

MUNI MED

BLOOD

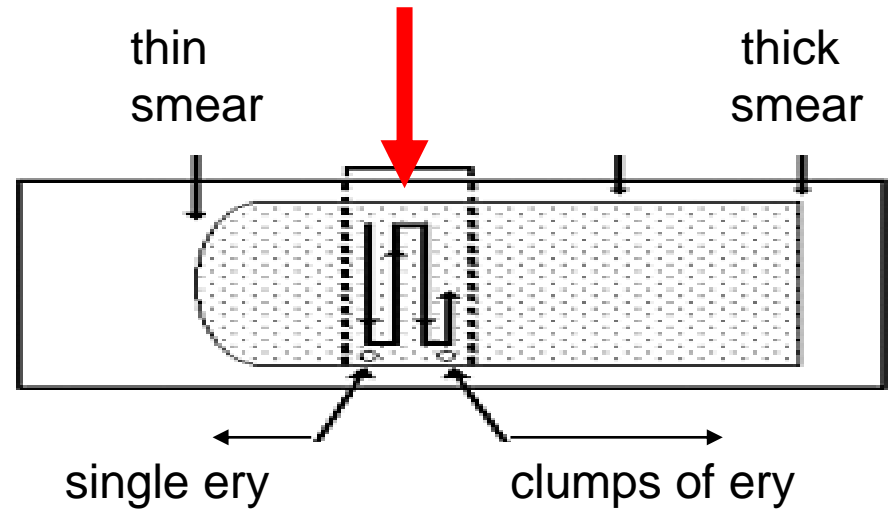
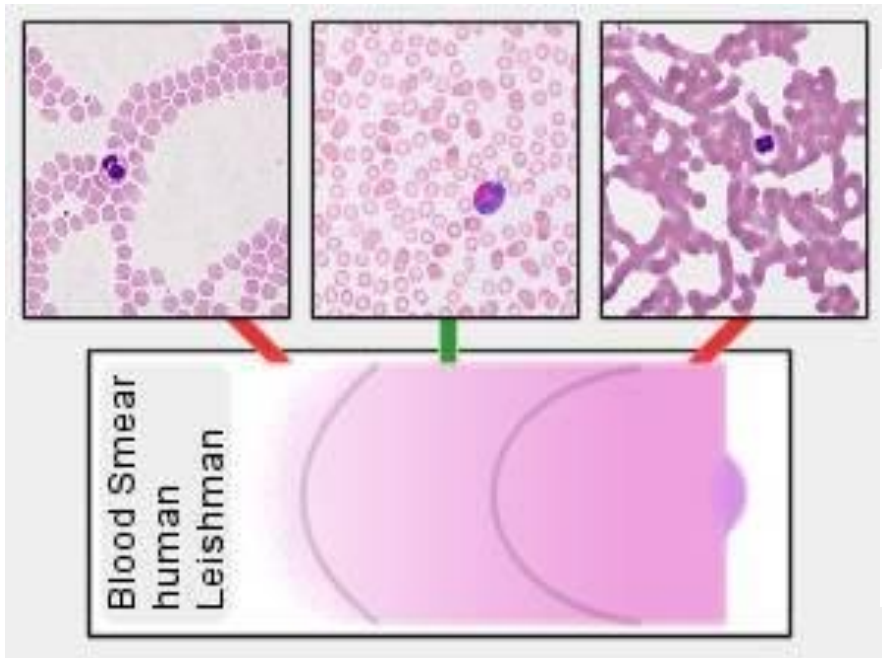
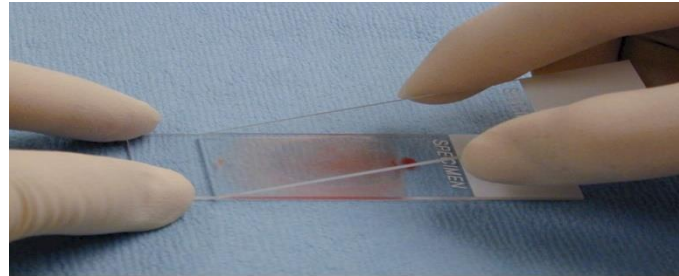
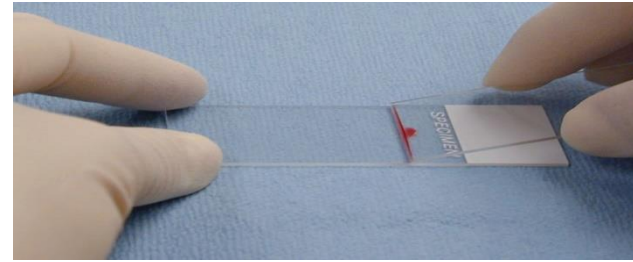
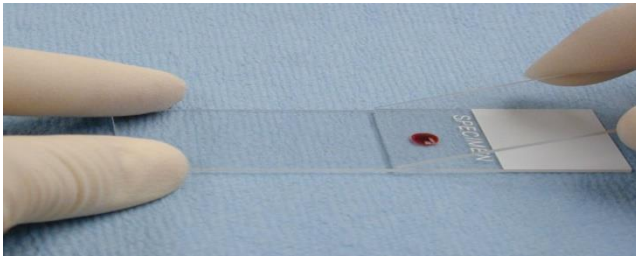
Slide:

Peripheral blood smear, panoptic staining (method of Pappenheim), immersion oil, magnif. 1000x

How to study the blood smear in LM?

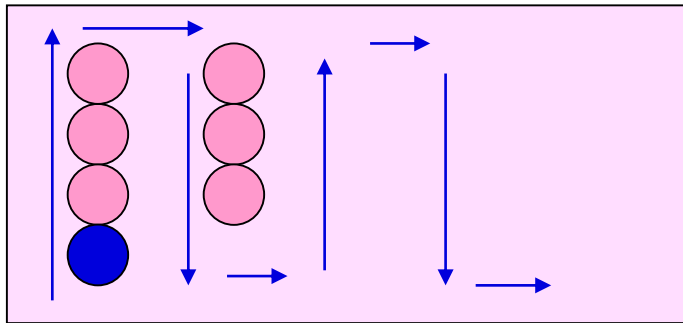
- please, do not manipulate the microscope
- they are prepared for your study of blood smears after presentation
- lens of immersion objective (magnifying 100x) is immersed into drop of immersion oil and blood smear is prepared for study
- **switch on** the microscope and **check the image** in the microscope
- if the image is not sharp, focus it using only the **microscrew**! If it is not possible, contact your teacher.
- look for all types of WBCs (just move the table), draw and label them into the protocols compared to RBC, draw and label blood platelets
- examination of DWCC (after break)

Blood smear - processing



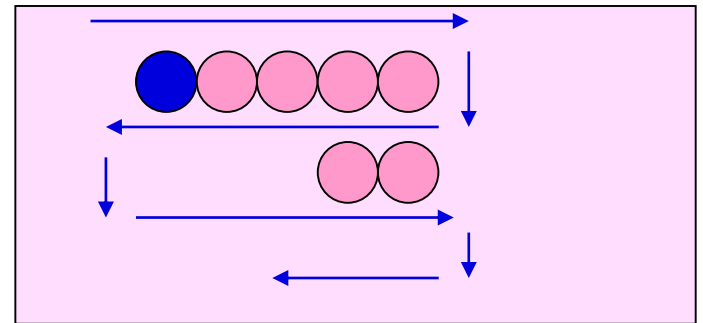
How to „count“ leukocytes in blood smear?

The blood smear have to be systematically viewed (it avoids repeatedly „count“ the same cells).



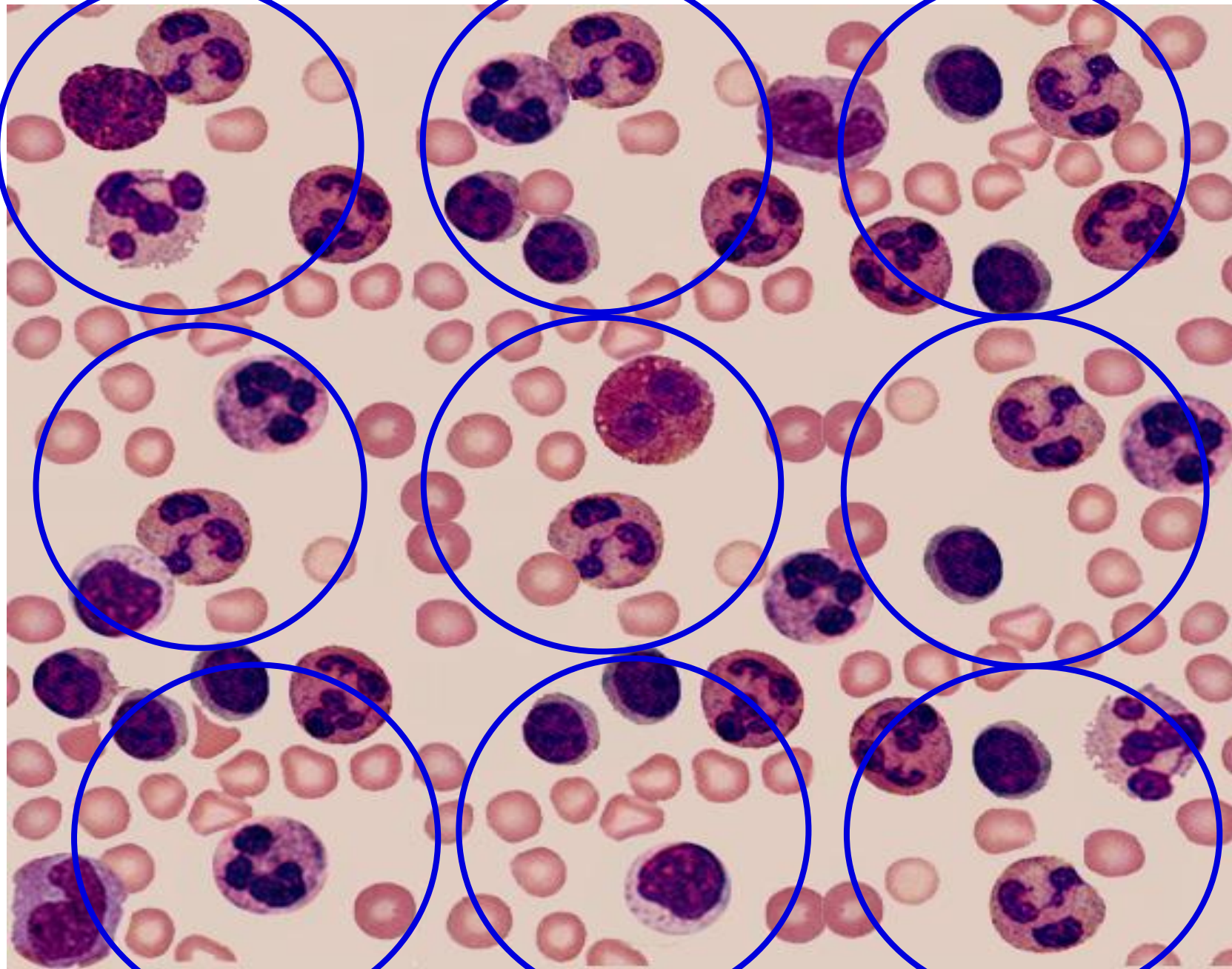
vertical browsing

or



horizontal browsing

start



NI
D

Differential white cell count (DWCC) - table

	1	2
Neu band	/	
Neu segment	### //	///
Eos		/
Baso		
Ly	//	////
Mono		//
	10	10



	9	10	results	norm
Neu band	//			* 4 %
Neu segment	### /	///		*67 %
Eos	/	//		3 %
Baso		/		1 %
Ly	/	###		20 %
Mono				5 %
	10	10	100	100 %

* bands : segments - 4 % : 68 % (1 : 17)
 shift to the left
 shift to the right

Anomalies of DWCC

	↑	↓
Neutrophils	neutrophilic granulocytosis	neutrophilic granulocytopenia
Eosinophils	eosinophilic granulocytosis	eosinophilic granulocytopenia
Basophils	basophilic granulocytosis	basophilic granulocytopenia
Lymphocytes	lymphocytosis	lymphocytopenia
Monocytes	monocytosis	monocytopenia