An average range for activated partial thromboplastin time (PTT)	c. 25-35 seconds
is: a. 10-12 seconds b. 17-21 seconds c. 25-35 seconds d. 43-55 seconds	The partial thromboplastin time (PTT) is a laboratory measure of blood coagulation. This value is used to screen patients for invasive procedures. Because of individual laboratory practices, the average range may fluctuate slightly.
Which of the following is the correct angle of insertion for placing a butterfly needle into a vein for intravenous administration of a contrast agent? a. 5 degrees b. 15 degrees c. 45 degrees d. 60 degrees	b. 15 degrees A butterfly needle should be inserted at an angle of 15 degrees for the intravenous administration of contrast material. It is also important that the vein be properly stabilized and that the needle be inserted gently with the bevel facing upward.
A total volume of 125 mL of an iodinated contrast agent is administered intravenously via automatic injector in 50 seconds. The flow rate for this injection is: a. 0.75 mL/sec b. 1.25 mL/sec c. 1.75 mL/sec d. 2.5 mL/sec	d. 2.5mL/sec  The flow rate may be calculated by dividing the total contrast volume by the time of the injection. In this example, the total contrast volume is 125 mL and the time for the injection is 50 seconds. The flow rate programmed for this injection would be 125 • 50, or 2.5 mL per second.
The condition whereby the patient suffers from a low concentration of oxygen in the blood is called: a. hypoxemia b. hypoxension c. hypoxia d. hyponatremia	a. hypoxemia Hypoxemia refers to a condition whereby the patient suffers from a low concentration of oxygen in the blood. Hypoxia describes insufficient oxygenation of tissue at the cellular level. Hypotension refers to the condition of low blood pressure. Hyponatremia describes the condition of low sodium levels in the blood.
White one is obtaining a thorough history from a patient before the intravenous injection of an iodinated contrast material, which of the following topics should be included?  1. any prior allergic reactions to contrast media 2. presence of HIV or hepatitis infection 3. history of asthma a. 1 only b. 1 and 2 only c. 1 and 3 only d. 1, 2, and 3	c. 1 and 3 only  Prior reactions to contrast media and a history of asthma are factors that increase the incidence of adverse reaction to iodinated contrast media. It is therefore vital to question the patient regarding these factors before contrast agent administration. The presence of the human immunodeficiency virus (HIV) or hepatitis does not increase the incidence of adverse reaction to iodinated contrast media. Because universal precautions govern the protection of all patients and health care professionals, there is no need to question the patient regarding these factors.
Which of the following factors may affect a patient's calculated glomerular filtration rate (GFR)?  1. age 2. sex 3. race a. 1 and 2 only b. 2 and 3 only c. 1 and 3 only d. 1, 2, and 3	d. 1, 2, and 3  Glomerular filtration rate (GFR) is calculated using the patient's measured serum creatinine level and takes into account the patient's age, sex, and race.
Which of the following intravenous contrast agent administration methods provides the greatest overall plasma iodine concentration?  a. drip infusion  b. bolus technique c. biphasic technique d. CT portography	b. bolus technique A bolus administration of contrast agent requires the entire volume of material to be injected over the shortest possible time. Accomplished by hand or with the use of an automatic injector, bolus administration provides the maximum plasma iodine concentration and subsequent tissue enhancement.
A patient in shock may exhibit which of the following symptoms?  1. tachycardia  2. rapid, shallow breathing  3. cyanosis  a. 1 only	d. 1, 2, and 3 General signs and symptoms that a patient is going into shock

a. 1 only b. 1 and 2 only

# **Review Questions For Computed Tomography**

Mary Alice Statkiewicz Sherer, Paula J. Visconti, E. Russell Ritenour, Kelli Welch Haynes

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