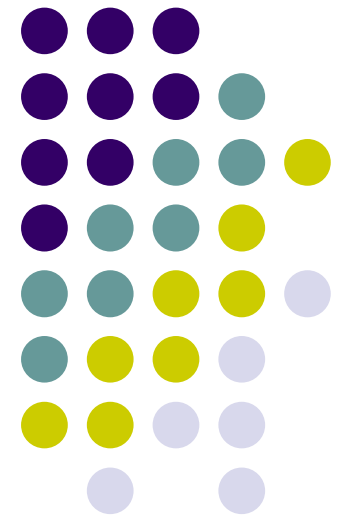
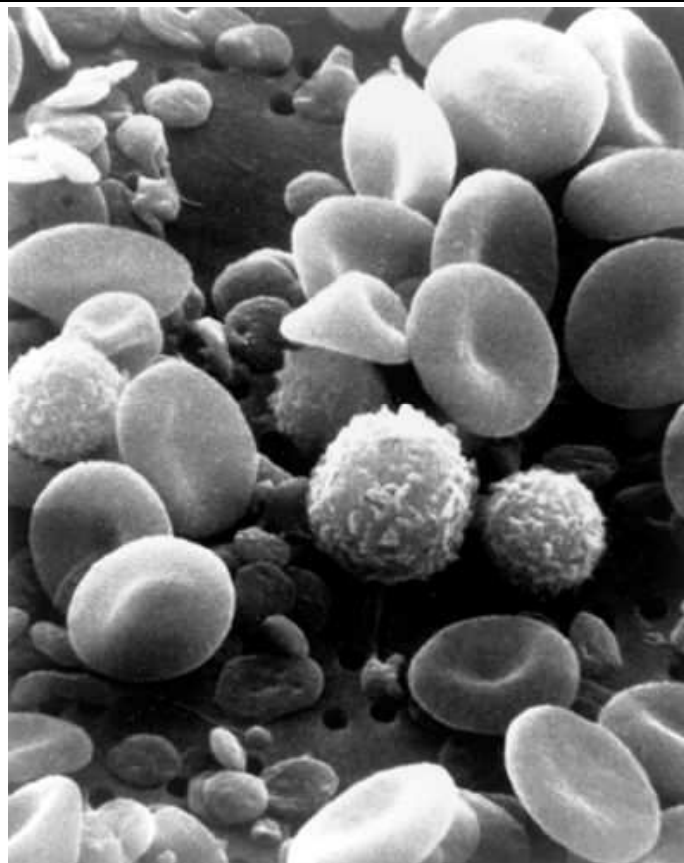
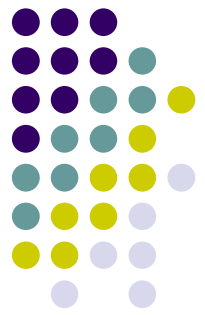


TROFICKÁ POJIVA

krevní diferenciál

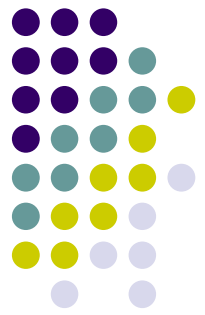




Trofická pojiva

- **krev**
- míza (lymfá)
- tkáňový mok
- mozkomíšní mok
- sinoviální tekutina
- hydrolymfá
- hemolymfá

velký obsah mezibuněčné hmoty a nižší obsah buněk

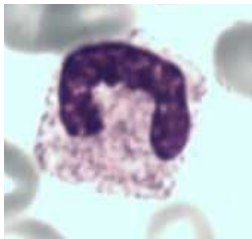


KREV

- erythrocyty
- leukocyty
 - granulocyty
 - neutrofily



buňky (45%)

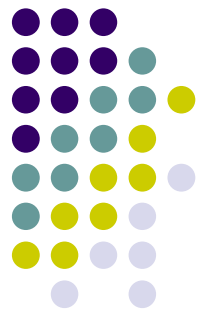


basofily



eosinofily



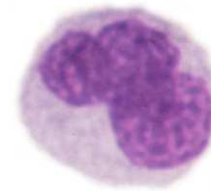


KREV

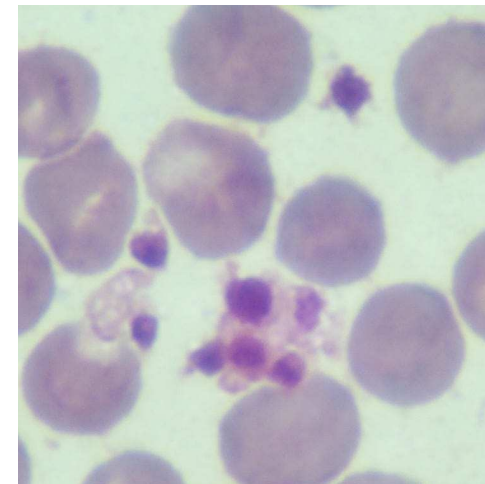
- agranulocyty
 - lymfocyty (T a B)

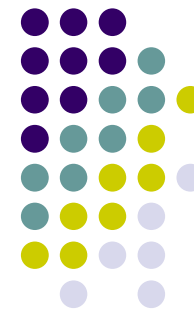


monocyty/makrofágy



- krevní destičky (trombocyty)
- mezibuněčná hmota
 - krevní plazma (55%)

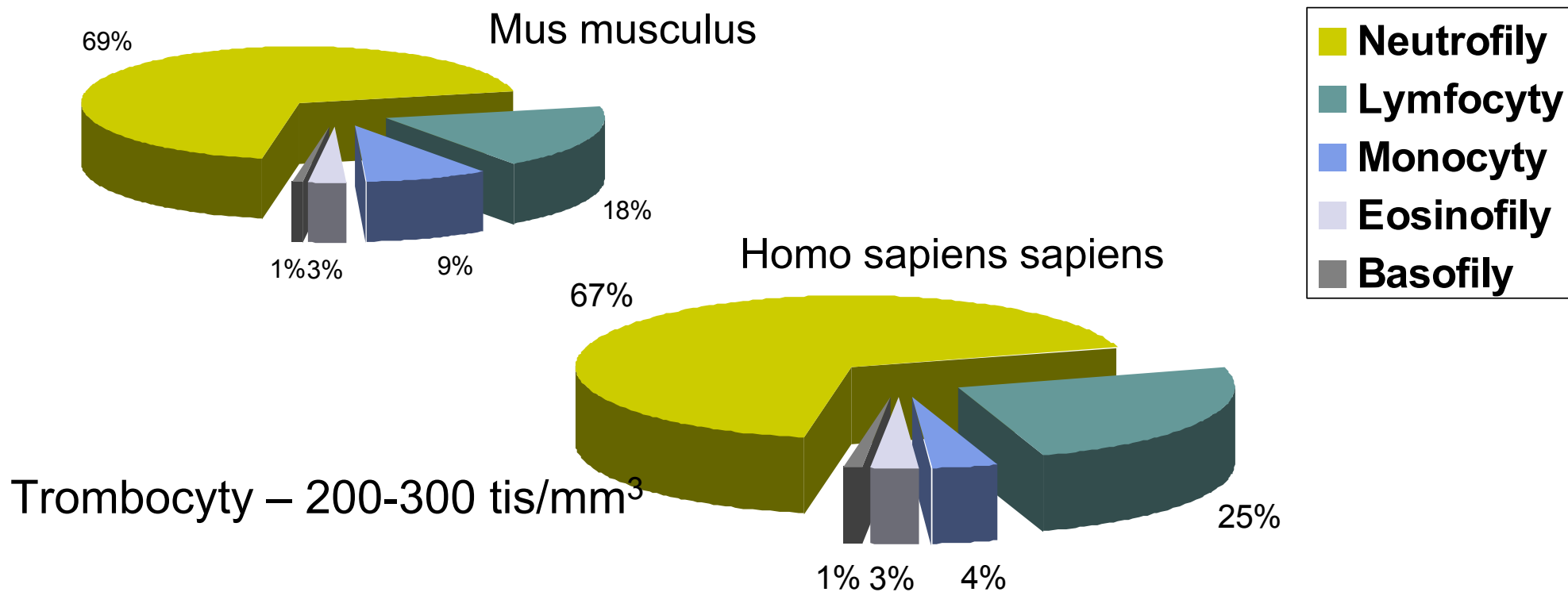


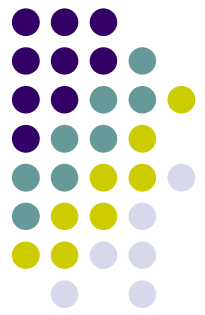


Počet krevních buněk

Erytrocyty – 5-5,5 mil/mm³ (muž), 4,5 mil/mm³ (žena)

Leukocyty – 5-8 tis/mm³





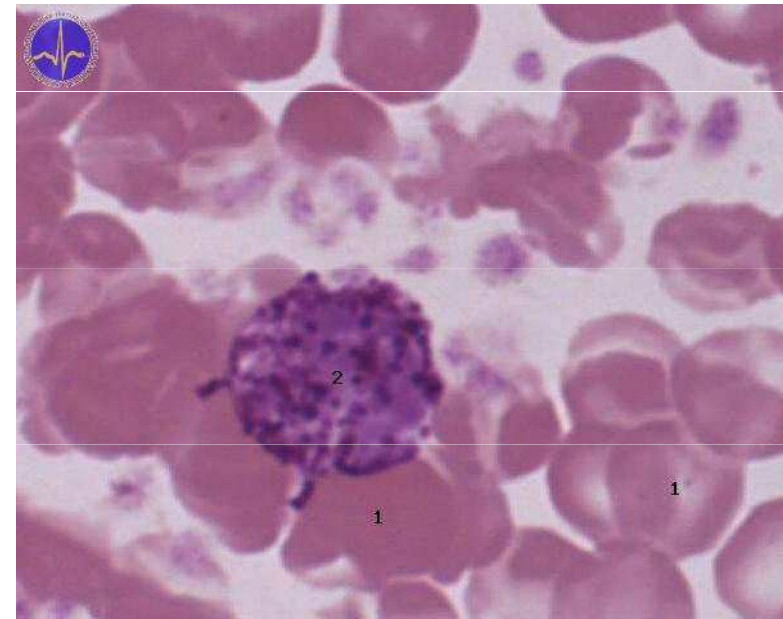
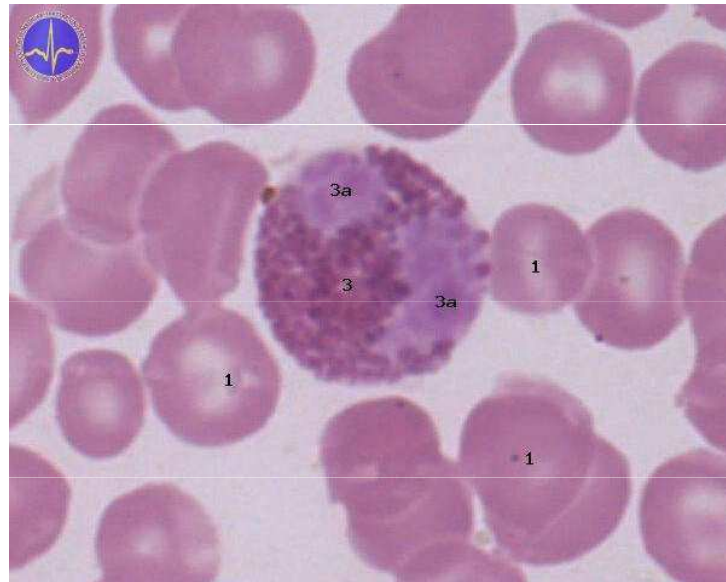
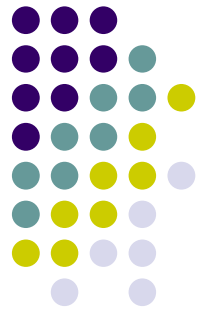
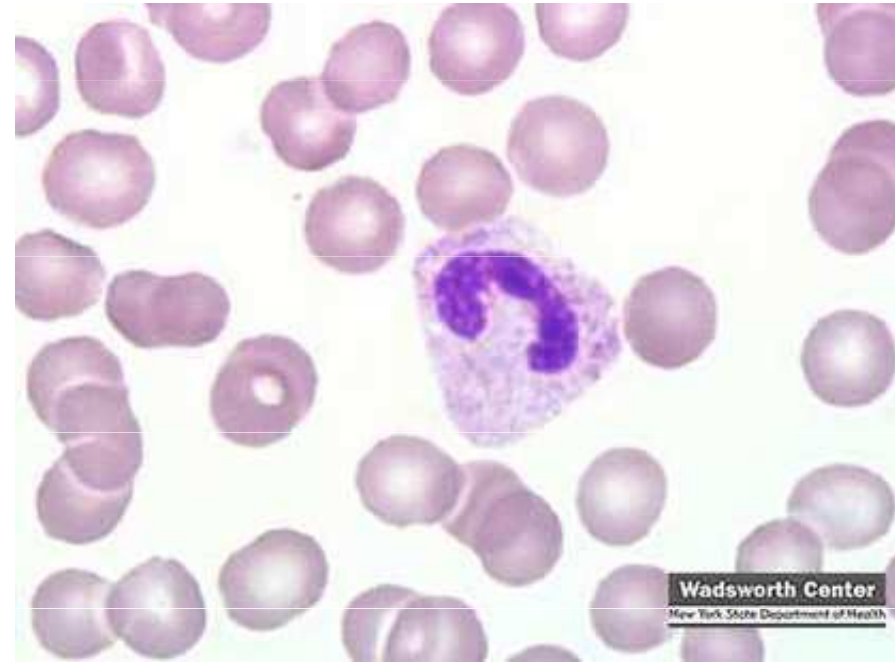
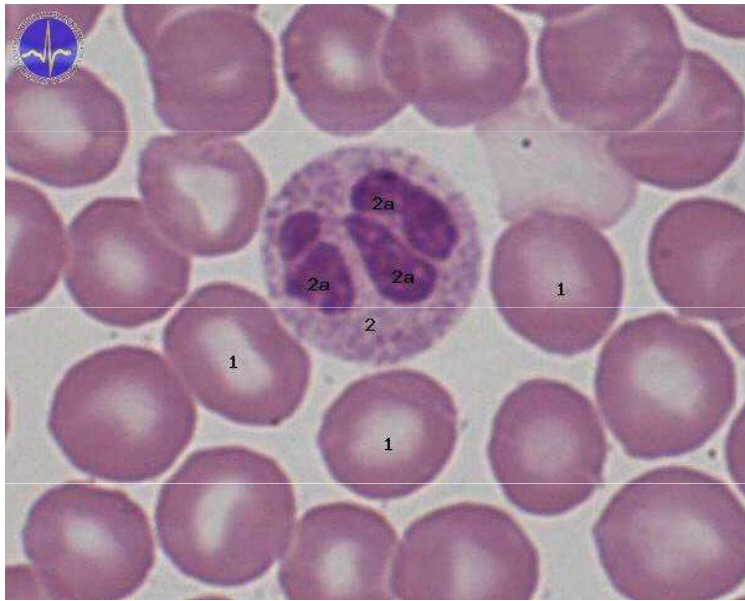
Krevní diferenciál - metodika

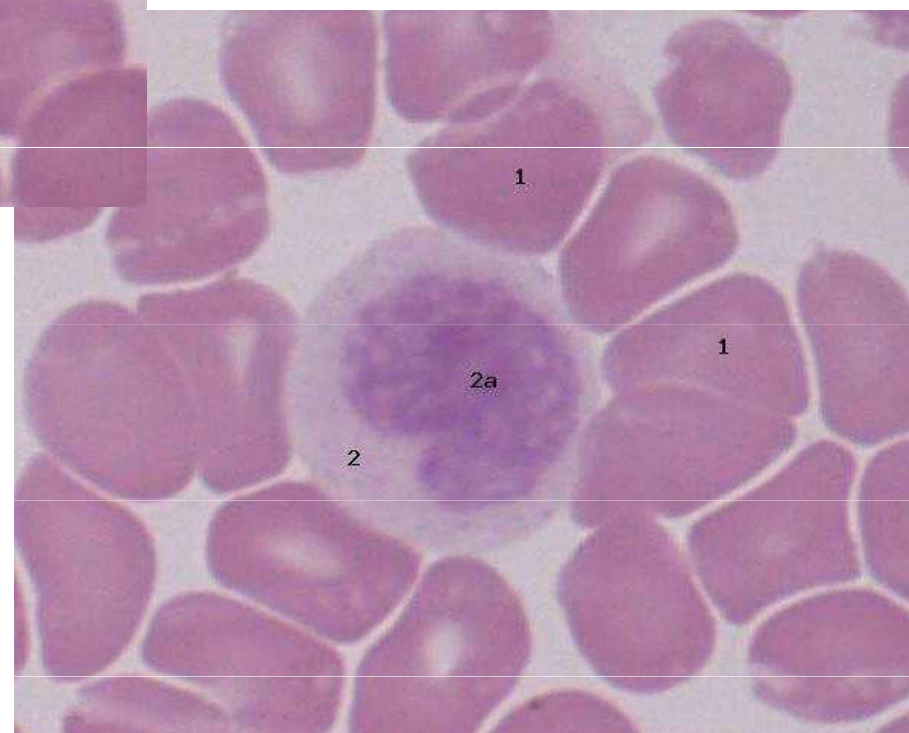
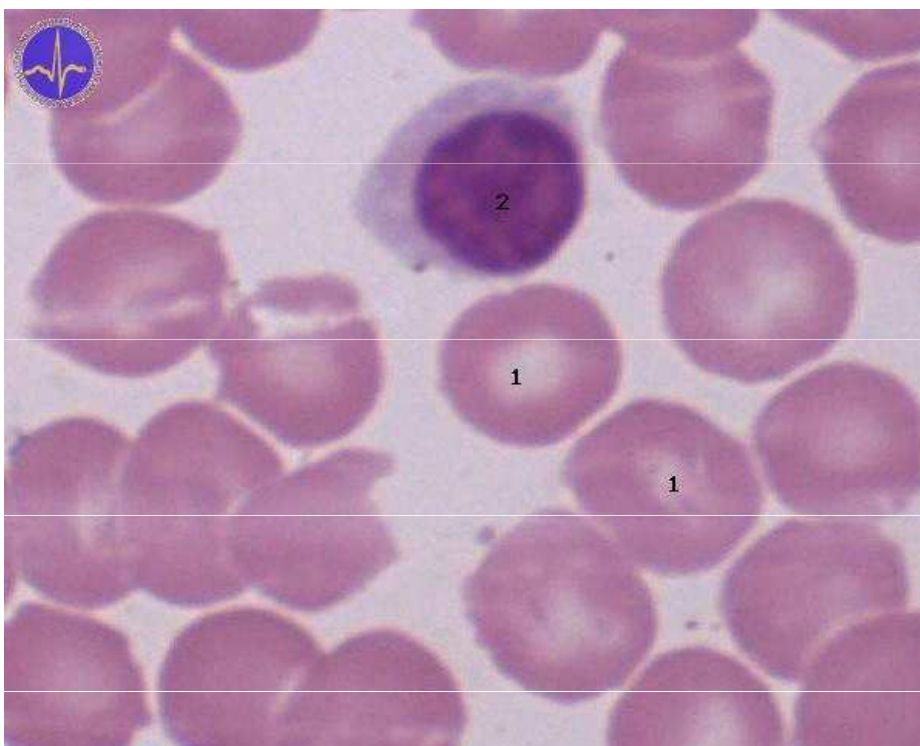
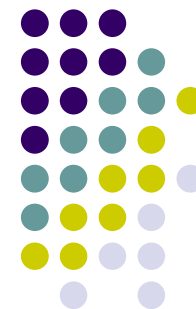
Krevní roztěr

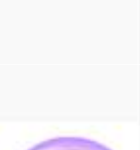
Kit pro stanovení krevního diferenciálu (Lachema)

1. **Fixace (5 x 1s)**
2. **Eosin Y (3 x 1s)**
3. **Azur II (5 x 1s)**
4. **Opláchnutí ve stabilizačním pufr**

Chybné vyhodnocení: tlustý roztěr, třes, sražená krev, mastné sklo





Type	Microscopic Appearance	Diagram	Approx. % in adults ^[6] See also: Blood values	Diameter (μm) ^[6]	Main targets ^[3]	Nucleus ^[3]	Granules ^[3]	Lifetime ^[6]
Neutrophil			54-62% ^[7]	10-12	■ bacteria ■ fungi	multilobed	fine, faintly pink	6 hours-few days (days in spleen and other tissue)
Eosinophil			1-6%	10-12	■ parasites ■ in allergic reactions	bi-lobed	full of pink-orange (when stained)	8-12 days (circulate for 4-5 hours)
Basophil			<1%	12-15	■ in allergic reactions	bi- or tri-lobed	large blue	?
Lymphocyte			25-33%	7-8	■ B cells: various pathogens ■ T cells: ■ CD4+ (helper): extracellular bacteria broken down into peptides presented by MHC class 2 molecule. ■ CD8+ cytotoxic T cells: virus-infected and tumor cells. ■ $\gamma\delta$ T cells: ■ Natural killer cells: virus-infected and tumor cells.	deeply staining, eccentric	NK-cells and Cytotoxic (CD8+) T-cells ^[8]	weeks to years
Monocyte			2-8%	14-17	Monocytes migrate from the bloodstream to other tissues and differentiate into tissue resident macrophages or dendritic cells.	kidney shaped	none	hours-days
Macrophage				21 (human) ^[9] 13 (rat) ^[10]	Phagocytosis (engulfment and digestion) of cellular debris and pathogens , and stimulation of lymphocytes and other immune cells that respond to the pathogen.			activated=days immature=months-years
Dendritic cells					Main function is as an antigen-presenting cell (APC) that activates T lymphocytes.			similar to macrophages