

CURIOSIDADES

**TRANSFUSÕES e GRUPOS
SANGUÍNEOS**

**? Há quanto tempo
se fazem transfusões
de sangue?**

Em 1613 W.
Harvey
demonstra a
existência da
circulação
sanguínea



Fig. 1 – William Harvey¹⁷.

Jean Denis
em 1667
utiliza
sangue de
cordeiro na
primeira
transfusão
sanguínea



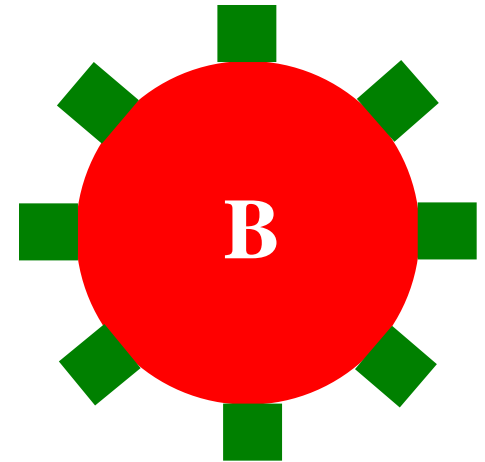
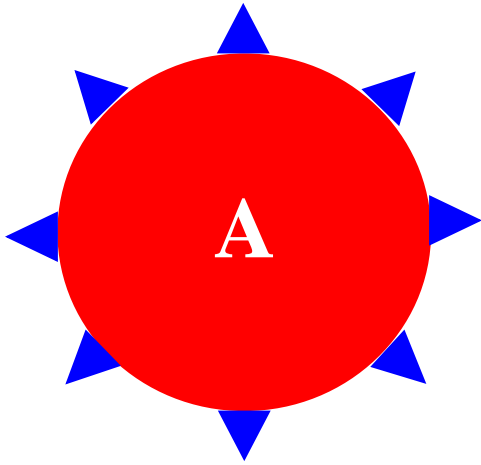
James Blundell
em 1818 realiza
nas suas
grávidas as
primeiras
transfusões
homólogas



Landsteiner
descobre os
grupos sanguíneos
em 1900

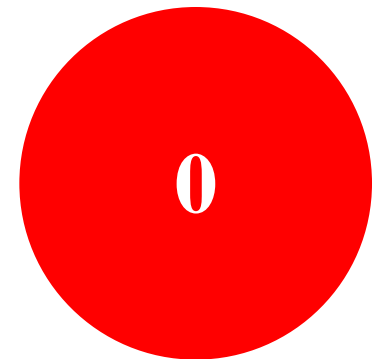
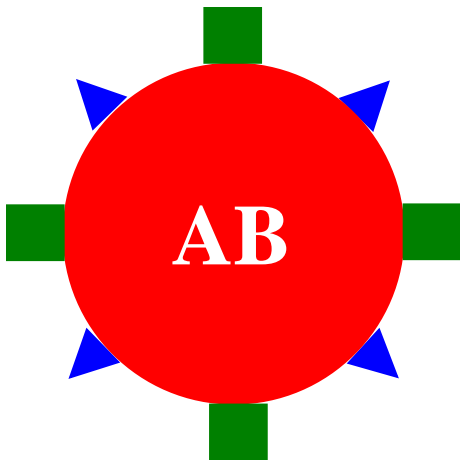


Grupos Sanguíneos



Substância **A** 

Substância **B** 

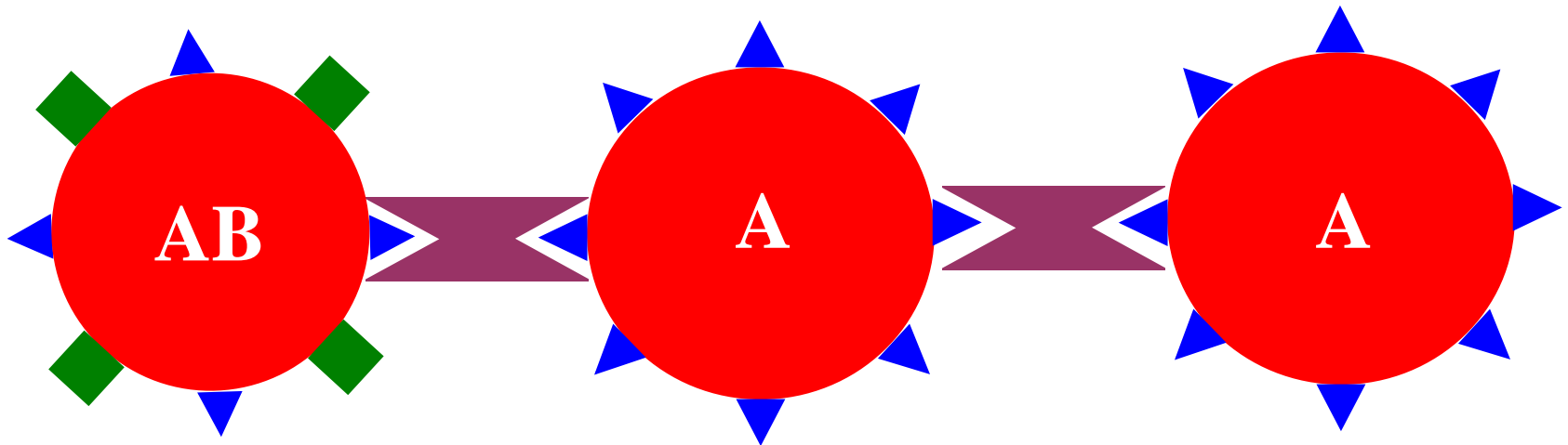


Anticorpos Naturais



Anti-A

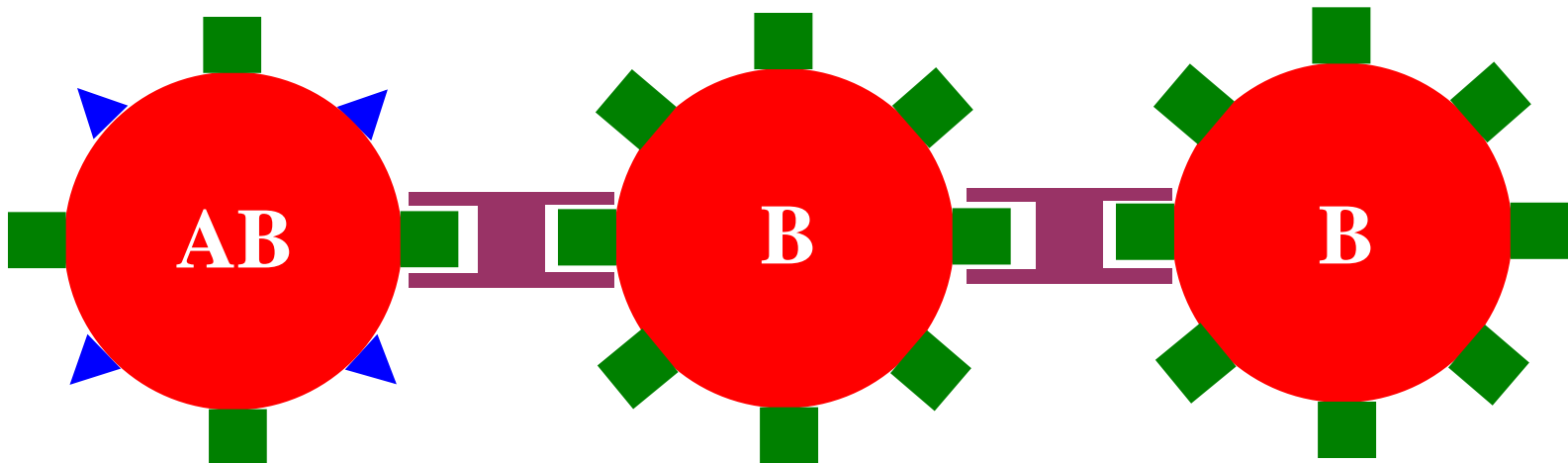
Capazes de destruir glóbulos vermelhos
que possuam Antigénio A na membrana

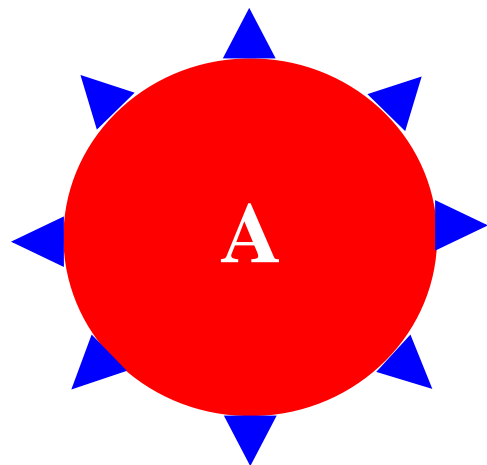


Anticorpos Naturais

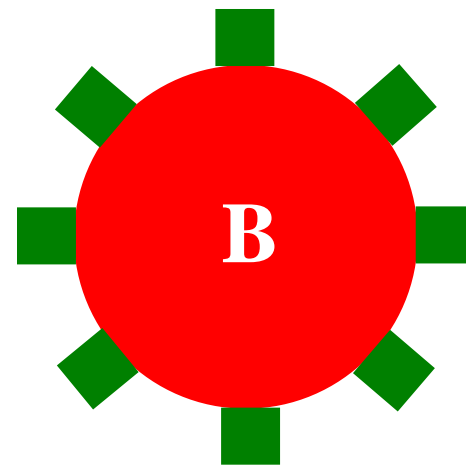


Capazes de destruir glóbulos vermelhos
que possuam Antigénio B na membrana



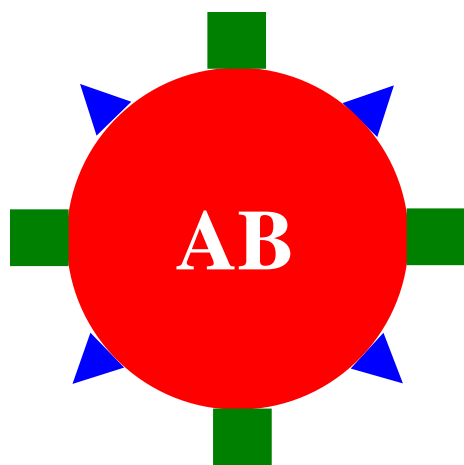


Anti-B

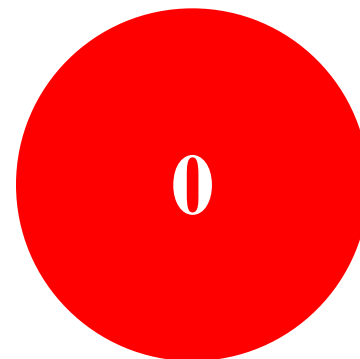


Anti-A

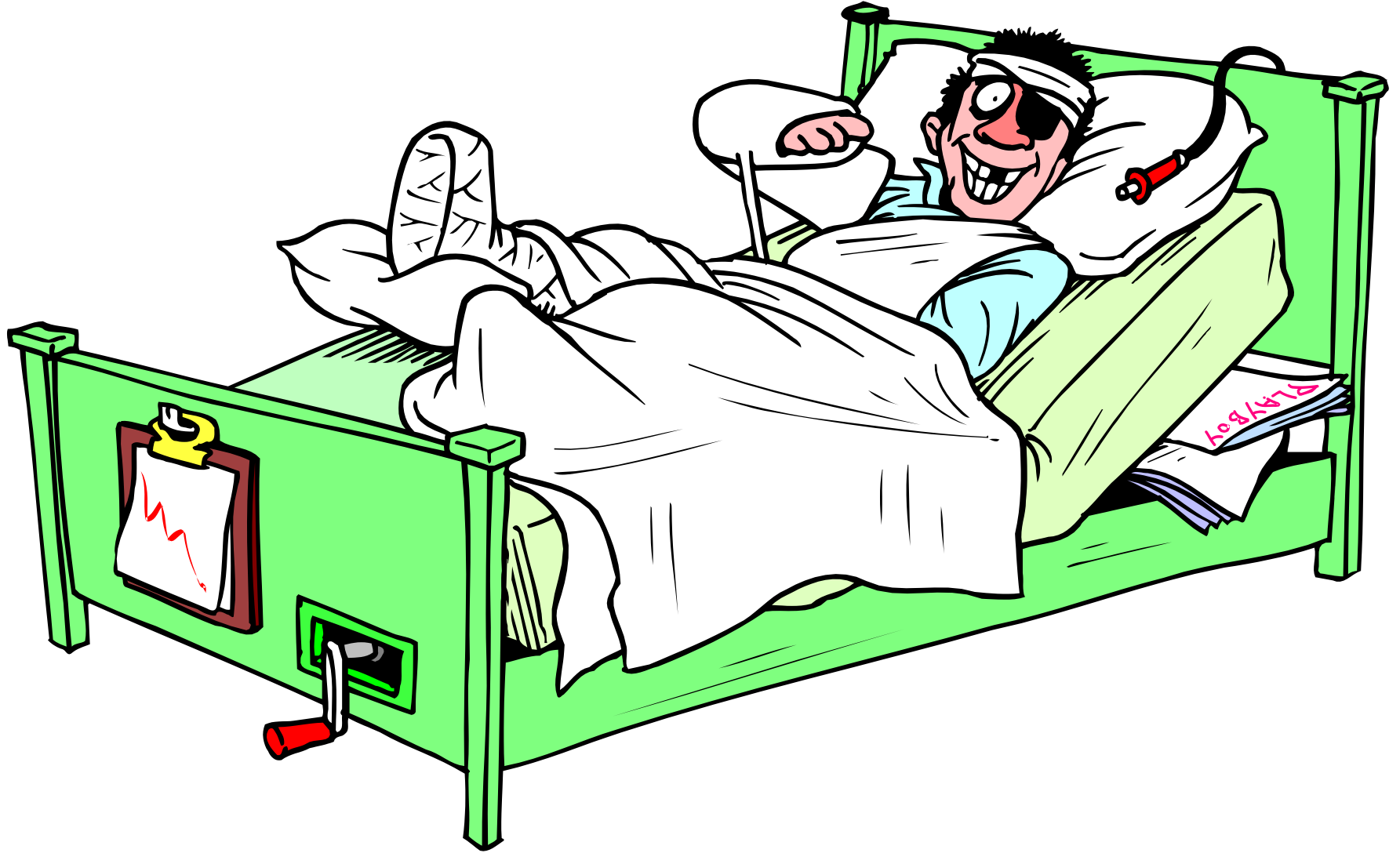
Grupos Sanguíneos



Sem anticorpos

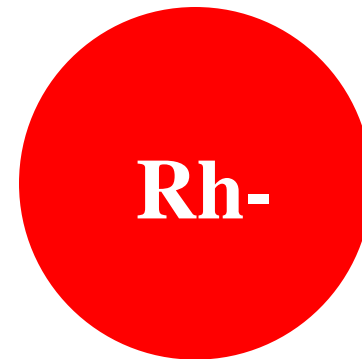
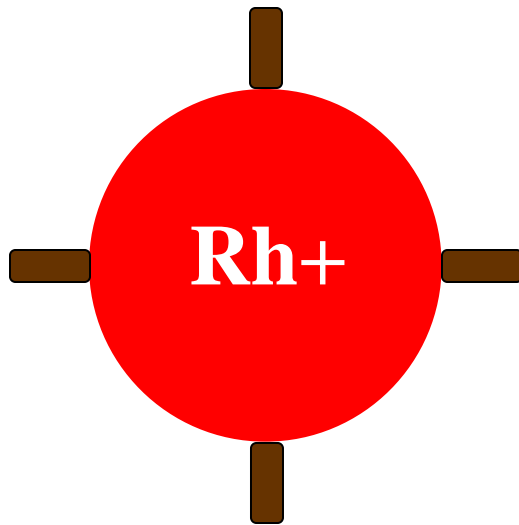


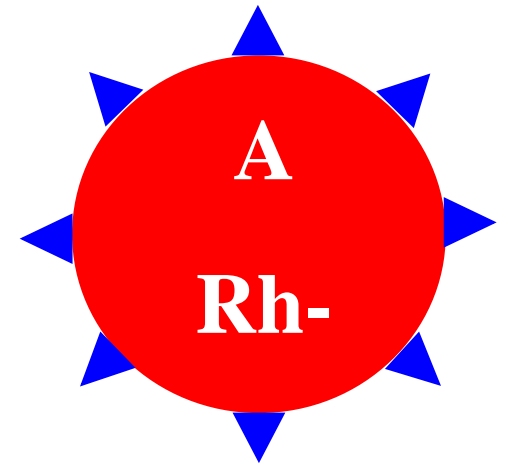
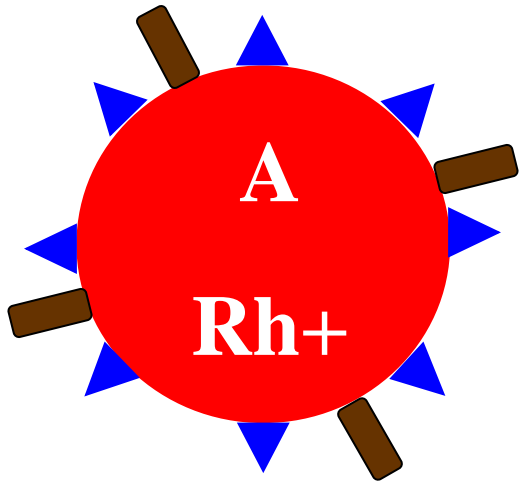
Anti-A e Anti-B



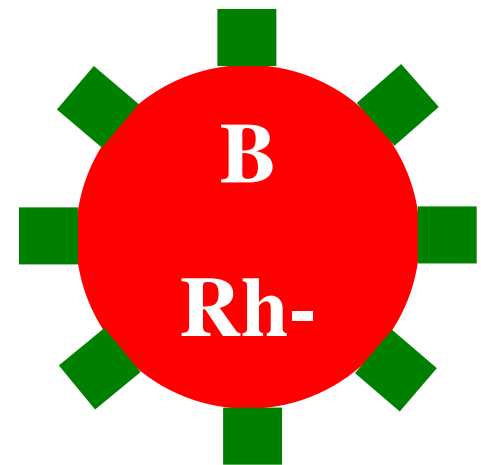
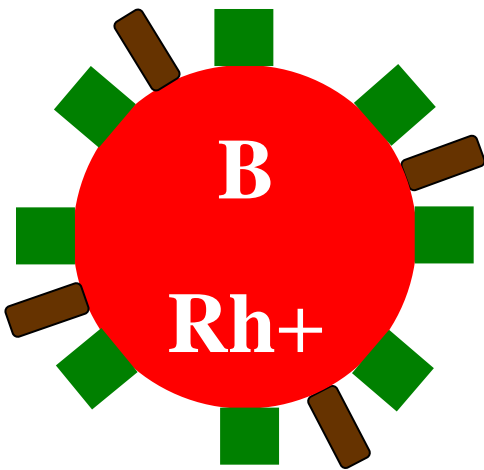
Grupos Sanguíneos

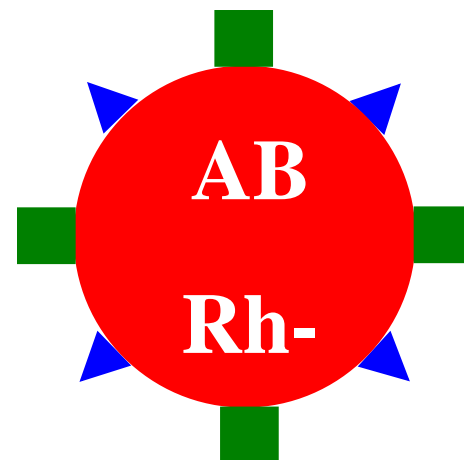
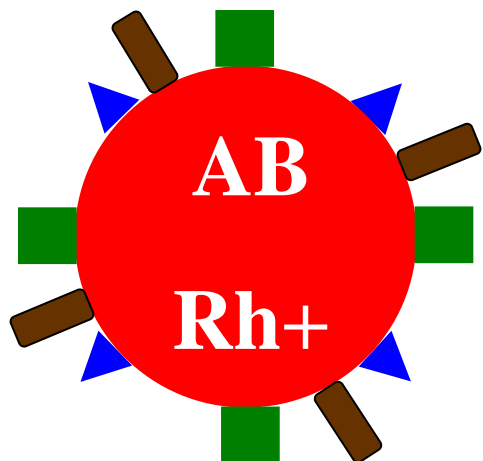
Substância **D** —



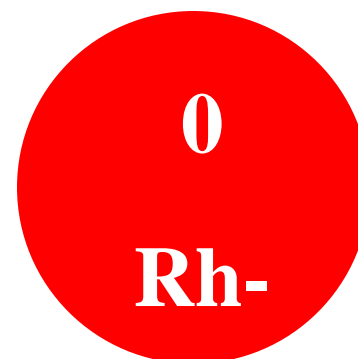
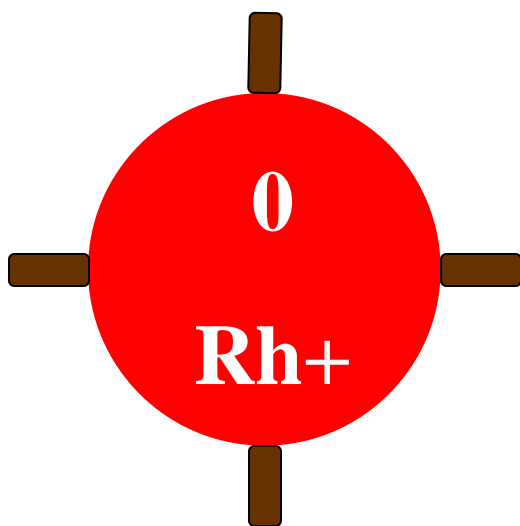


Grupos Sanguíneos

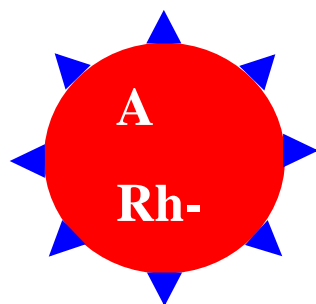




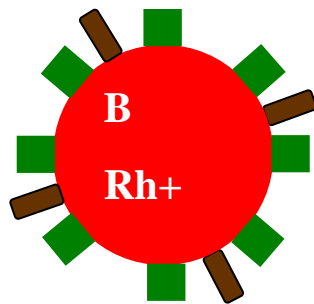
Grupos Sanguíneos



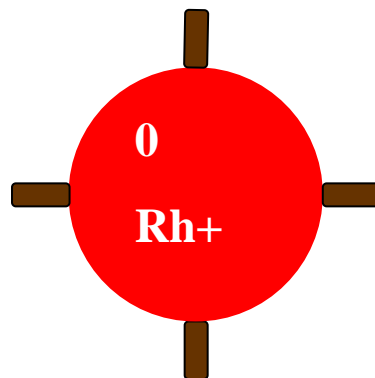
Prevalência dos grupos do Sistema ABO e Rh na população dadora do Centro Regional de Sangue de Lisboa



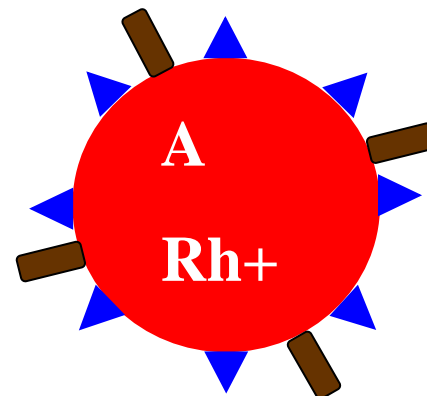
7%



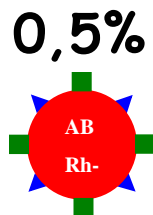
7%



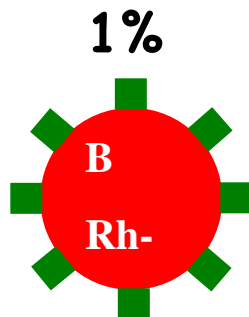
36%



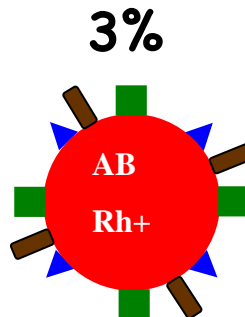
38,5%



0,5%



1%

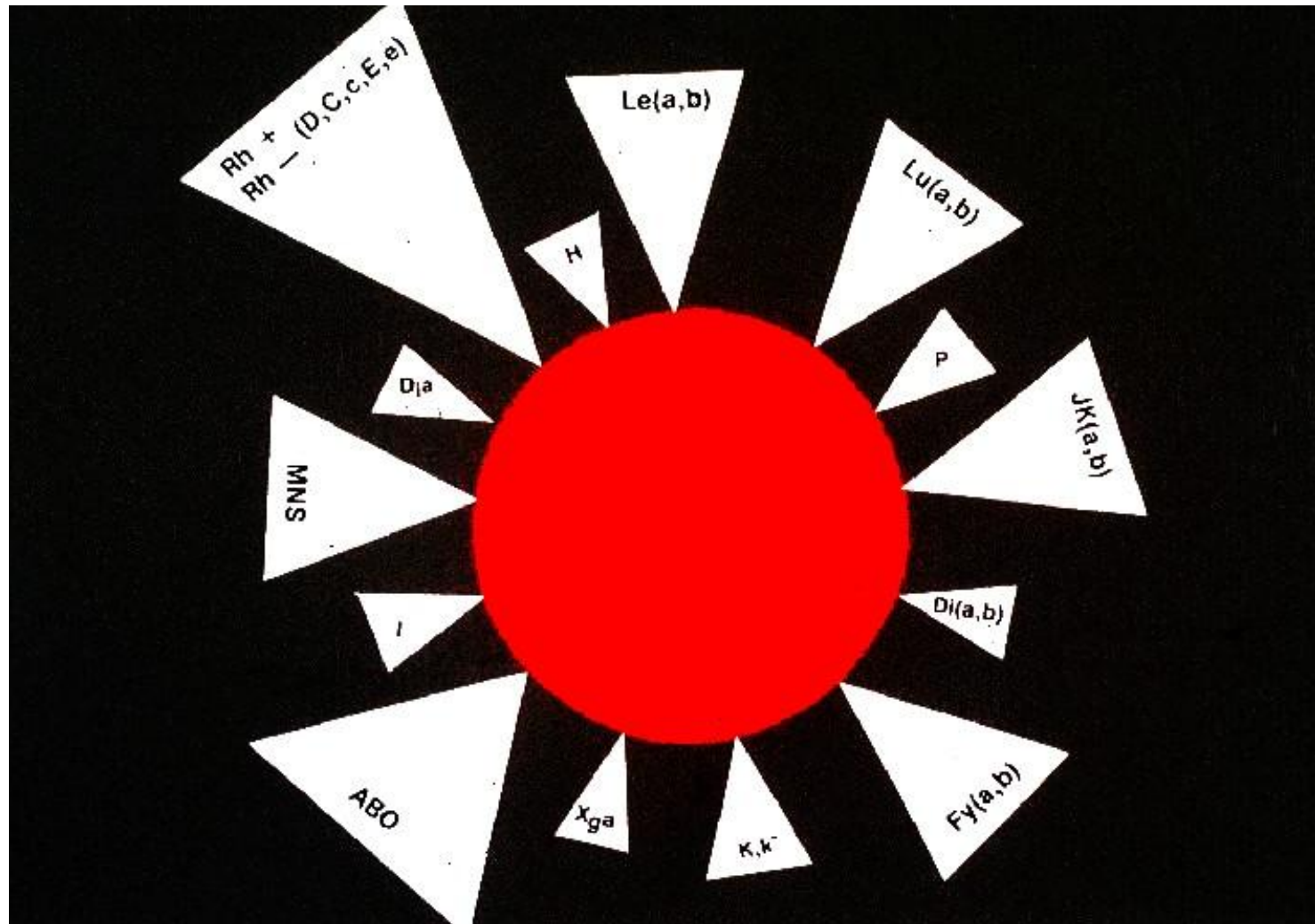


3%

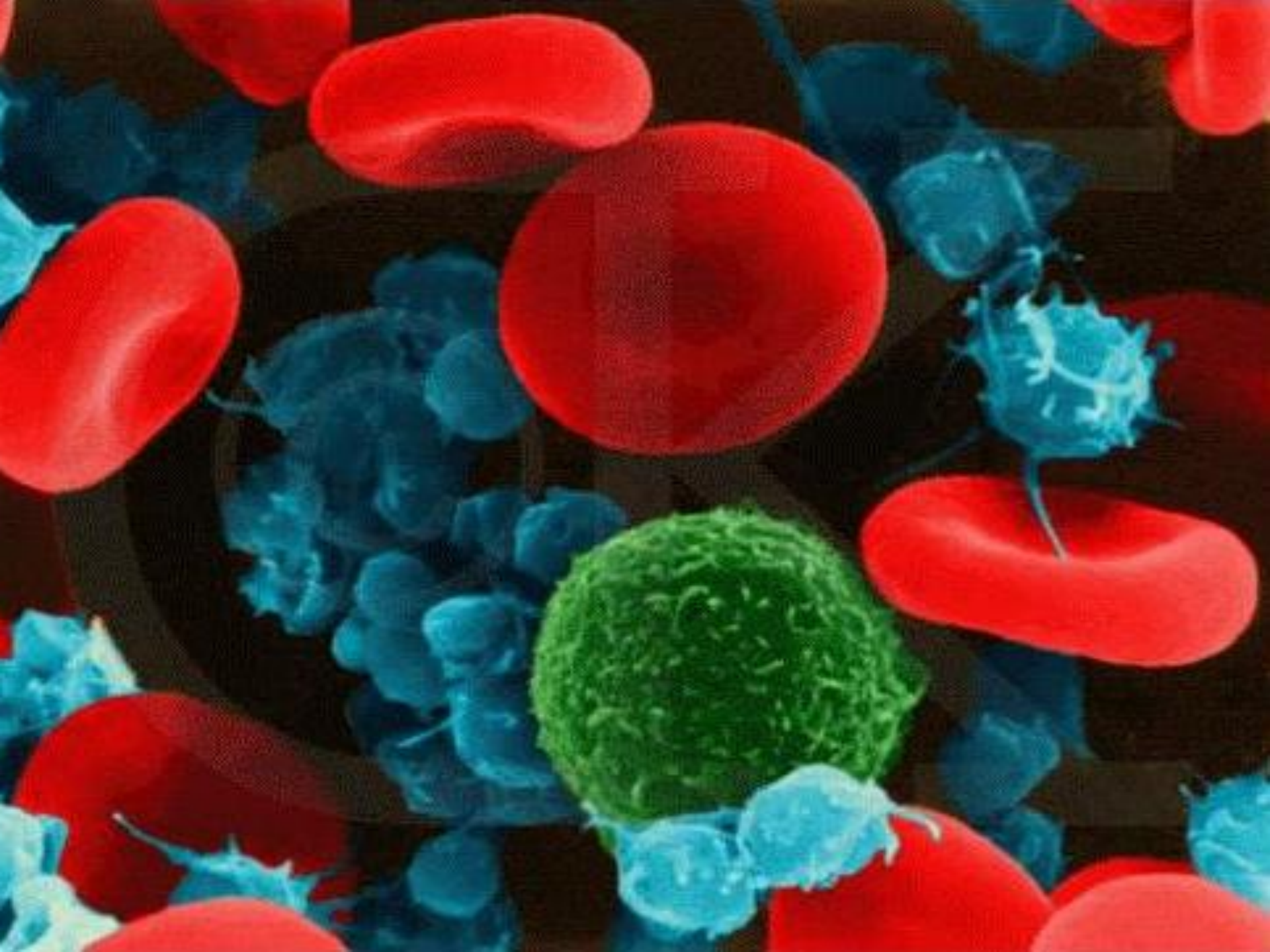


7%

Outros sistemas de grupos sanguíneos

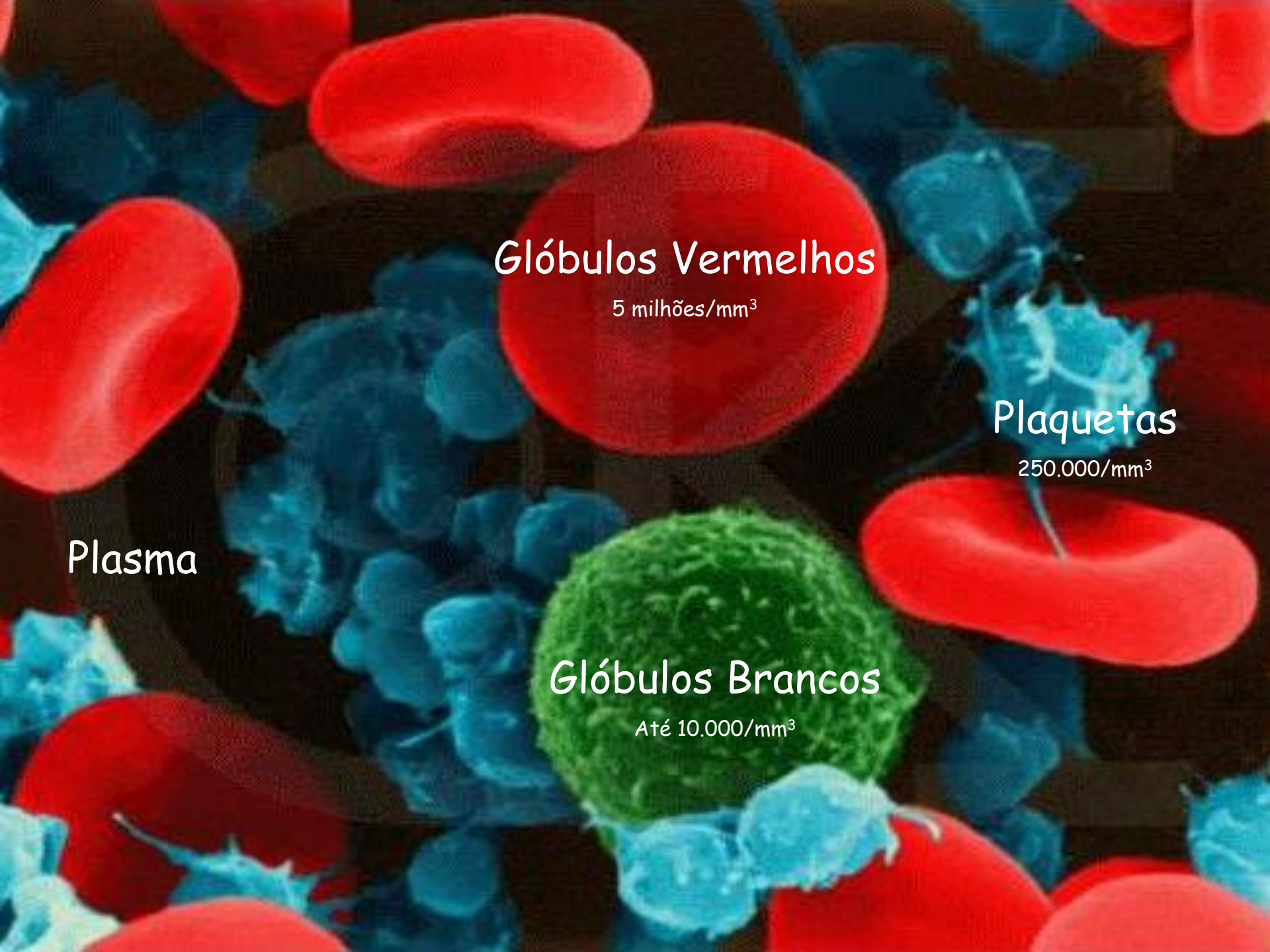


**? Como é
constituído o
sangue?**



Constituição do sangue

- Plasma – (Água-95%, Sais, Proteínas, Moléculas Orgânicas hidrosuloveis)
- Células sanguíneas – Eritrócitos-40 % (glóbulos vermelhos), Leucócitos (glóbulos brancos) e Plaquetas



Glóbulos Vermelhos

5 milhões/mm³

Plaquetas

250.000/mm³

Plasma

Glóbulos Brancos

Até 10.000/mm³

- O Plasma congelado a -30° dura
+/- 12 meses
- Os Eritrócitos a 4° duram
+/- 42 dias
- As Plaquetas a 20° duram
+/- 3 a 5 dias

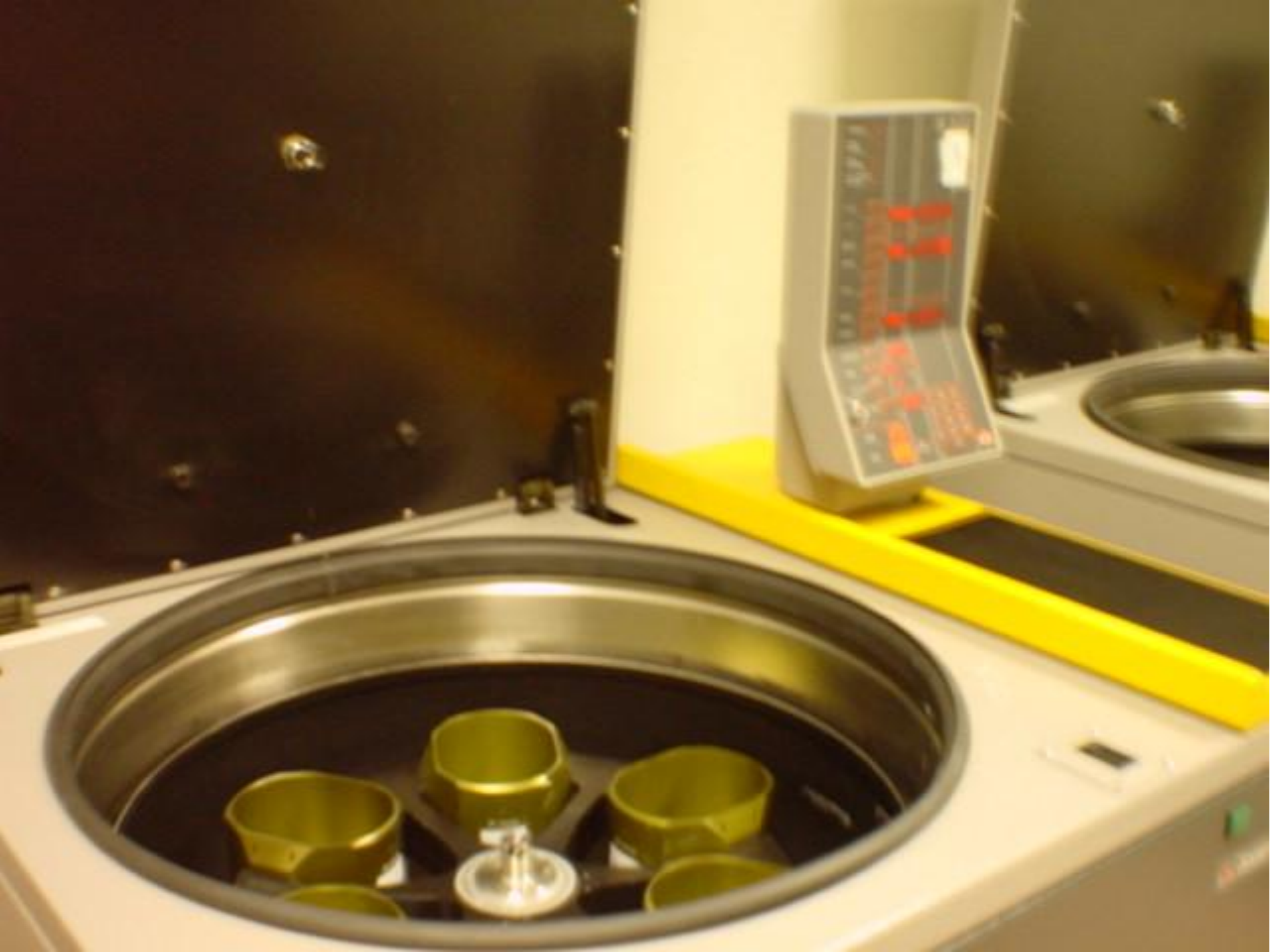
Quantidade de sangue num
adulto: +- 4,5 / 5,5 lts

Tempo para reposição do
volume de sangue doado:
+- 12 horas

Uma dádiva pode contribuir
para salvar 3 vidas













6750064

UNITÉ DE SANG

Centre Régional de Transfusion de Lorraine

Donneur: D. 800

Reçu: 0 +

Gr. Positive

6750064 CE 30

Destiné à la transfusion





—
Hospital Administration
Service de la
Général
1

Fracionamento do Plasma

- O fracionamento industrial do Plasma produz Albumina, concentrado de Factor VIII e IX, Fibrinogénio, Antitrombina e Gamaglobulinas