

BI 358 Lab/Discussion Session 5

:00 I. Attendance. Q?

:10 **II. Quiz 2**

:40 III. Class discussion on key points of articles

:50 IV. White blood cell differential count + blood typing!

To save \$3 permission fees per student per notebook, U of O library links to the following articles were sent to you by way of e-mail:

Beck G, Habicht GS. Immunity and the invertebrates. *Scientific American*, Nov 1996, Nov 275(5), pp 60-65.

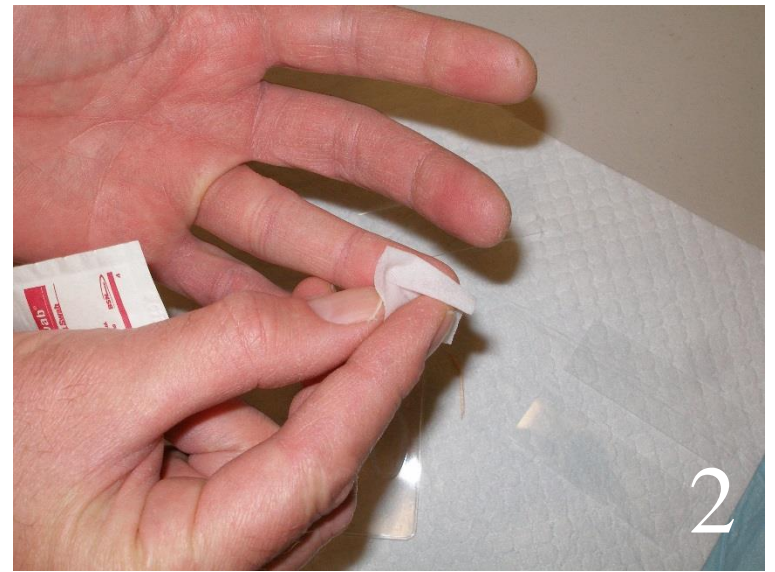
Litman GW, Sharks and the origins of vertebrate immunity. *Scientific American*, Nov 1996, Nov 275(5), pp 66-70.

NB: Next T, Quiz 3 covering immunology & cardiovascular physiology, but 1st heart model anatomy review & heart dissections with time to study for Quiz.

Preparation



Wash + dry



Alcohol



Air dry + kim wipe?

Sample + Tests

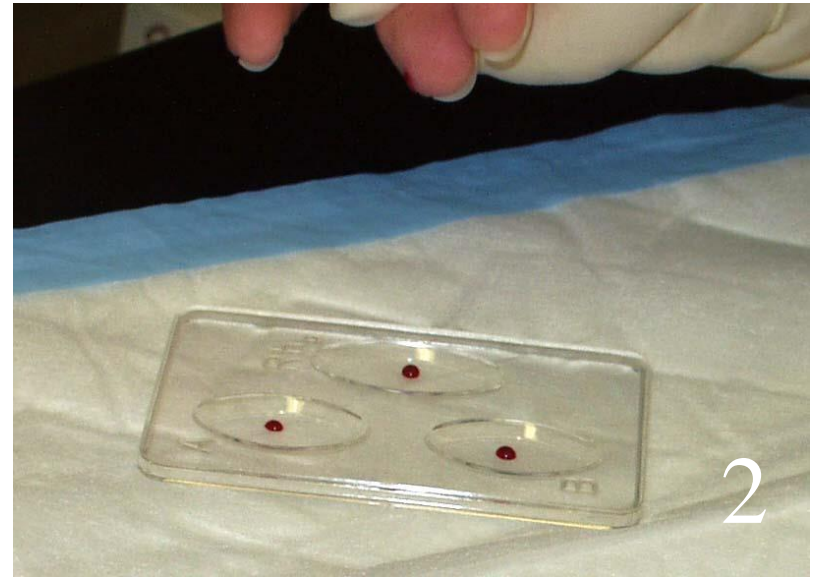
Obtain μ Sample



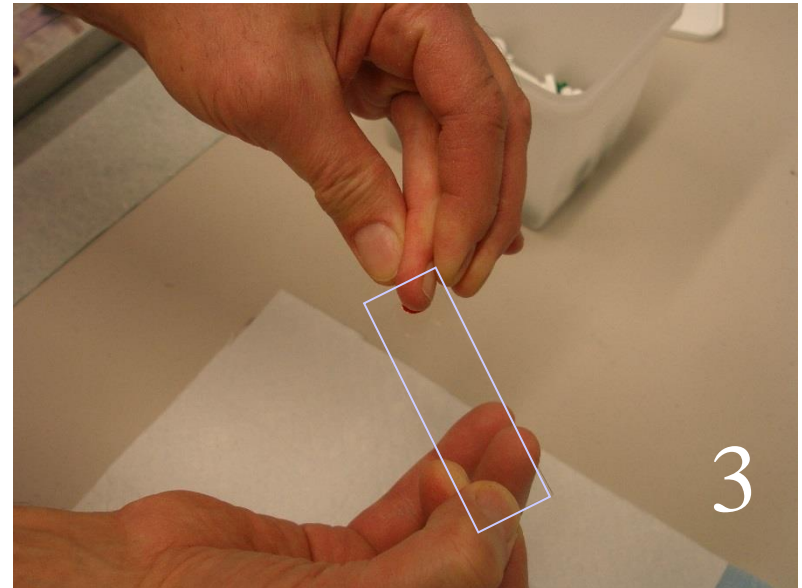
or...



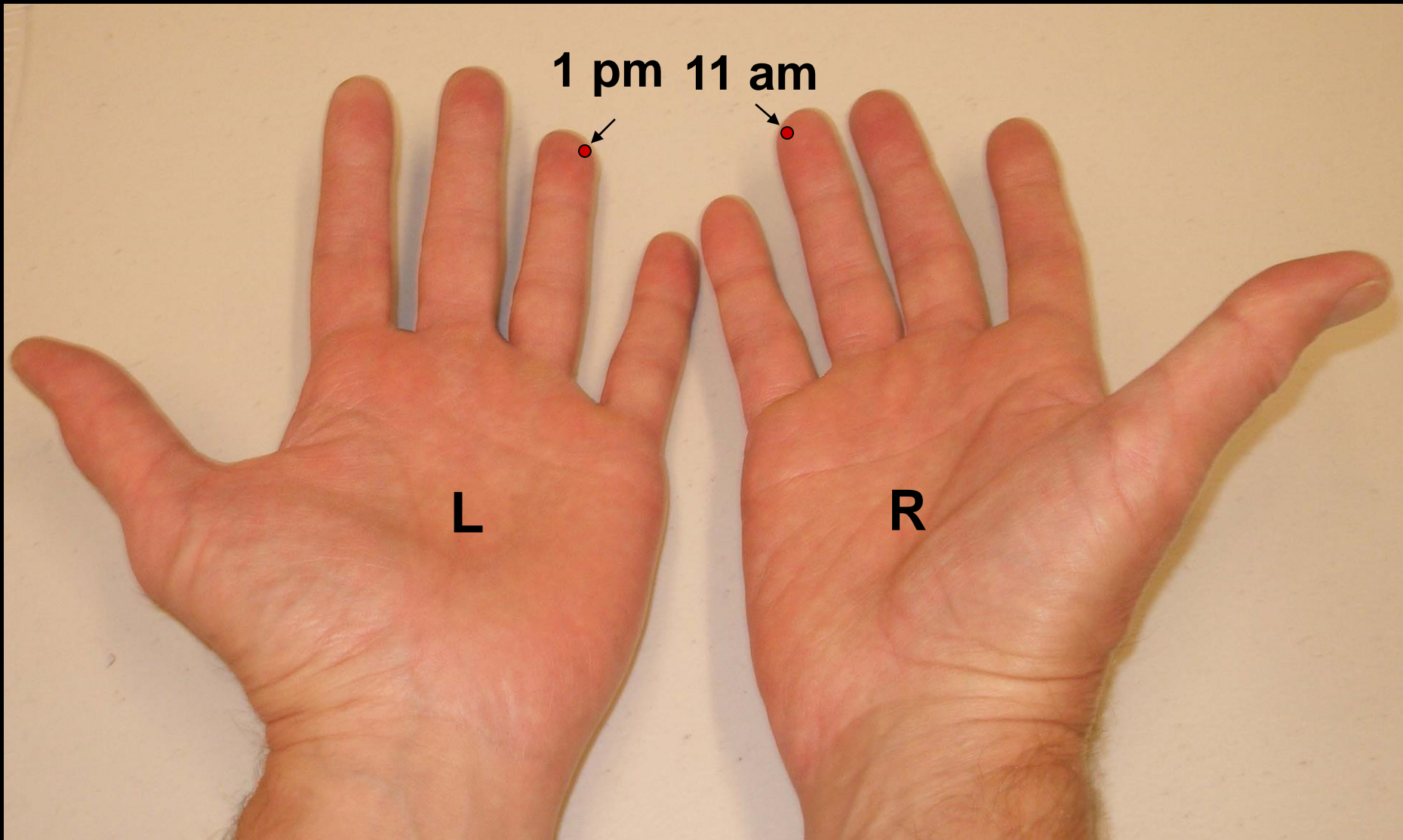
Blood Typing



WBC Differential

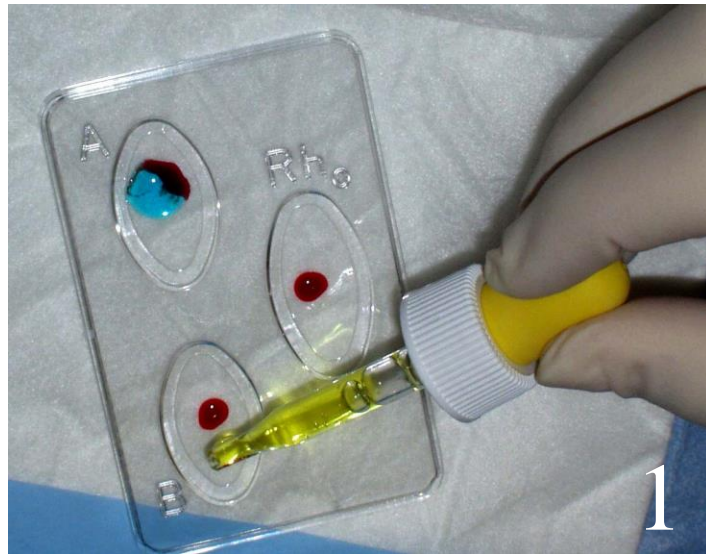


Autolet Device on non-dominant L or R hand

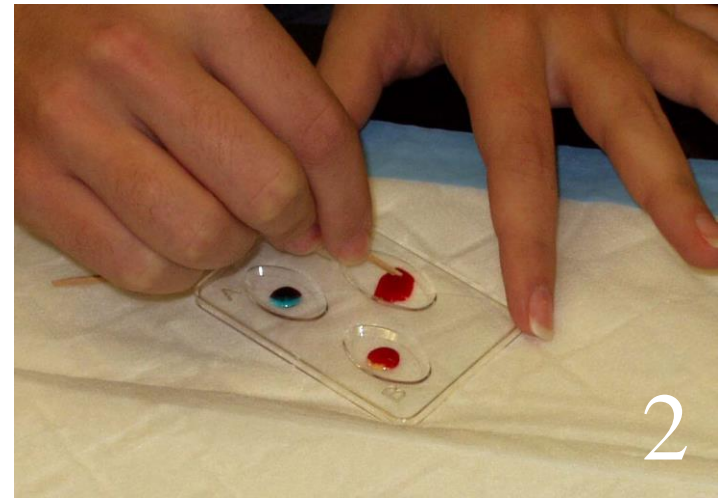


Depress the flesh!

Blood Typing



Add Antisera



Mix with Toothpicks



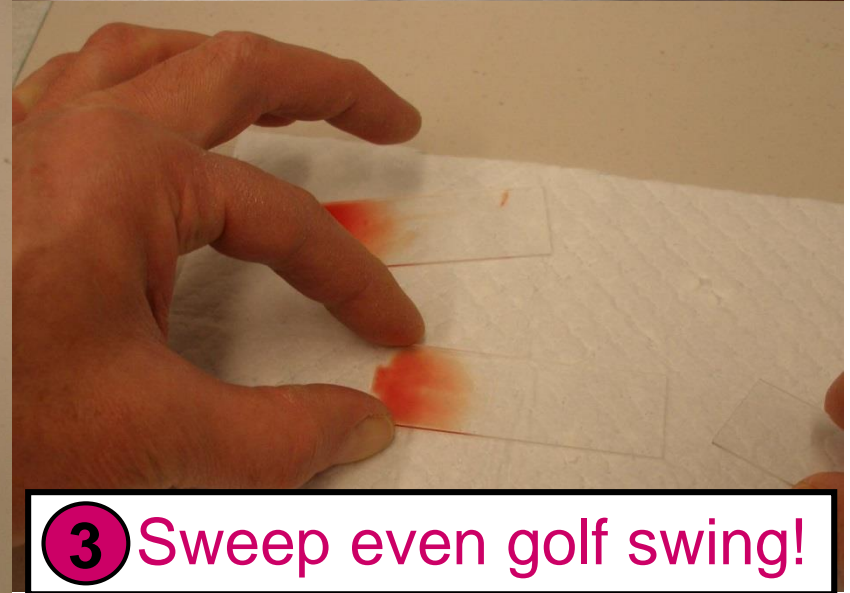
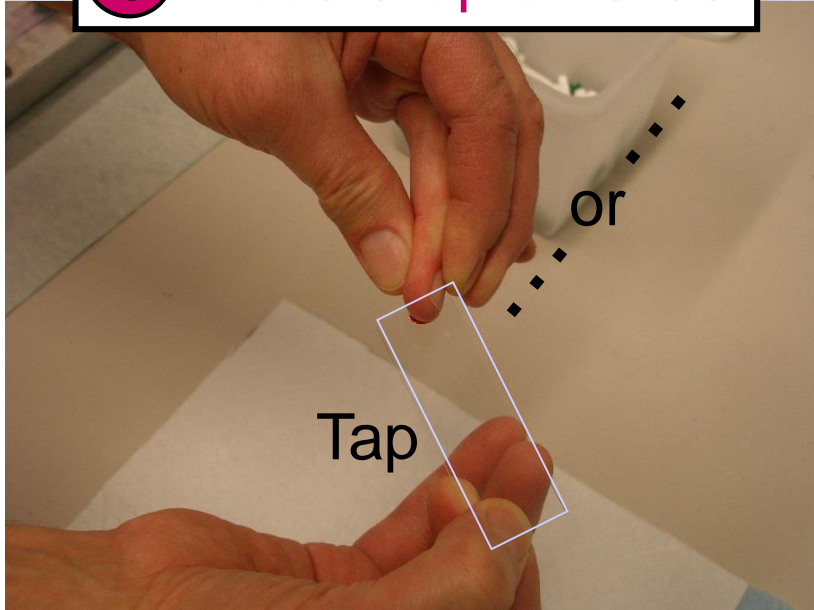
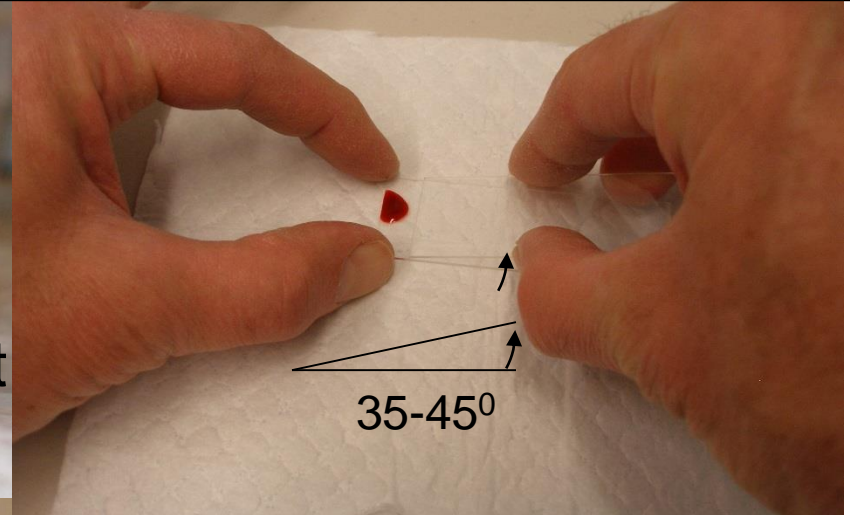
Read + Record

White Blood Cell Differential



1 Blood drop on slide

2 Clean slide edge into blood



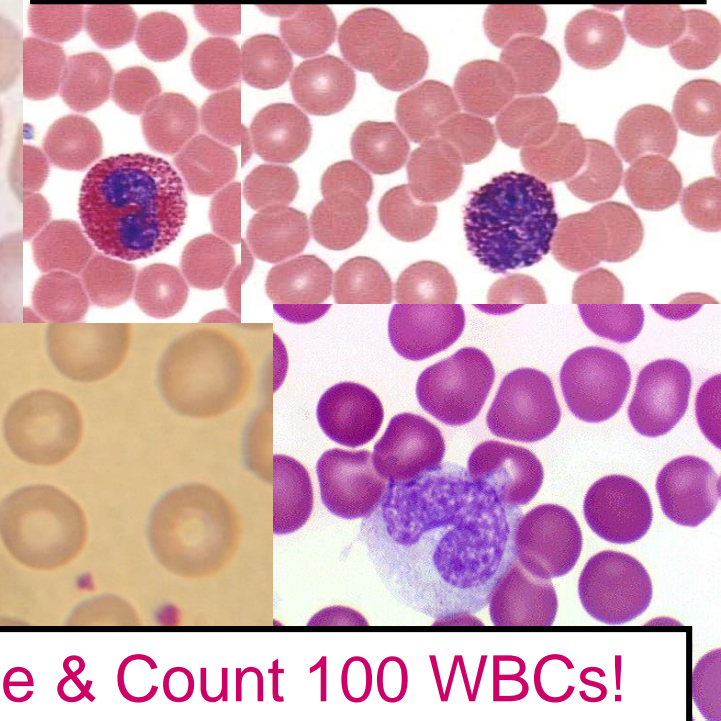
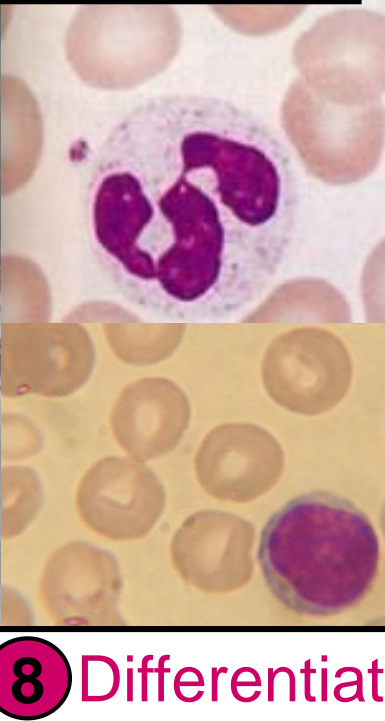
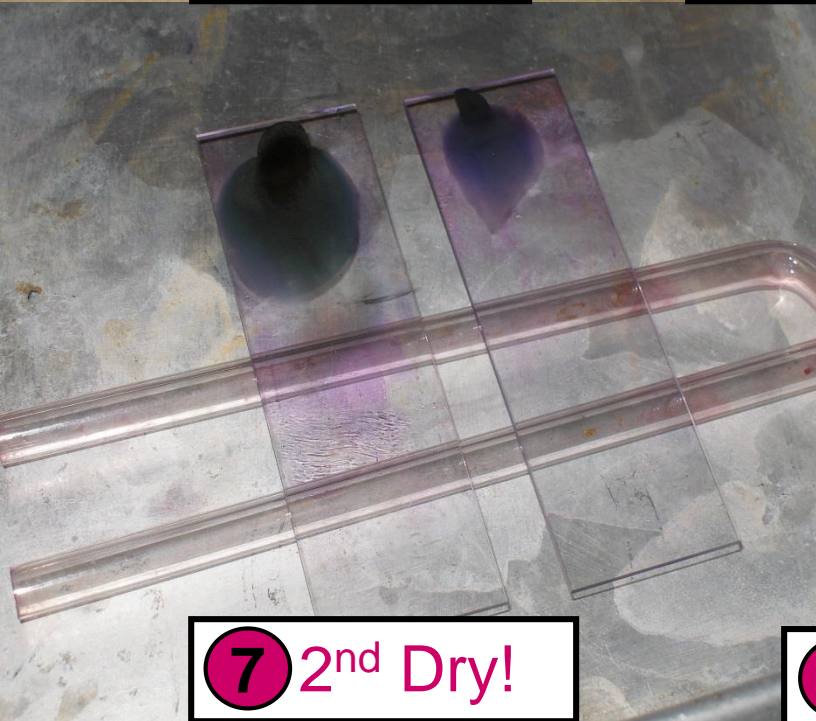
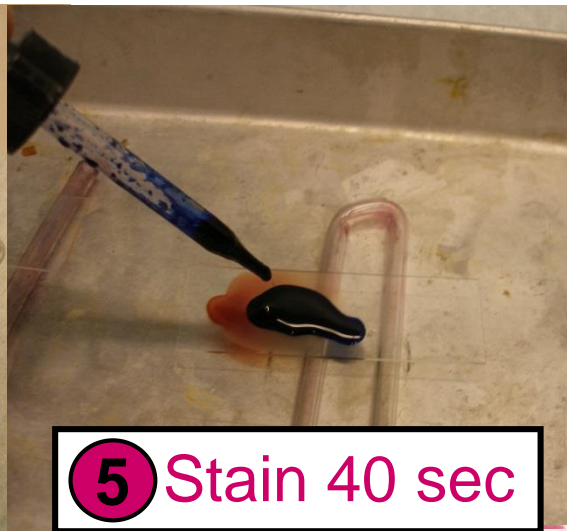
3 Sweep even golf swing!

Outer Edge Halo Effect – One Cell Layer Thick!



Similar to a Feather!

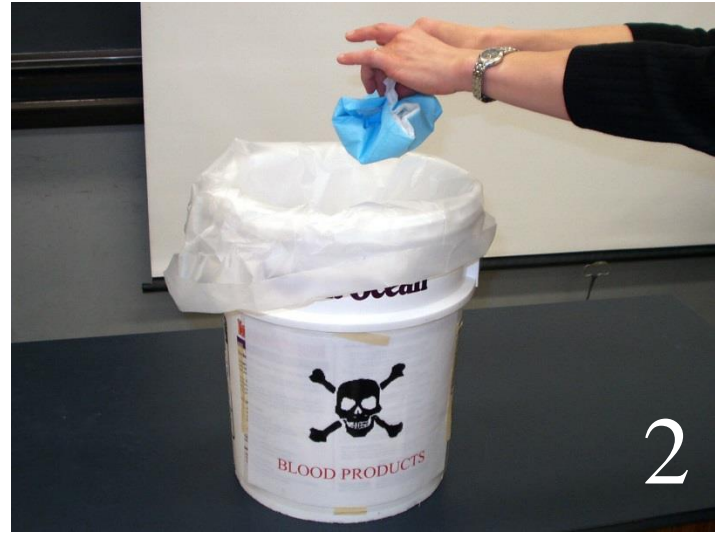
White Blood Cell Differential



CLEAN-UP!



FOLD DIAPER



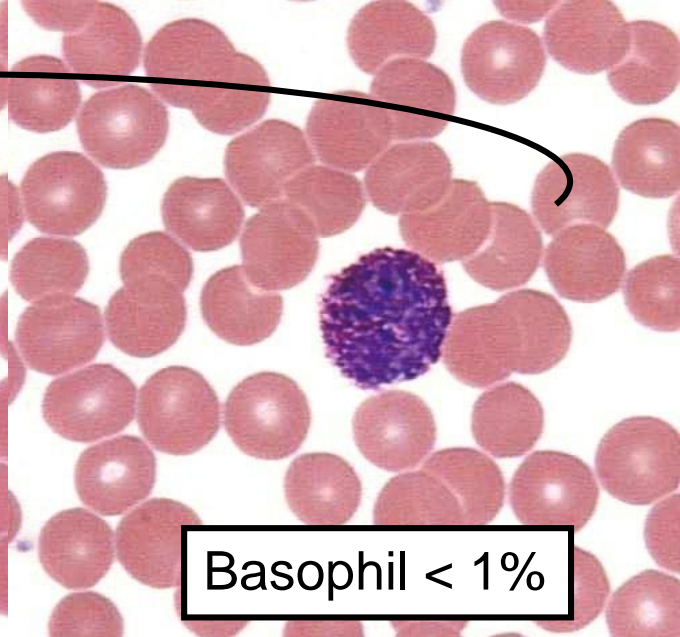
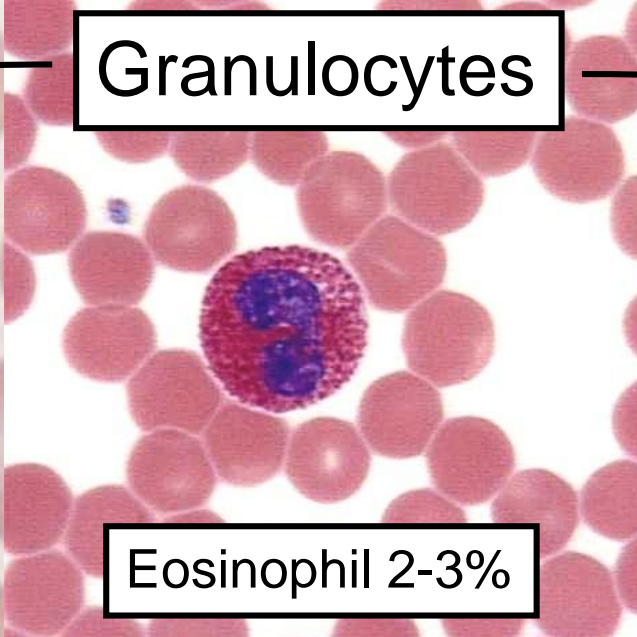
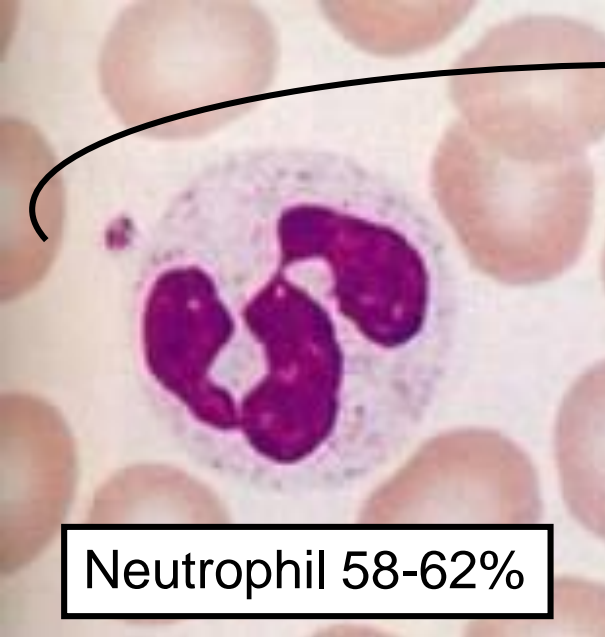
BLOOD PRODUCTS



REWASH!!

Q about Lab?

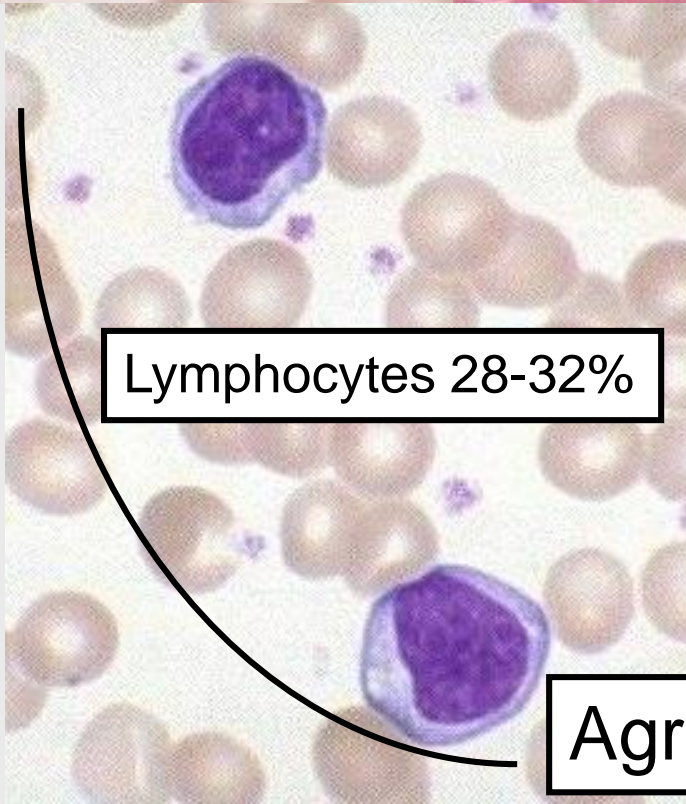
Granulocytes



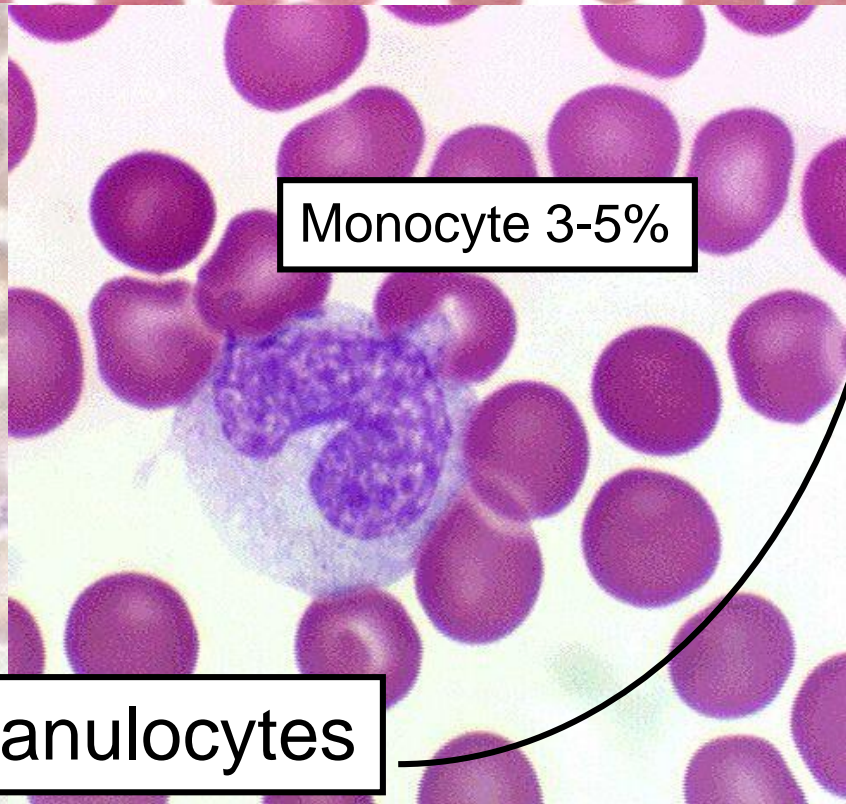
Neutrophil 58-62%

Eosinophil 2-3%

Basophil < 1%



Lymphocytes 28-32%



Monocyte 3-5%

Agranulocytes