

MEDICAL LABORATORY OBSERVER



THE ABCS OF PRE-, NEO-, AND POST-NATAL TESTING

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The Cover Story, Clinical Issues, and Lab Management published in this month's *MLO* are peer-reviewed.

Cover story objectives and the CE questions were prepared by Jeanne M. Isabel, MSEd, CLSpH(NCA), MT(ASCP), program director and associate professor, School of Allied Health and Communicative Disorders, Northern Illinois University, DeKalb, IL.

CE QUESTIONS: All articles in the Cover Story section are included in this test, except the product announcement.

- Amniotic fluid tests are typically performed on non-centrifuged specimens.**
 - TRUE
 - FALSE
- The most appropriate replacement test for measurement of lung maturity is**
 - S/A ratio.
 - L/S ratio.
 - lamellar body count.
 - PG.
- The S/A ratio stands for**
 - serum/albumin.
 - surfactant/albumin.
 - serum/alkaline.
 - surfactant/alkaline.
- The reasonable turnaround time for fetal lung-maturity testing results to be reported is less than**
 - one hour.
 - two hours.
 - four hours.
 - 12 hours.
- A late marker of lung maturity is**
 - S/A ratio.
 - L/S ratio.
 - PG.
 - lamellar body count.
- Measurement of hCG is applicable for diagnoses other than pregnancy.**
 - TRUE
 - FALSE
- False-negative hCG results can occur when the urine specimen contains high concentration of**
 - albumin.
 - beta core fragments.
 - creatinine.
 - alpha core fragments.
- The suggested maturity cutoff for the lamellar body count is**
 - 10,000 LBC/ μ L.
 - 25,000 LBC/ μ L.
 - 50,000 LBC/ μ L.
 - 100,000 LBC/ μ L.
- Kernicterus is associated with**
 - lung maturity.
 - hyperbilirubinemia.
 - sickle-cell disease.
 - hyperlipidemia.
- Measurement of mother's milk fat content is done by**
 - cholesterol test.
 - triglyceride test.
 - creamatocrit.
 - HDL cholesterol.
- Removing 10 mL of blood from a newborn can deplete the total blood volume**
 - 1%.
 - 5%.
 - 10%.
 - 20%.
- Multiple blood sampling of newborns causes risk of developing**
 - iron-deficiency anemia.
 - sickle-cell disease.
 - thalassemia.
 - galactosemia.



13. Blood collection from infants is based on milligram weight.
a. TRUE
b. FALSE

14. Calculation of the amount of blood that can be drawn from an infant in a 24-hour period can be found using which CBC parameter?
a. Hgb
b. Hct
c. RBC
d. WBC

15. Non-invasive pre-natal blood tests would be able to detect
a. metabolic disease.
b. hemoglobinopathy.
c. genetic disorder.
d. fatty-acid disorders.

16. According to Piero Rinaldo, MD, 75% of U.S. births are screened with a panel for 29 conditions.
a. TRUE
b. FALSE

17. Future developments of detection of more than 40 conditions from a single test might be implemented with
a. HPLC.
b. MS/MS.
c. PCR.
d. none of the above.

18. It has been suggested that the next generation of newborn conditions might include
a. severe combined immunodeficiency.
b. lysosomal storage disease.
c. hyperbilirubinemia.
d. all of the above.

19. The newborn screening category of fatty acid disorders includes
a. biotinidase.
b. carnitine uptake defect.
c. multiple cargoxyase.
d. agininosuccinate aciduria.

20. Newborn screening for amino-acid disorders includes
a. tyrosinemia type II.
b. galactokinase.
c. malonic acidemia.
d. hemoglobin S.

TEST ANSWER FORM

CE Test on THE ABCS OF PRE-, NEO-, AND POST-NATAL TESTING September 2009

(This form may be photocopied; it is no longer valid for CEUs after March 31, 2011.)

Circles must be filled in, or test will not be graded.

Shade circles like this: ● Not like this: ⊗

P=Poor; E=Excellent

1. To what extent did the article focus on or clarify the objectives?

P ① ② ③ ④ ⑤ E

2. To what extent was the article well-organized and readable?

P ① ② ③ ④ ⑤ E

3. How will you use the CE units?

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