



RESHAPING HEALTHCARE AT THE CLINICAL LABORATORY LEVEL

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This CE test covers all articles in the cover story section. The Cover Story, Clinical Issues, and Lab Management published in this month's *MLO* are peer-reviewed. Cover story objectives/CE test questions were prepared by Jeanne M. Isabel, MSED, MLS, SHCM, program director and associate professor, School of Allied Health and Communicative Disorders, Northern Illinois University, DeKalb, IL.

CE QUESTIONS

- The organization that may benefit from the Medicare Shared Savings Program is ____.**
 - U.S. Department of Health and Human Services
 - State Medicaid
 - ACO
 - OSHA
- Application of LEAN means improved processes and reduction of errors.**
 - TRUE
 - FALSE
- The traditional reticulocyte count indicates ____.**
 - presence of anemia
 - level of erythropoiesis
 - measurement of iron stores
 - hemoglobin production
- The new parameter of RET-He is a direct assessment of ____.**
 - hemoglobin functional ability of iron
 - RBC indices
 - ferritin levels
 - erythropoiesis
- According to DaVita, application of RET-He in the clinical setting is most useful for ____.**
 - hemolytic anemias
 - iron deficiency anemia
 - end-stage renal disease
 - leukemias
- In hemodialysis patients, measurement of RET-He can assess ____.**
 - transport proteins for iron
 - IV iron replacement
 - total serum iron
 - hemoglobin precursors
- Immature platelets may be thought of as "reticulated platelets" because of ____.**
 - elevated nucleic-acid content
 - large size
 - resembling reticulocytes
 - decreased granules
- The hematology instrument parameter IPF refers to ____.**
 - immune platelet function
 - immature platelet fraction
 - imminent plasma fraction
 - immature platelet function
- Application of the IPF is useful for ____.**
 - evaluation of the need for platelet transfusion
 - rate of thrombopoiesis
 - measuring platelet-count recovery
 - all of the above
- The cause of thrombocytopenia is platelet destruction.**
 - TRUE
 - FALSE
- Instruments are able to give percent and absolute counts of immature granulocyte populations such as metamyelocytes, myelocytes, and promyelocytes.**
 - TRUE
 - FALSE
- Immature granulocytes are analyzed by automated instruments by increased fluorescence emission due to ____.**
 - nuclear shape
 - N/C ratio
 - cytoplasmic inclusions
 - higher levels of DNA and RNA

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TEST ANSWER FORM

CE Test on RESHAPING HEALTHCARE AT THE CLINICAL LABORATORY LEVEL

June 2011

(This form may be photocopied; it is no longer valid for CEUs after December 31, 2012.)

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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18. ○ ○ ○ ○

19. ○ ○

20. ○ ○

13. Automated quantitation of the immature granulocyte population is especially useful in patients with _____.

- a. acute infection
- b. inflammation
- c. anemia
- d. both a and b

14. More efficient hematology instrument systems will help address the shortage of qualified medical laboratory scientists.

- a. TRUE
- b. FALSE

15. Laboratories may seek automation to improve standardization of processing.

- a. TRUE
- b. FALSE

16. Autovalidation of hematology results using multivariable rules requires increased operator intervention.

- a. TRUE
- b. FALSE

17. Integrated hospital networks are facing increased costs and labor pressures.

- a. TRUE
- b. FALSE

18. Advances in automated differentials that allow for quantitative immature granulocyte reporting has _____.

- a. increased manual smear reviews
- b. decreased efficiency in the hematology lab
- c. decreased manual smear reviews
- d. prolonged turnaround times

19. The automated immature granulocyte parameter may be found to correlate with positive blood cultures to identify pre-existing infections.

- a. TRUE
- b. FALSE

20. Clinical laboratories depend on instrument manufacturers to make significant technology changes to address the total solution of outcomes and cost.

- a. TRUE
- b. FALSE

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