

Open Question

Show me another »

**Girlfriend aint had period since she got pregant?**

ok im kinda worried here since my g/f got pregant and all she isnt been havein her period do u think the baby is drinkin the blood?? she 6 month pregant

**PREGNANT**

**It's when the baby sucks the blood for 6 months**

# Blood & Lymphatic Systems

*Bartolo Natoli M.Ed; M.A.*

# Results of Class Evals

## *Positives*

games  
large group work  
group quizzes  
fast grading

## *Negatives*

unfair quiz questions  
more lectures  
less 'figure-it-out' work  
move quizzes to Thurs.  
less 'extra' material on ppts

# The 'Cell'

As we have learned in class thus far, the suffix "**cyte**" refers to cells.

"**Cyte**" is derived from the Greek **τὸ κύτος**, which means "*container or basket*".

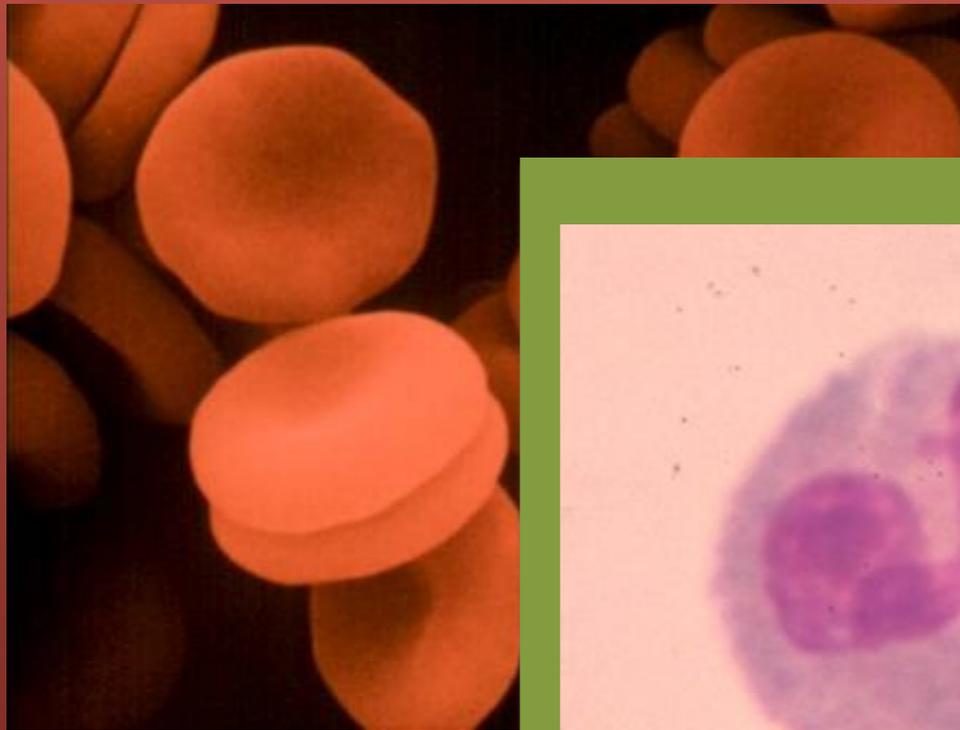
So, simply stated, cells are containers that carry materials throughout the body.

# Types of Cells

As you probably already know, there are multiple types of cells in the body, each of which carries different materials.

The term for each cell, as with the term 'cyte' are derived from Ancient Greek & Latin and describe a characteristic of the cell.

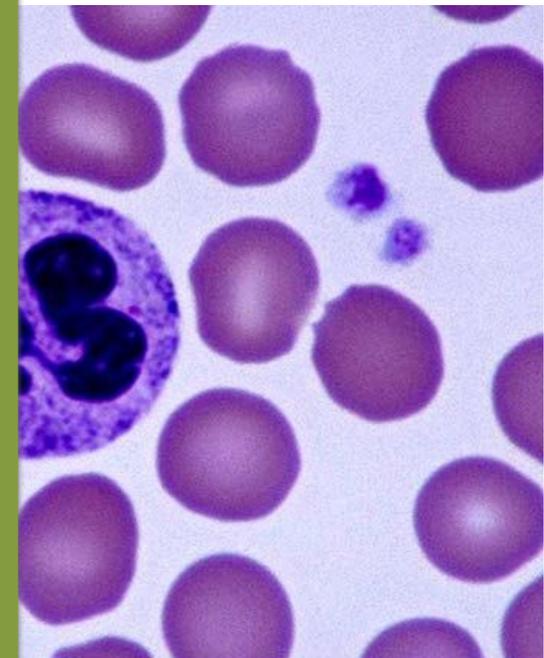
# Types of Cells



Erythrocyte  
(ἐρυθρός)

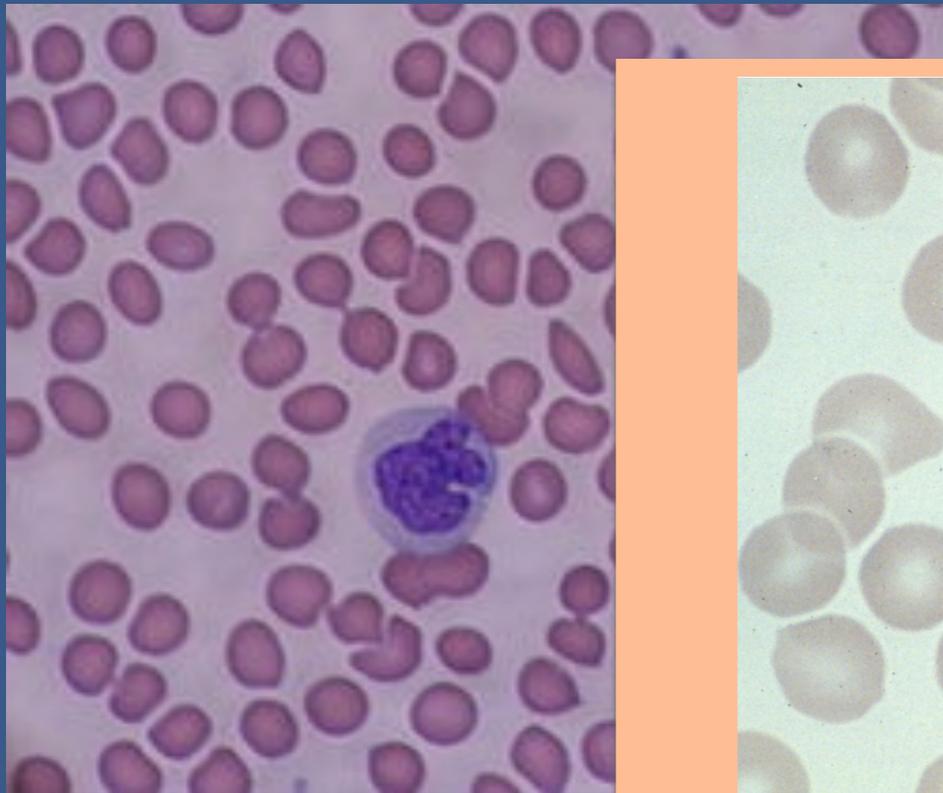


Granulocyte = cell c granules  
(granulus, i = little grain)

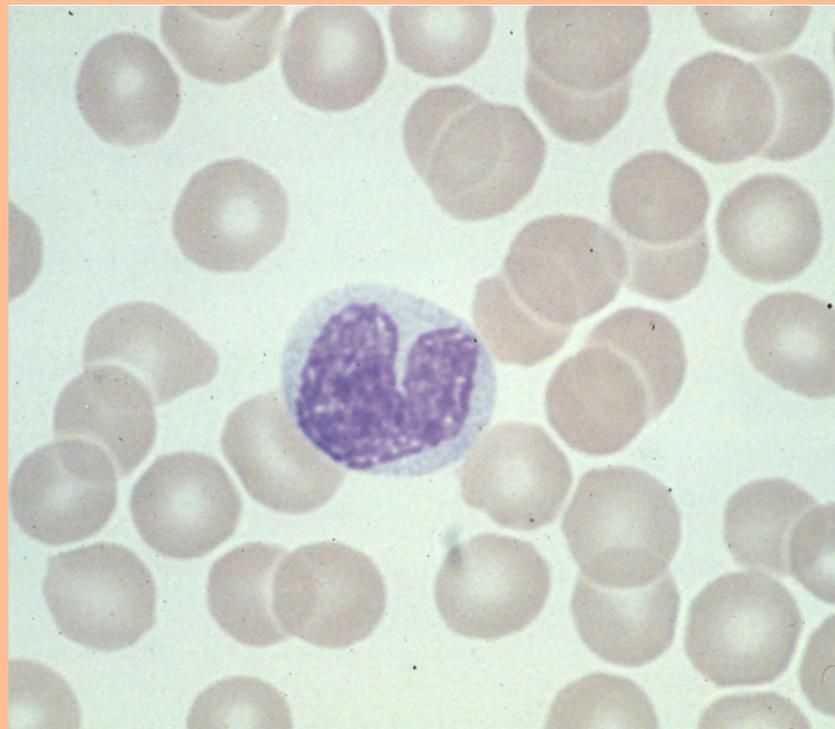


Leukocyte = white cell  
(λευκός = white)

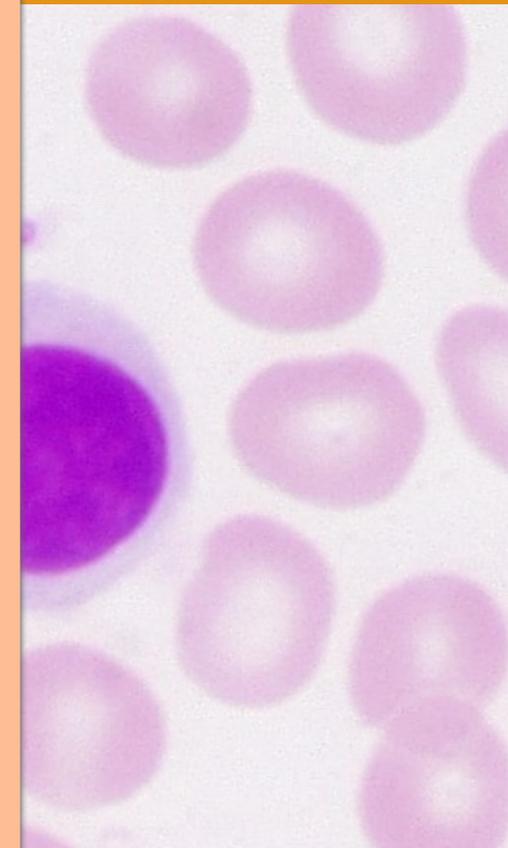
# Types of Cells



Agranulocyte = cell  
(a + granule)



Monocyte = agranulocytic,  
phagocytic leukocyte  
(μόνος = one, alone)



Lymphocyte = cells involved in immunity  
(Lympha, ae = water, clear liquid)

# Cells: A Synopsis

## Neutrophil

A granulocyte  
c neutral colored  
granules.  
(neuter + φιλέω)  
(neither + love)

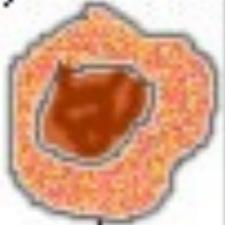
## Esinophil

A granulocyte  
c red granules.  
('εος + φιλέω)  
(rosy + love)

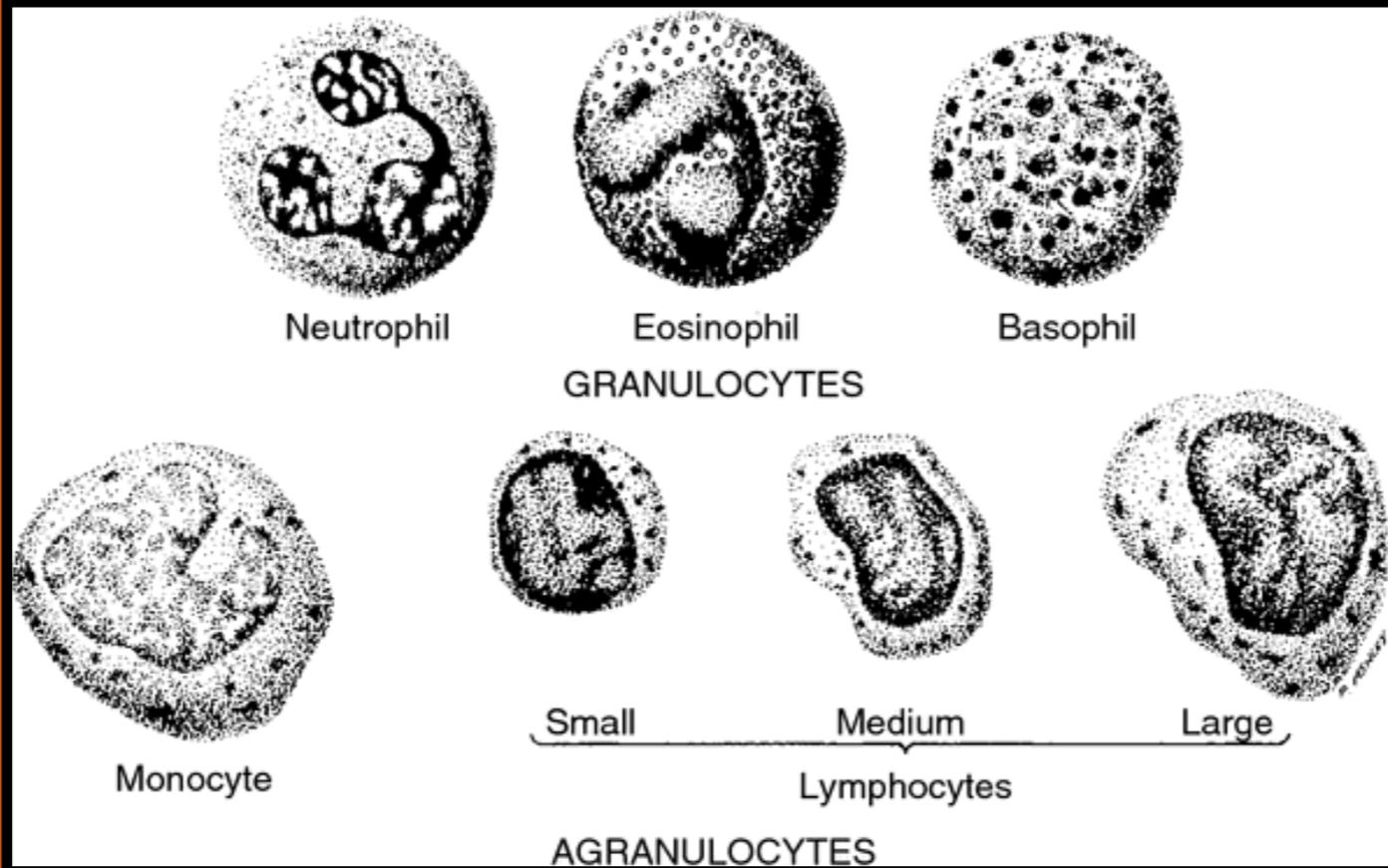
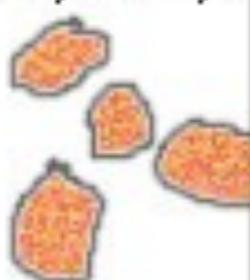
## Basophil

A granulocyte  
c dark, basic  
granules.  
(βάσις + φιλέω)  
(basic + love)

Polychroma  
erythroblast



Erythrocyte



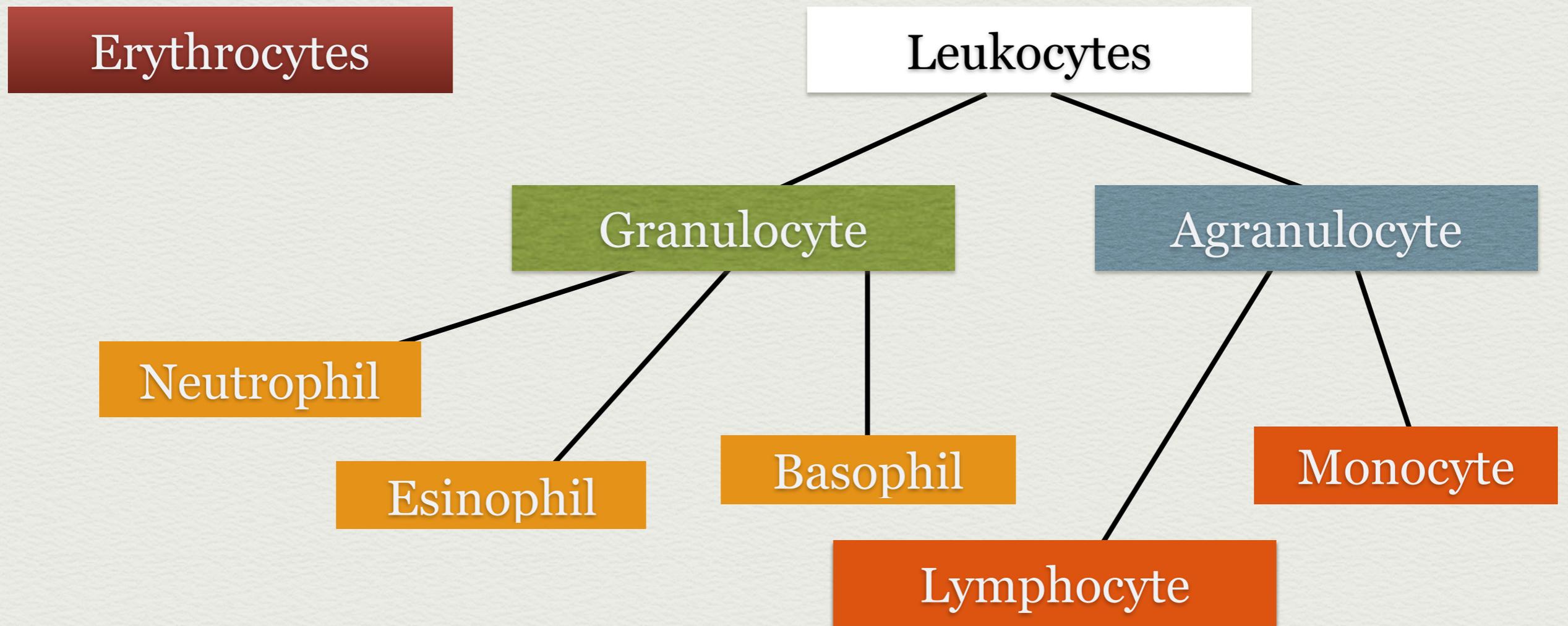
Thrombocyte



Thrombocytes



# Cells: A Review



# -Osis My!

This chapter features a larger number of conditions involving cells.

All of these conditions, except one, feature the suffix: '**-cytosis**'.

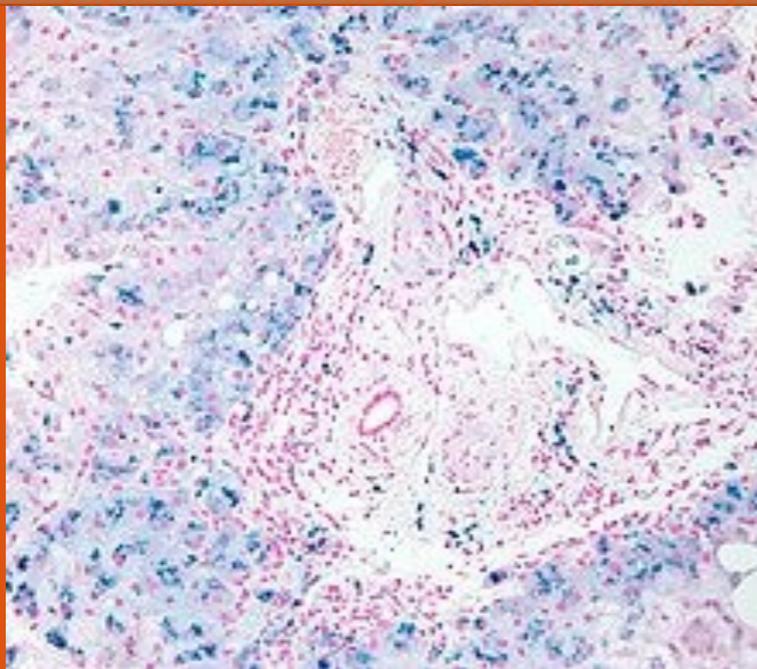
# -Osis My!

## Anisocytosis

(an + isos = unequal)

### hemochromatosis

(αἷμα = blood  
χρωμα = color)



(μακρός = large)

### erythroblastosis fetalis

(βλάστος = germ  
fetalis = fetus)



Reticulocytosis  
(reticulum = net)

# A '-penia' for your thoughts!

Another large group of words introduced in this chapter uses the suffix '**-penia**'.

As we have learned, '**-penia**' means '*a lack of*'.

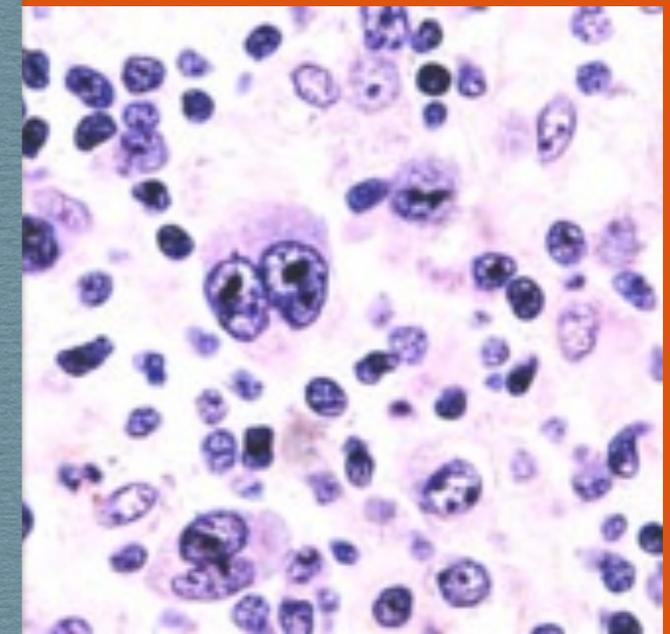


# A Handful of '-penia's

**erythropo**  
('ερυθρος =

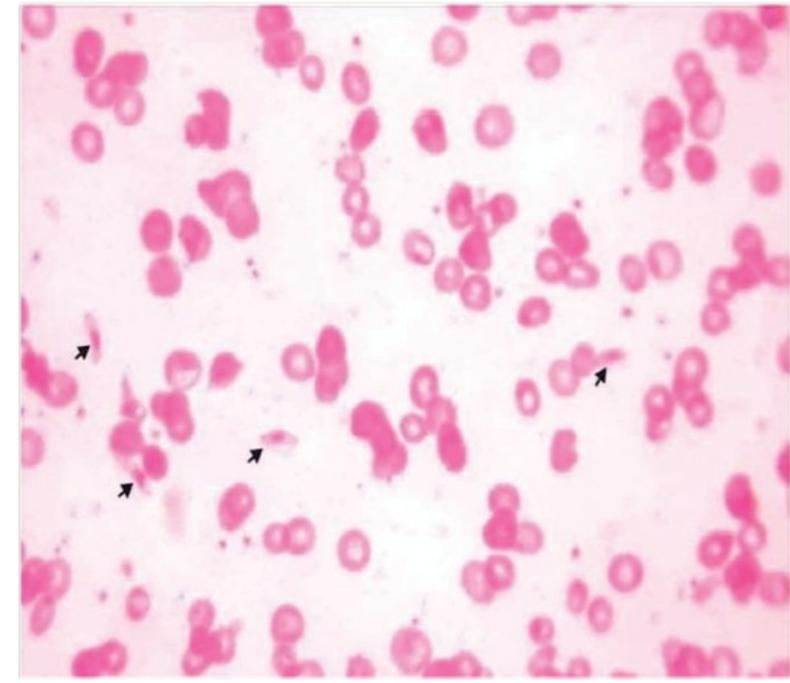


**neutropenia**  
(neuter = neither)



**lymphocytopenia**  
(lympho, ae =  
water, clear liquid)

# A Handful of '-penia's



**pancytopenia**  
(πας, παντις = all)



**thrombocytopenia**  
(θρόμβος = all)

# The suffix '-ia'

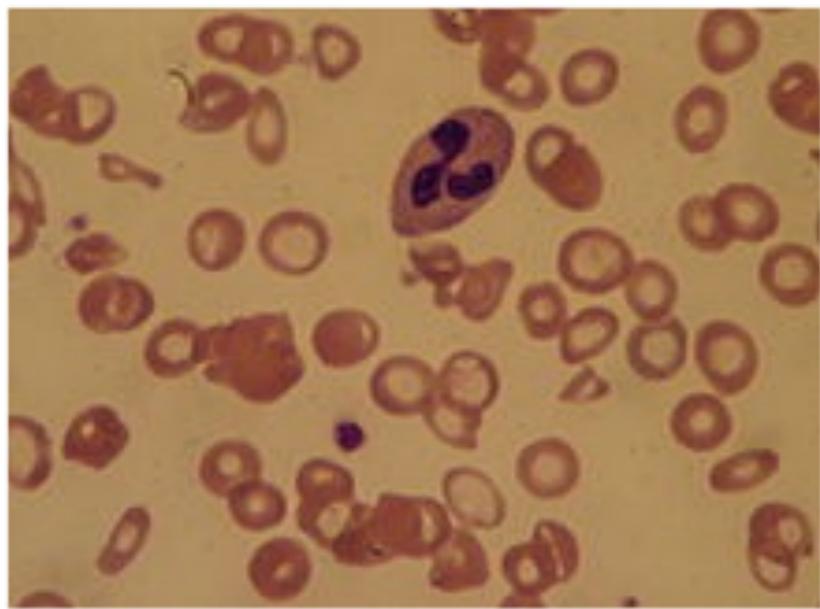
The other large group of terms in this Chapter are those ending in **-ia**.

As we remember from Chapter 1, **-ia** is translated as "the condition of".

# The suffix '-ia'

## **anemia**

(αν + αίμα = s blood)



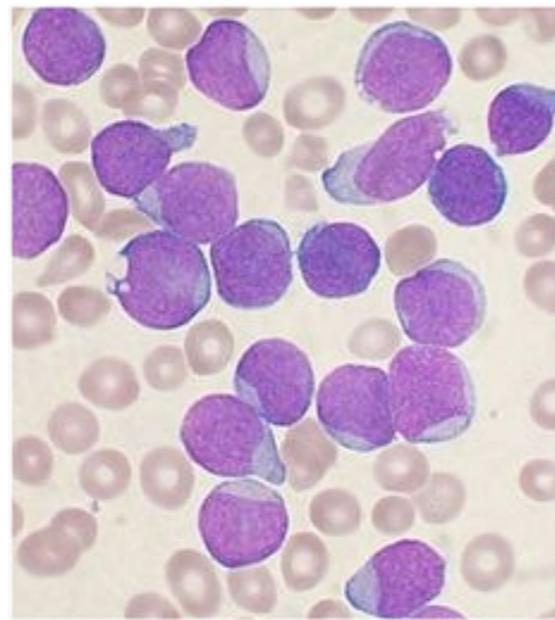
## **hemophilia**

(αίμα + φιλέω = blood + love)



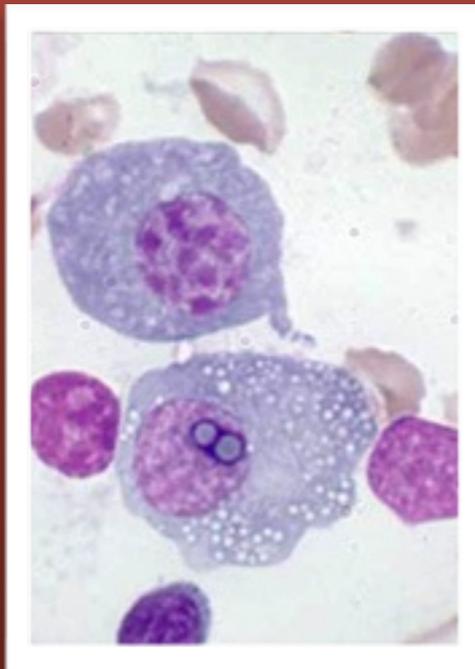
## **leukemia**

(λευκός + αίμα = white + blood (condition))



# The suffix '-ia'

**myelodysplasia**  
(myel+ dys + plas + ia)



**polycythemia**  
(πολυς + κύτος + αίμα)



**septicemia**  
(σήπω + αίμα =  
rotten blood)

# '-Tomy' about it!

The final group of words for this Chapter are those ending in '**tomy**', which indicates a type of operation.

**-ectomy** = *excision*

**-tomy** = *incision*

# '-Tomy' about it!

**Phlebotomy**



**Lymphadenotomy**



# '-Tomy' about it!

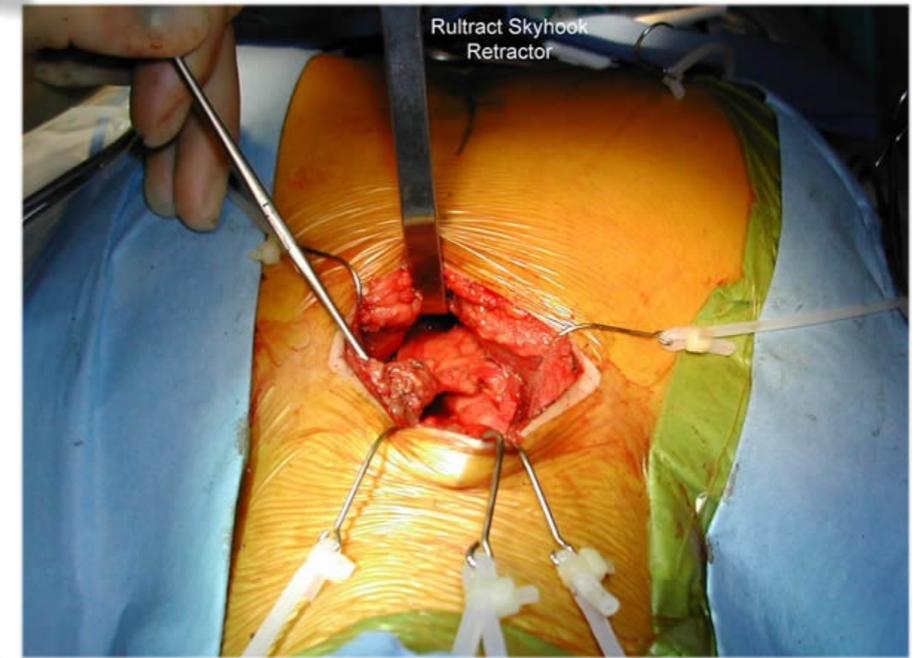
## Splenectomy



## Lymphadenectomy



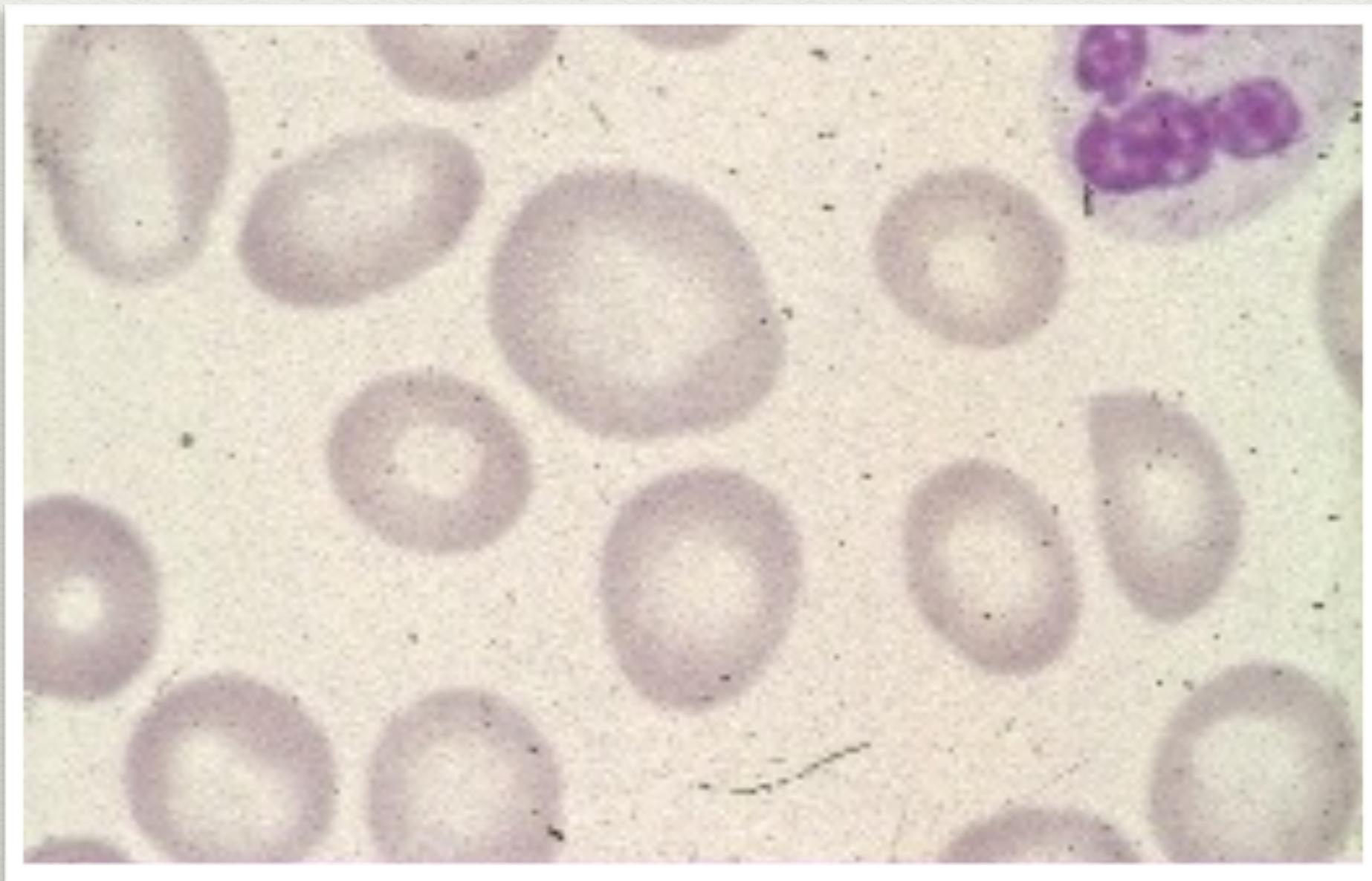
## Thymectomy



Group ID!

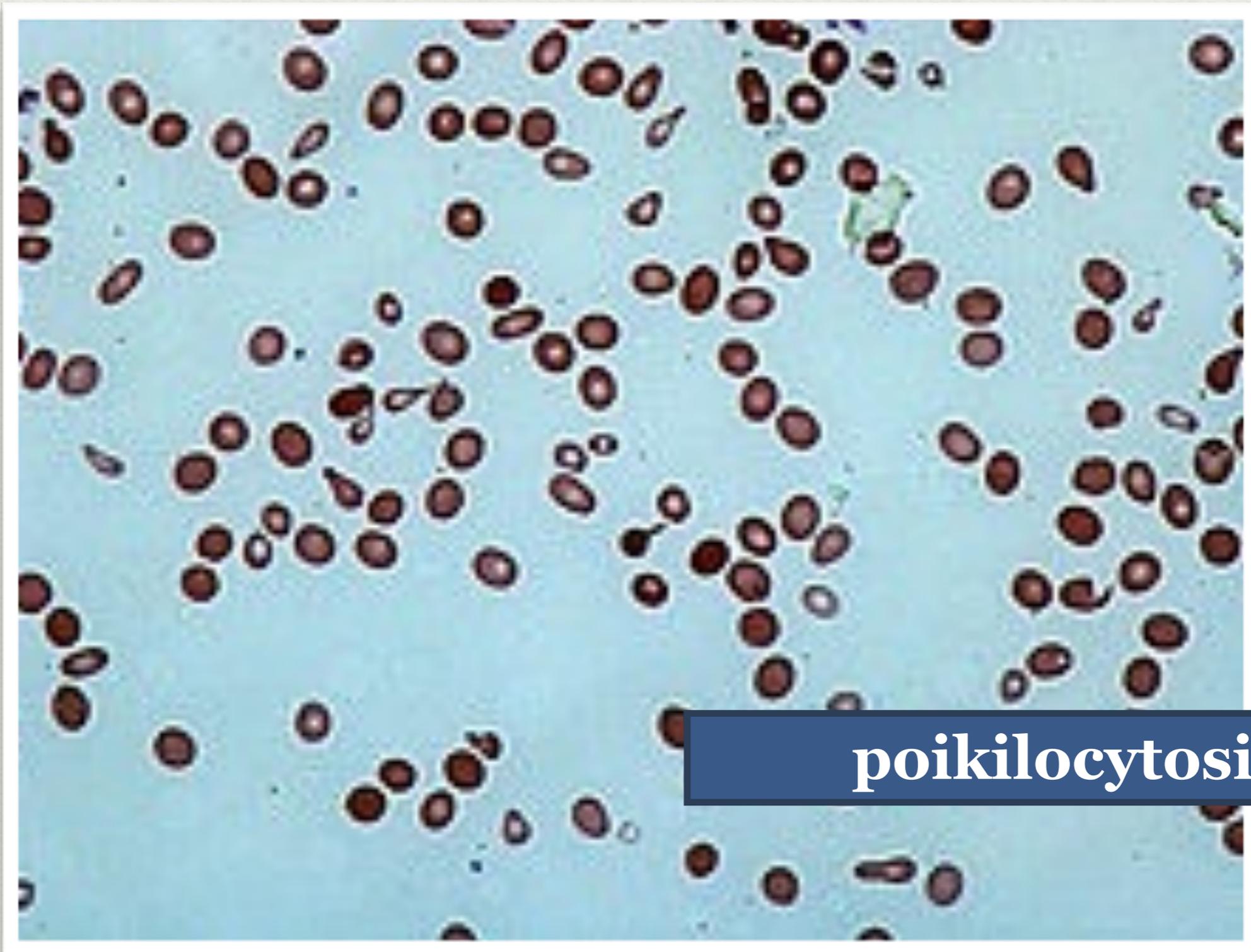
*Get in your groups!*

presence of large red blood cells



**Macrocytosis**

presence of large, irregularly shaped red blood cells



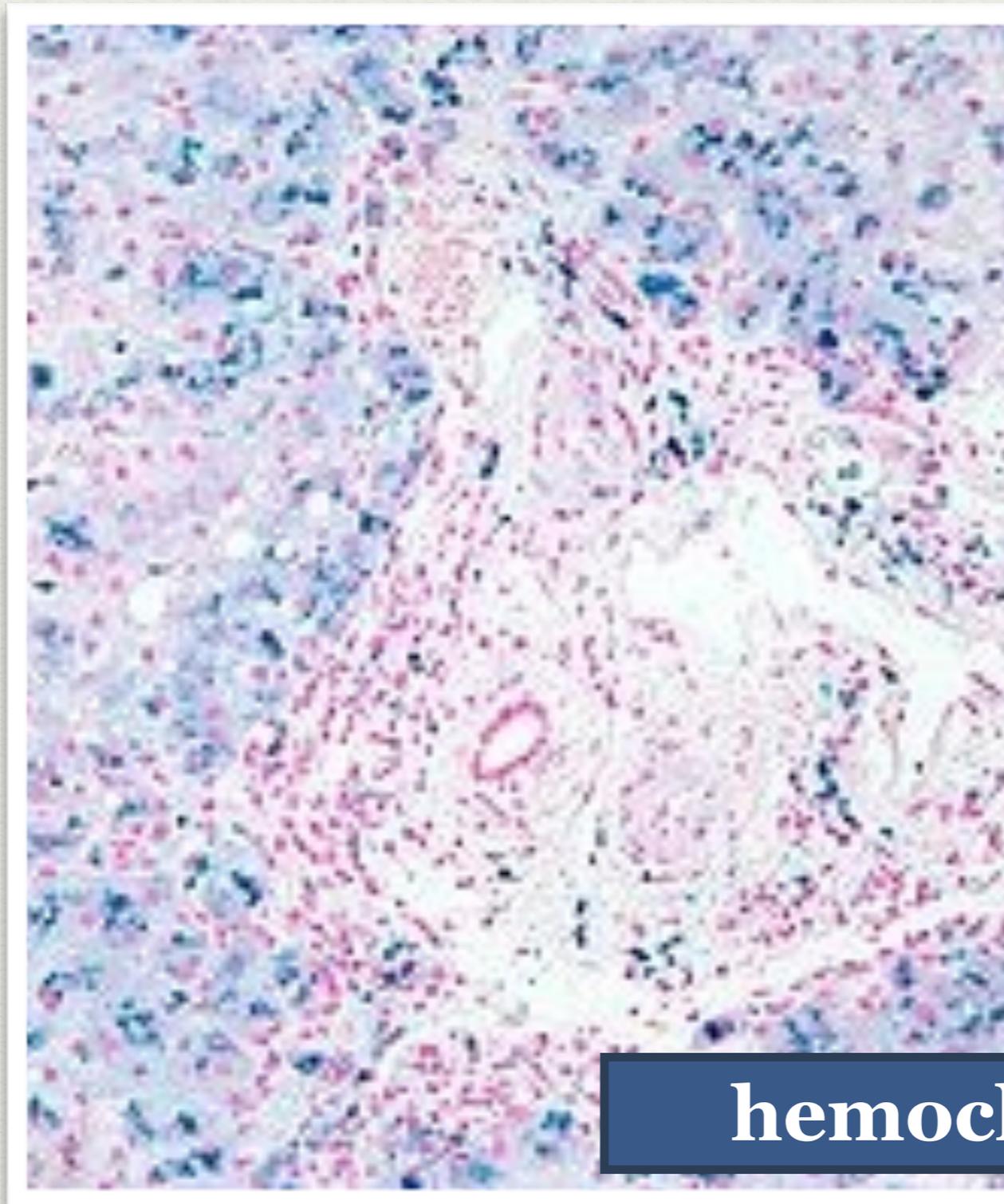
**poikilocytosis**

an abnormally decreased number of platelets  
in the blood, impairing the clotting process



**thrombocytopenia**

hereditary disorder with an excessive buildup of iron deposits in the body



**hemochromatosis**

disorder that results from the incompatibility of a fetus with Rh-positive blood & a mother with Rh-negative blood



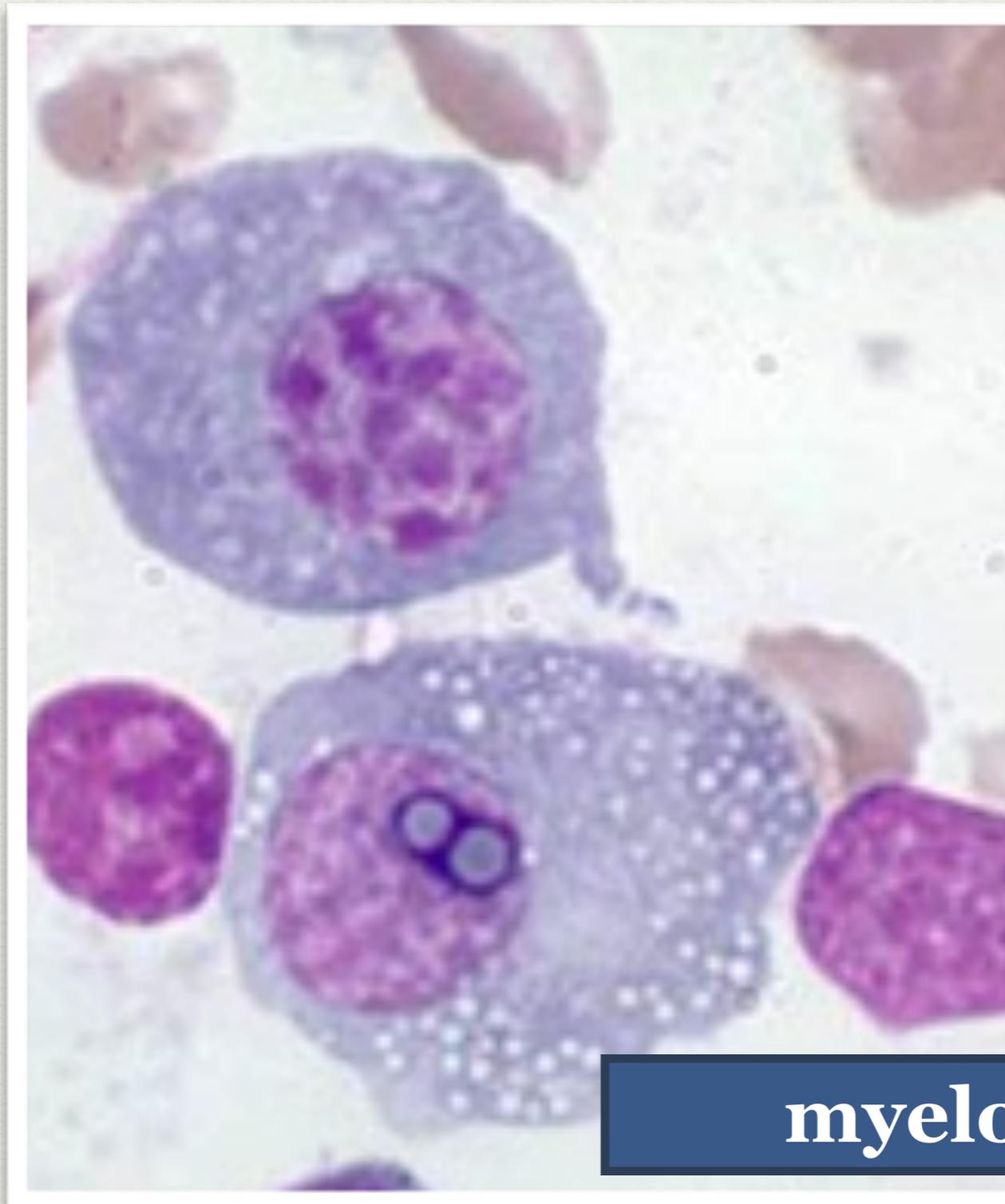
**erythroblastosis fetalis**

increased number of erythrocytes and  
hemoglobin in the blood



**polycythemia**

disorder within the bone marrow characterized  
by a proliferation of abnormal stem cells



**myelodysplasia**

# incision into a lymph node



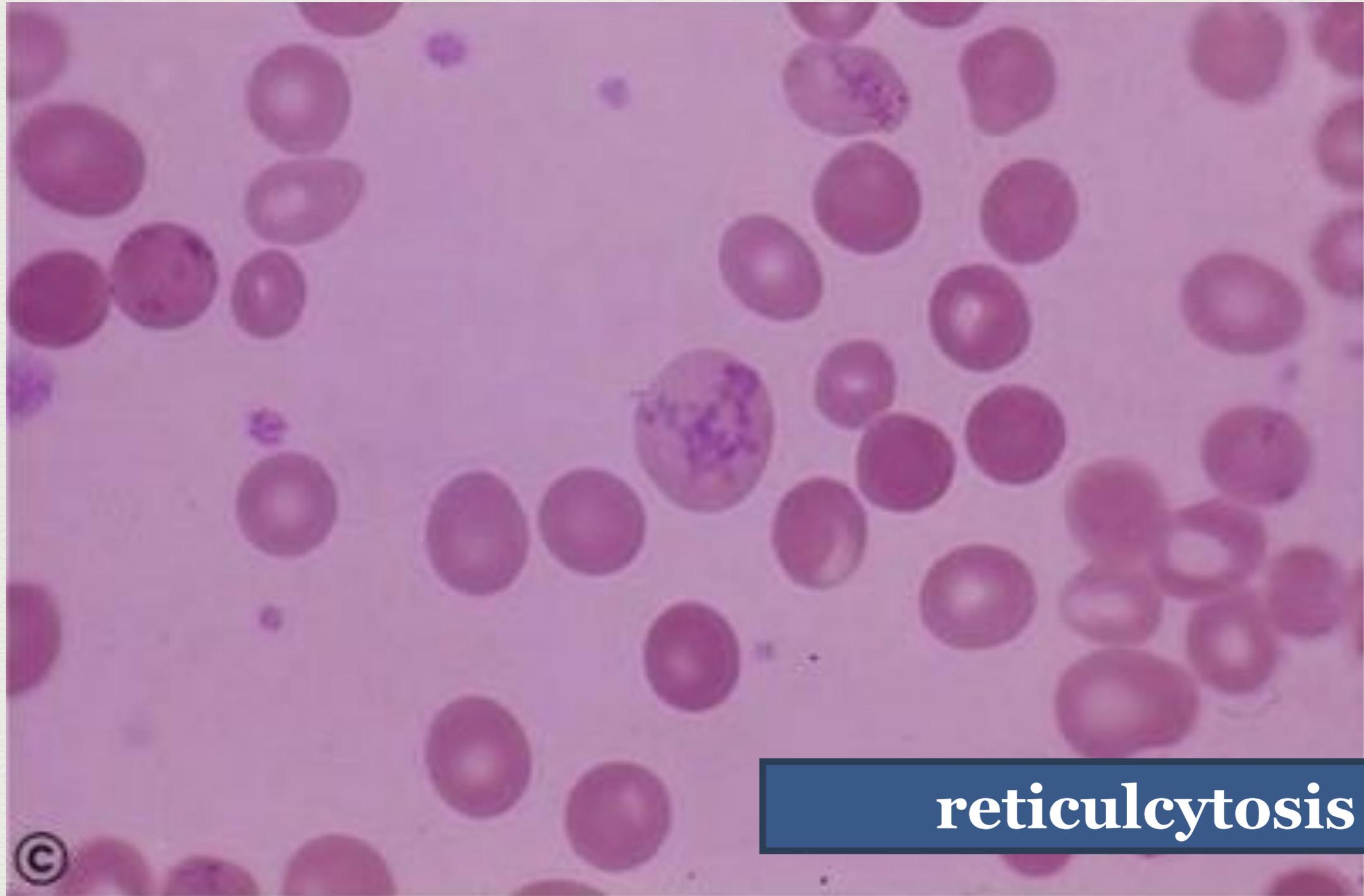
**lymphadenotomy**

systemic disease caused by infection with microorganisms and their toxins in circulating blood



**septicemia**

increased number of immature erythrocytes in the blood



**reticulocytosis**

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