

The Ochsner Journal Continuing Medical Education

CME QUESTIONS VOLUME 13, NO. 4

This section provides a review. Mark each statement (circle the correct answer) according to the factual material contained in this issue and the opinions of the authors. A score of 70% per article is required to qualify for CME credit.

The Ochsner Journal Editorial Board has decided to phase out the journal's CME offerings. CME quizzes for credit will be available in all four 2013 issues of the journal, but CME credit will no longer be offered in 2014.

Anesthetic Considerations in Robotic-Assisted Gynecological Surgery: A Review

1. The basic principle behind robotic technology is that the robot
 - a. teleports the surgeon to the operating site and enables operation on the patient from an ergonomic console using 3-dimensional vision and autonomous control of wristed laparoscopic surgical instruments.
 - b. thinks for itself and there is no need for a surgeon, thereby reducing costs.
 - c. tells the surgeon exactly what to do, thereby reducing surgeon error.
2. The surgical requirements that present management challenges with robotic-assisted gynecological surgery include the use of the steep Trendelenburg position and creation of a pneumoperitoneum.
True or False
3. Critical issues for the anesthesiologist during robotic gynecologic procedures include
 - a. steep Trendelenburg position and the physiologic consequences of pneumoperitoneum and patient positioning.
 - b. hypothermia and restricted access to the patient.
 - c. venous gas embolism and subcutaneous emphysema.
 - d. all of the above.

Basic Concepts in Opioid Prescribing and Current Concepts of Opioid-Mediated Effects on Driving

1. Poor metabolizers of cytochrome P450 2D6 (CYP2D6) may not experience successful analgesia with
 - a. codeine.
 - b. dihydrocodeine.
 - c. both codeine and dihydrocodeine.
2. Which of the following is an important fact about acetaminophen?
 - a. Poisoning with acetaminophen is common in the United States.
 - b. Acute liver failure with acetaminophen is often the result of deliberate misuse or attempted suicide.
 - c. Patients with hepatitis or known alcoholism and patients on acetaminophen-containing opiates require extra scrutiny.
 - d. All of the above are important facts about acetaminophen.
3. The 2013 update of the Food and Drug Administration Risk Evaluation and Mitigation Strategy for Long-Acting and Extended-Release Opioid Products includes which of the following?
 - a. A statement that opioids are only indicated for the management of pain severe enough to require daily, around-the-clock, long-term treatment and for which alternative treatment options are inadequate
 - b. A limitation on the amount of oxycontin that can be prescribed to 180 tablets per patient per month
 - c. A limitation on the amount of methadone that can be prescribed to 80 mg per patient per day
 - d. None of the above

Serotonin Syndrome

1. Which of the following is an important fact about serotonin?
 - a. Serotonin can act both peripherally and centrally.
 - b. Peripheral serotonin is produced primarily in the enterochromaffin cells of the gastrointestinal (GI) tract.
 - c. Serotonin functions to stimulate vasoconstriction, uterine contraction, bronchoconstriction, GI motility, and platelet aggregation.
 - d. Serotonin functions to inhibit excitatory neurotransmission and to modulate wakefulness, attention, affective behavior (anxiety and depression), sexual behavior, appetite, thermoregulation, motor tone, migraine, emesis, nociception, and aggression.
 - e. All of the above are important facts about serotonin.
2. Which of the following is the symptomatology of serotonin syndrome?
 - a. Diaphoresis, hyperreflexia, hyperthermia, and hypertension
 - b. Diaphoresis, hyporeflexia, hyperthermia, and hypertension
 - c. Hot/dry skin, hyperreflexia, hyperthermia, and hypertension
 - d. Hot/dry skin, hyporeflexia, hyperthermia, and hypertension
3. Which of the following is a mechanism by which drug interactions can cause serotonin syndrome?
 - a. Inhibition of serotonin reuptake
 - b. Inhibition of serotonin metabolism
 - c. Increased serotonin synthesis
 - d. Increased serotonin release
 - e. All of the above
4. Which of the following is not part of the Hunter Serotonin Toxicity Criteria for the diagnosis of serotonin syndrome?
 - a. Clonus
 - b. Use of a serotonin agent
 - c. Temperature >38° Celsius
 - d. Hypertension
5. Which of the following classes of antidepressants can cause serotonin syndrome?
 - a. Selective serotonin reuptake inhibitors: fluoxetine, paroxetine, sertraline, citalopram
 - b. Serotonin-norepinephrine reuptake inhibitors: venlafaxine, desvenlafaxine, duloxetine
 - c. Tricyclic antidepressants: amitriptyline, nortriptyline, imipramine, desipramine, doxepin
 - d. Serotonin modulators: trazodone, nefazodone
 - e. All of the above
6. What is the proper treatment for serotonin syndrome?
 - a. Discontinue the offending agent and administer olanzapine.
 - b. Discontinue the offending agent and administer cyproheptadine.
 - c. Discontinue the offending agent and administer bromocriptine.
 - d. Discontinue the offending agent.

(Questions continue on opposite side)

The maximum number of credits awarded for this activity is 5 AMA PRA Category 1 credits™.

Multiple Myeloma Relapse Following Autologous Stem Cell Transplant Presenting With Diffuse Pulmonary Nodules

1. For patients who are considered transplant eligible, autologous stem cell transplant is indicated in patients with multiple myeloma.
True or False
2. Patients who undergo autologous stem cell transplant for multiple myeloma are usually cured of their disease.
True or False
3. Although the literature is sparse, patients who undergo allogeneic stem cell transplants for multiple myeloma are more likely to develop extramedullary disease after transplant than patients who undergo autologous stem cell transplant.
True or False

Report of Seizure Following Intraoperative Monitoring of Transcranial Motor Evoked Potentials (MEP)

1. The use of volatile anesthetics decreases seizure threshold.
True or False
2. Tongue and lip laceration is a reported complication of MEP testing.
True or False
3. The presence of predisposing factors for seizure generation should be a contraindication for MEP testing.
True or False

The Ochsner Journal CME Credit Application Form

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VERIFICATION OF ATTENDANCE

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EVALUATION

Your response to these questions helps us to enhance our CME offerings. Please take the time to respond and return the evaluation. Thank you.

Please use the following codes to answer items 1-7.

- SA** – Strongly Agree
- A** – Agree
- U** – Undecided
- D** – Disagree
- SD** – Strongly Disagree

1. The objectives of the CME activity were clearly stated.
SA A U D SD
2. The content of the journal articles was up-to-date.
SA A U D SD
3. The journal articles illustrated independence, objectivity, balance, and scientific rigor.
SA A U D SD
4. The content was closely related to objectives of my clinical practice and/or teaching.
SA A U D SD

5. The journal articles increased my knowledge of the subject.
SA A U D SD
6. The content of the journal articles met my personal expectation and needs.
SA A U D SD
7. I will apply the information learned from these journal articles in my clinical practice.
SA A U D SD

Do you have any suggestions as to how to improve the content of the journal articles?

What topics would you like to see in future journal articles?

Thank you for completing this evaluation and survey.