

Element HT5 Scattergram Reference Guide

The Element HT5 scattergrams that accompany the CBC provide additional insight into cell identification, quality control, and early detection of pathologic changes. The WBC differential scattergram (DIFF), produced by laser-based cell analysis using flow-cytometric principles, displays individual leukocytes as dots grouped into clusters that represent the major white cell populations. These clusters form characteristic appearances in healthy animals and can shift or distort with many hematologic disorders.

This guide is not a comprehensive atlas, but an introduction to reviewing WBC scattergrams and recognizing common patterns. For each patient, the DIFF should be evaluated alongside the numeric differential and compared with a typical healthy-dog or healthy-cat pattern. Example scattergrams from healthy animals, together with selected pathologic cases, are provided to support this pattern recognition and to complement blood smear evaluation. Below, examples from a healthy dog and healthy cat are included with several examples of pathologic WBC changes to serve as a reference and assist interpretation.

