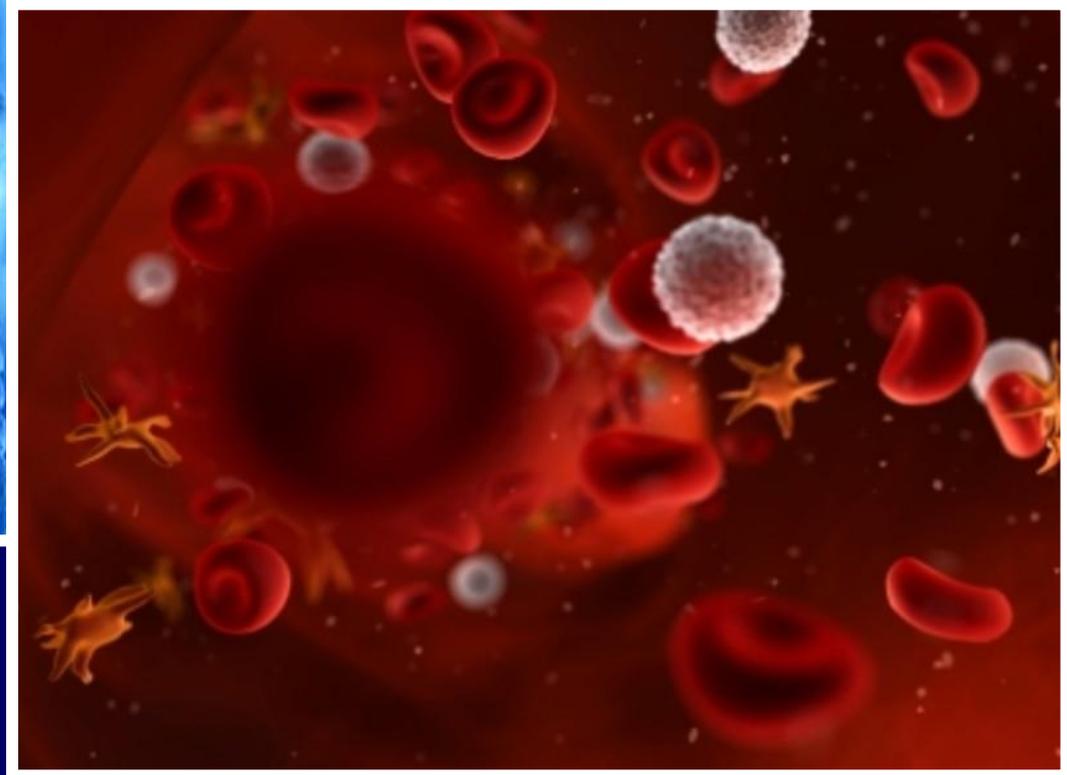
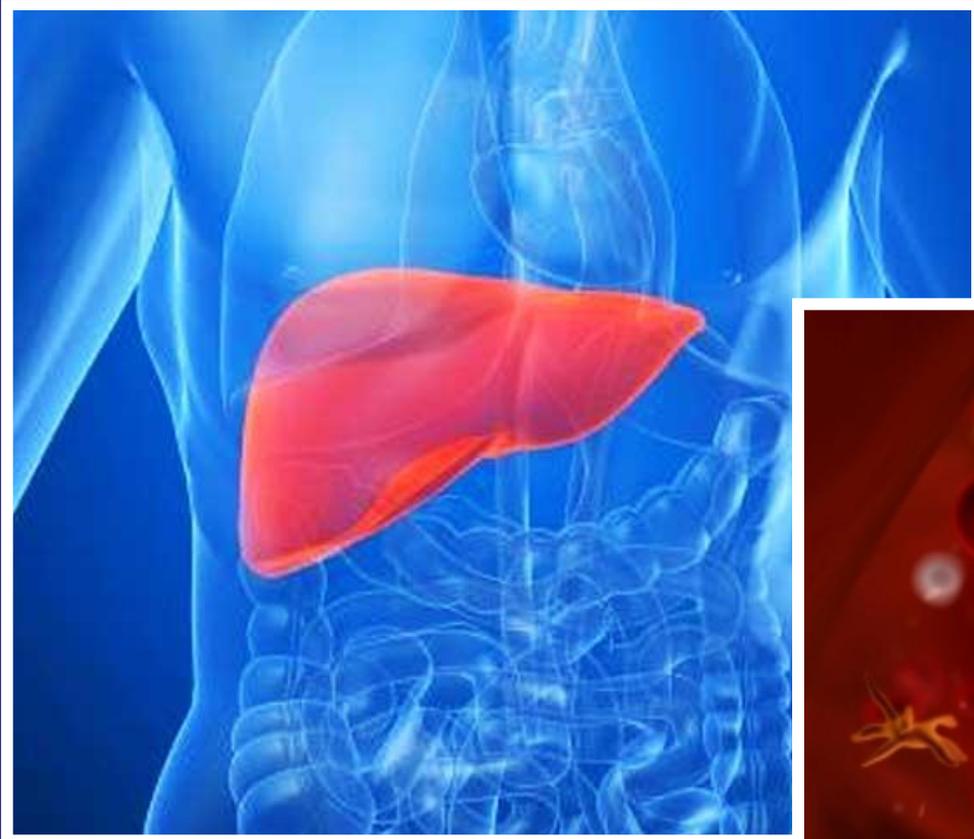
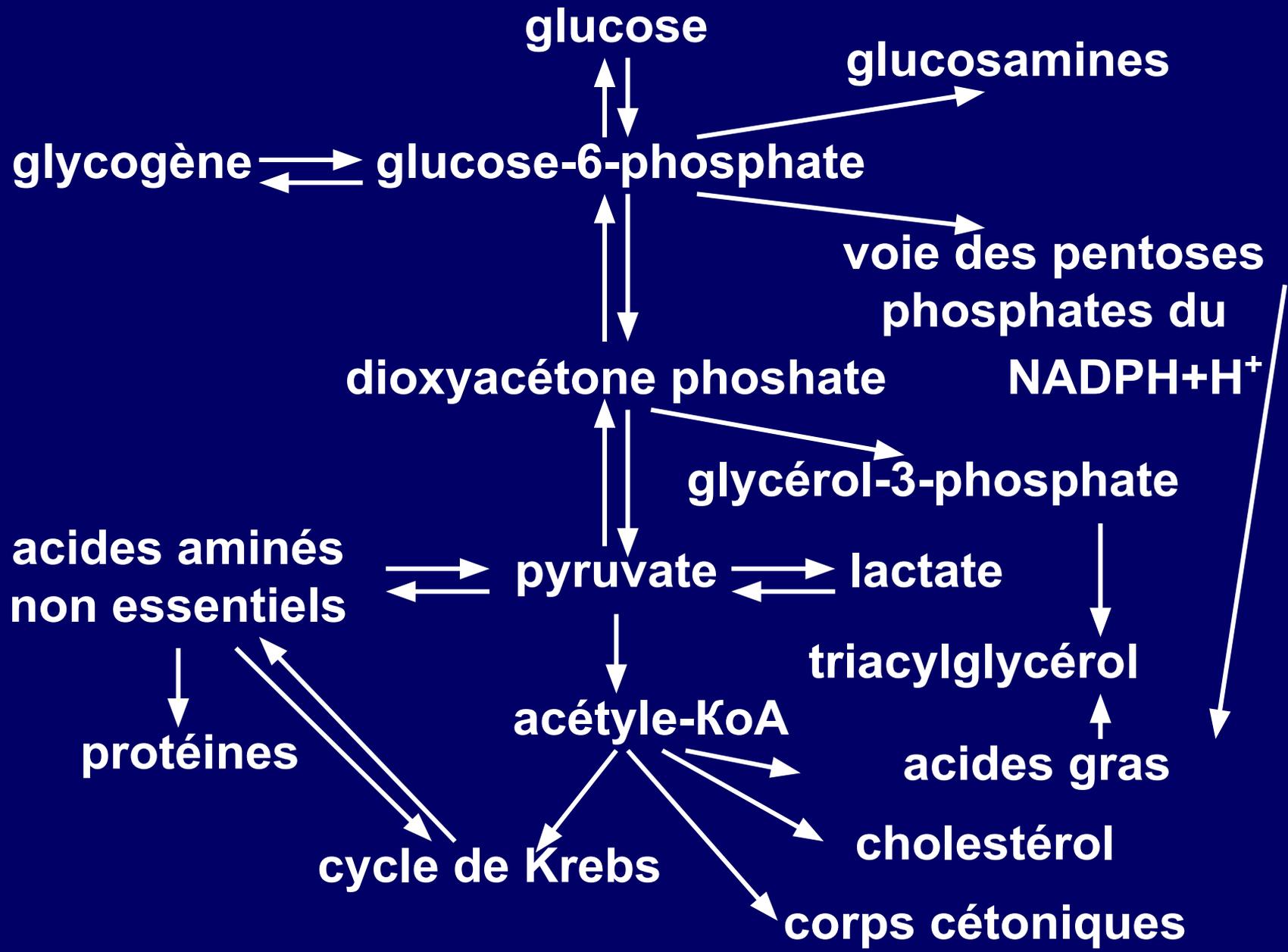
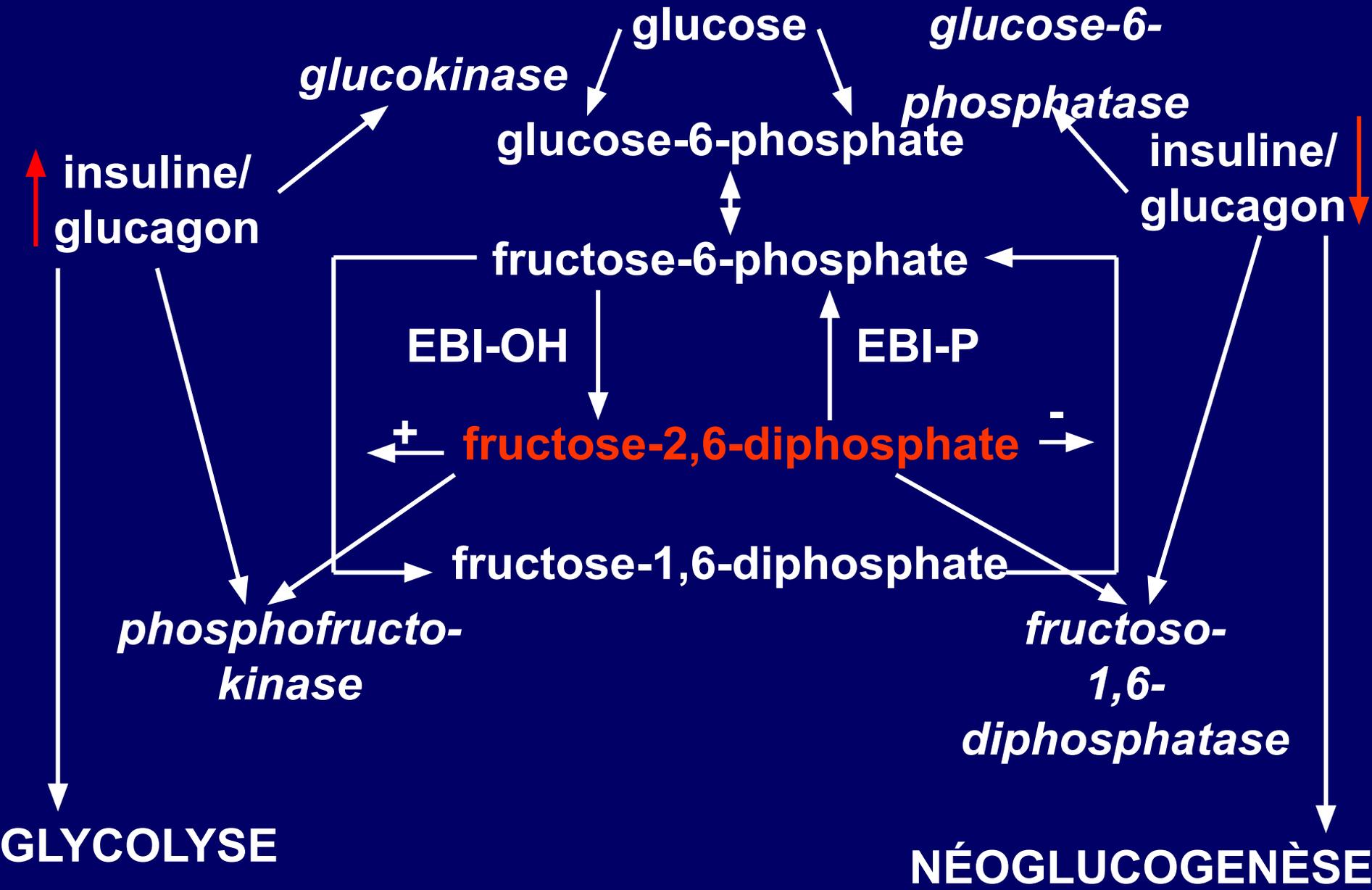


# BIOCHIMIE DU FOIE ET DU SANG

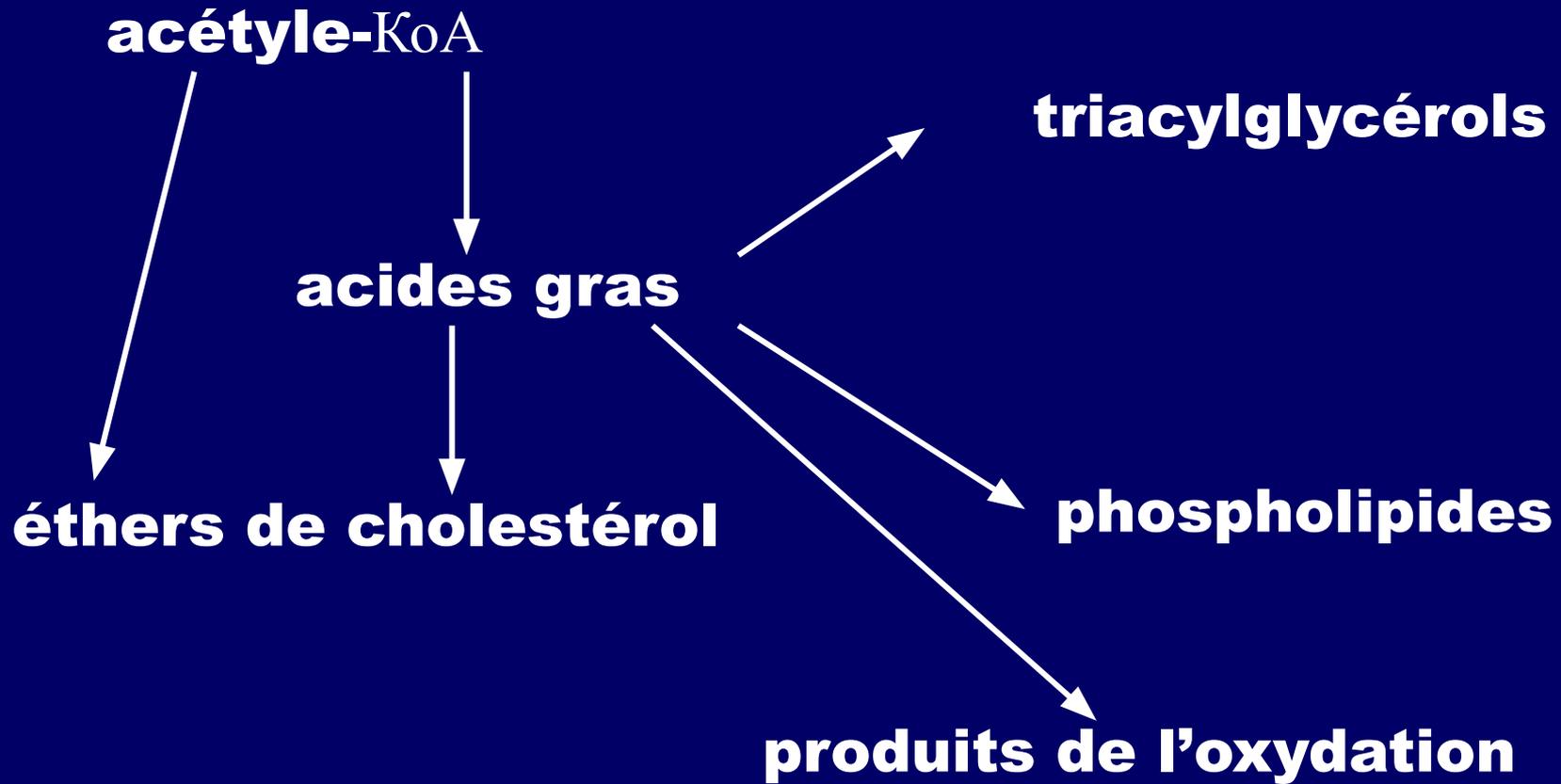


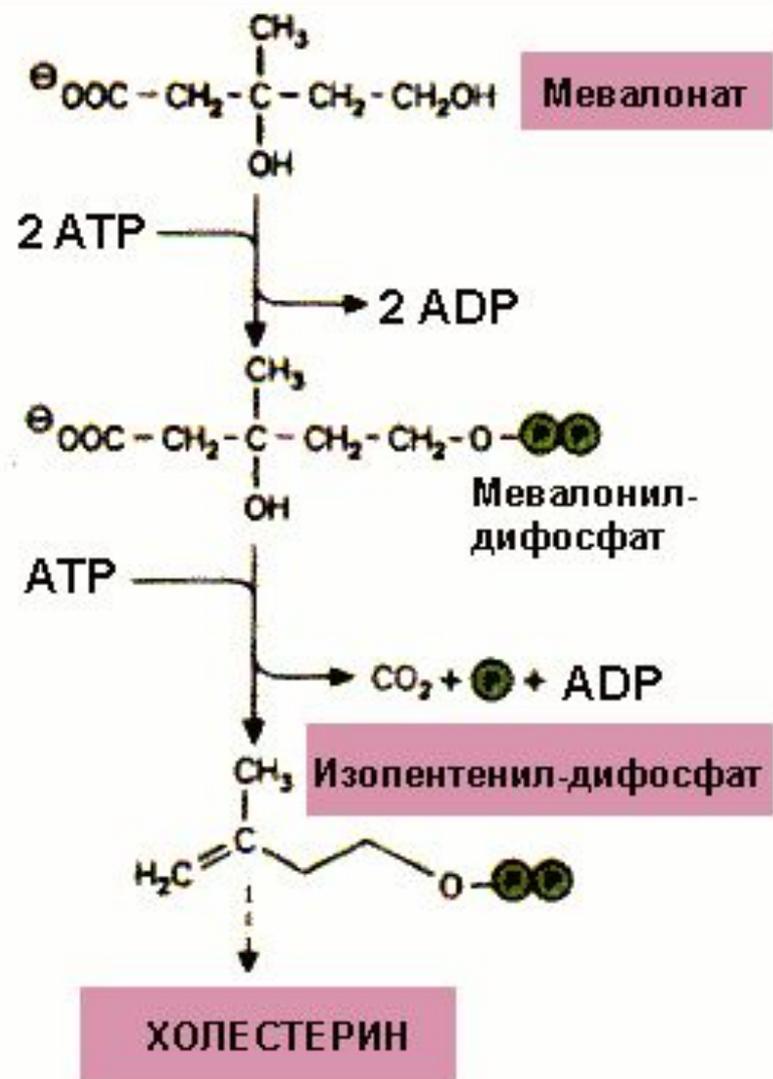
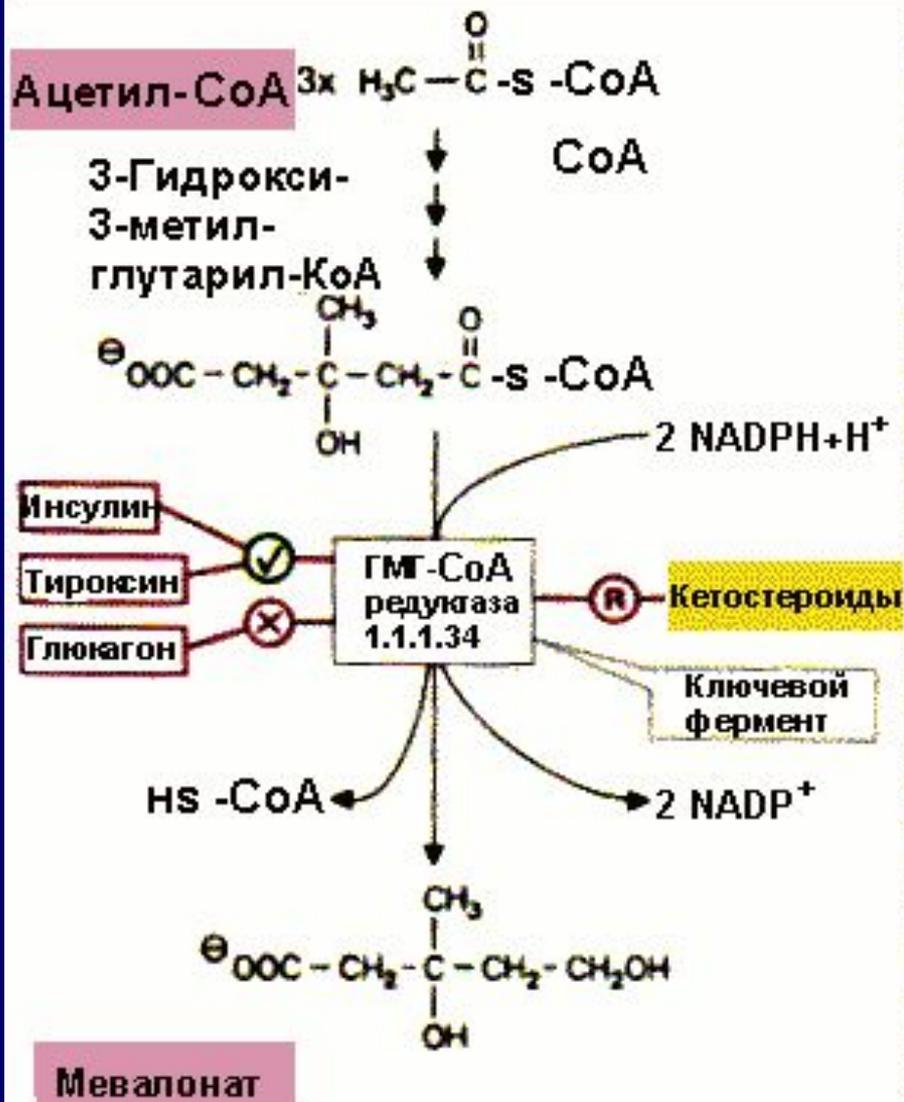
# FOIE ET MÉTABOLISME DES GLUCIDES





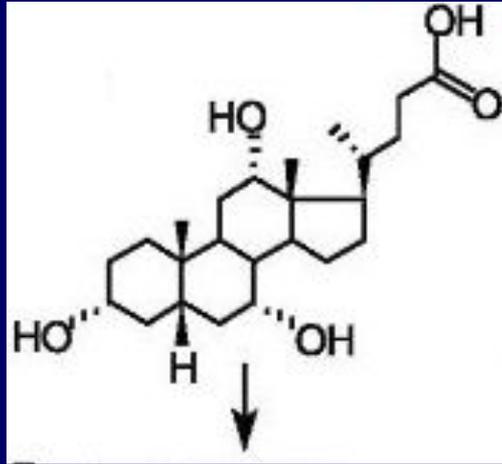
# FOIE ET MÉTABOLISME DES LIPIDES





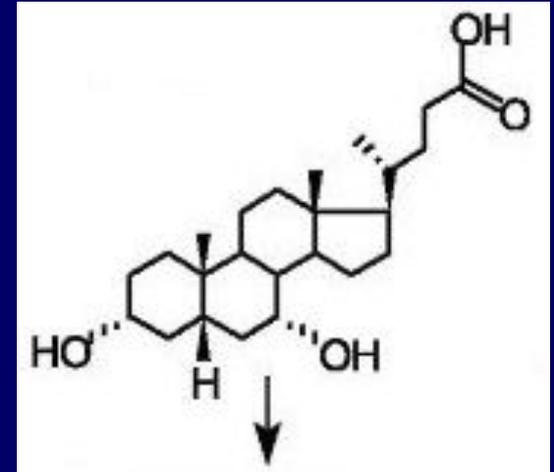
# BILIGENÈSE

**acide  
cholique**

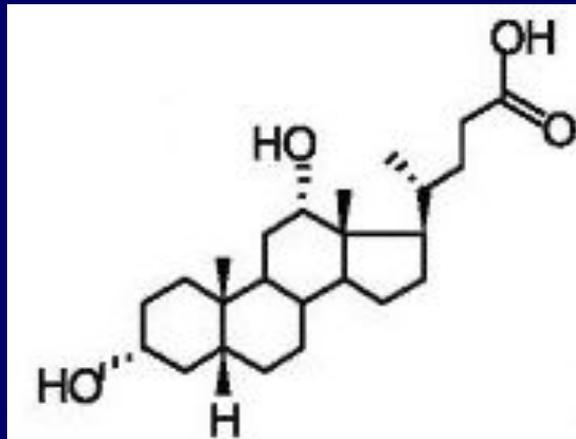


**foie**

**acide  
chénodésoxycholique**

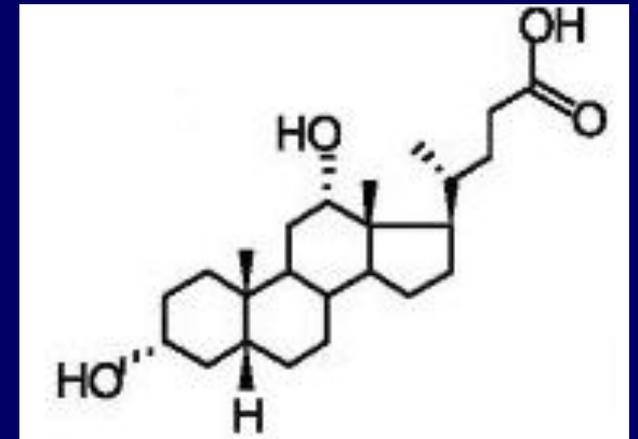


**acide  
désoxycholique**

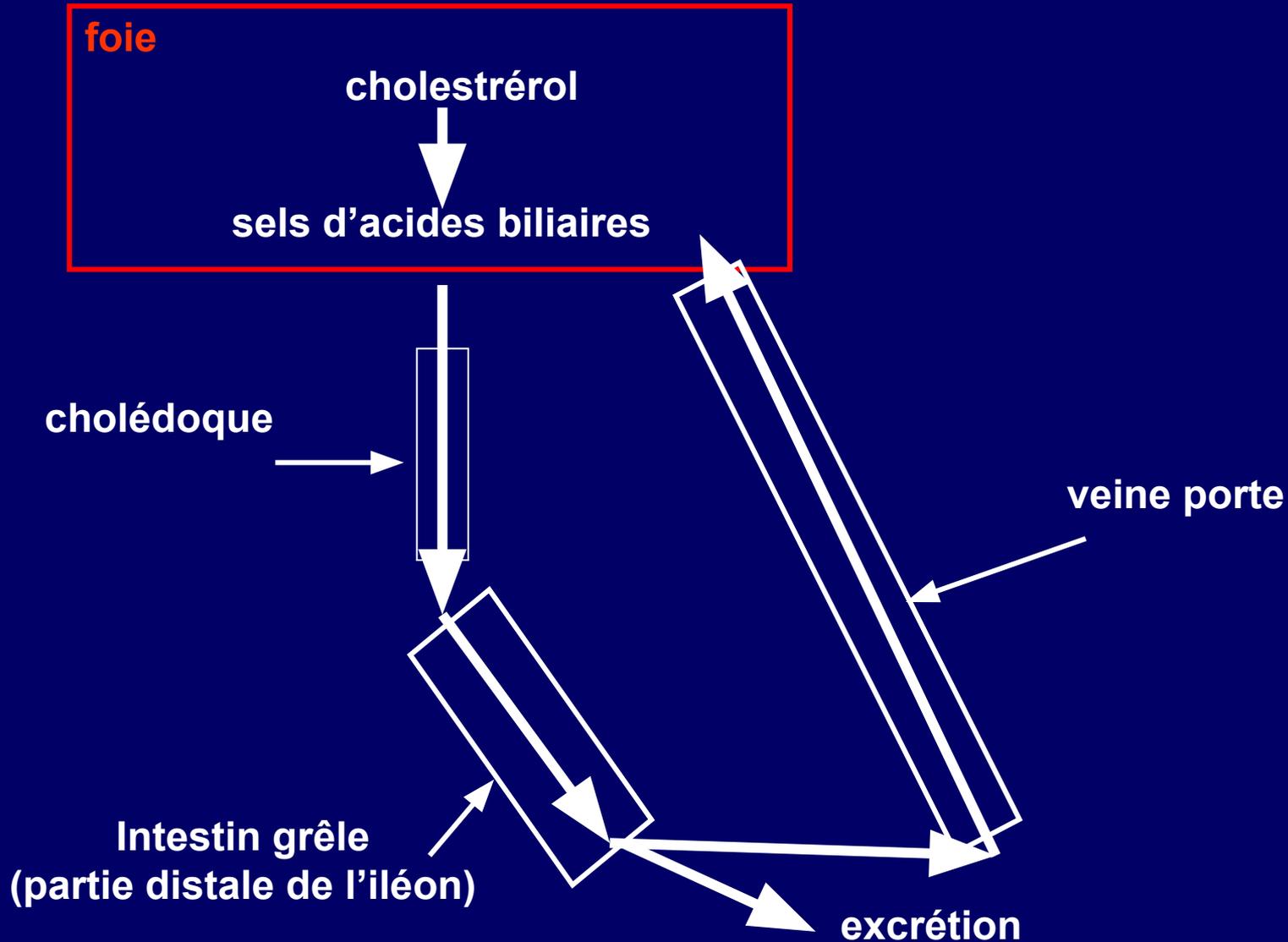


**intestin**

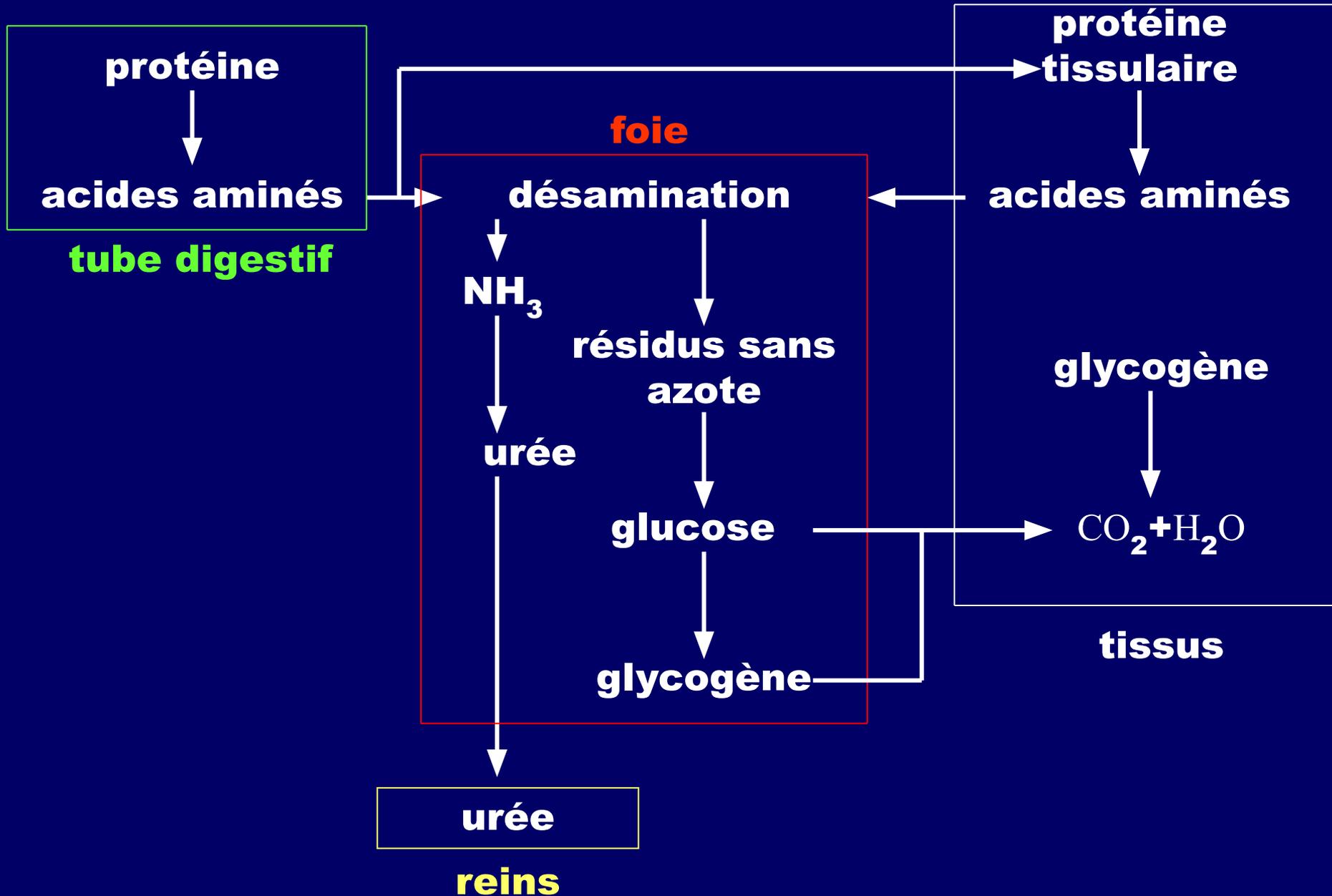
**acide  
lithocholique**



# CIRCULATION ENTÉROHÉPATIQUE DES SELS D'ACIDES BILIAIRES



# FOIE ET MÉTABOLISME DES PROTÉINES



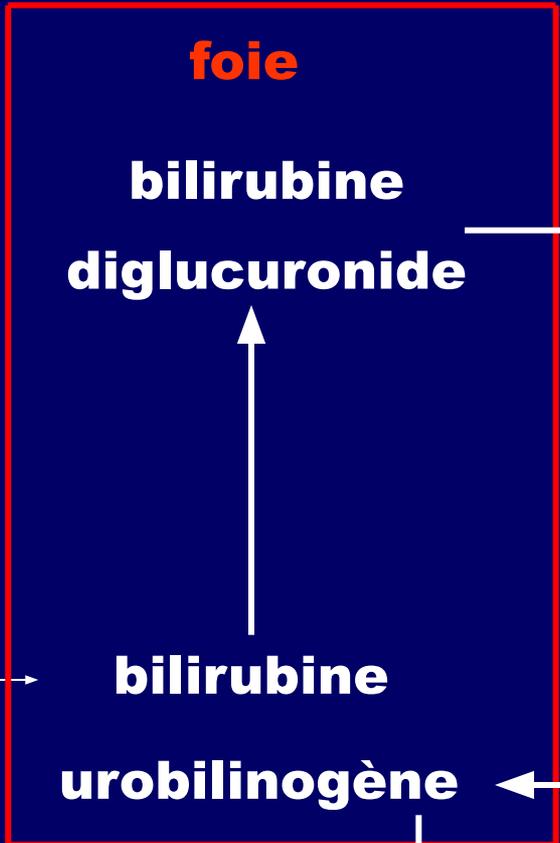
**hémoglobine**



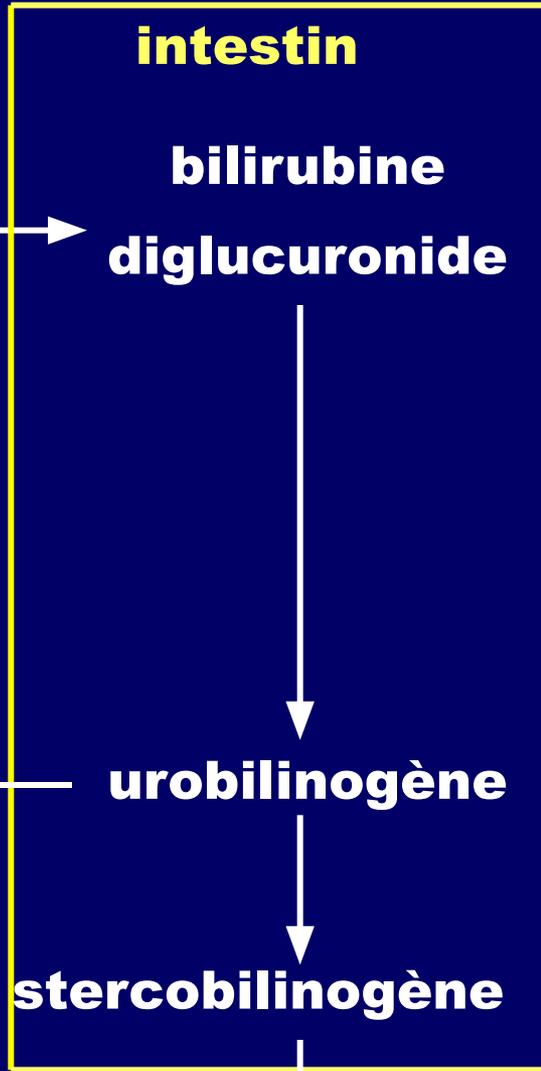
**bilirubine**



**bilirubine  
+  
albumine**



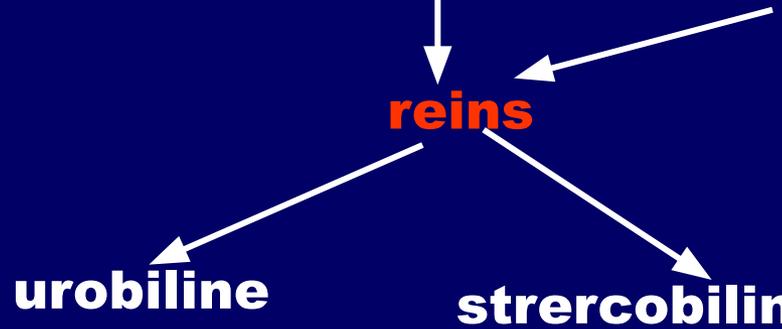
**bile**



**reins**

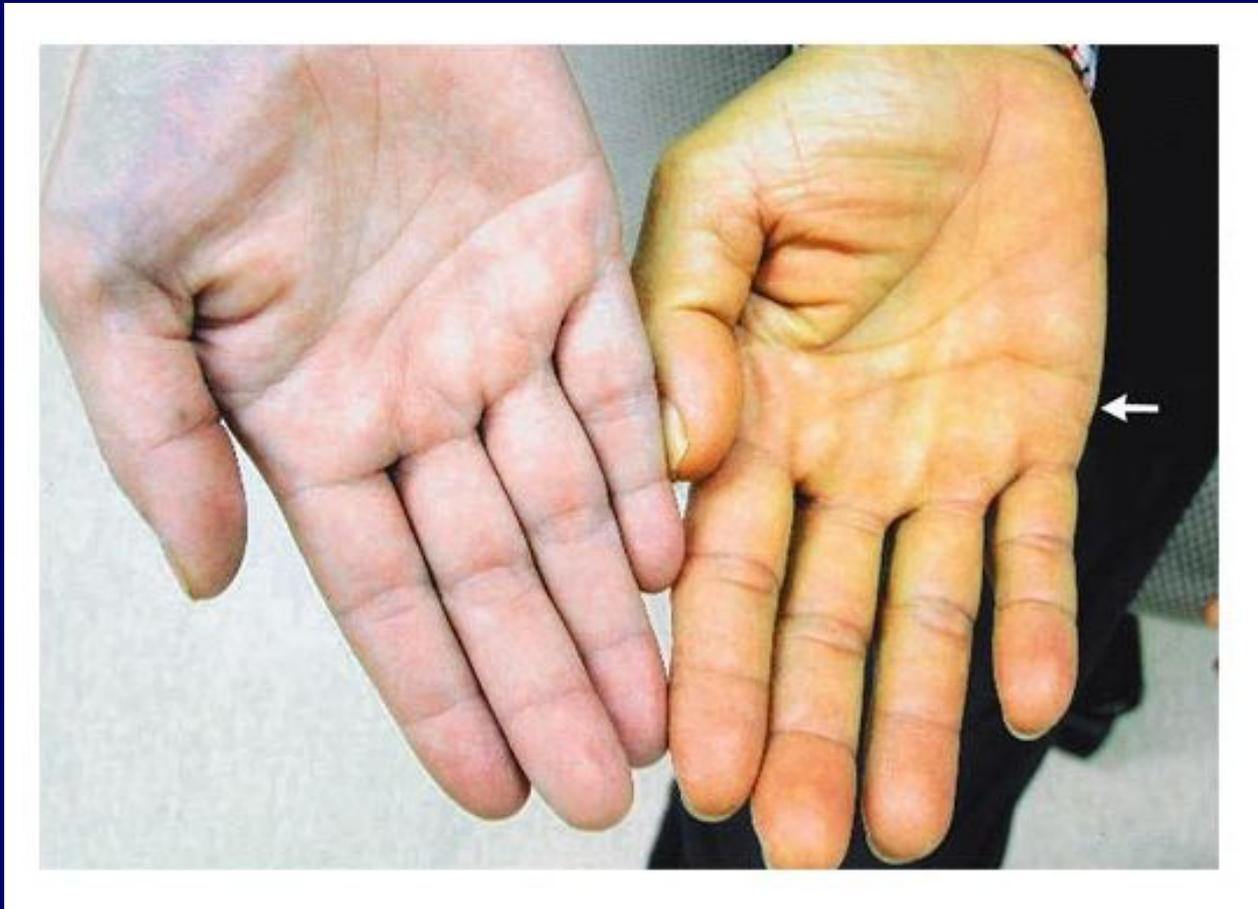
**urobiline**

**stercobiline**





# TYPES D'ICTÈRES



# DIAGNOSTIC DIFFÉRENTIEL

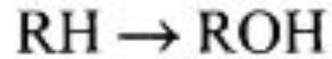
TYPE D'ICTÈRE	SANG			URINE		SELLES
	BILIRUBINE			BILIRUBINE DIRECTE	UROBILINOGENE	STERCIBILINOGENE
	TOTALE	INDIRECTE	DIRECTE			
HÉMOLYTIQUE	↑	↑	N ou ↑	0	+	↑
CYTOLYTIQUE	↑	N ou ↑	↑	↑	0	0
CHOLOSTATIQUE	↑	↑	↑	↑	+	↓

**N – NORME;**  **– AUGMENTATION;**  **– DIMINUTION;**  
**0 – IMPOSSIBLE DE TROUVER;** **+ – POSSIBLE DE TROUVER**

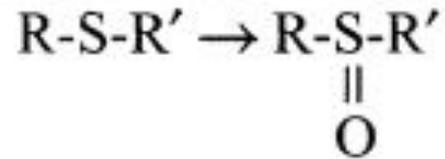
# FONCTION DE DÉTOXIFICATION DU FOIE

## I PHASE

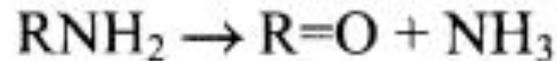
**hydroxylation**



**sulfoxydation**



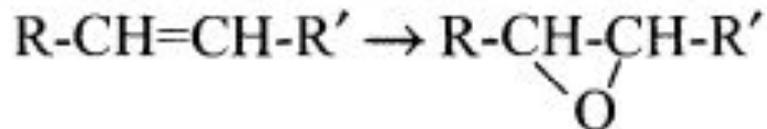
**désamination  
oxydative**

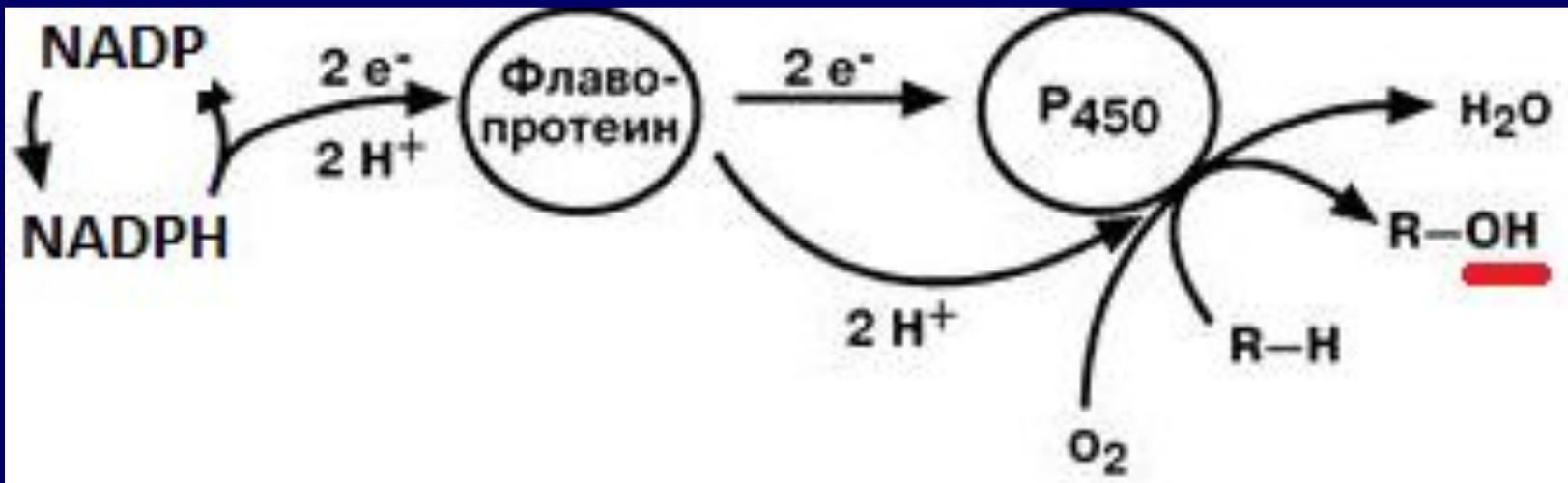


**désalkylation  
de N, O, S**

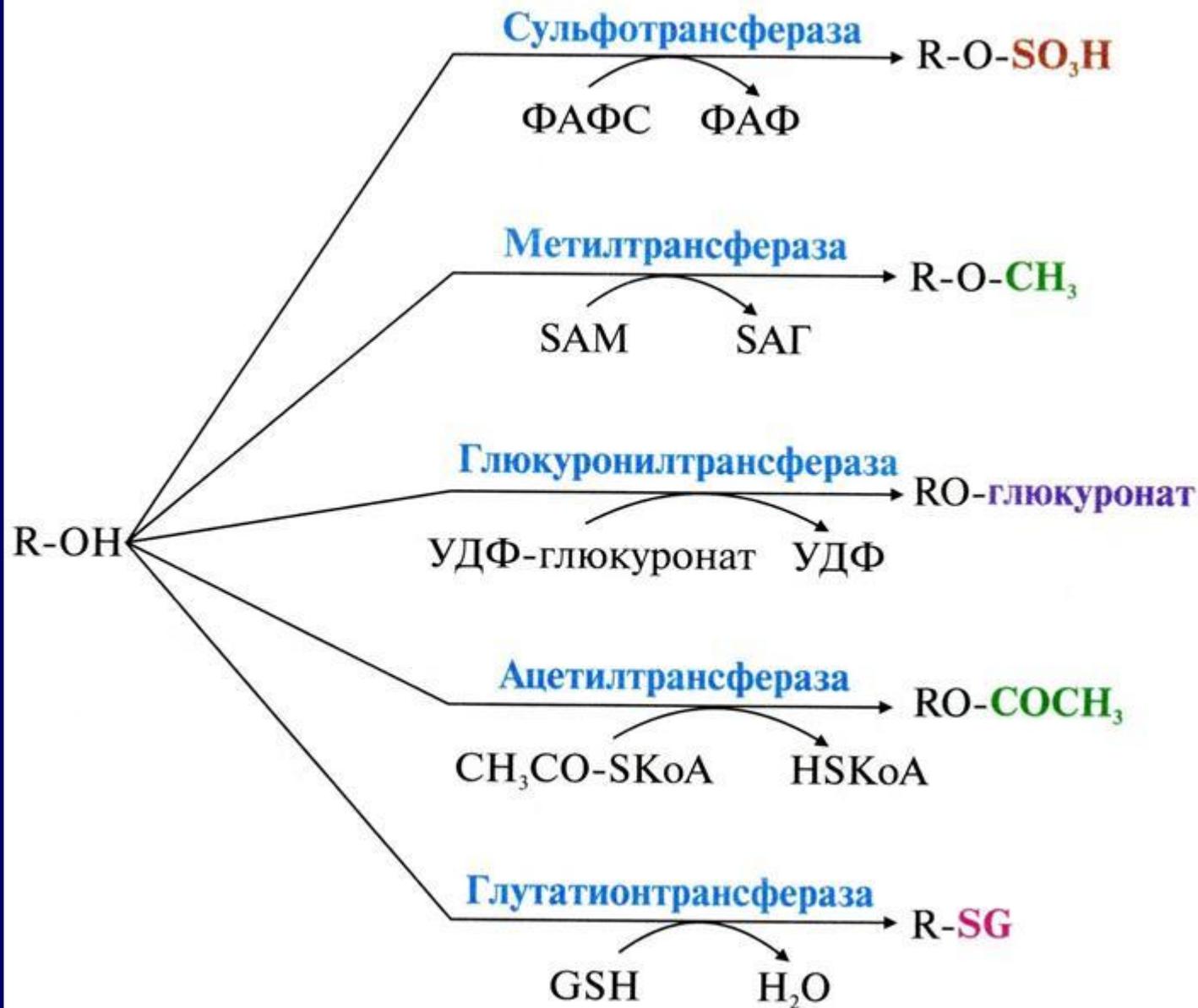


**époxydation**

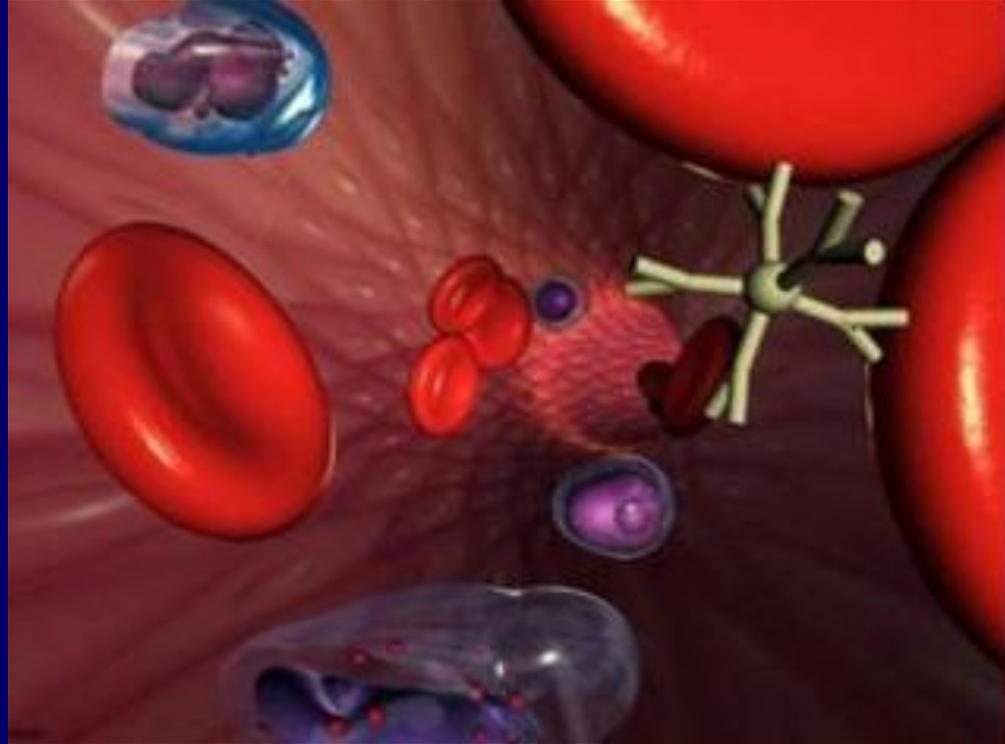




## II PHASE (CONJUGAISON)

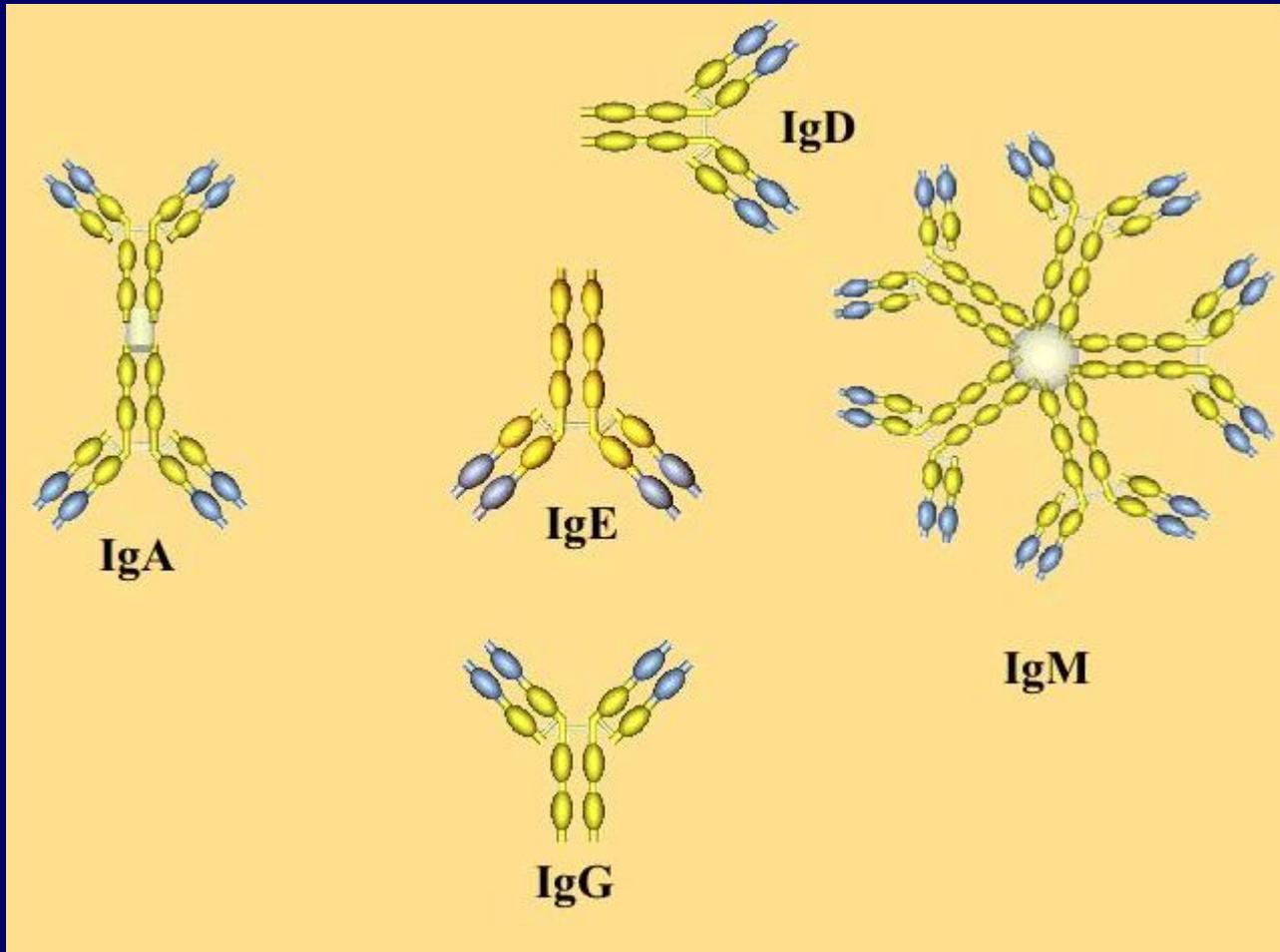


# BIOCHIMIE DU SANG

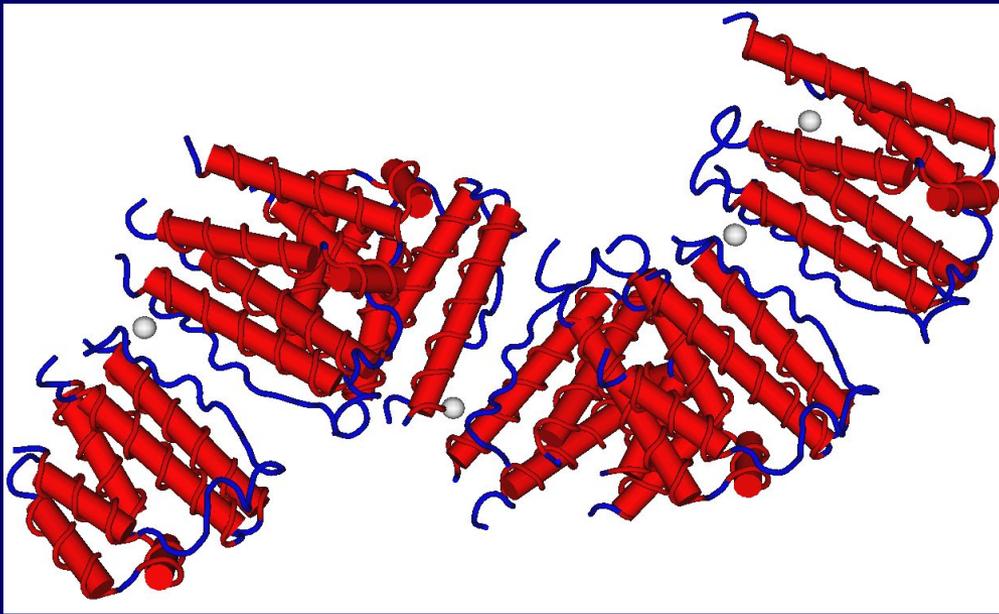




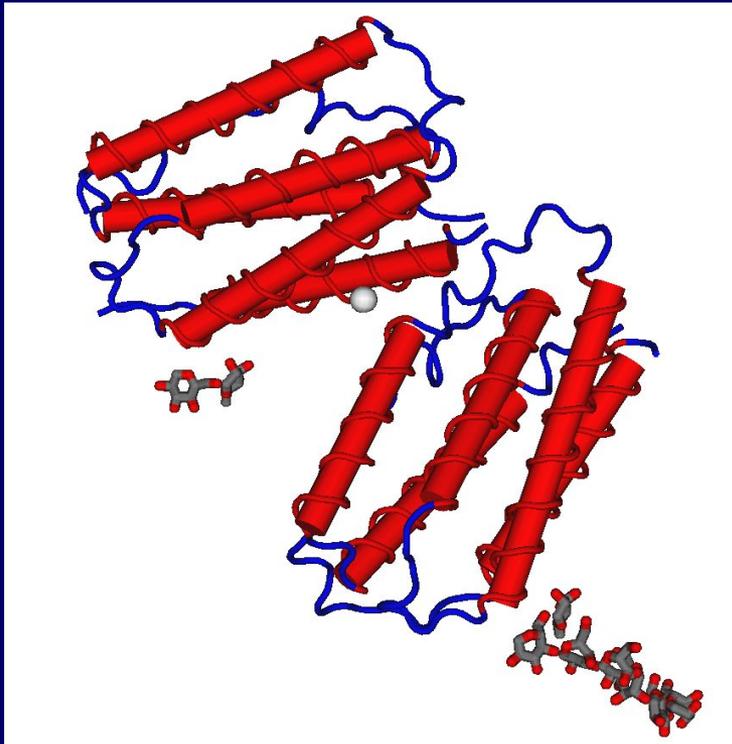
# ALBUMINE



# IMMUNOGLOBULINES

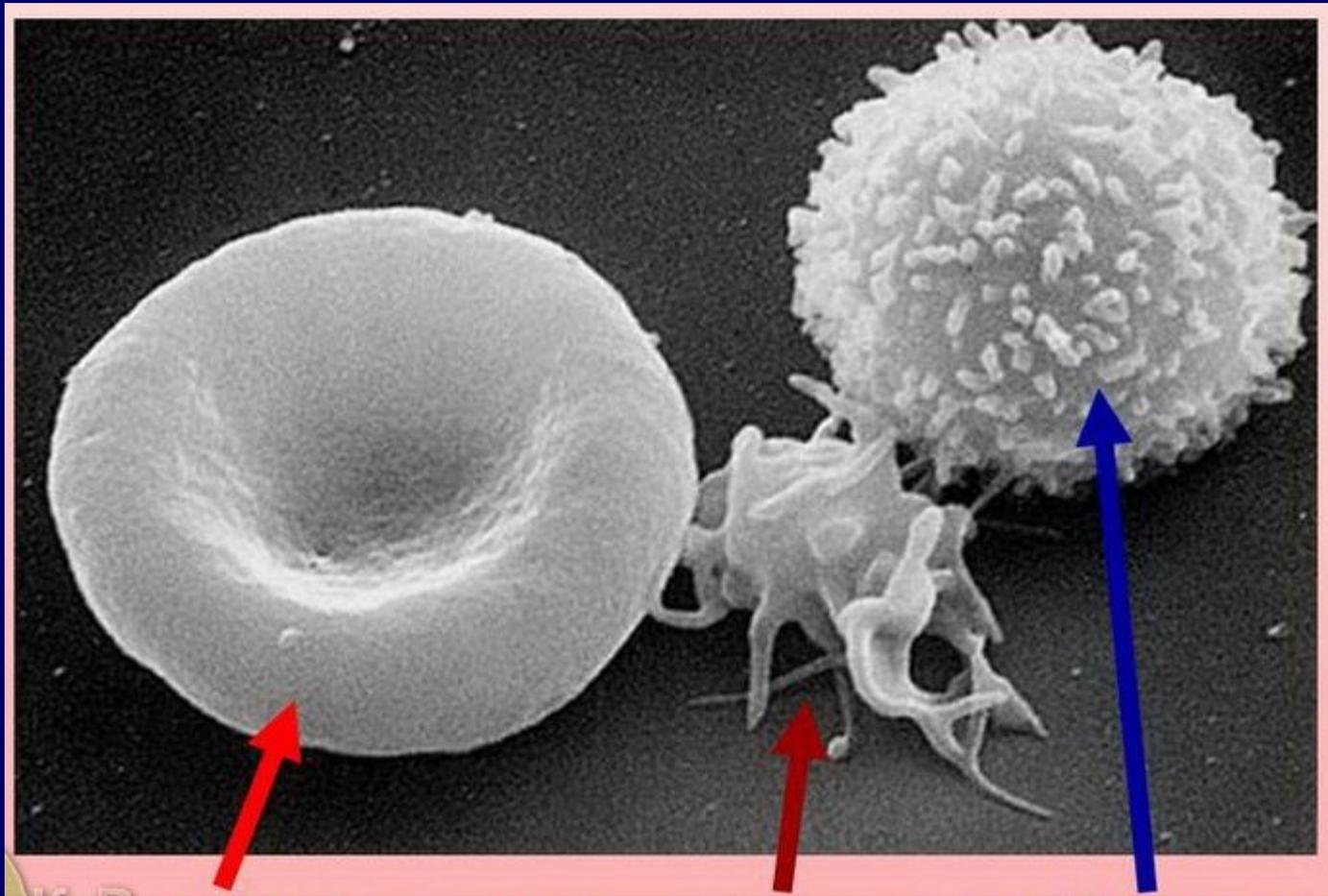


**INTERFÉRON  $\alpha$**



**INTERFÉRON  $\beta$**

# CELLULES SANGUINES



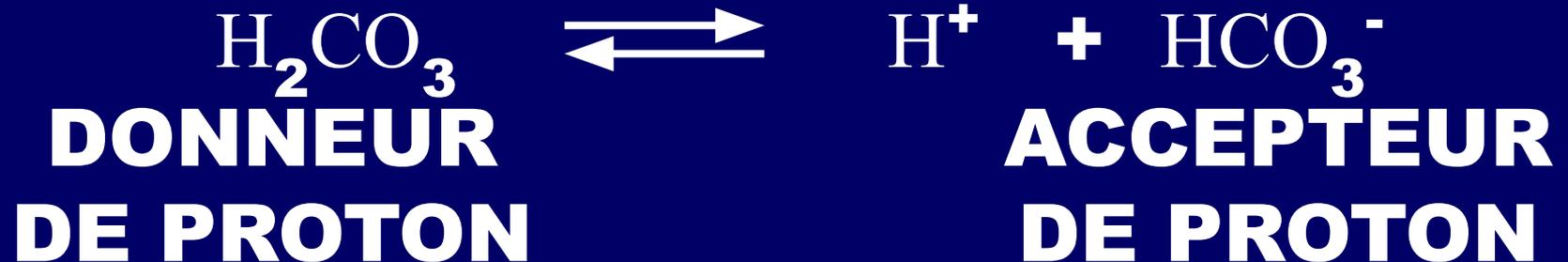
**ÉRYTHROCYTE**

**THROMBOCYTE**

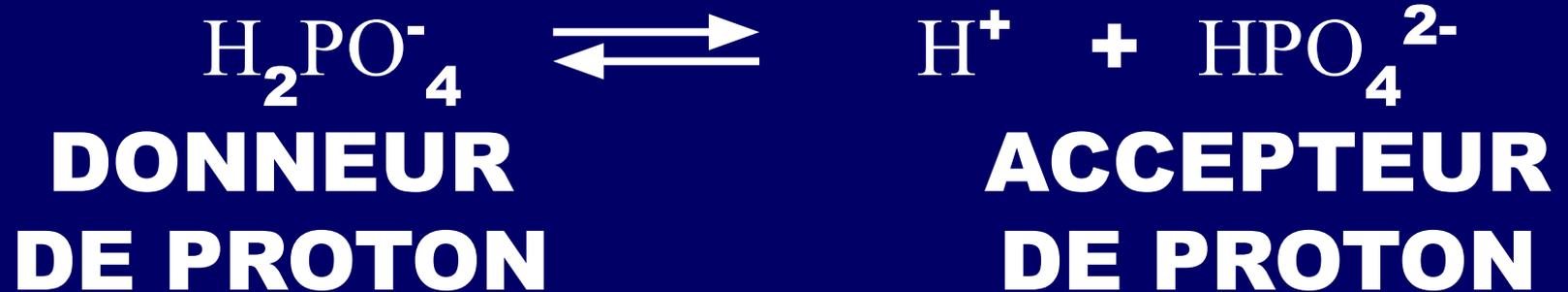
**LEUCOCYTE**

# SYSTÈMES TAMPONS DU SANG

## - BICARBONATE:

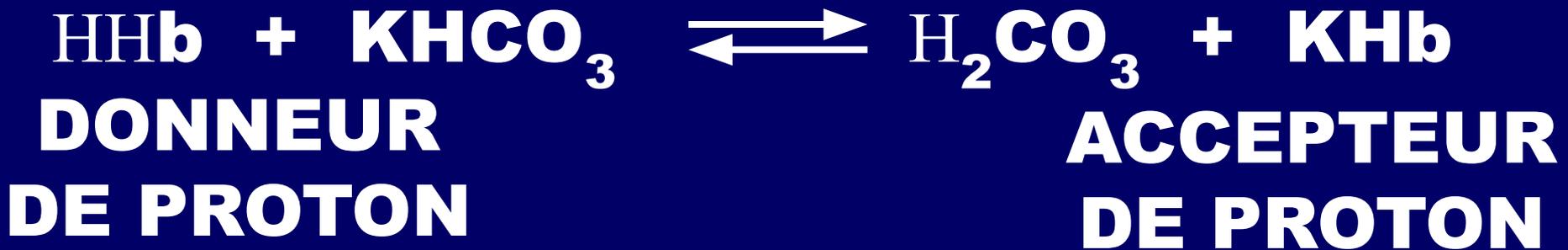


## - PHOSPHATE:

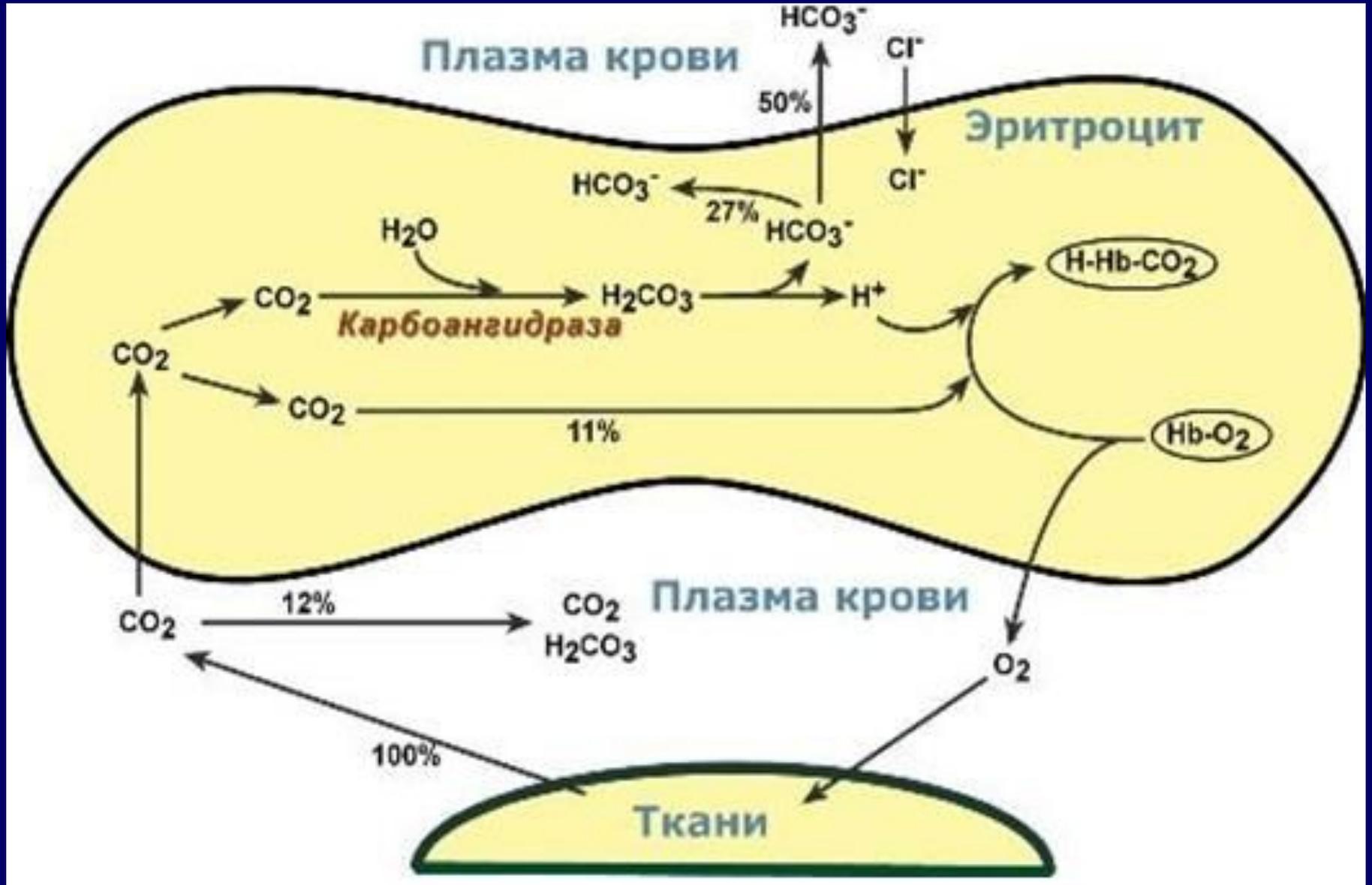


**- PROTÉIQUE;**

**- HÉMOGLOBINE:**

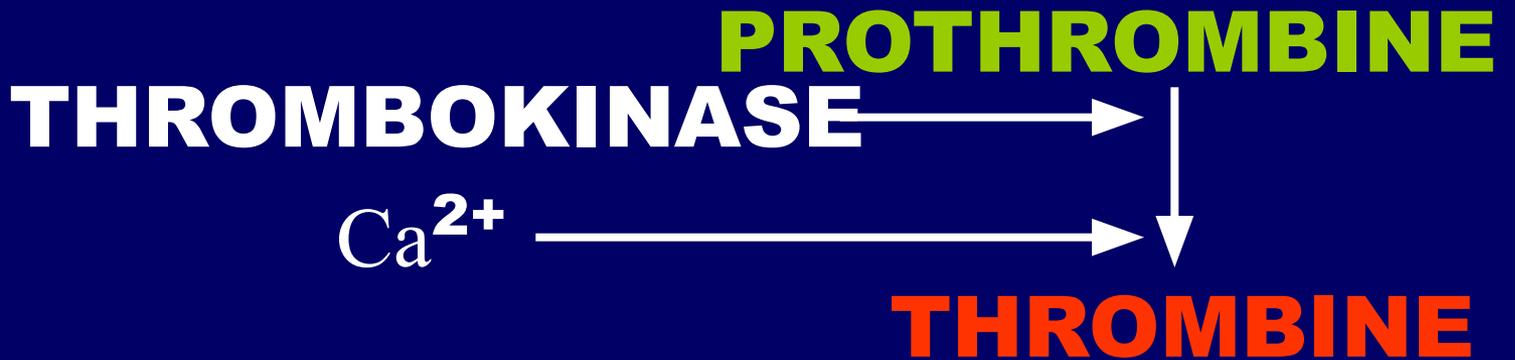


# FONCTION RESPIRATOIRE DU SANG

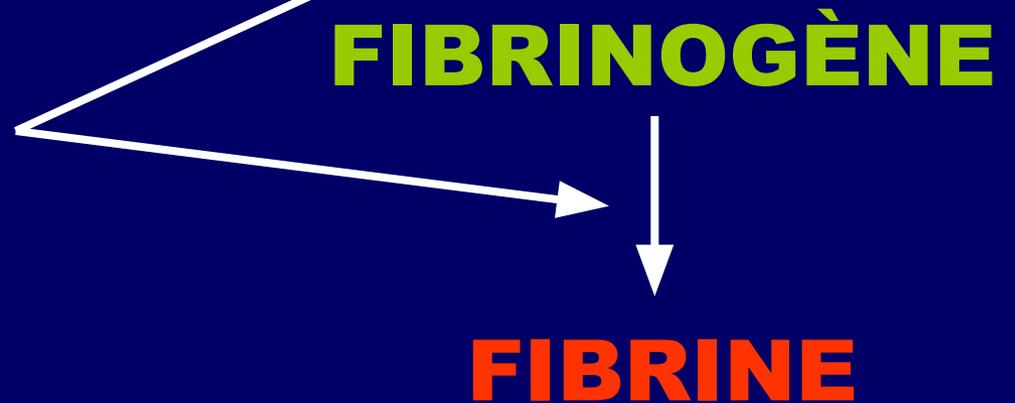


# THÉORIE DE SCHMIDT-MORAWITZ

I  
PHAS  
E



II  
PHAS  
E



**systeme interne  
(perte du sang)**



**contact avec la surface  
thrombocyte/collagène  
+  
prekallikréine+ kininogène**

**XII (Hageman)**

**XII a**

**surface du thrombocyte**

**XI (Rosenthal)**

**XI a**

**IX (facteur Christmas)**

**IX a**

**IV (Ca<sup>2+</sup>)**

**systeme externe  
(affection du tissu)**



**III (thromboplastine)**



**III a**

**v**

**(proaccélérine)**

**v a**

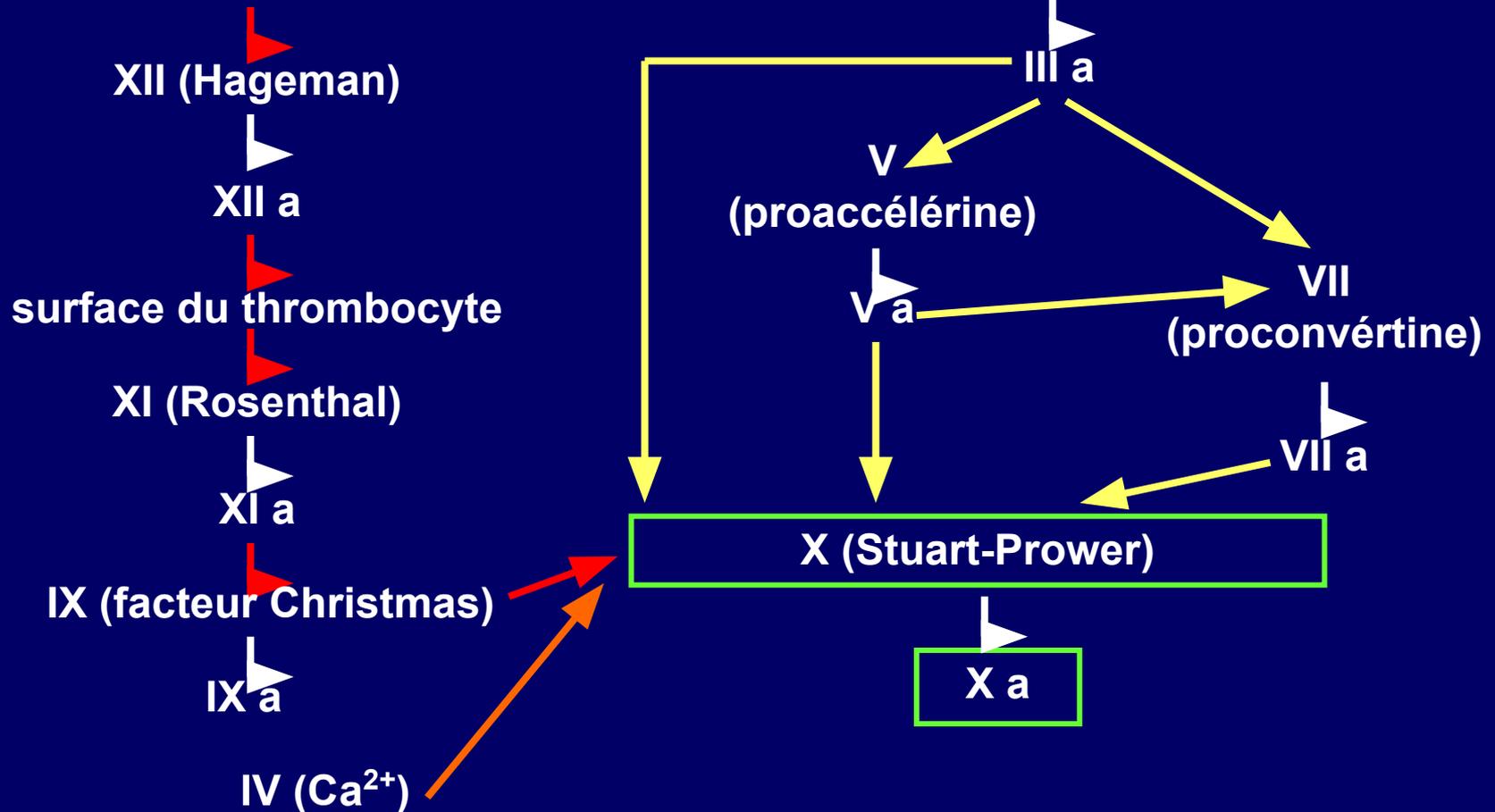
**VII**

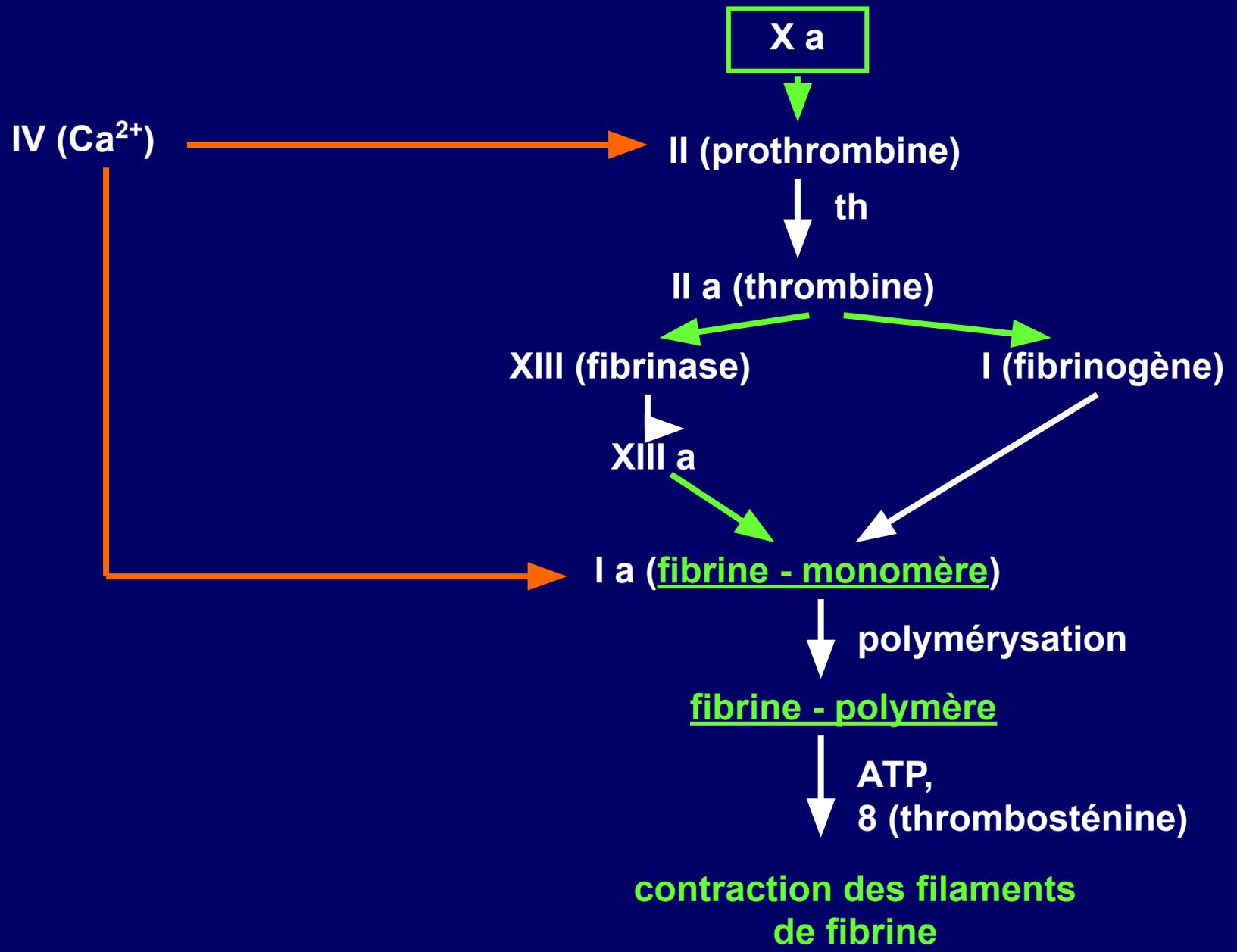
**(proconvértine)**

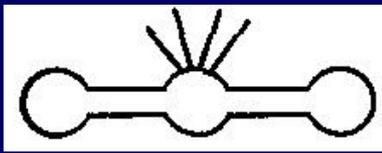
**VII a**

**X (Stuart-Prower)**

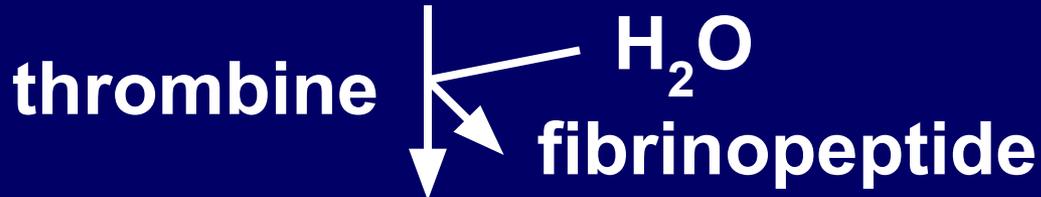
**X a**



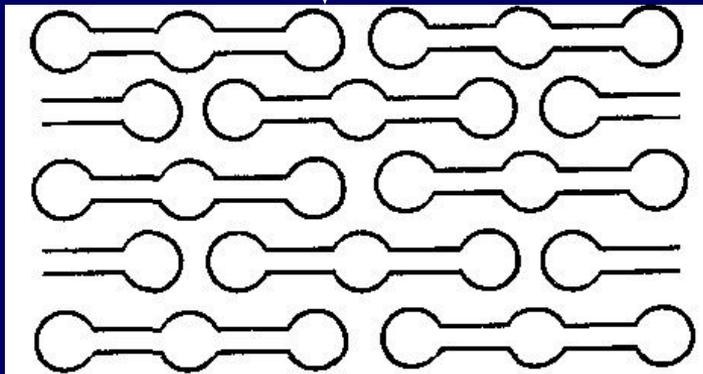




fibrinogène



monomère de fibrine



gel de fibrine

**FORMATION**  
**DE THROMBUS**  
**FIBRINEUX**

**Hémophilie** est une maladie héréditaire caractérisée par des hémorragies récurrentes et difficiles à arrêter à cause du manque de facteurs de coagulation:

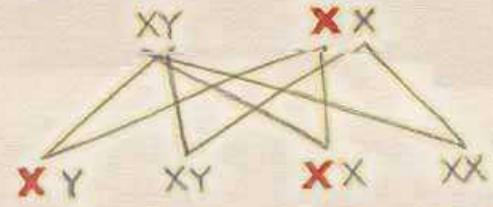
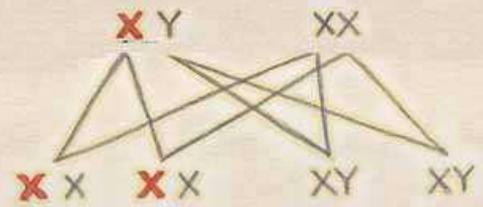
**hémophilie A** – facteur VIII;

**hémophilie B** – facteur IX;

**hémophilie C** – facteur XI.



отец болен мать здорова      отец здоров мать носитель



дочь носитель (100%)

сын здоров (100%)

сын болен (50%)

дочь носитель (50%)



# **SYSTÈME ANTICOAGULANT:**

**- MÉCANISME**

**«ANTITHROMBINE/ HÉPARINE»;**

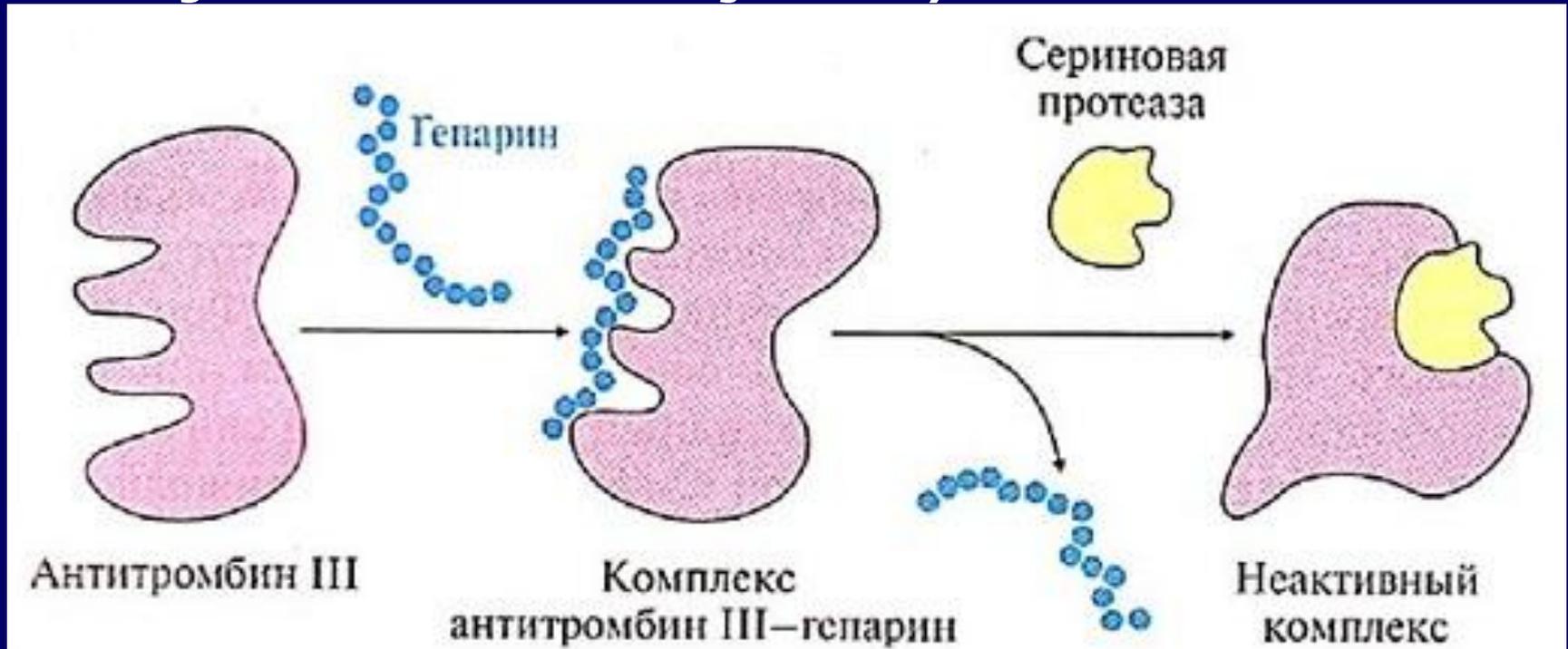
**- FIBRINOLYSE;**

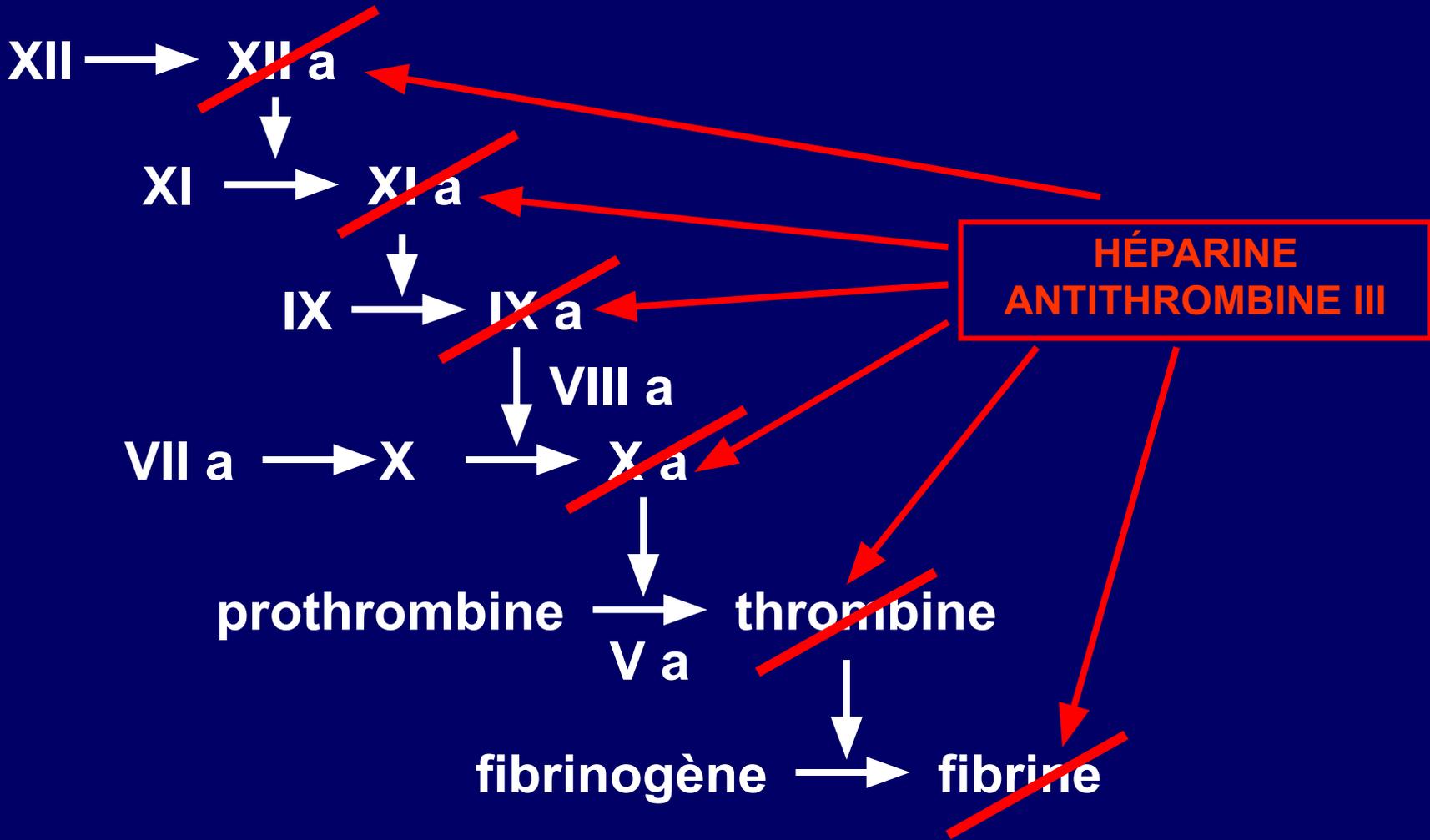
**- VOIE ANTICOAGULANTE**

# МЭКАНИЗМЕ «ANTITHROMBINE/ HЭПАРИНЕ»

## ATITHROMBINE III :

- протэине ду plasma sanguin, qui inactive les протэазес де сэринэ: thrombine, IX a, Xa, XII a, plasmine, kallicрэине;
- activateur де l'antithrombine – héпарине (mastocytes ду tissu conjonctif).



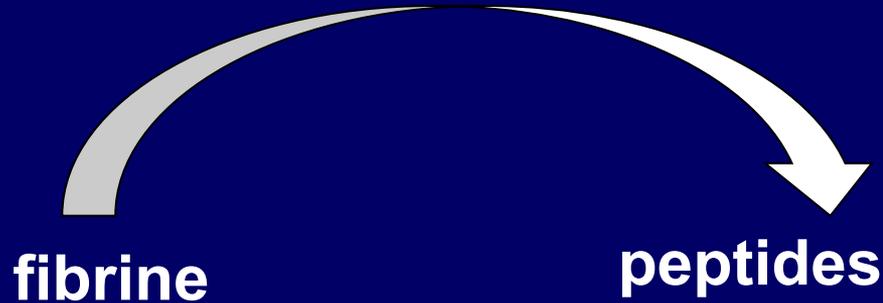
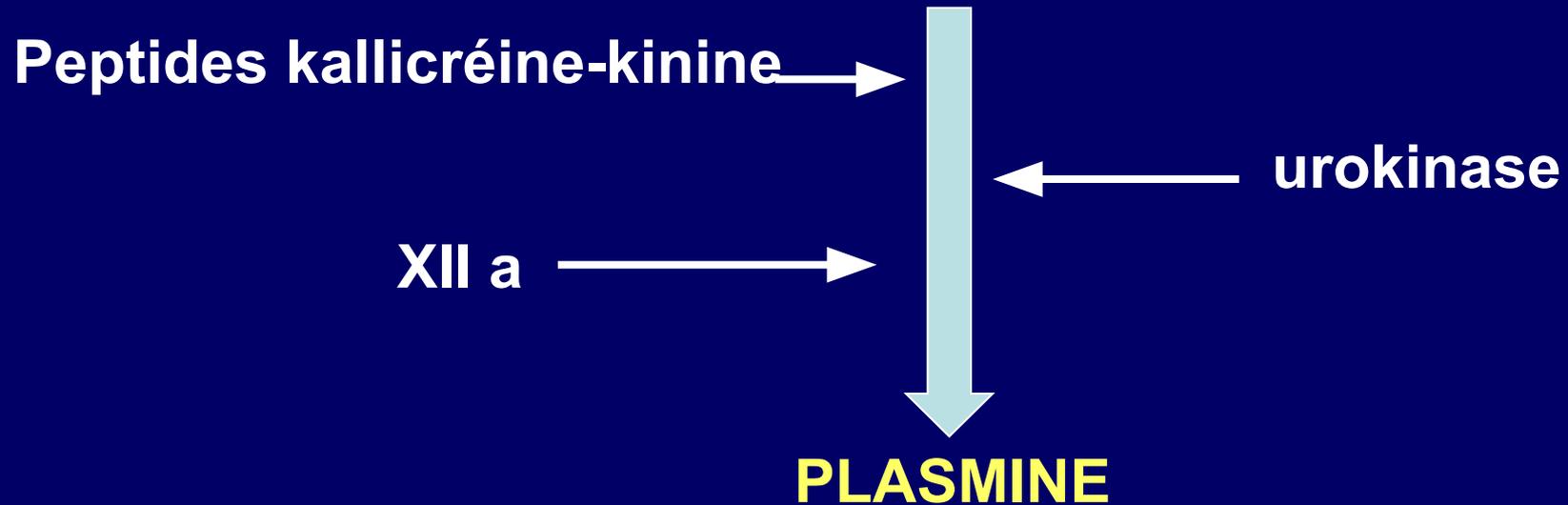


# FIBRINOLYSE

VOIE INTERNE

VOIE EXTERNE

**PLASMINOGENÈ**



# VOIE ANTICOAGULANTE

THROMBINE + THROMBOMODULINE



PROTÉINE C



PROTÉINE ACTIVÉE C



~~VIII a~~



~~V a~~