61. Which of the following statement is TRUE regarding the perioperative management of an elderly patient with a hip fracture:

A. General anesthesia is associated with increased morbidity and mortality compared to regional anesthesia.
B. Extensive workup and optimization is necessary prior to surgery.
C. Early mobilization and delirium prevention are major determinants of hospital length of stay.
D. Prolonged regional anesthesia is associated with increased fall risk and should be avoided.

62. An 81 year-old male is undergoing right total knee arthroplasty under spinal anesthesia. During insertion of cement, the patient’s blood pressure drops from 134/72 to 84/54. What is the most common reason for the observed hypotension?

A. Fat embolus syndrome
B. Venous thromboembolism
C. Absorption of the volatile monomer of methyl methacrylate
D. Sympathectomy secondary to spinal anesthesia

63. During total hip arthroplasty in an otherwise healthy 64 year-old, what is the LEAST RECOMMENDED treatment when hypotension and hypoxemia is noted after cementation?

A. Switch from isoflurane to nitrous oxide
B. Increase fluid administration
C. Increase inspired oxygen concentration
D. Administer ephedrine

64. A 92 year-old male with past medical history of coronary artery disease and diabetes mellitus type II presents for total shoulder arthroplasty. Given his significant co-morbidities and age, you elect to perform a sitting, awake total shoulder arthroplasty under interscalene block. During the case, his vital signs change, and you suspect a Bezold-Jarisch reflex. This is classified as:

A. Hypotension, bradycardia, and syncope
B. Hypotension, tachycardia, and agitation
C. Hypertension, bradycardia, and syncope
D. Hypertension, tachycardia, and agitation

65. An 84-year-old female with a past medical history of CAD, DM type II, history of transient ischemic attack, and GERD presented for a total hip arthroplasty. She elected to proceed with a spinal anesthetic. In the recovery unit postoperatively, she became sluggish and appeared to be in a daze. You suspect hypoactive delirium. Which of the following patient attributes is the strongest predictor of delirium?

A. Age
B. Blood transfusion
C. Presence of a foley catheter
D. History of TIA

66. Which of the following statements about Enhanced Recovery after GI surgery is FALSE?

A. The pre-operative phase includes ‘prehabilitation,’ nutritional supplements, minimizing bowel preparations, and patient education/expectation management.
B. The intra-operative phase includes relative fluid restriction, opioid-sparing analgesia, post-operative nausea and vomiting prophylaxis, and deep vein thrombosis prophylaxis.
C. The post-operative phase includes multimodal analgesia with opioid minimization, deep venous thrombosis prophylaxis, minimization of intravenous fluids, standardized early removal of in-dwelling urinary catheters, early mobilization, and early oral intake.
D. Epidural anesthesia and post-operative analgesic is the standard of care for minimally invasive robotic colon resection.

67. Which of the following statement is TRUE regarding safety and compatibility of catheters in MRI:

A. The safety and compatibility of all catheters in the MRI has been well established.
B. The degree of heating and magnetism of stimulating and wire-reinforced catheters is similar whether the catheter is subject to a 1.5 tesla or a 3 tesla MRI scanner.
C. Arrow epidural catheter made by Teleflex with inner steal coil wire is MRI compatible based on their website.
D. Injury as a result of movement and heating inside the MRI magnet are major clinical concerns.

68. Which of the following statements is TRUE of the use of gastric ultrasound to determine gastric contents:

A. Recently ingested solid tends to look hypoechoic with a “starry night” appearance
B. Performing gastric ultrasound in the sagittal plane and semi-recumbent position is better at estimating gastric volume than in right lateral decubitus position.
C. Gastric volume is estimated using the cross-sectional area of the antrum at rest, and appears to be age-dependent
D. Ingestion of milk results in a gastric antrum that appears round with the fluid content within appearing hypoechoic.

69. Of the following opioids, which will result in the LONGEST duration of action when given neuraxially?

A. Hydromorphone
B. Sufentanil
C. Fentanyl
D. Morphine