Peripheral Blood

VIBS 443/VIBS 602
Fig. 4-1 Human Blood Smear. Wright’s stain. High magnification.
Fig. 4-4  **Eosinophils.** Wright’s stain. Oil immersion.

Fig. 4-5  **Lymphocytes.** Wright’s stain. Oil immersion.

Fig. 4-6  **Monocytes.** Wright’s stain. Oil immersion.

Fig. 4-7  **Basophils.** Wright’s stain. Oil immersion.
Fig. 4-5  Lymphocytes. Wright's stain. Oil immersion.

Fig. 4-7  Basophils. Wright's stain. Oil immersion.
White blood cells in blood
<table>
<thead>
<tr>
<th>CELL/PLATELET</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERYTHROCYTES</td>
<td>6.5-8 µm</td>
</tr>
<tr>
<td>LEUKOCYTES (WBC)</td>
<td></td>
</tr>
<tr>
<td>% of WBC</td>
<td></td>
</tr>
<tr>
<td>NEUTROPHIL</td>
<td>12-15 µm</td>
</tr>
<tr>
<td>60-70%</td>
<td></td>
</tr>
<tr>
<td>LYMPHOCYTE</td>
<td>6-18 µm</td>
</tr>
<tr>
<td>25%</td>
<td></td>
</tr>
<tr>
<td>MONOCYTE</td>
<td>12-20 µm</td>
</tr>
<tr>
<td>5%</td>
<td></td>
</tr>
<tr>
<td>EOSINOPHIL</td>
<td>12-15 µm</td>
</tr>
<tr>
<td>2-4%</td>
<td></td>
</tr>
<tr>
<td>BASOPHIL</td>
<td>12-15 µm</td>
</tr>
<tr>
<td>0-1%</td>
<td></td>
</tr>
<tr>
<td>PLATELETS</td>
<td>2-4 µm</td>
</tr>
</tbody>
</table>
Peripheral blood smear (Leishman-Giemsa)
Peripheral blood smear (Leishman-Giemsa) basophil, eosinophil, and neutrophils
Peripheral blood smear (Leishman-Giemsa) eosinophil and neutrophil
Peripheral blood smear (May-Grunwald-Giemsa)
Peripheral blood smear (May-Grunwald-Giemsa)
Peripheral blood smear (May-Grunwald-Giemsa)
Bone marrow
EM 12a

marrow
Bone marrow
EM 8a

marrow

blood
Cardiac stomach w/chronic infection
Cardiac stomach w/chronic infection
Lung with bronchi – macrophage
Lung with bronchi
Lung with bronchi
Fig. 4-1  Human Blood Smear. Wright’s stain. High magnification.
Fig. 4-4  Eosinophils. Wright's stain. Oil immersion.

Fig. 4-5  Lymphocytes. Wright's stain. Oil immersion.

Fig. 4-6  Monocytes. Wright's stain. Oil immersion.

Fig. 4-7  Basophils. Wright's stain. Oil immersion.
3 Neutrophils, 1 monocyte, 1 lymphocyte

1. Neutrophil
2. Red blood cell
3. Monocyte
4. Lymphocyte
Neutrophil, lymphocyte, platelets.

1. Platelets
2. Lymphocyte
3. Neutrophil
Peripheral blood smear (Leishman-Giemsa) eosinophil, basophil, and neutrophil
3 Neutrophils, 1 monocyte, 1 lymphocyte, platelet aggregates

1. Red blood cell
2. Neutrophil
3. Monocyte
4. Lymphocyte
5. Platelet
Medium-sized lymphocyte

1. Red blood cell
2. Lymphocyte
2 Eosinophils, 2 neutrophils, 1 monocyte, platelet aggregates.

1. Eosinophil
2. Neutrophil
3. Platelet
4. Monocyte
1 Eosinophil, 1 neutrophil

1. Red blood cell
2. Eosinophil
3. Neutrophil
Monocyte

1. Red blood cell
2. monocyte