

WBC CORRECTIONS FOR NUCLEATED RED BLOOD CELLS

PRINCIPLE If nucleated Red Blood Cells are present, the White Blood Cell Count has to be corrected because Red Blood Cells cannot be distinguished from leukocytes.

PROCEDURE The number of nucleated Red Blood Cells is obtained from the differential Count. White counts with nucleated RBC's in excess of 5/100 should be routinely corrected.

MANUAL CALCULATION Corrected WBC Count = $\frac{\text{Counted WBC's} \times 100}{100 + \text{Number of Nucleated RBC's/100 WBC}}$

Controlled Documents

The following controlled documents support this procedure.

Reference
1. Koepke, John. Practical Laboratory Hematology. Churchill Livingstone Inc. 1991. p. 24-25, 36-39.
2. Cornbleet J., <i>Spurious results from automated hematology cell counters. Lab Medicine.</i> 1983;8:509-514.
3. Stewart, Charles and Koepke, John. <i>Basic Quality Assurance Practices for Clinical Laboratories</i> , Van Nostrand Reinhold, 1989, p 189.

