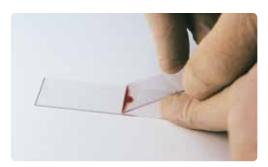


Making a quality blood film

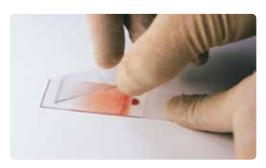
Complement your in-house hematology with a high-quality blood film.



- Place a small drop of fresh, well-mixed anticoagulated blood on a clean glass slide approximately 2 cm from one end of the slide.
- 2. Place a clean glass "spreader" slide in front of the drop of blood at an approximate 30° angle to the blood-film slide.*



- **3.** Back the "spreader" slide into the drop of blood.
- **4.** Let the blood spread along the contact line between the two slides; this should take place quickly.



- 5. With a steady fluid movement, move the spreader slide down the entire blood-film slide, maintaining the angle without lifting the spreader slide. Blood from the drop will follow the spreader slide, placing a thin film on the other slide. The blood film should be 3–4 cm in length.
- 6. Let the blood film air-dry.

†Ensure that the newly prepared blood film is completely dried before staining is performed. If humidity is high, dry the slide with a slow-speed fan without moisture or heat, or simply wave the blood film in the air. Do not blow-dry.

^{*}For specimens with low hematocrits (anemia), increase the angle between the slides to make a thicker blood film. For specimens with high hematocrits (dehydration, polycythemia, etc.), decrease the angle between the slides to make a thinner blood film.

We have the solution to your veterinary hematology needs

In-house hematology

Whether your practice is small, large, or somewhere in between, we've got analyzers with cutting-edge technologies to provide you with the best hematology information available including a five-part differential and an absolute reticulocyte count.

- ProCyte Dx® Hematology Analyzer
- LaserCyte® Dx Hematology Analyzer

Reference laboratory hematology

All complete blood counts (CBCs) performed at IDEXX utilize the most advanced technology available and include a reticulocyte count (canine/feline only), regardless of anemia. IDEXX Reference Laboratories offers a choice of a **Standard CBC** or a **Comprehensive CBC**, allowing you to select the best option depending on your patient's needs.

The **Standard CBC** is a cost-effective option for routine preanesthetic or preventive care screening on clinically healthy patients:

- Automated CBC utilizing laser flow cytometry with optical fluorescence and species-specific algorithms
- Hemogram with reticulocytes, five-part differential, and platelets
- Add-on Smear Evaluation test code available if results indicate the need for additional information

The **Comprehensive CBC** is the recommended option for sick patients and when information on cell morphology is desired:

- Blood smear prepared for you by an experienced technician
- Smear evaluation performed by a technician on every specimen; provides valuable information about red blood cell and white blood cell morphology and blood parasites
- Automatic pathologist review performed when results are markedly abnormal based on established guidelines or if unclassified cells are seen

Learn more about how to make the most of your reference laboratory CBC options at idexx.com/CBC

IDEXX service and support

We're with you every step of the way:

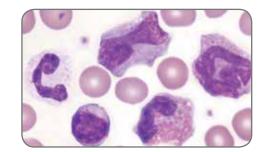
- IDEXX 24/7 customer support
- IDEXX SmartService[™] Solutions secure online service and support
- VetConnect® PLUS uses cloud-based technology that lets you view all your patients' current and past diagnostic results in one place, with all changes automatically captured.
- Field technical support representatives for consultations
- Access to in-depth feedback from board-certified experts
- Educational opportunities for your entire practice at the IDEXX Learning Center

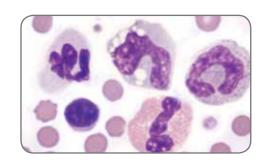
Visit **idexx.com** to learn more.

Blood Cell Guide



Normal canine

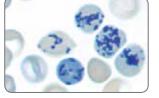


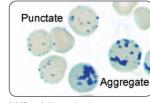


Normal feline

Regenerative response







Mild polychromasia

Marked polychromasia

Rapid stain—polychromasia

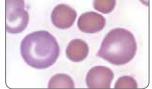
NMB—canine reticulocytes

NMB—feline reticulocytes

Immune-mediated hemolytic anemia (IMHA)



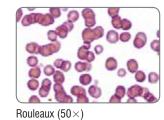
Spherocytes with no polychromasia



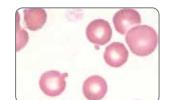
Spherocytes with polychromasia

Ghost cells

Agglutination (50×)



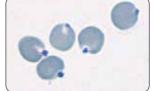
Other poikilocytosis



Canine—two Heinz bodies

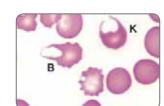


Rapid stain—Feline—3 indistinct (arrows) and 2 obvious Heinz bodies



NMB—Heinz bodies

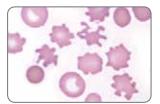
Eccentrocytes*



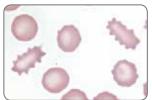
Blister cell and keratocyte

Miscellaneous morphology

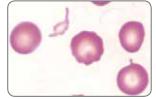




Acanthocytes



Burr cell

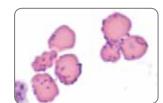


Schistocyte



Basophilic stippling

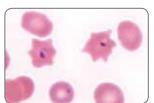
Infectious agents



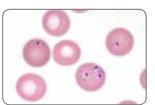
Mycoplasma haemofelis



Mycoplasma haemocanis



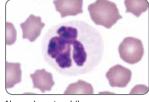
Cytauxzoon felis

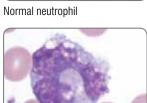


Babesia gibsoni

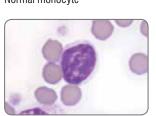


White blood cells





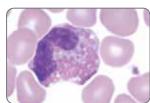
Normal monocyte



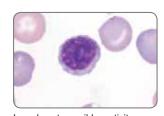
Normal lymphocyte



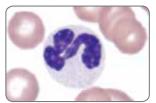
Band neutrophil



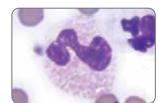
Normal canine eosinophil



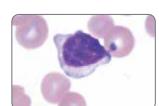
Lymphocyte—mild reactivity



Neutrophil—mild toxicity



Normal feline eosinophil



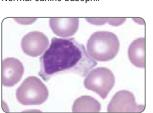
Lymphocyte—moderate reactivity



Neutrophil—moderate toxicity



Normal canine basophil



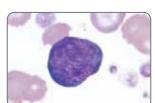
Lymphocyte—moderate reactivity



Neutrophil—marked toxicity*

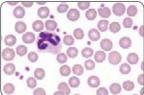


Normal feline basophil

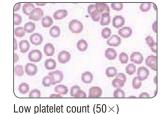


Lymphocyte—marked reactivity

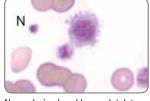
Platelets



Normal platelet count (50×)



Platelet clump (50×)



Normal-sized and large platelets Large atypical platelet

All images, unless otherwise indicated, are representative of a high-power field of view (100× objective field of view).

Images and information provided by: Dennis B. DeNicola, DVM, PhD, DACVP, Rick L. Cowell, DVM, MS, MRCVS, DACVP, and Michelle Frye, MS, DVM

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- Cracking the Code on Characterizing Anemia
- Everyday Emergencies—Hematologic Disorders



Multimedia education

- Evaluate a Blood Film in Less Than 3 Minutes
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