting?

- A) Droperidol
- B) Leather restraints
- C) Pepper spray
- D) Verbal deescalation

Answer: <https://biology-forums.com/index.php?topic=794333>

### Question 449

Which of the following items is most likely to interfere with the function of an implanted cardiac pacemaker?

- A) Magnet
- B) Cellular telephone
- C) Television remote control
- D) Hair dryer

Answer: <https://biology-forums.com/index.php?topic=793673>

### Question 450



Blood entering the left atrium arrives via the:

- A) bicuspid valve.
- B) superior and inferior vena cava.
- C) pulmonary vein.
- D) pulmonary artery.

Answer: <https://biology-forums.com/index.php?topic=793666>

### Question 451

Ventilation is:

- A) the diffusion of gases at the alveoli.
- B) the diffusion of the gas at the cellular level.
- C) the mechanical process of moving air in and out of the lungs.
- D) done to allow the gas to escape the chest wall.

Answer: <https://biology-forums.com/index.php?topic=793633>

### Question 452

The difference between apical and peripheral pulse rates that results from decreased cardiac output when the atria fail to contract is known as:

- A) pulsus paradoxus.
- B) pulse deficit.
- C) pulsus alternans.
- D) paroxysmal pulse pressure.

Answer: <https://biology-forums.com/index.php?topic=793694>

### Question 453

A 16-year-old female with a history of diabetes is found unconscious in a high school bathroom following volleyball practice. She is tachycardic; has cool, clammy skin; is lethargic; is slightly combative; and is very confused. She is most likely experiencing:

- A) hypoglycemia.
- B) diabetic ketoacidosis.
- C) hyperglycemia.
- D) diabetic coma.

Answer: <https://biology-forums.com/index.php?topic=793916>

### Question 454

Treatment of sinus tachycardia is aimed at:

- A) adenosine.
- B) calcium channel blockers.
- C) beta blockers.
- D) treating the underlying cause.

Answer: <https://biology-forums.com/index.php?topic=793783>

### Question 455

A seizure that begins as an electrical discharge in a small area of the brain but spreads to include the entire cerebral cortex is a \_\_\_\_\_ seizure.

- A) complex partial
- B) myoclonic
- C) generalized
- D) simple partial

Answer: <https://biology-forums.com/index.php?topic=793817>

### Question 456

You arrive on the scene of a patient who complains of worsening shortness of breath for the past few days. The patient presents with an SpO<sub>2</sub> of 90%, ETCO<sub>2</sub> of 45, normal wave form, crackles, and a temperature of 101.5°F. You should suspect:

- A) CHF.
- B) COPD.
- C) pneumonia.
- D) ARDS.

Answer: <https://biology-forums.com/index.php?topic=793660>

### Question 457

The QRS complex represents:

- A) ventricular depolarization.

- B) atrial repolarization.
- C) atrial depolarization.
- D) ventricular repolarization.

Answer: <https://biology-forums.com/index.php?topic=793732>

### Question 458

A 40-year-old female presents with hemorrhage from her dialysis graft. She states that she just got back from dialysis when the bleeding started. There is a significant amount of blood on the chair and floor. To control the bleeding, you would immediately:

- A) place a tourniquet proximal to the graft.
- B) place a tourniquet distal to the graft.
- C) apply direct pressure over the graft.
- D) apply ice to the area and elevate the extremity.

Answer: <https://biology-forums.com/index.php?topic=794079>

### Question 459

A condition seen in chronic alcoholics that causes ataxia, eye muscle weakness, and mental derangement is known as:

- A) Korsakoff's psychosis.
- B) Wolff-Parkinson-White syndrome.
- C) Wernicke's syndrome.
- D) Brugada syndrome.

Answer: <https://biology-forums.com/index.php?topic=793878>

### Question 460

An early sign of hyperkalemia is:

- A) flat T waves on an ECG.
- B) widening of the QT interval.
- C) presence of an Osborn wave.
- D) tall, peaked T waves on an ECG.

Answer: <https://biology-forums.com/index.php?topic=793745>

### Question 461

Your patient is a 56-year-old male who is conscious and exhibits slurred speech, irritability, and cool, clammy skin. Blood glucose is 54 mg/dL. Proper treatment for this patient could include all of the following EXCEPT:

- A) 5 to 10 mg of glucagon IM.
- B) consideration of D50 IV if the patient cannot follow simple commands.
- C) IV of NS.
- D) administration of oral glucose if the patient is able to swallow.

Answer: <https://biology-forums.com/index.php?topic=793893>

### Question 462

While monitoring a patient's cardiac rhythm, you note that there is no electrical activity after a PQRST complex for a period equal to exactly three of the previous R-R intervals. This is most accurately described as:

- A) sinus arrest.
- B) sinus pause.
- C) sinus arrhythmia.
- D) sinus block.

Answer: <https://biology-forums.com/index.php?topic=793691>

### Question 463

You respond to an unresponsive patient. Upon exam, you get a finger stick blood glucose reading of "Lo." Treatment should include administration of:

- A) insulin.
- B) epinephrine.
- C) dextrose.
- D) ASA.

Answer: <https://biology-forums.com/index.php?topic=793945>

### Question 464

Two 15-year-old boys have been hiking and camping and using a guide to native plants to determine which plants are edible. They drank a tea made from some plants that they picked. They are now complaining of abdominal cramping, watering eyes, vomiting, diarrhea, and sweating. Which of the following have they most likely ingested?

- A) Amanita
- B) Jimson weed
- C) Holly berries
- D) Poison sumac

Answer: <https://biology-forums.com/index.php?topic=794108>

### Question 465

An emergency department physician tells you that the hyperglycemic diabetic you brought in earlier has a pH of 7.40. What is the likeliest explanation of this statement?

- A) The patient is a type II diabetic who was no longer secreting enough insulin to prevent the use of fats for energy.
- B) The patient is a type II diabetic who was secreting enough insulin to prevent the use of fats for energy.
- C) The patient is a type I diabetic who did not take his insulin and is therefore unable to use glucose for energy.
- D) The patient is a type I diabetic who took his insulin and did not eat, resulting in the breakdown of proteins for energy.

Answer: <https://biology-forums.com/index.php?topic=793930>

### Question 466

Which of the following chemistry findings would suggest acute renal failure?

- A) Elevated blood urea nitrogen (BUN)
- B) Decreased creatinine
- C) Decreased potassium
- D) Elevated iron

Answer: <https://biology-forums.com/index.php?topic=794082>

### Question 467

Which of the following measures is most important in protecting EMS providers from infectious disease?

- A) Thorough disinfection of the ambulance after every call
- B) Tuberculosis vaccination
- C) Hand washing after all patient contact
- D) Glove use for all patient contact

Answer: <https://biology-forums.com/index.php?topic=794231>

### Question 468

Your patient is a 19-year-old female who called EMS because she awoke with "itchy red patches" on her chest, back, and arms that "seem to come and go." As you obtain the history, you learn that she started taking Keflex, an antibiotic, two days ago to prevent infection in a laceration to her hand. In explaining to your patient what is going on, which of the following statements would be the most accurate?

- A) "It looks like the infection in your hand has spread to the bloodstream. The toxins from the bacteria are causing a rash."
- B) "These look like hives. They occur during an allergic reaction. You may have developed an allergy to the antibiotic you are taking."
- C) "I cannot say what this is, but it is not an allergic reaction. Hives do not come and go as you have described."
- D) "This is a typical side effect of Keflex. It happens in most patients who take it."

Answer: <https://biology-forums.com/index.php?topic=793978>

### Question 469

Your patient is a 73-year-old male who is sitting in a recliner, cyanotic, pulseless, and apneic. The patient's skin is cool and dry. The patient's wife last saw him an hour and a half ago. Which of the following should you do first?

- A) Check for rigor mortis.
- B) Start CPR.
- C) Attach the monitor/defibrillator.
- D) Inform the patient's wife that he is dead and nothing can be done for him.

Answer: <https://biology-forums.com/index.php?topic=793731>

### Question 470

Which of the following statements about Haemophilus influenzae type B is TRUE?

- A) It is the leading cause of conjunctivitis in adults.
- B) It was once the leading cause of meningitis in children aged 6 months to 3 years.
- C) Vaccines are ineffective against Haemophilus influenzae type B.
- D) It is a Gram-positive rod.

Answer: <https://biology-forums.com/index.php?topic=794277>

### Question 471

Cardioversion can be used to treat all of the following rhythms EXCEPT:

- A) ventricular tachycardia with a pulse.
- B) rapid atrial fibrillation.
- C) ventricular fibrillation.
- D) supraventricular tachycardia.

Answer: <https://biology-forums.com/index.php?topic=793735>

### Question 472

The maximum window of time a fibrinolytic can be administered is:

- A) 8 hours after onset of symptoms.
- B) 12 hours after onset of symptoms.
- C) 24 hours after onset of symptoms.
- D) 6 hours after onset of symptoms.

Answer: <https://biology-forums.com/index.php?topic=793795>

### Question 473

PSVT is least likely to occur secondary to:

- A) stress.
- B) Wolff-Parkinson-White syndrome.
- C) myocardial infarction.
- D) ingestion of caffeine.

Answer: <https://biology-forums.com/index.php?topic=793700>

### Question 474

Mononucleosis presents with all the following signs and symptoms EXCEPT:

- A) enlarged and tender lymph nodes.
- B) fatigue.
- C) hepatomegaly.
- D) sore throat.

Answer: <https://biology-forums.com/index.php?topic=794259>

### Question 475

A 35-year-old male is complaining of a headache, blurred vision, nausea, and vomiting. He has a history of hypertension but is noncompliant with his medications. His pupils are equal and reactive, his skin is warm and dry, and his breath sounds are clear and equal bilaterally. HR = 122, BP = 202/138, RR = 12, SaO<sub>2</sub> = 99%. In addition to monitoring his cardiac rhythm, administering oxygen, and starting an IV at a KVO rate, which of the following is most appropriate?

- A) Labetalol, IV
- B) Diazepam, IV
- C) Nitroglycerin, SL
- D) Morphine, IV

Answer: <https://biology-forums.com/index.php?topic=793701>

### Question 476

Hemophilia A is an example of a \_\_\_\_\_ disorder.

- A) genetically acquired
- B) environmentally acquired
- C) intrinsically endowed
- D) extrinsically endowed

Answer: <https://biology-forums.com/index.php?topic=794217>

### Question 477

Cardiac muscle is different from smooth muscle in the fact that it has:

- A) different nerve pathways.
- B) automaticity.
- C) peristalsis.
- D) There is no difference.

Answer: <https://biology-forums.com/index.php?topic=793767>

### Question 478

Your patient is a two-year-old male who is alert and crying after ingesting bathroom cleaner. Physical examination reveals no obvious burns or irritation to his oropharynx, and his skin is cool and dry. HR = 112, BP = 108/60, RR = 24, SaO<sub>2</sub> = 99%. Which of the following is most appropriate?

- A) Having the patient drink a glass of milk
- B) Administration of ipecac
- C) Transport
- D) Administration of activated charcoal

Answer: <https://biology-forums.com/index.php?topic=794135>

### Question 479

Which of the following ECG findings would indicate a possible pacemaker failure?

- A) Occasional QRS complexes without pacer spikes
- B) A QRS duration of 0.20 seconds
- C) Pacemaker spikes without associated QRS complexes
- D) A pacemaker spike preceding each P wave

Answer: <https://biology-forums.com/index.php?topic=793754>

### Question 480

You are suspicious that a patient is suffering from active tuberculosis. Which of the following would be most appropriate?

- A) Neither you nor the patient should wear a HEPA respirator.
- B) Both you and the patient should wear a HEPA respirator.
- C) You should wear an N95 mask.
- D) The patient should wear a HEPA respirator.

Answer: <https://biology-forums.com/index.php?topic=794262>

### Question 481

Myocardial ischemia is caused by an imbalance of:

- A) oxygen supply and demand.
- B) oxygen bioavailability.
- C) free radical oxygen.
- D) sodium bicarbonate.

Answer: <https://biology-forums.com/index.php?topic=793790>

### Question 482

Which of the following techniques destroys some, but not all, microorganisms?

- A) Cleaning
- B) Disinfection
- C) Decontamination
- D) Sterilization

Answer: <https://biology-forums.com/index.php?topic=794241>

### Question 483

A 32-year-old is conscious and in mild distress, complaining of nausea and sweating. He states that his symptoms started two days ago when he stopped drinking "cold turkey." Physical examination reveals cool, diaphoretic skin; slightly dilated pupils bilaterally; and a general weakness to all extremities. Which of the following findings would also be likely?

- A) Delirium tremens, hallucinations, and anxiety
- B) Insomnia, hyperglycemia, and difficulty breathing
- C) Hypertension, bradycardia, and hyperglycemia
- D) Depression, hypotension, and polyuria

Answer: <https://biology-forums.com/index.php?topic=794137>

### Question 484

Your patient is a 22-year-old male complaining of a two-day history of a sore throat. He denies difficulty breathing, nausea, vomiting, or chest pain. He has no medical history and takes no medications. HR = 72, BP = 120/78, RR = 12, SaO<sub>2</sub> = 99%. Physical examination reveals cool, dry skin. Which of the following findings would be most likely?

- A) Rhonchi upon auscultation of the lungs
- B) Swelling of the cervical lymph nodes
- C) Generalized erythema
- D) Positive Murphy's sign

Answer: <https://biology-forums.com/index.php?topic=794178>

### Question 485

Your patient has a history of benign prostatic hypertrophy. Which of the following complaints is most consistent with this history?

- A) "It seems like I urinate a gallon at a time."
- B) "My urine is cloudy and has a strong odor."
- C) "I can't seem to urinate."
- D) "I have blood in my urine first thing in the morning."

Answer: <https://biology-forums.com/index.php?topic=794069>

### Question 486

Which of the following statements about using antihistamines in the treatment of anaphylaxis is TRUE?

- A) Antihistamines displace histamine, then block histamine receptors.
- B) Antihistamines block histamine receptors and reduce histamine release from mast cells and basophils.
- C) Blocking of H1 receptors results in mild vasoconstriction, while the blocking of H2 receptors results in bronchodilation.
- D) Antihistamines block H1 and H2 receptors and prevent further release of histamine from B and T cells.

Answer: <https://biology-forums.com/index.php?topic=793971>

### Question 487

You respond to a patient who has an AV shunt in place. You notice that the patient is unresponsive with the following vital signs: blood pressure, 180/100 mmHg; pulse: 48; respirations: 12 and irregular. You suspect:

- A) increased intracranial pressure.
- B) decreased intracranial pressure.
- C) seizure.
- D) normal status for an AV shunt patient.

Answer: <https://biology-forums.com/index.php?topic=793875>

### Question 488

Your patient, who has a history of cholecystitis, is experiencing pain in her right shoulder. She is most likely experiencing \_\_\_\_\_ pain.

- A) somatic
- B) visceral
- C) referred
- D) peritoneal

Answer: <https://biology-forums.com/index.php?topic=793989>

### Question 489

A patient with hemophilia has suffered a large and deep laceration to the right forearm after cutting it on a mirror, which fell while he was hanging it. The wound is hemorrhaging a steady amount of dark red blood. Given the history of hemophilia, your immediate action on reaching the patient's side and putting on gloves would be to:

- A) request that the ED have Factor VIII standing by on your arrival.
- B) start an IV and administer a 1 L NS bolus.
- C) apply a tourniquet proximal to the wound.
- D) apply direct pressure with a bulky dressing.

Answer: <https://biology-forums.com/index.php?topic=794173>

### Question 490

Your patient is a 36-year-old female, conscious and alert, sitting at her desk and complaining of a rash and itchiness after taking a sulfa antibiotic. Physical examination reveals warm and dry skin, urticaria on her chest and back, lung sounds that are clear and equal bilaterally. HR = 100, BP = 132/78, RR = 14, SaO<sub>2</sub> = 98%. Which of the following is the most appropriate treatment for this patient?

- A) Oxygen via nasal cannula, IV crystalloid solution, 5 mg epinephrine IV, 25 mg diphenhydramine IV
- B) Transport only
- C) Oxygen via nonrebreather mask, IV crystalloid solution, 25 mg diphenhydramine IV
- D) Oxygen via nonrebreather mask, IV crystalloid solution, 0.3 mg epinephrine SC, 25 mg diphenhydramine IV, albuterol 2.5 mg via nebulizer

Answer: <https://biology-forums.com/index.php?topic=793957>

### Question 491

For a resting potential in a cardiac cell to exist, there must be an:

- A) adequate number of potassium ions inside the cell and sodium ions outside the cell.
- B) adequate number of sodium ions inside the cell and potassium ions outside the cell.
- C) influx of calcium ions into the cell.
- D) ionic equilibrium between the inside and outside of the cell.

Answer: <https://biology-forums.com/index.php?topic=793675>

### Question 492

The presence of inverted T waves on an ECG indicates:

- A) myocardial infarction.
- B) myocardial necrosis.
- C) myocardial ischemia.
- D) myocardial injury.

Answer: <https://biology-forums.com/index.php?topic=793670>

### Question 493

Hemostasis is maintained by which three mechanisms?

- A) Vascular spasm, platelet plugs, fibrin clots
- B) Fibrin, platelets, hemoglobin
- C) Von Willebrand's factor, fibrin, platelets
- D) Factor VIII, factor VII, factor III

Answer: <https://biology-forums.com/index.php?topic=794221>

### Question 494

The immune response is a cascade that reacts to a:

- A) pathogen.
- B) toxin.
- C) bacteria.
- D) virus.

Answer: <https://biology-forums.com/index.php?topic=793981>

### Question 495

You are presented with a 25-year-old male complaining of mouth and stomach pain after accidentally ingesting approximately 8 ounces of benzene. Physical examination reveals irritation to the oral mucosa, skin warm and slightly diaphoretic, and lungs clear and equal bilaterally. HR = 100, BP = 118/66, RR = 14, SaO<sub>2</sub> = 99%. Based on the clinical exam findings, treatment would consist of all of the following EXCEPT:

- A) O<sub>2</sub> via nasal cannula 2 lpm.
- B) rapid transportation to an ED for gastric decontamination.
- C) administration of activated charcoal.
- D) IV of NS KVO.

Answer: <https://biology-forums.com/index.php?topic=794151>

### Question 496

Which of the following is the most common chief complaint related to acute pancreatitis?

- A) Headache
- B) Intense abdominal pain
- C) Blood in the stool
- D) Diarrhea

Answer: <https://biology-forums.com/index.php?topic=794022>

### Question 497

There are 15 small boxes between R waves on an ECG tracing. What is the heart rate?

- A) 150
- B) 120
- C) 100
- D) 20

Answer: <https://biology-forums.com/index.php?topic=793681>

### Question 498

Your patient is a 46-year-old male truck driver who is sitting on a toilet complaining of bleeding with defecation. He states that he had to strain significantly to produce a bowel movement, then noted blood on his stool afterward. He claims no significant medical history, has had no recent illness, and takes no medications. You note the presence of bright red blood on the surface of his stool. Of the following, which is the most likely cause of his clinical condition?

- A) Crohn's disease
- B) Colitis
- C) Upper GI bleed
- D) Hemorrhoids

Answer: <https://biology-forums.com/index.php?topic=793994>

### Question 499

Hepatitis B is stable on surfaces with dried visible blood for:

- A) 3 days.
- B) 3 hours.
- C) 8 hours.
- D) 8 days.

Answer: <https://biology-forums.com/index.php?topic=794297>

### Question 500

The thyroid releases TSH to:

- A) promote shivering.
- B) protect the vascular system.
- C) increase metabolism.
- D) decrease insulin.

Answer: <https://biology-forums.com/index.php?topic=793941>

### Question 501

Which of the following statements concerning Africanized honeybees is accurate?

- A) Envenomation by Africanized honeybees requires treatment with specific antivenin.
- B) The venom of Africanized honeybees causes acute renal failure.
- C) The venom of Africanized honeybees is more toxic than that of other types of bees.
- D) Patients stung by Africanized honeybees tend to have more stings than patients stung by other types of bees.

Answer: <https://biology-forums.com/index.php?topic=794131>

### Question 502

Which of the following infectious childhood diseases would most likely result in paralysis?

- A) Spina bifida
- B) German measles
- C) Rubella
- D) Poliomyelitis

Answer: <https://biology-forums.com/index.php?topic=793815>

### Question 503

You are called to the home of a patient who suddenly "stopped breathing." The patient has a history of a neoplasm at C-3 and C-4. You suspect:

- A) impingement on the phrenic nerve.
- B) cervical fractures.
- C) lung cancer.
- D) myocardial infarction.

Answer: <https://biology-forums.com/index.php?topic=793642>

### Question 504

A complete hemoglobin molecule can carry up to:

- A) three oxygen molecules.
- B) six oxygen molecules.
- C) four oxygen molecules.
- D) two oxygen molecules.

Answer: <https://biology-forums.com/index.php?topic=794219>

### Question 505

In response to fever, the patient's metabolic needs will:

- A) increase.
- B) decrease.
- C) remain the same.
- D) become anaerobic.

Answer: <https://biology-forums.com/index.php?topic=794293>

### Question 506

Your 43-year-old male patient is alert and oriented and complaining of abdominal pain. He states that he is experiencing nausea and has vomited



twice. Which of the following is the most appropriate follow-up question?

- A) "What were you doing when the vomiting started?"
- B) "Do you drink more than three alcoholic beverages a day?"
- C) "Did you become dizzy or faint while you were vomiting?"
- D) "What did the material you vomited look like?"

Answer: <https://biology-forums.com/index.php?topic=794012>

### Question 507

Which of the following is the desired physiologic reaction that occurs after the administration of a vaccine that contains live, attenuated viruses?

- A) The antibodies in the vaccine multiply in the body.
- B) The immune system will create specific antibodies to the viruses in the vaccine.
- C) The immune system will create specific antigens to the viruses in the vaccine.
- D) The viruses in the vaccine act as an antigen, resulting in a nonspecific immune response.

Answer: <https://biology-forums.com/index.php?topic=793961>

### Question 508

Which of the following is NOT considered a modifiable risk factor for coronary heart disease?

- A) Stress
- B) Gender
- C) Obesity
- D) Diet

Answer: <https://biology-forums.com/index.php?topic=793703>

### Question 509

\_\_\_\_\_ is a drop in systolic blood pressure of more than 10 mmHg with inspiration.

- A) Electrical alternans
- B) Pulsus alternans
- C) Pulse deficit
- D) Pulsus paradoxus

Answer: <https://biology-forums.com/index.php?topic=793696>

### Question 510

You have begun transcutaneous pacing of a 52-year-old male who is in third-degree heart block. He was initially unresponsive to all stimuli, with a pulse of 32, blood pressure 60 by palpation, and a respiratory rate of 12. Which of the following is least helpful when determining the effectiveness of transcutaneous pacing?

- A) Evidence of mechanical capture
- B) Increased level of consciousness
- C) Evidence of electrical capture
- D) Increased blood pressure

Answer: <https://biology-forums.com/index.php?topic=793736>

### Question 511

A cat scratches a patient on the arm. Twenty-four hours later, the area is swollen and red. What additional signs or symptoms is the patient most likely to exhibit?

- A) Fever and hypotension
- B) Loss of appetite
- C) Pain and warmth at the injury site
- D) Urticaria

Answer: <https://biology-forums.com/index.php?topic=794175>

### Question 512

You respond to a 2-year-old child who has a seal-like cough and stridor. You suspect:

- A) laryngotracheobronchitis.
- B) influenza.
- C) pneumonia.
- D) pharyngitis.

Answer: <https://biology-forums.com/index.php?topic=794306>

### Question 513

Your patient is a 54-year-old male who is unresponsive and cyanotic and has agonal respirations. A "quick look" shows ventricular tachycardia. Which

of the following is most important when determining the immediate treatment of this patient?

- A) How long he has been "down"
- B) Whether he has a pulse
- C) Whether he is allergic to lidocaine
- D) Whether he has an implanted cardioverter-defibrillator

Answer: <https://biology-forums.com/index.php?topic=793668>

### Question 514

Your patient is a 22-year-old female who has increased her daily dose of lithium without her physician's knowledge. She is complaining of generalized weakness, vomiting, and diarrhea. You notice that her speech is slurred. Heart rate = 68 and irregular, respirations = 16, blood pressure = 104/70, SaO<sub>2</sub> = 97% on room air, and the monitor shows a sinus rhythm with PACs and PJs. Which of the following would be most beneficial to this patient?

- A) Oxygen
- B) Magnesium sulfate
- C) Calcium chloride
- D) Sodium bicarbonate

Answer: <https://biology-forums.com/index.php?topic=794109>

### Question 515

You respond to a patient who presents with shortness of breath after he took a dose of an antibiotic. You find your patient with audible stridor and urticaria. You should administer:

- A) SQ epinephrine 1:1000 0.3-0.5 mg.
- B) IM epinephrine 1:1000 0.3-0.5 mg.
- C) diphenhydramine 75 mg.
- D) albuterol 5 mg.

Answer: <https://biology-forums.com/index.php?topic=793985>

### Question 516

A 72-year-old female has a one-week history of 101°F fever, chills, and dark-brown sputum production. She also has rhonchi and rales throughout her right lung. If this condition is left untreated, it could result in:

- A) cardiogenic shock.
- B) chronic bronchitis.
- C) septic shock.
- D) pneumonia.

Answer: <https://biology-forums.com/index.php?topic=793631>

### Question 517

Which of the following mechanisms is NOT characteristic for a rectal foreign body?

- A) Adhesion progression
- B) Accidental trauma
- C) Accidental swallowing of something
- D) Tumor growth

Answer: <https://biology-forums.com/index.php?topic=794033>

### Question 518

Your patient is a 39-year-old male with a history of alcoholism. He is unresponsive, with cool, clammy skin and a weak, rapid pulse of 108. BP = 128/92, RR = 12 and regular. Your partner manages the airway and assists ventilations, but you are unable to start an IV after three attempts. Which of the following is most appropriate at this point?

- A) Reattempt the IV while en route.
- B) Dextrose, 25 g, and thiamine, 100 mg, both IM
- C) Glucagon, 1.0 mg, and thiamine, 100 mg, both IM
- D) Glucagon 1.0 mg IM

Answer: <https://biology-forums.com/index.php?topic=793906>

### Question 519

Which medication would be the best choice for reducing the bronchospasm and laryngeal edema associated with anaphylaxis?

- A) Albuterol
- B) Solu-Medrol
- C) Oxygen
- D) Dexamethasone

Answer: <https://biology-forums.com/index.php?topic=793958>

### Question 520

A 48-year-old male is complaining of chest pain that he describes as dull, located substernally, but radiating to his neck. He rates the pain a 6 on a scale of 1 to 10 and complains of nausea and lightheadedness. His skin is cool and diaphoretic. HR = 96, BP = 124/82, RR = 14, SaO<sub>2</sub> = 97%. The 12-lead ECG is nondiagnostic. In addition to oxygen, an IV of normal saline at a keep open rate, and transport to the emergency department, which of the following would be most appropriate?

- A) Nitroglycerin, morphine, and furosemide
- B) Reassurance that likely his condition is not cardiac in nature
- C) Nitroglycerin
- D) Aspirin, nitroglycerin, and morphine

Answer: <https://biology-forums.com/index.php?topic=793728>

### Question 521

A patient has been stunned with a TASER, and as a result you note superficial skin damage from the probe. This type of injury is classified as:

- A) direct injury.
- B) primary injury.
- C) secondary injury.
- D) tertiary injury.

Answer: <https://biology-forums.com/index.php?topic=794350>

### Question 522

Your diabetic patient asks you why he "passes out" when his blood sugar gets too low. Which of the following responses is most accurate?

- A) "When the blood sugar is low, the brain does not get enough oxygen."
- B) "Brain cells need a constant supply of glucose, or sugar, to function. Without sugar the brain cells cannot work to maintain consciousness."
- C) "When the blood sugar is low, the blood vessels relax and the blood pressure drops, causing you to faint."
- D) "The cells of the heart can only use glucose, or sugar, for energy. Without sugar the heart cannot effectively pump blood to the brain."

Answer: <https://biology-forums.com/index.php?topic=793922>

### Question 523

Your patient is a 32-year-old female, 30 weeks' pregnant, complaining of shortness of breath and palpitations. She is alert and oriented, though anxious; her skin is cool and moist, and her radial pulse is weak and rapid, but regular. HR = 180, BP = 100/72, RR = 24. The monitor shows supraventricular tachycardia. After applying oxygen by nonrebreather and starting an IV of normal saline, which of the following is most appropriate?

- A) 150 mg of amiodarone
- B) Transport without further intervention
- C) 6 mg of adenosine
- D) 2 mg of Versed and cardioversion beginning at 50 joules

Answer: <https://biology-forums.com/index.php?topic=793721>

### Question 524

The intrinsic rate of the AV node is:

- A) set by the sympathetic nervous system.
- B) 15-40 bpm.
- C) 60-100 bpm.
- D) 40-60 bpm.

Answer: <https://biology-forums.com/index.php?topic=793769>

### Question 525

A 19-year-old female states that she is addicted to Vicodin because it makes her feel good, and she cannot stop taking the pills. She states that she craves them all the time, and when she runs out she does not feel sick but becomes preoccupied with how she can get more. Assessment reveals no abnormalities, and vital signs are within acceptable limits. This patient's condition is most consistent with:

- A) physical dependence.
- B) habituation.
- C) psychological dependence.
- D) tolerance.

Answer: <https://biology-forums.com/index.php?topic=794312>

### Question 526

Your patient is a 27-year-old male complaining of difficulty breathing. He states that he has just returned from a month-long backpacking trip across Arizona. He describes a two-week history of fatigue, fever, nausea, vomiting, diarrhea, and abdominal pain. He started experiencing difficulty breathing yesterday. He has no significant medical history and takes no medications. Physical examination reveals hot, moist skin; bilateral lower-lobe rales on

auscultation of the lungs; and the abdomen is soft and nontender. Which of the following is most likely?

- A) Legionnaire's disease
- B) Hantavirus infection
- C) Anthrax
- D) Scorpion bite

Answer: <https://biology-forums.com/index.php?topic=794276>

### Question 527

You are called to the scene of a patient who has just attempted suicide by ingesting detergent. You notice that the patient is coughing and has a hoarse voice. You suspect:

- A) tracheal rupture.
- B) laryngeal edema.
- C) subcutaneous emphysema.
- D) nothing, this is a normal finding for this patient.

Answer: <https://biology-forums.com/index.php?topic=793661>

### Question 528

Which of the following is NOT an organic cause of a behavioral emergency?

- A) Tumor
- B) Hypoglycemia
- C) Alcoholic encephalopathy
- D) Dementia

Answer: <https://biology-forums.com/index.php?topic=794338>

### Question 529

Which of the following risk factors has been proven to increase the risk of cardiovascular disease?

- A) Oral contraceptive use
- B) Type A personality
- C) Stress
- D) Lack of exercise

Answer: <https://biology-forums.com/index.php?topic=793663>

### Question 530

Which of the following is NOT a role of the upper respiratory system?

- A) Warm inspired air
- B) Filter inspired air
- C) Carry out gas exchange with inspired air
- D) Humidify inspired air

Answer: <https://biology-forums.com/index.php?topic=793629>

### Question 531

Prehospital management of an unresponsive patient with hypoglycemia should NOT include:

- A) administration of D50 IV.
- B) administration of glucagon IM.
- C) BVM ventilations with 100 percent O<sub>2</sub> and an OPA.
- D) administration of oral glucose.

Answer: <https://biology-forums.com/index.php?topic=793896>

### Question 532

You respond to a patient who has been having trouble with his indwelling urinary catheter. Vital signs are: pulse, 110; respiration rate, 22; ETCO<sub>2</sub>, 28; temperature, 101.2°F. You suspect:

- A) sepsis.
- B) urinary tract infection (UTI).
- C) renal failure.
- D) rhabdomyolysis.

Answer: <https://biology-forums.com/index.php?topic=794308>

### Question 533

Your patient complains of coughing up "greenish-brown" sputum. This is most consistent with:

- A) cancer.

- B) bronchitis.
- C) seasonal allergies.
- D) pulmonary edema.

Answer: <https://biology-forums.com/index.php?topic=793599>

### Question 534

An increased hydrogen ion concentration in the cerebrospinal fluid results in a(n) \_\_\_\_\_ respiratory rate.

- A) erratic
- B) decreased
- C) unchanged
- D) increased

Answer: <https://biology-forums.com/index.php?topic=793619>

### Question 535

Your patient is a 48-year-old female who is alert and oriented after a possible seizure. Her friends state they witnessed her slump to the floor and "shake" for about 15 seconds. She awoke in less than 1 minute and was "a bit groggy" for a few minutes. She does not believe she had a seizure but thinks she may have fainted. Which of the following questions is least important when differentiating seizure and syncope?

- A) "Are you allergic to any medications?"
- B) "What kind of medications do you take?"
- C) "Do you have a history of seizures?"
- D) "What happened just before the event?"

Answer: <https://biology-forums.com/index.php?topic=793807>

### Question 536

A TIA typically:

- A) resolves within 24 hours.
- B) never resolves.
- C) can be reversible with tPA.
- D) is caused by intracranial hemorrhage.

Answer: <https://biology-forums.com/index.php?topic=793880>

### Question 537

Which of the following is NOT a known risk factor for attempting suicide?

- A) Previous attempts
- B) Isolation
- C) Loss of independence
- D) Delirium

Answer: <https://biology-forums.com/index.php?topic=794371>

### Question 538

After a normal inspiration and expiration, an adult patient has about 2,400 mL of air remaining in the lungs, known as the:

- A) expiratory reserve volume.
- B) residual volume.
- C) functional residual capacity.
- D) vital capacity.

Answer: <https://biology-forums.com/index.php?topic=793587>

### Question 539

You are evaluating a patient complaining of swollen and exudative legs. The patient has a history of diabetes mellitus. You suspect which of the following?

- A) Lupus erythematosus
- B) Rheumatoid arthritis
- C) Fasciitis
- D) Cellulitis

Answer: <https://biology-forums.com/index.php?topic=793578>

### Question 540

You arrive to find an unresponsive patient inside a running vehicle in his garage. Your destination should include a hospital with what capability?

- A) Hyperbaric oxygen
- B) Hypobaric oxygen

- C) Neurosurgical capabilities
- D) Any hospital

Answer: <https://biology-forums.com/index.php?topic=793662>

### Question 541

A behavior disorder characterized by relatively rapid onset of widely disorganized thought is:

- A) dementia.
- B) delirium.
- C) delusions.
- D) disassociation.

Answer: <https://biology-forums.com/index.php?topic=794369>

### Question 542

When a substance enters the body through the gastrointestinal tract, it has accessed the body by:

- A) inhalation.
- B) surface absorption.
- C) injection.
- D) ingestion.

Answer: <https://biology-forums.com/index.php?topic=794103>

### Question 543

Your patient is a 40-year-old male who ingested 30 tablets of Lexapro and 24 tablets of Tylenol PM. Which of the following is the most important question you should ask?

- A) "Why did you take these medications?"
- B) "Have you ever done this before?"
- C) "Do you have a history of depression?"
- D) "How long ago did you take these medications?"

Answer: <https://biology-forums.com/index.php?topic=794096>

### Question 544

Your patient is a 55-year-old male who is in moderate distress and complaining of chest pain. He states that he experienced an acute onset of left-sided crushing chest pain while playing basketball with his grandson. He complains of weakness and near-syncope with exertion. His skin is pale, cool, and diaphoretic. HR = 40, BP = 72/40, RR = 20, SaO<sub>2</sub> = 95%. The monitor shows a third-degree AV block. Which of the following is most appropriate?

- A) Sedation and transcutaneous pacing
- B) Atropine, 0.5 mg, up to 2.0 mg
- C) Dopamine at 5 mcg/kg/min
- D) Aspirin, nitroglycerin, and morphine

Answer: <https://biology-forums.com/index.php?topic=793751>

### Question 545

Which of the following statements about mumps is TRUE?

- A) Mumps are of no concern to the adult patient.
- B) There is no vaccine for the mumps virus.
- C) Mumps are characterized by enlargement of the salivary glands.
- D) Mumps are not highly communicable.

Answer: <https://biology-forums.com/index.php?topic=794236>

### Question 546

Which of the following is best described as a change from the absence of antibodies to detectable levels of antibodies in the blood after exposure to an infectious disease?

- A) Clinical horizon
- B) Virulence
- C) Chemotaxis
- D) Seroconversion

Answer: <https://biology-forums.com/index.php?topic=794246>

### Question 547

Your patient is a 28-year-old male with a history of panic attacks. He states that symptoms began about 20 minutes ago and that he has been unable to get them under control. He complains of shortness of breath, chest pain, dizziness, and a feeling that he is going to die. His skin is warm and moist.

HR = 132, BP = 138/98, RR = 26 and shallow. You spend 15 minutes on-scene with him attempting to "talk him down" without success. Which of the following is most appropriate?

- A) Oxygen, IV, nitroglycerin, aspirin, morphine
- B) IV, diazepam
- C) Oxygen
- D) IV, haloperidol

Answer: <https://biology-forums.com/index.php?topic=794340>

### Question 548

The first part of the aorta as it leaves the heart is the:

- A) aortic arch.
- B) thoracic aorta.
- C) descending aorta.
- D) ascending aorta.

Answer: <https://biology-forums.com/index.php?topic=793667>

### Question 549

You are caring for a patient with a known history of sickle cell disease. The patient has severe abdominal and back pain. The patient is tachycardic and tachypneic. The blood pressure is normal. What should be one of the paramedic's first interventions?

- A) Administer oxygen
- B) Initiate an IV
- C) Give oral analgesics
- D) Put the patient in a supine position

Answer: <https://biology-forums.com/index.php?topic=794215>

### Question 550

Your patient is a 19-year-old female who is exhibiting generalized seizure activity. Her roommate states that she had a seizure that lasted about 3 minutes. She remained unresponsive, then started having another seizure about 5 minutes after the first. The patient has peripheral cyanosis and copious oral secretions. Which of the following is of HIGHEST priority for this patient?

- A) Starting an IV and administering 5 mg of diazepam
- B) Suctioning the airway, applying 15 liters per minute of oxygen by nonrebreathing mask
- C) Starting an IV, administering succinylcholine, and intubation
- D) Suctioning the airway, assisting ventilations with a bag-valve-mask device

Answer: <https://biology-forums.com/index.php?topic=793848>

### Question 551

Your patient is a 57-year-old male who is alert and oriented and complaining of a slight headache. His coworker states the patient "fainted." The patient describes feeling weak and lightheaded before the incident and "came to" lying on the floor. Medical history includes cardiovascular disease with a history of angina and hypertension. Medications include clopidogrel (Plavix), nitroglycerin, and metoprolol. Which of the following is least helpful when formulating a field impression for this patient?

- A) Pulse oximetry
- B) Neurological exam
- C) Cardiac monitoring
- D) Orthostatic vital signs

Answer: <https://biology-forums.com/index.php?topic=793844>

### Question 552

The intrinsic rate of the Purkinje system is:

- A) set by the sympathetic nervous system.
- B) 15-40 bpm.
- C) 60-100 bpm.
- D) 40-60 bpm.

Answer: <https://biology-forums.com/index.php?topic=793770>

### Question 553

Capnometry measures the partial pressure of CO<sub>2</sub> in:

- A) venous blood.
- B) arterial blood.
- C) expired air.
- D) inspired air.

Answer: <https://biology-forums.com/index.php?topic=793601>

### Question 554

Your patient is a 25-year-old female who is complaining of pain in the midline of the lower abdomen. Which of the following questions helps least when determining the etiology of the patient's pain?

- A) "Do you feel nauseated?"
- B) "Are you having any pain with urination?"
- C) "Are you experiencing pain anywhere other than your lower abdomen?"
- D) "When was your last menstrual period?"

Answer: <https://biology-forums.com/index.php?topic=794019>

### Question 555

The loading dose of norepinephrine is:

- A) 2-4 mcg/min.
- B) 2-4 mg/ min.
- C) 8-10 mcg/min.
- D) 8-10 mg/min.

Answer: <https://biology-forums.com/index.php?topic=793789>

### Question 556

Your patient is a 32-year-old male who has been successfully treated for depression with a selective serotonin reuptake inhibitor. The patient's wife is concerned, because over the past few days her husband has not slept and has been spending most of his time trading stocks online and making extravagant purchases. He has been talking about taking a trip to Spain to run with the bulls in Pamplona. She states that he is talking incessantly and seems "wired." The patient had a similar episode about a month ago that came on suddenly but resolved when the patient "crashed" and slept for several days. Which of the following is most consistent with this situation?

- A) Cocaine use
- B) Schizoaffective disorder
- C) Methamphetamine use
- D) Bipolar disorder

Answer: <https://biology-forums.com/index.php?topic=794323>

### Question 557

The average adult tidal volume is:

- A) 750 mL.
- B) 1200 mL.
- C) 2400 mL.
- D) 500 mL.

Answer: <https://biology-forums.com/index.php?topic=793636>

### Question 558

Fifty percent of accidental poisonings occur in:

- A) adults.
- B) geriatric patients.
- C) pediatric patients.
- D) dementia patients.

Answer: <https://biology-forums.com/index.php?topic=794158>

### Question 559

A 76-year-old patient with acute interstitial nephritis presents with oliguria, altered mental status, and edema to his face, hands, and feet. Of the following, which best describes the pathophysiology behind these clinical findings?

- A) Increased GFR results in retention of water, electrolytes, and metabolic waste.
- B) Na<sup>+</sup> and K<sup>+</sup> excretion results in diuresis and dehydration.
- C) Decreased GFR results in retention of water, electrolytes, and metabolic waste.
- D) H<sup>+</sup> excretion results in diuresis and alkalosis.

Answer: <https://biology-forums.com/index.php?topic=794053>

### Question 560

Your patient has a history of progressively worsening angina that comes on at rest. This most commonly indicates \_\_\_\_\_ angina.

- A) Prinzmetal's
- B) Ludwig's



- C) decubitus
- D) unstable angina

Answer: <https://biology-forums.com/index.php?topic=793744>

### Question 561

Lithium is used to treat:

- A) bipolar disorder.
- B) schizophrenia.
- C) depression.
- D) personality disorders.

Answer: <https://biology-forums.com/index.php?topic=794107>

### Question 562

Which of the following is most relevant to your decisions about how to handle a potentially violent patient?

- A) The fact that you have transported this patient many times and he has never become violent
- B) The family's reassurances that the patient never harmed anyone
- C) The patient's current behavior
- D) Whether or not the patient is taking antipsychotic medications

Answer: <https://biology-forums.com/index.php?topic=794319>

### Question 563

While you are caring for a patient on the floor of her kitchen, she begins to have a generalized seizure. Which of the following is the most appropriate first action?

- A) Move objects away from her and wait to see if the seizure stops.
- B) Insert an oropharyngeal airway.
- C) Restrain her so she does not injure herself.
- D) Start an IV, and administer 5 mg diazepam.

Answer: <https://biology-forums.com/index.php?topic=793857>

### Question 564

Fifty percent dextrose solution is placed on side A of a membrane, and 25 percent dextrose is placed on side B of a membrane. Assuming the membrane is permeable to water, but not solutes, what will happen?

- A) Water may move freely in both directions, but there will be no net movement of water.
- B) Net movement of water from side B to side A will occur.
- C) Net movement of water from side A to side B will occur.
- D) Water will not move in either direction.

Answer: <https://biology-forums.com/index.php?topic=794052>

### Question 565

Which of the following is NOT characteristic of a migraine?

- A) Vomiting
- B) Low back pain
- C) Photosensitivity
- D) Throbbing headache

Answer: <https://biology-forums.com/index.php?topic=793838>

### Question 566

The area that connects the brain to the spinal cord is known as the:

- A) cerebellum.
- B) medulla oblongata.
- C) pons.
- D) foramen magnum.

Answer: <https://biology-forums.com/index.php?topic=793867>

### Question 567

Naproxen, ibuprofen, and ketorolac are all examples of:

- A) MAOIs.
- B) SSRIs.
- C) NSAIDs.
- D) TCAs.

Answer: <https://biology-forums.com/index.php?topic=794147>

### Question 568

Epilepsy affects roughly:

- A) 1 percent of the population.
- B) 5 percent of the population.
- C) 10 percent of the population.
- D) 15 percent of the population.

Answer: <https://biology-forums.com/index.php?topic=793864>

### Question 569

A patient has a hematocrit of 48 percent and a hemoglobin of 15 g/dl. Which of the following statements is TRUE?

- A) His hemoglobin is high, but his hematocrit is normal.
- B) Both are within the normal range for an adult male or female.
- C) His hematocrit and hemoglobin are both low.
- D) Both are within the normal range for an adult male.

Answer: <https://biology-forums.com/index.php?topic=794191>

### Question 570

Which of the following statements about leukemia is TRUE?

- A) Infections secondary to low levels of circulating neutrophils are common.
- B) The pediatric mortality rate is greater than 50 percent.
- C) Leukemia is a disease of children and young adults, not older adults.
- D) Leukemias are cancers of erythrocytes.

Answer: <https://biology-forums.com/index.php?topic=794192>

### Question 571

The most common cause of lower back pain is:

- A) sciatica.
- B) arthritis.
- C) idiopathic.
- D) osteomyelitis.

Answer: <https://biology-forums.com/index.php?topic=793830>

### Question 572

Pain that is well localized, allowing an examiner to pinpoint the area of irritation is \_\_\_\_\_ pain.

- A) parietal
- B) visceral
- C) referred
- D) somatic

Answer: <https://biology-forums.com/index.php?topic=794005>

### Question 573

Which three mechanisms can produce visceral pain?

- A) Peritonitis, cholecystitis, and a ruptured abdominal aorta
- B) Blunt trauma, penetrating trauma, and medical illness
- C) Somatic, referred, and peritonitis
- D) Distension, ischemia, and inflammation

Answer: <https://biology-forums.com/index.php?topic=793996>

### Question 574

A patient complains of atraumatic bleeding of the gums. You suspect:

- A) halitosis.
- B) dentalgia.
- C) a hematologic disorder.
- D) gingivitis.

Answer: <https://biology-forums.com/index.php?topic=794225>

### Question 575

An example of a direct injury that may be sustained by a behavioral patient who has been TASERed would be:

- A) the muscle contractions that occur as a result of the electrical impulse.
- B) the damage caused by the impact of the probe.
- C) the ignition of the combustible gases that are present after firing the TASER.
- D) the resultant blunt force trauma caused by the fall that ensues after the electrical impulse.

Answer: <https://biology-forums.com/index.php?topic=794348>

### Question 576

In the presence of calcium, thrombin will encourage:

- A) fibrin clot formation.
- B) prothrombin activation.
- C) platelet aggregation.
- D) plasminogen release.

Answer: <https://biology-forums.com/index.php?topic=794193>

### Question 577

You have administered 25 g of 50 percent dextrose to a patient who was initially unresponsive with a blood glucose level of 23 mg/dL. Which of the following is the best indication that the patient's condition is improving?

- A) The heart rate decreases from 112 to 96 per minute.
- B) The patient seems less diaphoretic.
- C) The patient opens his eyes but is confused.
- D) The respiratory rate decreases from 24 to 16 per minute.

Answer: <https://biology-forums.com/index.php?topic=793932>

### Question 578

After receiving the hepatitis B vaccine, the blood of a paramedic reveals no circulating antibodies for the disease. Which of the following phases would the paramedic most likely be in regarding the immunization?

- A) Latent
- B) Window
- C) Incubation
- D) Seroconversion

Answer: <https://biology-forums.com/index.php?topic=794228>

### Question 579

The most common cause of dementia in the elderly is:

- A) cerebrovascular disease.
- B) Alzheimer's disease.
- C) multi-infarct dementia.
- D) Parkinson's disease.

Answer: <https://biology-forums.com/index.php?topic=793841>

### Question 580

Hepatitis E is often associated with:

- A) HIV infection.
- B) tuberculosis infection.
- C) contaminated drinking water.
- D) HBV infection.

Answer: <https://biology-forums.com/index.php?topic=794273>

### Question 581

During which phase of the cardiac cycle does ventricular filling begin?

- A) Systole
- B) Diastole
- C) Refractory
- D) Absolute refractory

Answer: <https://biology-forums.com/index.php?topic=793761>

### Question 582

Which of the following statements would make you suspicious that your patient has been exposed to cyanide?

- A) "I think I smoked some bad weed."

- B) "I inhaled some fumes when I was fueling my truck."
- C) "I think my car has an exhaust leak."
- D) "I have been burning carpets and old furniture all day."

Answer: <https://biology-forums.com/index.php?topic=794112>

### Question 583

A 19-year-old male has ingested fifty 325 mg aspirin tablets 20 minutes before your arrival. He is alert and complaining of burning abdominal pain. Which of the following is appropriate in the prehospital management of this patient?

- A) Syrup of ipecac
- B) Activated charcoal
- C) Sodium bicarbonate
- D) N-acetylcysteine

Answer: <https://biology-forums.com/index.php?topic=794120>

### Question 584

A 35-year-old male complains of a "pressure"-type headache to the back of his head and neck. He states that he woke up with the discomfort this morning, and the pain has steadily gotten worse through the day. He denies any radiation of the pain and denies photophobia but states that he is slightly nauseated. Based on this clinical presentation, the paramedic should be suspicious of what type of headache?

- A) Migraine
- B) Vascular
- C) Cluster
- D) Tension

Answer: <https://biology-forums.com/index.php?topic=793832>

### Question 585

The mortality rate of ruptured esophageal varices is \_\_\_\_\_ percent.

- A) over 35
- B) 10 to 15
- C) 20 to 30
- D) 15

Answer: <https://biology-forums.com/index.php?topic=794011>

### Question 586

Your patient is a 32-year-old female who is depressed and tearful after a fight with her ex-husband. Which of the following would NOT increase the risk of or indicate an increased risk of the patient committing suicide?

- A) The patient has access to a method of suicide.
- B) The paramedic is using direct questioning about suicidal intentions.
- C) The patient has called her sister to come and get her dog.
- D) The patient has had three glasses of wine since the fight.

Answer: <https://biology-forums.com/index.php?topic=794324>

### Question 587

The pressure in the left ventricle at the end of diastole is called:

- A) after.
- B) preload.
- C) ejection fraction.
- D) stroke volume.

Answer: <https://biology-forums.com/index.php?topic=793671>

### Question 588

The proportion of the left ventricular volume that is pumped out of the heart during systole is the:

- A) ejection fraction.
- B) stroke volume.
- C) preload.
- D) afterload.

Answer: <https://biology-forums.com/index.php?topic=793676>

### Question 589

You are transporting a patient who is having wild changes in his heart rate, an irregular R-R interval, and a history of taking Lanoxin. The patient is now becoming pale, cool, and clammy, with an MAP of 60. You should:

- A) not worry, as this is a normal presentation.
- B) begin TCP and consider a catecholamine infusion.
- C) infuse a calcium channel blocker.
- D) start an amiodarone drip.

Answer: <https://biology-forums.com/index.php?topic=793784>

### Question 590

Which of the following does NOT typically enter the body through injection?

- A) Medication overdose
- B) Organophosphate
- C) Envenomation
- D) Illicit drug overdose

Answer: <https://biology-forums.com/index.php?topic=794141>

### Question 591

While on a call you receive a laceration to your thigh from a jagged piece of metal. Which of the following is the correct recommendation for tetanus prophylaxis?

- A) You must receive a tetanus booster annually to be protected from tetanus.
- B) You should receive a tetanus booster if you have not had one in the past ten years.
- C) If you are over the age of 60, you should receive tetanus immune globulin but not a tetanus booster.
- D) If you received the entire series of tetanus immunizations as a child, you do not need a tetanus booster.

Answer: <https://biology-forums.com/index.php?topic=794280>

### Question 592

Your patient is a 44-year-old female complaining of a three-day history of localized abdominal pain in her midepigastic region after eating. The pain tends to subside with antacids. Today she is experiencing nausea, and the pain did not subside with antacids. The patient gives a history of smoking and moderate alcohol consumption. The patient's skin is warm and dry, and she has a blood pressure of 128/88, a heart rate of 84, and respirations of 20. Your course of treatment should consist of:

- A) sodium bicarbonate IV.
- B) transporting the patient in a position of comfort and giving reassurance.
- C) high-concentration oxygen by nonrebreathing mask.
- D) IV of NS with 250 cc fluid bolus.

Answer: <https://biology-forums.com/index.php?topic=793991>

### Question 593

An antidote:

- A) neutralizes a specific toxin.
- B) enhances the toxin.
- C) is not indicated in the field.
- D) is universally oxygen.

Answer: <https://biology-forums.com/index.php?topic=794164>

### Question 594

Normal interval time for the QRS complex is:

- A) 0.04-0.12 second.
- B) 0.33-0.42 second.
- C) 0.12-0.20 second.
- D) 1.20-2.00 seconds.

Answer: <https://biology-forums.com/index.php?topic=793780>

### Question 595

You respond to a patient complaining of shortness of breath. Upon your arrival, the patient tells you that she has been experiencing headaches, vertigo, and now itching. She says her doctor had called with a lab result of her latest test. Her hematocrit is reported as 60. You suspect:

- A) congestive heart failure (CHF).
- B) sickle cell disease.
- C) thrombocytopenia.
- D) polycythemia.

Answer: <https://biology-forums.com/index.php?topic=794227>

### Question 596

Your patient is a 38-year-old female with a history of Crohn's disease. She is conscious and alert and complaining of abdominal pain. She describes a one-week history of increasingly diffuse, crampy abdominal pain. She also states that she has had nausea and vomiting, fever, and diarrhea the past two days. Physical examination reveals that her skin is warm and dry and that her abdomen is tender to palpation in all quadrants with no masses or distension noted. HR = 100, BP = 118/78, RR = 14, SaO<sub>2</sub> = 99%. Which of the following treatments is appropriate in the prehospital management of this patient?

- A) Diphenhydramine
- B) Ketorolac (Toradol)
- C) Methylprednisolone
- D) Antiemetics

Answer: <https://biology-forums.com/index.php?topic=794001>

### Question 597

Obstructive sleep apnea is a problem of the:

- A) phrenic nerve.
- B) upper airway.
- C) medulla oblongata.
- D) larynx and vocal cords.

Answer: <https://biology-forums.com/index.php?topic=793596>

### Question 598

Which of the following is the therapeutic effect of a cathartic?

- A) Vomiting
- B) Increased protein binding of drugs
- C) Alkalinization of the urine
- D) Diarrhea

Answer: <https://biology-forums.com/index.php?topic=794098>

### Question 599

Which of the following statements about prions is TRUE?

- A) They are neither prokaryotes nor eukaryotes.
- B) Eastern equine encephalitis is the most common prion disease.
- C) Prions are easily destroyed by heat sterilization.
- D) Prions are single-celled animals capable of causing disease.

Answer: <https://biology-forums.com/index.php?topic=794233>

### Question 600

McBurney's point, a common site of pain secondary to appendicitis, is located:

- A) at the midway point of a line from 1 to 2 inches above the right iliac crest to the umbilicus.
- B) 2 inches above the umbilicus in the midline.
- C) 1 to 2 inches above the iliac crest in the right midaxillary line.
- D) at the midway point of a line from the symphysis pubis to the right anterior, superior iliac crest.

Answer: <https://biology-forums.com/index.php?topic=794009>

### Question 601

You are evaluating a patient complaining of having a productive cough. The patient states the sputum is green to brown. You suspect:

- A) infection.
- B) inflammation.
- C) allergies.
- D) hemoptysis.

Answer: <https://biology-forums.com/index.php?topic=793648>

### Question 602

Which of the following diseases is most likely to cause dementia in the patient?

- A) Pick's disease
- B) Multiple sclerosis
- C) Amyotrophic lateral sclerosis
- D) Spina bifida

Answer: <https://biology-forums.com/index.php?topic=793863>

### Question 603

Which of the following statements about the epidemiology of Graves' disease is TRUE?

- A) Graves' disease typically manifests late in adulthood.
- B) Heredity does not predispose people to Graves' disease.
- C) Obesity and poor dietary habits increase the risk of Graves' disease.
- D) Graves' disease is about six times more common in women than in men.

Answer: <https://biology-forums.com/index.php?topic=793883>

### Question 604

A 44-year-old male staying in a homeless shelter is alert and complaining of shortness of breath. He has a two-week history of cough with hemoptysis, fever, chills, and night sweats. Physical examination reveals skin to be warm and moist and lung sounds decreased in the right upper lobe with rhonchi. HR = 100, BP = 142/100, RR = 20, SaO<sub>2</sub> = 95%. You should assume this patient has a high likelihood of having:

- A) hantavirus pulmonary syndrome.
- B) tuberculosis.
- C) pneumonia.
- D) RSV.

Answer: <https://biology-forums.com/index.php?topic=794257>

### Question 605

All of the following are examples of one of the three "principles of decontamination" that are specific to toxicological emergencies EXCEPT:

- A) administration of N-acetylcysteine.
- B) administration of an NS fluid challenge.
- C) administration of sorbitol.
- D) removing a patient from a structure that is filled with carbon monoxide.

Answer: <https://biology-forums.com/index.php?topic=794116>

### Question 606

All of the following are components of the inflammatory process EXCEPT:

- A) vasodilation.
- B) increased capillary permeability.
- C) increased blood flow.
- D) decreased chemotaxis.

Answer: <https://biology-forums.com/index.php?topic=794185>

### Question 607

Auscultation of an S3 is associated with:

- A) mitral valve prolapse.
- B) increased force of atrial contraction.
- C) aortic stenosis.
- D) congestive heart failure.

Answer: <https://biology-forums.com/index.php?topic=793717>

### Question 608

Which of the following is NOT a common pathophysiological cause of behavioral emergencies?

- A) Underlying psychiatric illness
- B) Psychosocial stressors
- C) The environment
- D) Use of recreational drugs and alcohol

Answer: <https://biology-forums.com/index.php?topic=794310>

### Question 609

When dealing with a possible renal emergency, it is imperative to ask:

- A) "How many times have you urinated today?"
- B) "How much do you weigh?"
- C) "Do you think you can walk?"
- D) "When was the last time you saw your nephrologist?"

Answer: <https://biology-forums.com/index.php?topic=794086>

### Question 610

Which of the following is the correct sequence of cardiac electrical activity?

1. AV node

2. Internodal pathways
  3. Bundle of His
  4. SA node
  5. Purkinje fibers
  6. Bundle branches
- A) 1, 2, 4, 3, 6, 5  
B) 4, 1, 2, 3, 6, 5  
C) 1, 2, 4, 3, 5, 6  
D) 4, 2, 1, 3, 6, 5

Answer: <https://biology-forums.com/index.php?topic=793748>

### Question 611

The study of blood and blood-forming organs is called:

- A) oncology.  
B) hematology.  
C) homeostasis.  
D) palliative care.

Answer: <https://biology-forums.com/index.php?topic=794216>

### Question 612

A 63-year-old female with a history of hypothyroidism presents in a stuporous state, responsive only to pain. Physical exam reveals thin hair, a puffy face, an enlarged tongue, and cold, doughy skin. Her heart rate is 70 and regular, RR is 10 and regular, BP is 90/62, blood glucose level is 60 mg/dL, and temperature is 86°F via a tympanic thermometer. Your treatment of this patient should NOT include:

- A) active rewarming.  
B) endotracheal intubation.  
C) 50 percent dextrose, IV.  
D) IV fluids at a TKO rate.

Answer: <https://biology-forums.com/index.php?topic=793901>

### Question 613

A seizure that remains confined to a limited portion of the brain, causing localized dysfunction, is a(n) \_\_\_\_\_ seizure.

- A) tonic  
B) absence  
C) partial  
D) petit mal

Answer: <https://biology-forums.com/index.php?topic=793843>

### Question 614

Which of the following situations would result in erythropoietin secretion?

- A) CVA  
B) Hypoxia  
C) Alkalemia  
D) Hemophilia

Answer: <https://biology-forums.com/index.php?topic=794189>

### Question 615

A patient with speech impairment following a stroke would have involvement in the \_\_\_\_\_ lobe of the brain.

- A) frontal  
B) parietal  
C) temporal  
D) occipital

Answer: <https://biology-forums.com/index.php?topic=793825>

### Question 616

On an ECG tracing, positive impulses are seen as:

- A) downward deflections.  
B) upward deflections.  
C) ST segment.  
D) J point.

Answer: <https://biology-forums.com/index.php?topic=793771>



### Question 617

Which of the following assessment findings should you most expect in a patient with chronic pancreatitis?

- A) Dark-colored urine
- B) Right lower quadrant pain
- C) Clay-colored stool
- D) Hypotension

Answer: <https://biology-forums.com/index.php?topic=794023>

### Question 618

The pericardial cavity normally holds about \_\_\_\_\_ mL of \_\_\_\_\_.

- A) 30, blood
- B) 1 to 2, serous fluid
- C) 100, blood
- D) 25, straw-colored lubricant

Answer: <https://biology-forums.com/index.php?topic=793750>

### Question 619

Which of the following best explains the underlying problem in diverticulitis?

- A) Infection in an outpouching of the distal colon
- B) Ulceration of the lining of the colon
- C) Increased motility of the colon with increased mucus production
- D) The presence of polyps in the sigmoid colon

Answer: <https://biology-forums.com/index.php?topic=794027>

### Question 620

A patient tells you that she experienced an episode of involuntary "shaking" in her arm. She describes a 1- to 2-minute-long episode of muscular jerking and contracting of her entire left arm. She retained consciousness, lacked an aura, and had no pain associated with the episode. This most indicates a(n) \_\_\_\_\_ seizure.

- A) psychosomatic
- B) simple partial
- C) petit mal
- D) absence

Answer: <https://biology-forums.com/index.php?topic=793820>

### Question 621

HIV uses the host cell to copy itself by:

- A) carrying its genetic material in its RNA.
- B) replicating its genetic material in its DNA.
- C) infiltrating the mitochondria.
- D) glucogenolysis.

Answer: <https://biology-forums.com/index.php?topic=794294>

### Question 622

Which of the following is NOT a common obstructive lung disease encountered in the prehospital setting?

- A) Asthma
- B) CHF
- C) Emphysema
- D) Chronic bronchitis

Answer: <https://biology-forums.com/index.php?topic=793654>

### Question 623

Which of the following diseases is characterized by a progressive degeneration of the nerve cells that control voluntary movement, weakness, loss of motor control, difficulty speaking, and cramping?

- A) Muscular dystrophy
- B) Bell's palsy
- C) Multiple sclerosis
- D) Amyotrophic lateral sclerosis

Answer: <https://biology-forums.com/index.php?topic=793845>

### Question 624

Your patient is a 20-year-old male with a peanut allergy who inadvertently ate some candy containing peanuts. He is complaining of a "lump" in his throat, his voice is hoarse with mild inspiratory stridor, and he appears anxious. You are giving oxygen by nonrebreathing mask and have started an IV. Next, you should:

- A) place the patient in a supine position and prepare for transtracheal ventilation.
- B) administer an induction agent and a paralytic and perform endotracheal intubation.
- C) administer 0.4 mg of 1:1000 epinephrine SQ and 50 mg diphenhydramine IV.
- D) administer 2.5 mg albuterol by nebulizer.

Answer: <https://biology-forums.com/index.php?topic=793604>

### Question 625

Which of the following most accurately describes the rationale for monitoring the cardiac rhythm in the hyperglycemic patient?

- A) The increased viscosity of the blood makes myocardial ischemia very likely.
- B) Polyuria can lead to electrolyte disturbances, resulting in cardiac dysrhythmias.
- C) Hyperglycemia causes ventricular irritability and increases the risk of ventricular fibrillation.
- D) All ALS patients must be monitored.

Answer: <https://biology-forums.com/index.php?topic=793927>

### Question 626

You respond to a patient who is complaining of a sudden onset of a severe headache. The patient has a history of hypertension. You should suspect:

- A) occlusive stroke.
- B) hemorrhagic stroke.
- C) migraine.
- D) hypertensive urgency.

Answer: <https://biology-forums.com/index.php?topic=793879>

### Question 627

Your patient is a 55-year-old male with a history of seizures who is on the floor and experiencing tonic-clonic motor activity. His jaw is clenched, he has peripheral cyanosis, and there are frothy secretions in his airway. HR = 130, RR = 4 and shallow, SaO<sub>2</sub> = 88%. Which of the following is most appropriate?

- A) Suctioning the airway, inserting a nasopharyngeal airway, assisting respirations by bag-valve-mask device with 100 percent oxygen
- B) Immediate nasal intubation and hyperventilation with 100 percent oxygen
- C) An IV of normal saline at a keep open rate, check blood glucose level, administer 3 mg of lorazepam, IV
- D) An IV of normal saline at a keep open rate, check blood glucose level, administer 5 mg of diazepam, IV

Answer: <https://biology-forums.com/index.php?topic=793805>

### Question 628

Which of the following circumstances would result in activation of the coagulation cascade via the intrinsic pathway?

- A) Development of a plaque in a coronary artery resulting in turbulent blood flow
- B) Administration of warfarin
- C) Blunt-force trauma
- D) Penetrating trauma resulting in soft-tissue damage

Answer: <https://biology-forums.com/index.php?topic=794196>

### Question 629

Your patient is a 45-year-old male with a history of bipolar disorder. He is sitting at the kitchen table, conscious, alert, and oriented. He is pleasant and greets you as you walk in. The patient's wife called EMS because he has refused to take his lithium and is "driving her crazy with his hyperactive attitude." She insists that you transport him to the hospital. The patient admits to voluntary noncompliance with his lithium, stating, "I didn't like the way it made me feel." He denies any suicidal thoughts and states that he has not felt "this good for a long time." He is curious about your job and wants to know how he could get into a paramedic class. He states that he's also thinking about going to law school but wants to finish his Ph.D. first. The physical examination is unremarkable. HR = 82, BP = 122/80, RR = 10, SaO<sub>2</sub> = 99%. He says, "See, I told you I'm fine. I don't need to go to the hospital." Which of the following is the best course of action?

- A) Contact medical direction.
- B) Explain to the patient that he has no choice; if he is unwilling to take his medication, you must take him to the hospital for evaluation.
- C) Restrain the patient if necessary and transport.
- D) Request law enforcement assistance for legal detention of the patient for transport to the ED.

Answer: <https://biology-forums.com/index.php?topic=794331>

### Question 630

The two mechanisms capable of producing alterations in mental state are:

- A) structural and toxic-metabolic.
- B) structural and RAAS.
- C) physiologic and RAS.
- D) cranial nervous and the central nervous system.

Answer: <https://biology-forums.com/index.php?topic=793870>

### Question 631

Which of the following best describes the position or bearing of the body?

- A) Stature
- B) Facies
- C) Affect
- D) Posture

Answer: <https://biology-forums.com/index.php?topic=794327>

### Question 632

Signs and symptoms of decreased tissue perfusion secondary to cardiogenic shock include all of the following EXCEPT:

- A) altered mental status.
- B) cold, diaphoretic skin.
- C) constricted pupils.
- D) tachypnea.

Answer: <https://biology-forums.com/index.php?topic=793704>

### Question 633

Sudden death is described as:

- A) any death without a direct known cause.
- B) any death occurring within 1 hour of onset of symptoms.
- C) any death occurring within 3 hours of onset of symptoms.
- D) All death is sudden death.

Answer: <https://biology-forums.com/index.php?topic=793796>

### Question 634

Your patient is a 42-year-old male with a history of alcohol abuse who is in severe distress with dysphagia and hematemesis. You note that he is becoming lethargic and is having trouble keeping his head up. His skin is cool and clammy. HR = 138, BP = 82/56, RR = 8, SaO<sub>2</sub> = 90%. Proper treatment of this patient would include all of the following EXCEPT:

- A) IV of NS with fluid challenge.
- B) aggressive suctioning of the airway and intubation.
- C) dopamine infusion.
- D) placing the patient in shock position.

Answer: <https://biology-forums.com/index.php?topic=793993>

### Question 635

Brain natriuretic peptide (BNP) levels are useful in determining:

- A) CAD.
- B) CVA.
- C) CHF.
- D) COPD.

Answer: <https://biology-forums.com/index.php?topic=793766>

### Question 636

Dehydration is most likely to result in:

- A) thrombocytopenia.
- B) leukocytosis.
- C) increased number of white blood cells and platelets.
- D) increased prothrombin time.

Answer: <https://biology-forums.com/index.php?topic=794182>

### Question 637

Your patient is a 68-year-old male who is conscious but confused and lying on his kitchen floor. The patient offers no complaint other than wishing to be helped up from the floor. The patient can tell you that he "slipped a few days ago" and has been on the floor since. Physical examination reveals

dry, cool skin; dry mucous membranes; clear lung sounds bilaterally; and no indications of trauma. HR = 112, BP = 98/70, RR = 14, SaO<sub>2</sub> = 96%. Your partner finds an appointment card indicating the patient missed a hemodialysis appointment two days ago. Which of the following is the best course for managing this patient?

- A) 1,000 mL fluid bolus
- B) 250 mL fluid bolus
- C) IV of NS at a keep-open rate
- D) Dopamine infusion

Answer: <https://biology-forums.com/index.php?topic=794063>

### Question 638

Which of the following statements about the use of vasopressors in the treatment of anaphylaxis is TRUE?

- A) A norepinephrine infusion can correct the peripheral vasodilation that occurs secondary to SRS-A release by basophils and mast cells.
- B) A norepinephrine infusion encourages a net movement of plasma from the intravascular space to the vascular space, raising blood pressure.
- C) An epinephrine infusion can correct the peripheral vasodilation that occurs secondary to SRS-A release by basophils and mast cells.
- D) A dopamine infusion can correct the peripheral vasodilation that occurs secondary to histamine release by basophils and mast cells.

Answer: <https://biology-forums.com/index.php?topic=793963>

### Question 639

Your patient has a hormone-secreting tumor of the adrenal medulla. What hormone is most likely to be secreted by this tumor?

- A) Cortisol
- B) Dopamine
- C) Epinephrine
- D) ACTH

Answer: <https://biology-forums.com/index.php?topic=793920>

### Question 640

Your patient is a 24-year-old male complaining of a headache for the past two days. He states he has taken aspirin but cannot get rid of the headache. The patient lives in a basement apartment, which you observe is very chilly. The patient states his furnace hasn't been working and he had to use the oven to help heat the apartment. Which other findings and complaints are most likely?

- A) Nausea, vomiting, decreased hemoglobin saturation
- B) Rash, nausea, a metallic taste in the mouth
- C) Pale skin, sluggish pupils, tachycardia
- D) Nausea, vomiting, confusion, tachypnea

Answer: <https://biology-forums.com/index.php?topic=794154>

### Question 641

Which of the following situations would result in a more rapid response by the immune system to an infection?

- A) First-time exposure to an antigen with memory T cell activation
- B) First-time exposure to an antigen with memory B cell activation
- C) First-time exposure to an antigen
- D) Second exposure to an antigen with memory B cell activation

Answer: <https://biology-forums.com/index.php?topic=794190>

### Question 642

The total duration of ventricular depolarization is represented by the \_\_\_\_\_ on the ECG.

- A) QRS duration
- B) QT interval
- C) PQ interval
- D) R-R interval

Answer: <https://biology-forums.com/index.php?topic=793687>

### Question 643

Your patient is a 29-year-old male who is conscious, alert, and extremely hyperactive after using cocaine. HR = 134, BP = 148/102, RR = 20. Physical examination reveals warm, diaphoretic skin and dilated pupils bilaterally. Which of the following medications should be considered to manage this patient?

- A) Metoprolol
- B) Naloxone
- C) Propranolol
- D) Diazepam

Answer: <https://biology-forums.com/index.php?topic=794105>

### Question 644

You respond to an ill patient. Upon your arrival, the patient's caregivers state that the patient has been complaining of lethargy, vomiting, and nuchal rigidity. You suspect:

- A) pertussis.
- B) meningitis.
- C) varicella.
- D) pneumonia.

Answer: <https://biology-forums.com/index.php?topic=794301>

### Question 645

The entire central nervous system is covered by the:

- A) dura mater.
- B) meninges.
- C) peritoneum.
- D) pia mater.

Answer: <https://biology-forums.com/index.php?topic=793866>

### Question 646

Observing the patient for clues of violence should include the patient's:

- A) appearance and clothing.
- B) appearance and financial background.
- C) posture and hand gestures.
- D) ability to answer your questions.

Answer: <https://biology-forums.com/index.php?topic=794357>

### Question 647

Decreasing PaCO<sub>2</sub> will cause:

- A) cerebral vasoconstriction.
- B) cerebral vasodilation.
- C) hyperventilation syndrome.
- D) ataxic respirations.

Answer: <https://biology-forums.com/index.php?topic=793873>

### Question 648

Your male patient complaining of abdominal pain describes his pain as a dull, crampy sensation that is making him nauseous. The patient is most likely describing \_\_\_\_\_ pain.

- A) visceral
- B) referred
- C) somatic
- D) parietal

Answer: <https://biology-forums.com/index.php?topic=793998>

### Question 649

The body will produce antibodies in response to:

- A) pathogens.
- B) antigens.
- C) T cells.
- D) phagocytes.

Answer: <https://biology-forums.com/index.php?topic=794285>

### Question 650

Your patient is a 56-year-old female who is alert and sitting in a chair. She states that she accidentally took too many of her Cardizem tablets. Which of the following signs or symptoms would you least expect to find?

- A) Cool, dry skin and mild hypotension
- B) Warm, dry skin and tachycardia
- C) Cool, diaphoretic skin and profound hypotension
- D) Bradycardia and altered mental status

Answer: <https://biology-forums.com/index.php?topic=794114>

### Question 651

Your patient is a 31-year-old female complaining of dizziness and difficulty breathing after being stung by a bee. You note that she is extremely anxious, and your physical examination reveals a rapidly developing urticaria to her shoulders, neck, and face. Your partner has administered oxygen via a nonrebreather, initiated IV access, placed the patient on the cardiac monitor, and administered epinephrine SC and diphenhydramine IV. Despite this, you also note that her voice is quickly becoming more hoarse and she has developed expiratory wheezes in all lung fields. HR = 128, BP = 100/70, RR = 20, SaO<sub>2</sub> = 99%. What should be your major concern at this point, and what is the most appropriate treatment?

- A) Hypotension leading to cardiovascular collapse; administer fluids wide open and initiate a dopamine infusion
- B) Increased bronchospasm leading to respiratory arrest; administer albuterol via nebulizer
- C) Laryngeal edema leading to total airway occlusion; intubate
- D) Increased bronchospasm leading to respiratory arrest; administer epinephrine IV

Answer: <https://biology-forums.com/index.php?topic=793968>

### Question 652

Your patient is a 62-year-old female who is alert and oriented and sitting at her kitchen table. Her husband describes an episode of slurred speech and facial drooping that lasted about 10 minutes and resolved just before your arrival. Physical examination is unremarkable. She has no significant medical history and takes no medications. HR = 78, BP = 134/78, RR = 12, SaO<sub>2</sub> = 99%. Which of the following is most likely?

- A) Absence seizure
- B) Stroke
- C) Ménière's disease
- D) Transient ischemic attack

Answer: <https://biology-forums.com/index.php?topic=793813>

### Question 653

The two most common causes of fatal anaphylaxis are \_\_\_\_\_ and \_\_\_\_\_.

- A) shellfish, tree nuts
- B) hymenoptera stings, tree nuts
- C) hymenoptera stings, injected penicillin
- D) shellfish, sulfa drugs

Answer: <https://biology-forums.com/index.php?topic=793969>

### Question 654

Which of the following will occur with an increase in peripheral vascular resistance?

- A) Decreased stroke volume
- B) Increased ejection fraction
- C) Increased preload
- D) Decreased afterload

Answer: <https://biology-forums.com/index.php?topic=793680>

### Question 655

Of the following, which is TRUE of the changes in blood chemistry and composition in a patient with chronic renal failure?

- A) Blood glucose decreases.
- B) H<sup>+</sup> excretion leads to alkalosis.
- C) Polycythemia occurs.
- D) Urea and creatinine levels increase.

Answer: <https://biology-forums.com/index.php?topic=794046>

### Question 656

Your patient has a history of epilepsy and is experiencing loss of consciousness, tonic-clonic muscle activity, and erratic ocular movement. Based on this, you might also expect to find all of the following EXCEPT:

- A) pinpoint pupils.
- B) urinary incontinence.
- C) impaired respiration.
- D) increased oral secretions.

Answer: <https://biology-forums.com/index.php?topic=793826>

### Question 657

Measures to treat cardiogenic shock include all of the following EXCEPT:

- A) reducing stroke volume.
- B) increasing the contractile force.

- C) improving preload.
- D) reducing peripheral resistance.

Answer: <https://biology-forums.com/index.php?topic=793699>

### Question 658

The three steps of decontamination are:

- A) reduce absorption, reduce metabolism, increase absorption by the kidney.
- B) water, elimination in urine, atropine.
- C) elimination in urine, water, oxygen.
- D) reduce intake of the toxin, reduce absorption, enhance elimination.

Answer: <https://biology-forums.com/index.php?topic=794163>

### Question 659

The dorsal roots of the spinal cord contain afferent fibers that transmit impulses from \_\_\_\_\_ to \_\_\_\_\_.

- A) the central nervous system, motor nerves
- B) sensory nerves, central nervous system
- C) the central nervous system, sensory nerves
- D) motor nerves, the central nervous system

Answer: <https://biology-forums.com/index.php?topic=793829>

### Question 660

The first phase of the cardiac cycle is:

- A) systole.
- B) diastole.
- C) contraction.
- D) ejection.

Answer: <https://biology-forums.com/index.php?topic=793674>

### Question 661

Which of the following agencies is the primary agency responsible for establishing guidelines and standards to regulate health care worker safety as it relates to communicable disease transmission?

- A) NFPA
- B) CDC
- C) FEMA
- D) OSHA

Answer: <https://biology-forums.com/index.php?topic=794229>

### Question 662

Your ICU patient has ARDS with a pO<sub>2</sub> of 62 mmHg, despite mechanical ventilation and oxygenation. Which of the following best explains this finding?

- A) It is a problem with perfusion.
- B) It is a problem with ventilation.
- C) It is a problem with the blood gas sample collection.
- D) It is a problem with gas diffusion in the lung.

Answer: <https://biology-forums.com/index.php?topic=793592>

### Question 663

Which of the following best describes the relationship between the hypothalamus and the endocrine system?

- A) The hypothalamus produces all of the releasing hormones that act on other endocrine organs.
- B) The hypothalamus is the link between the central nervous system and the endocrine system.
- C) The hypothalamus regulates most endocrine activities via positive feedback mechanisms.
- D) The hypothalamus is also known as the posterior pituitary gland.

Answer: <https://biology-forums.com/index.php?topic=793899>

### Question 664

Behavioral disorders NOT related to substance abuse or medical conditions are known as:

- A) sociocultural disorders.
- B) psychosocial disorders.
- C) nature behavior.
- D) nurture behavior.

Answer: <https://biology-forums.com/index.php?topic=794353>

### Question 665

Which of the following most accurately describes a Valsalva maneuver?

- A) Firmly pressing the carotid artery against the transverse process of the vertebra behind it
- B) Asking the patient to bear down as if to move his bowels with his nose and mouth closed
- C) Digital rectal stimulation
- D) Immersing the face in cold water

Answer: <https://biology-forums.com/index.php?topic=793711>

### Question 666

The third leading cause of death for 15- to 24-year-olds is:

- A) trauma.
- B) drug abuse.
- C) suicide.
- D) accidents.

Answer: <https://biology-forums.com/index.php?topic=794370>

### Question 667

Which of the following has NOT been proven to increase the risk of cardiovascular disease?

- A) Smoking
- B) Age
- C) Hypercholesterolemia
- D) Obesity

Answer: <https://biology-forums.com/index.php?topic=793757>

### Question 668

A patient with no prior history of renal disease is experiencing restlessness, agitation, dysuria, and flank pain radiating into the groin. Appropriate treatment for this patient would consist of all of the following EXCEPT:

- A) IV fluid therapy.
- B) fentanyl.
- C) Lasix IV.
- D) morphine.

Answer: <https://biology-forums.com/index.php?topic=794059>

### Question 669

Which of the following statements about adult respiratory distress syndrome (ARDS) is FALSE?

- A) PEEP is often required to adequately ventilate ARDS patients.
- B) The mortality rate is 20 to 30 percent.
- C) Pulmonary edema and disruption of the alveolar-capillary membrane contribute to respiratory failure in ARDS.
- D) The causes of ARDS include pancreatitis, oxygen toxicity, sepsis, and tumor destruction.

Answer: <https://biology-forums.com/index.php?topic=793615>

### Question 670

Your patient is a 16-year-old female who has taken an overdose of phenobarbital. She is unresponsive. Her skin is cool and pale, BP = 92/60, HR = 60, RR = 6. You have intubated the patient and started an IV. Which of the following is appropriate?

- A) Contact poison control—may order bicarbonate.
- B) Sodium bicarbonate 100 mEq
- C) Naloxone 2 mg, 25 gm dextrose, transport
- D) 50 gm activated charcoal through an NG tube en route to the hospital

Answer: <https://biology-forums.com/index.php?topic=794153>

### Question 671

Stroke volume x heart rate x systemic vascular resistance =

- A) blood pressure.
- B) ejection fraction.
- C) cardiac output.
- D) end-diastolic pressure.

Answer: <https://biology-forums.com/index.php?topic=793734>



### Question 672

You respond to a patient who complains of having dark, tarry stools. Upon arrival, you notice that the patient is pale, cool, and clammy. After initiation of two large-bore IVs, your initial fluid bolus should be:

- A) 10 mL/kg.
- B) 20 mL/kg.
- C) 250 mL.
- D) 1000 mL.

Answer: <https://biology-forums.com/index.php?topic=794042>

### Question 673

Your patient is a 42-year-old male who had surgery four years ago to remove his posterior pituitary gland because of a tumor. He stopped taking replacement hormones because they caused depression. Which of the following is the most likely consequence of the patient's noncompliance with hormone replacement therapy?

- A) Hypoglycemia
- B) Hypertension
- C) Reduced ability to fight infection
- D) Dehydration

Answer: <https://biology-forums.com/index.php?topic=793908>

### Question 674

Your patient is a 20-year-old female who is conscious and alert, though obviously hallucinating after ingesting LSD. Her friends state that she is having a "bad trip," and you note that she is vigorously scratching her arms to the point of drawing blood. Physical examination reveals warm, slightly diaphoretic skin and dilated pupils bilaterally. Which of the following medications should be considered to manage this patient?

- A) Haloperidol
- B) Thiamine
- C) Narcan
- D) Avapro

Answer: <https://biology-forums.com/index.php?topic=794115>

### Question 675

A 38-year-old male is conscious and alert after a black widow spider bite to his right hand. You note pain and swelling to the hand, and the patient states that he is dizzy and nauseous. HR = 117, BP = 128/78, RR = 20. During your physical examination, you note that he begins to experience severe, painful muscle spasms in his right arm. Which of the following is NOT appropriate?

- A) Sodium bicarbonate
- B) Calcium gluconate
- C) Diazepam
- D) Midazolam

Answer: <https://biology-forums.com/index.php?topic=794129>

### Question 676

Which of the following best describes the mechanism of action of activated charcoal?

- A) It absorbs toxins in the stomach.
- B) It neutralizes both acidic and alkaline substances in the stomach.
- C) It adsorbs toxins in the stomach.
- D) It prevents substances from ionizing in the small intestine.

Answer: <https://biology-forums.com/index.php?topic=794136>

### Question 677

Which of the following is affected by a properly working pacemaker?

- A) Automaticity
- B) Stroke volume
- C) Cardiac rhythm
- D) Ejection fraction

Answer: <https://biology-forums.com/index.php?topic=793707>

### Question 678

An example of diffusion in the respiratory system is movement of:

- A) oxygen from the alveoli into the pulmonary capillaries.
- B) air from the outside environment into the lungs.

C) oxygen from the tissues into the systemic capillaries.  
D) carbon dioxide from the alveoli into the pulmonary capillaries.  
Answer: <https://biology-forums.com/index.php?topic=793583>

### Question 679

A 34-year-old female, conscious, alert, and oriented, is complaining of a three-week history of increased appetite, weight loss, weakness, insomnia, and inability to tolerate heat. She has recently been frequently agitated and prone to mood swings. Based on these signs and symptoms, which of the following best describes the additional findings you could expect?  
A) Hyperpigmentation of the skin and hirsutism  
B) Heart block and hypotension  
C) Enlarged tongue and cool, puffy skin  
D) Exophthalmos and goiter  
Answer: <https://biology-forums.com/index.php?topic=793910>

### Question 680

Some of the most immediate effects from ingesting a poison include:  
A) oral burns.  
B) localized skin reaction.  
C) absorption by the lower intestine.  
D) clotting disorders.  
Answer: <https://biology-forums.com/index.php?topic=794160>

### Question 681

You have administered a medication to a patient, resulting in a decreased speed of cardiac impulse conduction. This drug is most accurately described as having a \_\_\_\_\_ effect.  
A) negative dromotropic  
B) negative chronotropic  
C) positive dromotropic  
D) positive chronotropic  
Answer: <https://biology-forums.com/index.php?topic=793684>

### Question 682

Which of the following is a prerenal cause of acute renal failure?  
A) Pyelonephritis  
B) Embolism of the renal vein  
C) Urethral obstruction due to renal calculi  
D) Massive overdose of ibuprofen  
Answer: <https://biology-forums.com/index.php?topic=794081>

### Question 683

A Mallory-Weiss tear is a disorder of the:  
A) stomach.  
B) liver.  
C) rectum.  
D) esophagus.  
Answer: <https://biology-forums.com/index.php?topic=794029>

### Question 684

Ammonia is converted into urea, to be excreted as urine, in which organ?  
A) Kidney  
B) Liver  
C) Spleen  
D) Bladder  
Answer: <https://biology-forums.com/index.php?topic=794083>

### Question 685

In an emergency situation if you administer blood to a patient whose blood type is unknown, you should administer type \_\_\_\_\_ blood.  
A) A positive  
B) O negative  
C) B positive

D) A negative

Answer: <https://biology-forums.com/index.php?topic=794205>

### Question 686

Your patient is a 45-year-old female who became hypertensive after eating some cheese and drinking wine. Which type of medication would most likely account for this reaction?

- A) Phenothiazines
- B) Tricyclic antidepressants
- C) Selective serotonin reuptake inhibitors
- D) Monoamine oxidase inhibitors

Answer: <https://biology-forums.com/index.php?topic=794102>

### Question 687

Your patient is a 26-year-old African-American male who is alert but in severe distress, complaining of pain in his hands and feet, as well as abdominal pain. The pain began this morning but has progressed from an initial rating of 5/10 to a 9/10 at the present time. The patient has a history of sickle cell anemia and denies any trauma. Physical examination reveals cool, diaphoretic skin; pain with palpation to all four abdominal quadrants; splenomegaly; and a priapism. HR = 132, BP = 140/90, RR = 16. Select the most appropriate acute diagnosis and treatment for this patient.

- A) Sickle cell vaso occlusive crisis; administer high-concentration oxygen, IV therapy with isotonic crystalloids, and narcotics for pain control
- B) Sickle cell trait; administer oxygen according to pulse oximetry readings, and give a 500 mL bolus of isotonic crystalloid solution
- C) Sickle cell occlusive crisis; administer oxygen by nonrebreathing mask, isotonic crystalloids, and aspirin
- D) Sickle cell disease; administer oxygen according to pulse oximetry readings, start an IV of normal saline, and administer ketorolac for pain

Answer: <https://biology-forums.com/index.php?topic=794201>

### Question 688

You are transporting a male patient with the complaint of expressive aphasia and right upper extremity paralysis to the hospital. When calling the hospital, which of the following pieces of information is it most critical to convey?

- A) History of hypertension
- B) SaO<sub>2</sub> 94% despite oxygen
- C) Time of symptom onset
- D) Blood pressure 168/82 mmHg

Answer: <https://biology-forums.com/index.php?topic=793851>

### Question 689

Your patient is a 27-year-old female who is distraught and crying after having her children taken by child protective services. Her sister called EMS because the patient threatened to cut her wrists. On your arrival you find that she has not attempted to harm herself and has no weapons within reach. However, she does not wish to speak with you. Which of the following actions is most likely to be effective when communicating with this patient?

- A) Maintain a distance of 3 to 5 feet from the patient.
- B) Sit down so that you are at eye level with the patient.
- C) Tell the patient that you cannot help her unless she talks to you.
- D) Tell the patient that you want to help her, but you can't unless she calms down.

Answer: <https://biology-forums.com/index.php?topic=794313>

### Question 690

A disorder of lung diffusion that results from increased fluid in the interstitial space is known as:

- A) ARDS.
- B) COPD.
- C) AIDS.
- D) PHTN.

Answer: <https://biology-forums.com/index.php?topic=793652>

### Question 691

Which of the following is a potentially life-threatening condition involving the head, neck, face, and upper airway?

- A) Hives
- B) Angioedema
- C) Urticaria
- D) Wheals

Answer: <https://biology-forums.com/index.php?topic=793977>

### Question 692

Which of the following is NOT a modifiable risk factor for type II diabetes?

- A) Lack of exercise
- B) Obesity
- C) Heredity
- D) Poor diet

Answer: <https://biology-forums.com/index.php?topic=793884>

### Question 693

Which of the following is the purpose of lung surfactant?

- A) Destroy and remove foreign material from the alveoli.
- B) Aid in the facilitated diffusion of oxygen across the alveolar membrane.
- C) Decrease the surface tension of water in the alveoli.
- D) Aid in the facilitated diffusion of carbon dioxide and oxygen across the alveolar membrane.

Answer: <https://biology-forums.com/index.php?topic=793625>

### Question 694

A 48-year-old male is sitting upright in bed in respiratory distress. He describes an acute onset of difficulty breathing and chest pain during the night that has been worsening for the past 3 hours. He also complains of nausea. Pain is described as a substernal pressure radiating to his left shoulder. Physical examination reveals cool, diaphoretic skin and rales on auscultation bilaterally. Medical history includes two prior myocardial infarctions. Medications include Zestril and metoprolol. HR = 132, BP = 140/100, RR = 25, SaO<sub>2</sub> = 92%. Which of the following is NOT indicated?

- A) Adenosine
- B) Enalapril
- C) Morphine
- D) Nitroglycerin

Answer: <https://biology-forums.com/index.php?topic=793692>

### Question 695

You have intubated a 66-year-old female who was experiencing an acute exacerbation of her emphysema. What special consideration does this patient, with her specific pathology, require?

- A) She requires hyperventilation to blow off excess CO<sub>2</sub>.
- B) Oxygen flow should be limited to 4 lpm because of the hypoxic drive common in COPD patients.
- C) While ventilating, you must allow for a prolonged expiratory phase.
- D) She requires frequent, deep suctioning.

Answer: <https://biology-forums.com/index.php?topic=793626>

### Question 696

Your patient states that he often experiences a painful cramping and "freezing up" of his hands and feet while handwriting or walking, respectively. This best describes:

- A) torticollis.
- B) dystonia.
- C) palsy.
- D) myoclonus.

Answer: <https://biology-forums.com/index.php?topic=793802>

### Question 697

A 63-year-old male is alert and oriented, complaining of dizziness. He describes an acute onset of dizziness and near-syncope that has lasted for 15 minutes. He is also experiencing substernal chest pain radiating to his jaw, as well as nausea and weakness. Physical examination reveals cool, diaphoretic skin; delayed capillary refill; and mild crackles to the bases bilaterally. He has no significant medical history, but he takes 325 mg of aspirin a day. HR = 220, BP = 88/52, RR = 16, SaO<sub>2</sub> = 92%. Which of the following should be done first?

- A) Start an IV of normal saline
- B) Synchronized cardioversion
- C) Oxygen by nonrebreathing mask
- D) Administer 0.4 mg of nitroglycerin sublingually

Answer: <https://biology-forums.com/index.php?topic=793725>

### Question 698

You are caring for a patient that was TASERed by the police for being physically aggressive. This type of restraint works by what mechanism?

- A) It temporarily stuns the cerebral hemispheres.
- B) It paralyzes the lower extremities.
- C) It renders the patient unconscious.
- D) It disrupts voluntary control of skeletal muscles.

Answer: <https://biology-forums.com/index.php?topic=794349>

### Question 699

Your patient is a 21-year-old male who is alert and oriented, complaining of a rash that started about 36 hours ago, first appearing on his trunk. The rash has now spread to his face and extremities. You notice multiple small, fluid-filled vesicles on the patient's body. The patient is concerned that he will miss work as a second-grade student teacher. He has no medical history, including childhood diseases. The patient is most likely suffering from:

- A) rubella.
- B) Epstein-Barr virus.
- C) herpes simplex.
- D) varicella.

Answer: <https://biology-forums.com/index.php?topic=794258>

### Question 700

The primary goal in the prehospital care of a patient who has been bitten by a pit viper is to:

- A) induce diuresis.
- B) slow absorption of the venom.
- C) alkalize the urine.
- D) remove the venom from the surrounding tissue.

Answer: <https://biology-forums.com/index.php?topic=794130>

### Question 701

What structures may be affected in a urinary tract infection in a female patient?

- A) Vagina, bladder, urethra
- B) Bladder, ureters, vagina
- C) Urethra, bladder, kidney
- D) Kidney, bladder, fallopian tubes

Answer: <https://biology-forums.com/index.php?topic=794044>

### Question 702

Signs and/or symptoms of a dissecting thoracic aneurysm include all of the following EXCEPT:

- A) hypotension.
- B) chest pain.
- C) palpable pulsating mass.
- D) difficulty breathing.

Answer: <https://biology-forums.com/index.php?topic=793730>

### Question 703

Which of the following is NOT a consideration when deciding to withhold resuscitative efforts?

- A) Documentation of the patient's wishes
- B) Patient's age
- C) The nature of injury
- D) Indications of the "down time"

Answer: <https://biology-forums.com/index.php?topic=793753>

### Question 704

The destructive substances released from some bacteria when they die are known as:

- A) endotoxins.
- B) syncytia.
- C) prions.
- D) exotoxins.

Answer: <https://biology-forums.com/index.php?topic=794256>

### Question 705

A 52-year-old male is in moderate distress and complaining of nausea and vomiting. He describes a three-day history of left upper quadrant abdominal pain described as sharp and radiating to his back. You note a slightly distended abdomen. He called EMS today when he developed nausea and vomiting. He denies any change of bowel habits and states he has a history of alcoholism. Of the following, which is the most likely cause of his clinical condition?

- A) Pancreatitis
- B) Hepatitis
- C) Peptic ulcer disease

D) Gastroenteritis

Answer: <https://biology-forums.com/index.php?topic=794014>

### Question 706

The hallmark treatment of ARDS is to:

- A) administer corticosteroids.
- B) treat the underlying condition.
- C) treat the increased fluid with diuretics.
- D) perform renal dialysis to remove the fluid.

Answer: <https://biology-forums.com/index.php?topic=793653>

### Question 707

A decrease in preload results in a(n):

- A) decrease in afterload.
- B) decrease in cardiac output.
- C) increase in stroke volume.
- D) decrease in peripheral vascular resistance.

Answer: <https://biology-forums.com/index.php?topic=793743>

### Question 708

You are called to care for a patient with severe shortness of breath. The patient has an SpO<sub>2</sub> of 88%, audible wheezing, and a capnography reading of 54 with a shark fin wave form. You are administering albuterol for the second time without relief. You suspect:

- A) status epilepticus.
- B) status asthmaticus.
- C) anaphylaxis.
- D) septic shock.

Answer: <https://biology-forums.com/index.php?topic=793659>

### Question 709

Your patient in atrial fibrillation has a heart rate of 108 on the monitor, but her radial pulse is 88. The patient is experiencing:

- A) paradoxical pulse.
- B) pulsus obliterations.
- C) pulse deficit.
- D) pulsus alternans.

Answer: <https://biology-forums.com/index.php?topic=793726>

### Question 710

A patient presents with a history of frequent urination, signs and symptoms of dehydration, and a blood glucose of 958 mg/dL. There is no acetone odor on his breath. To which of the following can the absence of an acetone odor most likely be attributed?

- A) Elimination of ketoacids by the blood buffer system
- B) Elimination of ketoacids through Kussmaul's respirations
- C) The ability to use enough glucose to meet metabolic needs
- D) The ability to convert to the use of amino acids for energy metabolism

Answer: <https://biology-forums.com/index.php?topic=793892>

### Question 711

Your patient is a 27-year-old male who has possibly overdosed on heroin. He is unresponsive and bradypneic. Which of the following is appropriate?

- A) 25 mg diphenhydramine
- B) 2 mg of naloxone
- C) 1 mg of flumazenil
- D) 100 mg of thiamine

Answer: <https://biology-forums.com/index.php?topic=794095>

### Question 712

Which of the following medication combinations is beneficial for a lithium overdose?

- A) Narcan and sodium bicarbonate
- B) Mannitol and sodium bicarbonate
- C) Flumazenil and naloxone
- D) Haloperidol and furosemide

Answer: <https://biology-forums.com/index.php?topic=794101>

### Question 713

Your patient is an alcoholic who stopped drinking three days ago. Which of the following should concern you the most in the care of this patient?

- A) Abdominal cramps
- B) Command hallucinations
- C) Hypothermia
- D) Potential for seizures

Answer: <https://biology-forums.com/index.php?topic=794138>

### Question 714

Pharmacological interventions initiated by prehospital care providers in the treatment of congestive heart failure may include all of the following EXCEPT:

- A) dopamine.
- B) atropine.
- C) furosemide.
- D) nitroglycerin.

Answer: <https://biology-forums.com/index.php?topic=793733>

### Question 715

While palpating the lower abdomen of a 63-year-old male complaining of back pain, you note a pulsating mass. You should:

- A) ask the patient to take a deep breath, then palpate the mass while he exhales.
- B) ask your partner to confirm the finding.
- C) determine if the mass is fixed or freely mobile in the abdomen.
- D) stop palpating.

Answer: <https://biology-forums.com/index.php?topic=793992>

### Question 716

Your patient is a 22-year-old female in mild distress that is complaining of left lower quadrant abdominal pain and nausea. Which of the following questions would be least helpful when determining the etiology of her abdominal pain?

- A) "When did the pain start?"
- B) "How would you describe the pain: dull, sharp, constant, intermittent?"
- C) "Are you having any vomiting or diarrhea?"
- D) "Have you ever had a sexually transmitted disease?"

Answer: <https://biology-forums.com/index.php?topic=793990>

### Question 717

Your patient is a 76-year-old male who is alert and oriented. The patient's neighbor called EMS because of general concern about the patient's health. He states that the patient hasn't been himself since his wife's death six months ago. He hasn't taken care of his usually meticulous lawn and house, and he has lost a lot of weight. The patient says he misses his wife but doesn't need medical care. Which of the following is the best course of action?

- A) Tell the patient you cannot leave him and that if he refuses to go to the hospital, you will have to call the police and have him placed under immediate detention for psychiatric treatment.
- B) Explain to the neighbor that the patient is behaving as expected and the only treatment is time.
- C) Have the patient sign a refusal of service form, but let him know he can call you back if he changes his mind.
- D) Explain to the patient that it is common for people in his situation to feel depressed, and you would like to help him by transporting him to the hospital.

Answer: <https://biology-forums.com/index.php?topic=794332>

### Question 718

Your patient was bitten on the hand by a wild raccoon he tried to capture. Which of the following is the first step in management for this patient?

- A) Irrigate the wound with sterile saline, dry the area around the wound, and apply a thin layer of antibiotic ointment.
- B) Clean the area with a povidone-iodine swab.
- C) Clean the area with an isopropyl alcohol pad.
- D) Wash the wound with soap and running water.

Answer: <https://biology-forums.com/index.php?topic=794243>

### Question 719

Which of the following statements about consent is accurate?

- A) Competent people may not be transported against their will.
- B) People cannot be transported against their will unless there is a court order to do so.
- C) People who are alert and oriented to person, place, and time may not be transported against their will.

D) People cannot be transported against their will unless a first-degree relative (spouse, adult child, parent, or sibling) agrees.

Answer: <https://biology-forums.com/index.php?topic=794320>

### Question 720

Which of the following is most likely to effectively gain the cooperation of a psychologically disturbed patient for physical examinations?

- A) Telling the patient you cannot help him unless you do a thorough physical examination
- B) Standing closer to and using more physical contact with the patient than usual
- C) Asking the patient's permission to examine him
- D) Telling the patient you must examine him

Answer: <https://biology-forums.com/index.php?topic=794317>

### Question 721

A junctional escape beat occurs when:

- A) the AV junction becomes irritable and temporarily overrides the SA node.
- B) there is a conduction block between the SA node and AV node.
- C) there is an accessory pathway that causes reentry of the impulse at the AV node.
- D) the rate of the SA node is slower than that of the AV node.

Answer: <https://biology-forums.com/index.php?topic=793714>

### Question 722

Your patient is a 72-year-old male patient who is conscious but slow to respond to questions and commands. He has become increasingly lethargic, unemotional, and easily fatigued over the past two months. He has had a decreased appetite and has gained weight over the same period. The patient further states, "I'm constipated and always cold." Which of the following additional signs or symptoms would be consistent with this patient presentation?

- A) A "moon-faced" appearance and hyperpigmentation of the skin
- B) A puffy face, an enlarged tongue, and pale, doughy skin
- C) Hypothermia, tachycardia, and hypertension
- D) Goiter, atrial fibrillation, nausea, and vomiting

Answer: <https://biology-forums.com/index.php?topic=793902>

### Question 723

Your patient is a 32-year-old female who is alert but in significant distress, complaining of a migraine. She has a history of migraines, describes a gradual onset of headache this morning, and is now experiencing nausea and intense throbbing pain behind her temples. She is lying on a couch in a dim room and keeps her eyes closed while talking to you in a low voice. HR = 100, BP = 148/100, RR = 12, SaO<sub>2</sub> = 99%. Which of the following is most appropriate in the prehospital management of this patient?

- A) Morphine sulfate, IV in 2 mg increments, up to 10 mg
- B) NTG SL, 0.4 mg, up to 3 tablets or a diastolic blood pressure of 80 mmHg
- C) A calm, quiet environment and dim lights
- D) Lorazepam, 2 mg

Answer: <https://biology-forums.com/index.php?topic=793812>

### Question 724

Vasospasms associated with chest pain are known as:

- A) stable angina.
- B) Prinzmetal's angina.
- C) variant angina.
- D) James' angina.

Answer: <https://biology-forums.com/index.php?topic=793791>

### Question 725

The most important factor in determining the respiratory rate is:

- A) arterial pCO<sub>2</sub>.
- B) arterial pO<sub>2</sub>.
- C) alveolar pCO<sub>2</sub>.
- D) alveolar pO<sub>2</sub>.

Answer: <https://biology-forums.com/index.php?topic=793590>

### Question 726

The valve between the right atrium and right ventricle is the \_\_\_\_\_ valve.

- A) bicuspid



- B) pulmonic
- C) tricuspid
- D) aortic

Answer: <https://biology-forums.com/index.php?topic=793665>

### Question 727

What is the innermost layer of meninges that directly overlies the central nervous system?

- A) Pia mater
- B) Dura mater
- C) Arachnoid membrane
- D) Cerebrospinal membrane

Answer: <https://biology-forums.com/index.php?topic=793862>

### Question 728

Acute exacerbation of Addison's disease can lead to ECG changes and cardiovascular collapse as a result of electrolyte imbalance secondary to:

- A) increased mineralocorticoid secretion from the adrenal glands.
- B) potassium retention and sodium excretion.
- C) fluid retention, potassium excretion, and sodium retention.
- D) decreased mineralocorticoid secretion with increased sodium and potassium excretion.

Answer: <https://biology-forums.com/index.php?topic=793886>

### Question 729

A 67-year-old male is unconscious, is sitting in a chair, and has agonal respirations. His wife states that he was up all night with difficulty breathing and chest discomfort but would not go to the hospital. Physical examination reveals pink, frothy sputum in the airway; cold, diaphoretic skin; and rales audible without a stethoscope. HR = 108, BP = 74 mmHg by palpation, RR = 4, SaO<sub>2</sub> = 82%. The monitor shows sinus tachycardia. Which of the following is the highest priority when treating this patient?

- A) Immediate transport
- B) Determining whether the patient has a Do Not Resuscitate order
- C) Dopamine infusion
- D) Intubation

Answer: <https://biology-forums.com/index.php?topic=793698>

### Question 730

Which of the following is most characteristic of right heart failure?

- A) JVD, peripheral edema, and pulmonary edema
- B) Rales, cough productive of blood-tinged sputum
- C) Ascites, peripheral edema, and cyanosis
- D) JVD, peripheral edema, and liver and spleen engorgement

Answer: <https://biology-forums.com/index.php?topic=793689>

### Question 731

In healthy individuals, which of the following is NOT a function of the kidney?

- A) Excretion of glucose
- B) Secretion of erythropoietin
- C) Excretion of wastes
- D) Regulation of water and electrolyte balance and pH

Answer: <https://biology-forums.com/index.php?topic=794056>

### Question 732

Which of the following statements regarding hemophilia is most accurate?

- A) Hemophilia is a hereditary abnormality of the platelets.
- B) Hemophilia is a hereditary lack of certain proteins needed in the clotting cascade.
- C) Hemophilia is a hereditary disease that causes fibrin clots to dissolve prematurely.
- D) Hemophilia is a hereditary disease in which the body is unable to produce vitamin K.

Answer: <https://biology-forums.com/index.php?topic=794213>

### Question 733

Which of the following is described as the visible indication of mood?

- A) Mental status
- B) Behavior

- C) Affect
- D) Level of consciousness

Answer: <https://biology-forums.com/index.php?topic=794315>

### Question 734

Your patient is a 23-year-old female who is 30 weeks pregnant. She choked on some cheese while eating a piece of pizza. When asked if she can speak, she replies "yes," although with some difficulty. Your next step should be to:

- A) perform a series of abdominal thrusts.
- B) perform a series of chest thrusts.
- C) ask the patient to cough as hard as she can.
- D) attempt to remove the bolus of cheese with Magill forceps.

Answer: <https://biology-forums.com/index.php?topic=793603>

### Question 735

Normal interval time for the QT interval is:

- A) 0.04-0.12 second.
- B) 0.33-0.42 second.
- C) 0.12-0.20 second.
- D) 1.20-2.00 seconds.

Answer: <https://biology-forums.com/index.php?topic=793781>

### Question 736

The cause of esophageal varices can be attributed to:

- A) pulmonary hypertension.
- B) portal hypertension.
- C) pulmonary hypotension.
- D) portal hypotension.

Answer: <https://biology-forums.com/index.php?topic=794043>

### Question 737

A patient with COPD should present with a PO<sub>2</sub> of:

- A) 35-45 mmHg.
- B) 70-80 mmHg.
- C) 50-60 mmHg.
- D) 94-96 mmHg.

Answer: <https://biology-forums.com/index.php?topic=793638>

### Question 738

Which of the following is classified as a helminth?

- A) Trichomonas
- B) Treponema
- C) Spirochete
- D) Fluke

Answer: <https://biology-forums.com/index.php?topic=794260>

### Question 739

Murphy's sign is:

- A) bruising around the umbilicus.
- B) pain produced by pressing under the right costal margin in the presence of an inflamed gallbladder.
- C) pain produced by pushing 1 to 2 inches above the iliac crest on a line to the umbilicus.
- D) petechial hemorrhage of the abdominal wall.

Answer: <https://biology-forums.com/index.php?topic=794008>

### Question 740

Your patient is a 19-year-old female college student complaining of a low-grade fever, extremely sore throat, tenderness of the cervical lymph nodes, and extreme fatigue. Examination reveals warm, moist, flushed skin. Heart rate = 88, respirations = 12, and blood pressure = 118/78. There is tenderness to palpation of the left upper quadrant of the abdomen. Which of the following is most likely?

- A) Bacterial meningitis
- B) Hantavirus pulmonary syndrome
- C) Mononucleosis

D) Fifth disease

Answer: <https://biology-forums.com/index.php?topic=794279>

### Question 741

You are assessing a patient who is presenting with shortness of breath, JVD, and tracheal deviation. You suspect:

- A) flail chest.
- B) tracheal tugging.
- C) subcutaneous emphysema.
- D) tension pneumothorax.

Answer: <https://biology-forums.com/index.php?topic=793649>

### Question 742

You suspect that your patient is having a transfusion reaction. The patient's care plan should include:

- A) dobutamine, diphenhydramine, albuterol.
- B) dopamine, diphenhydramine, IV fluid bolus.
- C) IV fluid.
- D) diphenhydramine alone.

Answer: <https://biology-forums.com/index.php?topic=794224>

### Question 743

In order for hemodialysis to be effective in ridding the body of excess electrolytes, which of the following statements must be TRUE?

- A) The dialysate must contain electrolytes in the same concentration as in the patient's blood.
- B) The dialysate must contain electrolytes in a concentration lower than in the patient's blood.
- C) The dialysate must contain electrolytes in a concentration higher than in the patient's blood.
- D) The dialysate must not contain electrolytes.

Answer: <https://biology-forums.com/index.php?topic=794076>

### Question 744

Behavior disorders related to a patient's socioeconomic status, social habits, skills, and values are said to be:

- A) sociocultural disorders.
- B) psychosocial disorders.
- C) nature behavior.
- D) nurture behavior.

Answer: <https://biology-forums.com/index.php?topic=794354>

### Question 745

A type I diabetic presents with deep, rapid respirations and a fruity odor on her breath. Which of the following would best help correct the underlying physiologic disturbance?

- A) Oxygen
- B) Dextrose
- C) Insulin
- D) Glucagon

Answer: <https://biology-forums.com/index.php?topic=793912>

### Question 746

Your patient is a 34-year-old male who is threatening to kill himself. Which of the following does NOT indicate an increased risk for suicide?

- A) The patient having ingested a substantial amount of alcohol
- B) The patient having a father who committed suicide when the patient was a teenager
- C) A previous nonlethal attempt at suicide
- D) The patient's being married

Answer: <https://biology-forums.com/index.php?topic=794328>

### Question 747

You have administered glucagon to a diabetic patient. Which of the following should occur?

- A) Stimulation of the pancreatic alpha cells, resulting in lipolysis
- B) Stimulation of the pancreatic beta cells, resulting in a decreased blood glucose level
- C) Glycogenesis, resulting in a decreased blood glucose level
- D) Glycogenolysis, resulting in an increased blood glucose level

Answer: <https://biology-forums.com/index.php?topic=793919>

### Question 748

Which of the following characteristics is least associated with emphysema?

- A) Polycythemia
- B) Cor pulmonale
- C) Barrel chest appearance
- D) Productive cough throughout the day

Answer: <https://biology-forums.com/index.php?topic=793606>

### Question 749

An eight-year-old male child is alert and oriented after a brief episode of eyelid fluttering and slight loss of muscle tone, which caused him to slump in his chair. His teacher reports that the child was inattentive for 15 to 20 seconds during the episode but was fine after. This most indicates a(n) \_\_\_\_\_ seizure.

- A) generalized
- B) absence
- C) pseudo
- D) simple partial

Answer: <https://biology-forums.com/index.php?topic=793842>

### Question 750

Stretch receptors in the lungs send a signal to the inspiratory center of the medulla, inhibiting its stimulation of the phrenic and intercostal nerves. This is called the \_\_\_\_\_ reflex.

- A) Cushing's
- B) Hering-Breuer
- C) Moro
- D) Cheyne-Stokes

Answer: <https://biology-forums.com/index.php?topic=793589>

### Question 751

Your patient is a 46-year-old male who is unconscious on his front lawn after being stung by a bee. You note angioneurotic edema. HR = 132, BP = 76/40, RR = 24 and shallow. You should first:

- A) administer high-concentration oxygen with a nonrebreather mask or similar device.
- B) administer epinephrine 1:1000 SC.
- C) start an IV of NS wide open and administer epinephrine 1:10,000 IV.
- D) intubate the patient.

Answer: <https://biology-forums.com/index.php?topic=793956>

### Question 752

A patient with known arteriosclerosis was outside doing lawn work when he started experiencing chest pain. Upon your arrival, the patient states that he has been resting and took a prescribed nitroglycerin tablet 5 minutes ago. The patient states that the pain is subsiding. You suspect:

- A) unstable angina.
- B) stable angina.
- C) Prinzmetal's angina.
- D) myocardial infarction.

Answer: <https://biology-forums.com/index.php?topic=793792>

### Question 753

Your patient is a 68-year-old female who has been in a rehabilitation hospital for one week following hip replacement surgery. According to the staff, the patient is a type II diabetic and is being treated for a postoperative infection. The patient was lethargic yesterday and was found unresponsive this morning, just before your arrival. Physical exam reveals an accumulation of secretions in her airway, lung sounds clear and equal bilaterally, and skin and mucous membranes warm and dry. HR = 119, BP = 86/58, RR = 16, blood glucose = 864 mg/dL. In addition to initiating basic airway management measures and gaining IV access, which of the following is the best treatment for this patient?

- A) Intubate, 1 to 2 L NS bolus, 25 g dextrose IV
- B) Oxygen by nonrebreather mask, NS at a KVO rate, 50 mEq sodium bicarbonate IV
- C) BVM ventilations with supplemental oxygen, NS at a KVO rate
- D) Intubate, 1 to 2 L NS bolus

Answer: <https://biology-forums.com/index.php?topic=793913>

### Question 754

A memory or specific response is considered a(n) \_\_\_\_\_ response.

- A) cell-mediated
- B) inflammatory
- C) humoral
- D) immune

Answer: <https://biology-forums.com/index.php?topic=794250>

### Question 755

A paramedic within your service was treating an IV drug addict when the patient spit at her, hitting her in the eye. At the hospital, when asked for blood, the patient refused to consent for testing. In this case, which of the following is TRUE?

- A) The patient can be placed under detention and be required to give a blood sample.
- B) A judge will issue a court order requiring the patient to allow his blood to be tested.
- C) By law the patient is required to submit blood for testing.
- D) It is within the patient's right to refuse blood testing.

Answer: <https://biology-forums.com/index.php?topic=794230>

### Question 756

Beta-blockers generally have which of the following effects?

- A) Increased cardiac conduction
- B) Decreased myocardial contractility
- C) Vasoconstriction
- D) Increased myocardial contractility

Answer: <https://biology-forums.com/index.php?topic=793677>

### Question 757

Which of the following is the most important determinant of ventilatory rate?

- A) Arterial PO<sub>2</sub>
- B) Venous PCO<sub>2</sub>
- C) Venous PO<sub>2</sub>
- D) Arterial PCO<sub>2</sub>

Answer: <https://biology-forums.com/index.php?topic=793624>

### Question 758

Which of the following pathologies would necessitate the use of increased care in the preparation of an IV site because of skin fragility and increased risk of infection?

- A) Addison's disease
- B) Graves' disease
- C) Cushing's syndrome
- D) Myxedema

Answer: <https://biology-forums.com/index.php?topic=793894>

### Question 759

Restoril and Ativan are examples of:

- A) benzodiazepines.
- B) barbiturates.
- C) opiates.
- D) narcotics.

Answer: <https://biology-forums.com/index.php?topic=794094>

### Question 760

Following exposure to an allergen in which IgE antibodies are released, mast cells degranulate, releasing:

- A) histamine.
- B) epinephrine.
- C) insulin.
- D) T cells.

Answer: <https://biology-forums.com/index.php?topic=793982>

### Question 761

Your patient is a 45-year-old female type I diabetic with a history of a nonhealing foot ulcer. On examination, you find that her pedal pulse is present, but she lacks sensation in her foot. This is most likely due to:

- A) Brown-Séquard syndrome.

- B) Raynaud's disease.
- C) peripheral neuropathy.
- D) claudication.

Answer: <https://biology-forums.com/index.php?topic=793806>

### Question 762

Normal interval time for the PR interval is:

- A) 0.04-0.12 second.
- B) 0.33-0.42 second.
- C) 0.12-0.20 second.
- D) 1.20-2.00 seconds.

Answer: <https://biology-forums.com/index.php?topic=793779>

### Question 763

The single largest killer of Americans each year is:

- A) coronary artery disease.
- B) suicide.
- C) stroke.
- D) congestive heart failure.

Answer: <https://biology-forums.com/index.php?topic=793756>

### Question 764

You respond to an ill patient. Upon arrival, you find out that the patient has just traveled from an area with active Ebola virus disease (EVD). You should initially:

- A) examine the patient like any other.
- B) examine the patient over the phone.
- C) wait for a hazmat tech who is also a paramedic.
- D) assess the patient from at least three feet away.

Answer: <https://biology-forums.com/index.php?topic=794290>

### Question 765

Increased \_\_\_\_\_ does NOT occur due to increased venous return to the heart.

- A) myocardial stretch
- B) afterload
- C) stroke volume
- D) myocardial contraction

Answer: <https://biology-forums.com/index.php?topic=793752>

### Question 766

Which of the following statements about chronic renal failure (CRF) is accurate?

- A) CRF is diagnosed when 70 percent of the nephrons are lost and the patient is clinically unstable.
- B) The only treatment for CRF is a kidney transplant.
- C) CRF is reversible if the cause is found and treated.
- D) Hemodialysis can reverse CRF, but CAPD cannot.

Answer: <https://biology-forums.com/index.php?topic=794073>

### Question 767

Which of the following best describes a state of uneasiness, discomfort, apprehension, or restlessness?

- A) Depression
- B) Paranoia
- C) Anxiety
- D) Mania

Answer: <https://biology-forums.com/index.php?topic=794337>

### Question 768

Your patient is a 52-year-old male complaining of shortness of breath. He is sitting up, alert, and oriented and appears to be in moderate respiratory distress. He states that he "always gets a chest cold in the winter" and describes a three-week history of productive cough and increasing shortness of breath. Physical examination reveals coarse rhonchi to the upper lobes bilaterally, air movement is decreased in the bases, and his skin is cool with peripheral cyanosis. You note that he is overweight and describes an 18-pack-a-year smoking history. Based on these clinical exam findings, the most clinically relevant finding you might also expect is:

- A) pursed-lipped breathing.
- B) JVD, ankle edema, and hepatic congestion.
- C) pulmonary edema and hypotension.
- D) barrel chest and increased anterior/posterior chest diameter.

Answer: <https://biology-forums.com/index.php?topic=793618>

### Question 769

Which of the following statements about herpes simplex type 2 (HSV-2) is FALSE?

- A) There is a low risk of disease transmission via casual contact.
- B) HSV-2 is responsible for 70 to 90 percent of all genital herpes cases.
- C) In addition to painful lesions to the infected area, fever and enlarged lymph nodes can be present during the initial presentation of the infection.
- D) Treatment with acyclovir can eradicate the virus.

Answer: <https://biology-forums.com/index.php?topic=794235>

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