

RETICULOCYTE AND IRF QUESTIONS

SECTION THREE

1. Which stage of the Heilmeyer Classification of reticulocytes is really a NRBC?
 - a. Stage 0
 - b. Stage 1
 - c. Stage 2
 - d. Stage 3
 - e. Stage 4

2. Immature Reticulocyte Fraction (IRF) is best determined by the following reticulocyte method:
 - a. Manual eyecount method
 - b. Flow cytometric method
 - c. Automated hematology instrument
 - d. Both a and b
 - e. Both b and c
 - f. All of the above
 - g. None of the above

3. The Reticulocyte Maturation Index (RMI) as defined by Davis is the HFR divided by the total number of reticulocytes using flow cytometry.
 - a. True
 - b. False

4. IRF on the Sysmex R-1000 is defined as the MFR + HFR divided by the total number of reticulocytes using light scatter
 - a. True
 - b. False

5. IRF can detect:
 - a. Early response to erythropoietic stimulus
 - b. Lack of response to erythropoietic stimulus
 - c. All of the above
 - d. None of the above

6. IRF reference ranges are not dependent on the instrument being used to determine IRF.
 - a. True
 - b. False

7. Clinical usefulness of the IRF is not dependent on
 - a. Disparity between IRF and the reticulocyte count
 - b. Release of immature reticulocytes from the bone marrow before a change in the reticulocyte count
 - c. Release of immature reticulocytes from the bone marrow after a change in erythroid values
 - d. All of the above
 - e. None of the above

8. In which of the following conditions can IRF be clinically useful:
 - a. Response to correction of deficiency such as iron, B12
 - b. Recovery from bone marrow suppression produced by chemotherapy
 - c. Bone marrow recovery from bone marrow transplantation of the various types
 - d. Monitoring the rise in stem cells to determine optimal time for stem cell collection
 - e. Classification of anemias
 - f. None of the above
 - g. All of the above

9. IRF can rise in recovery from chemotherapy induction before the rise in granulocytes
 - a. True
 - b. False



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