
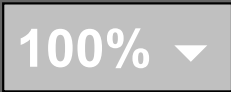



Tissue Factor Pathway (Extrinsic) with Common Pathway (Prothrombin Time)





Marlies Ledford-Kraemer,
MBA, BS, MT(ASCP)SH

How to Use These Slides

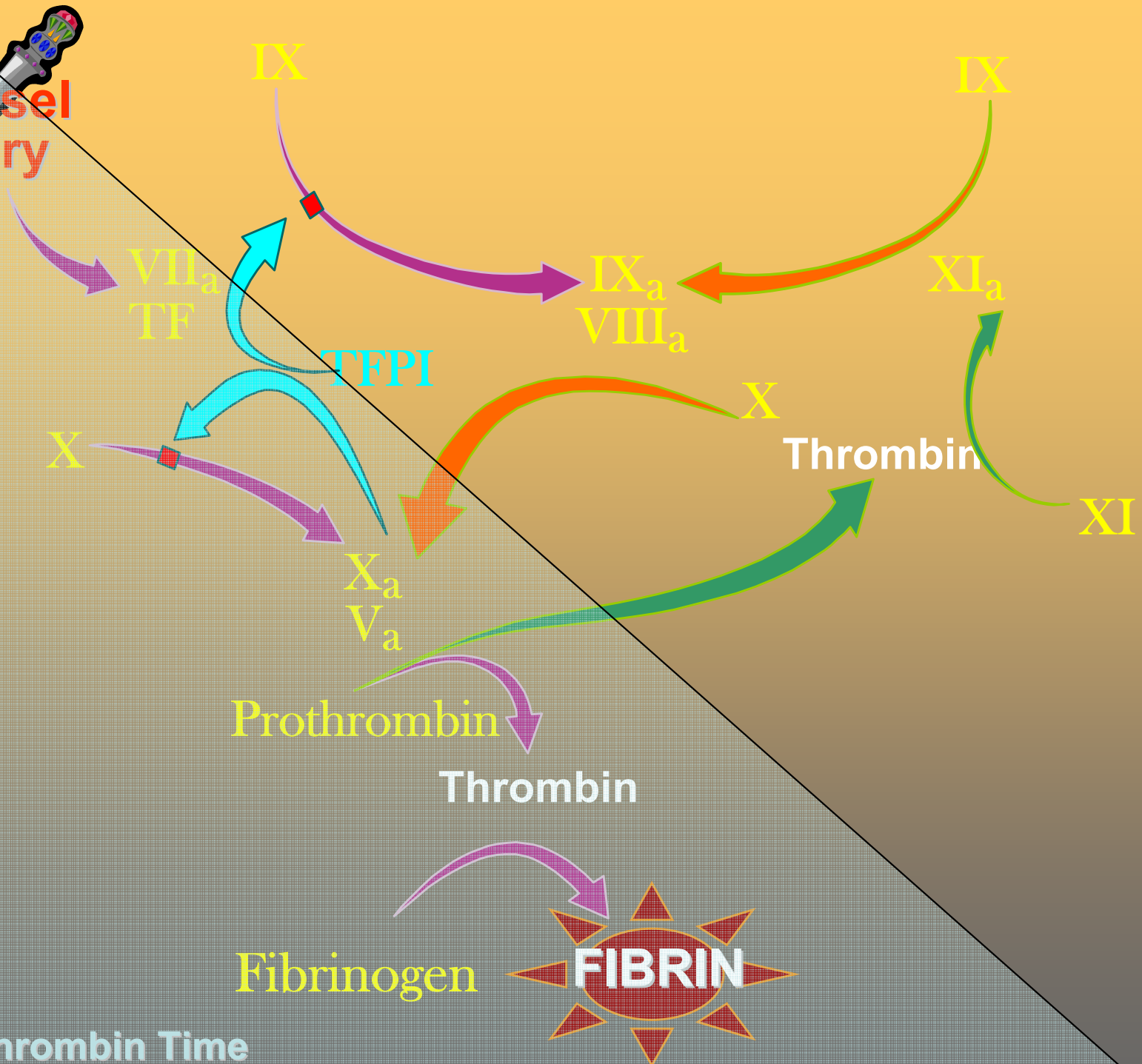
- On Adobe toolbar,    click down & choose "Fit Page" for correct viewing size
- Slide 3 provides you with a legend for all symbols used in the pathway slides that follow
- Slide 4 shows you the entire pathway to be featured in this series
- The remainder of the slides show you the pathway in sequential order so that you can follow each step in the process
 - Advance slides slowly to closely follow each addition
 - Advance slides quickly and you will be able to see a "cascading" effect

Symbol	Name
FXII	Factor XII
FXII _a	Activated FXII
HMWK	High Molecular Weight Kininogen
FXI	Factor XI
FXI _a	Activated FXI
FIX	Factor IX
FIX _a	Activated FIX
FVIII _a	Activated Factor VIII
FX	Factor X
FX _a	Activated FX
FV _a	Activated Factor V
TFPI	Tissue Factor Pathway Inhibitor

Symbol	Name
	Inhibits
	"converts", "gives rise to", "yields"



Vessel Injury



Prothrombin Time

Adapted from Broze, Semin Hematol 1992;29:159-69





Vessel
Injury



VII_a
TF



**Vessel
Injury**

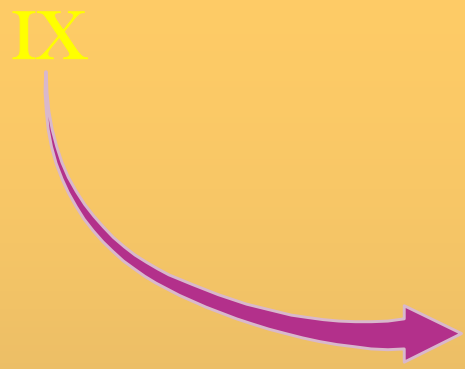
IX

VII_a
TF

X



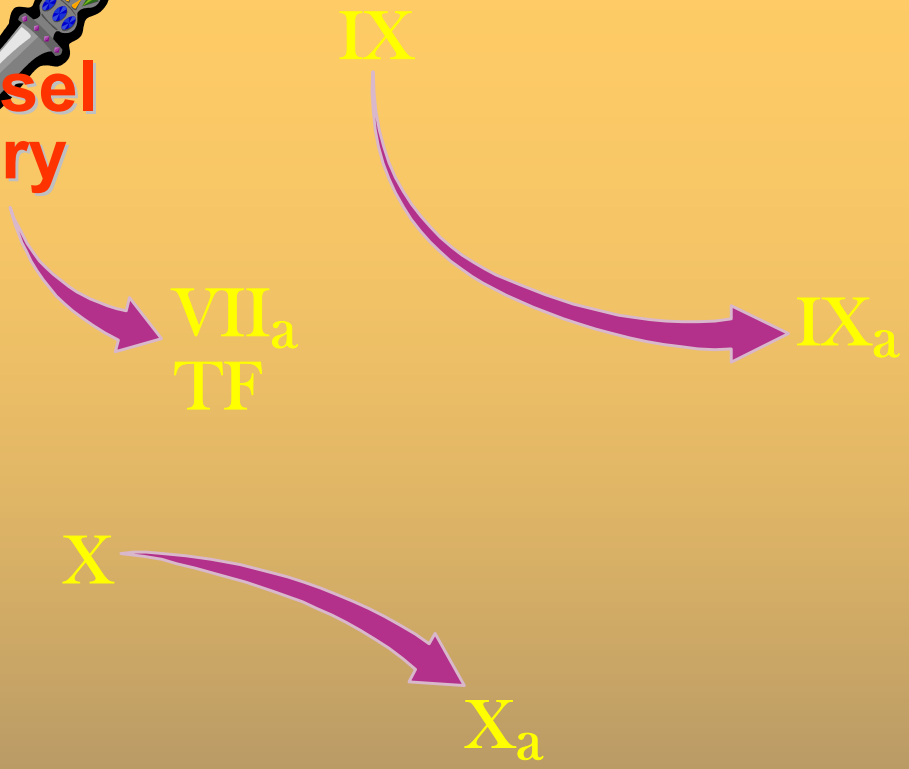
VII_a
TF



IX

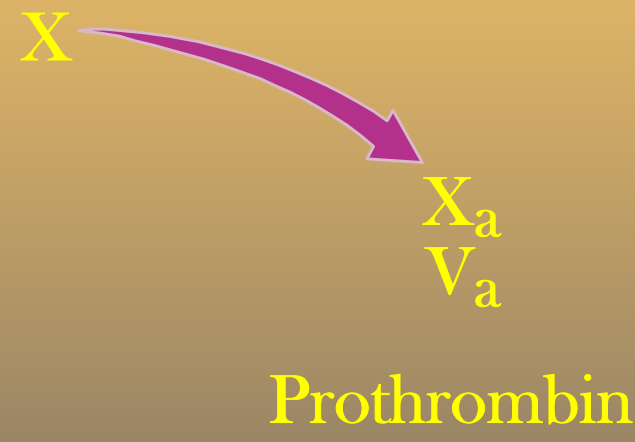
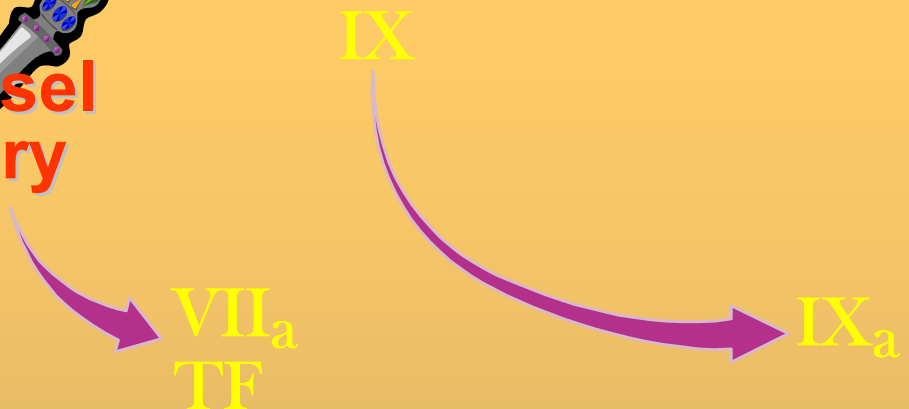


X





Vessel
Injury





Vessel Injury

IX

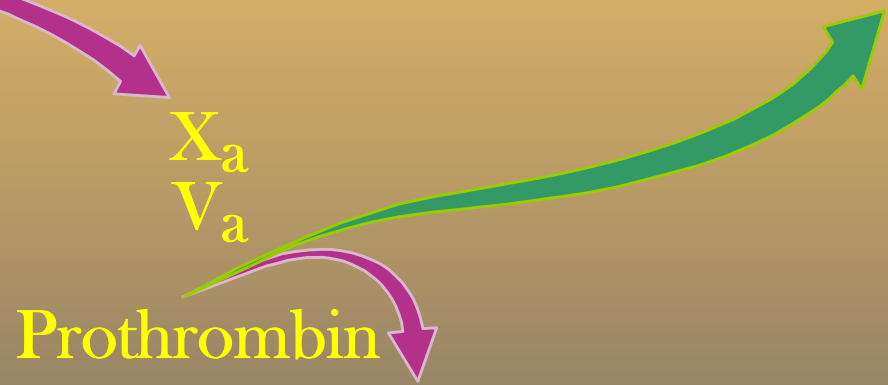
VII_a
TF

IX_a

X

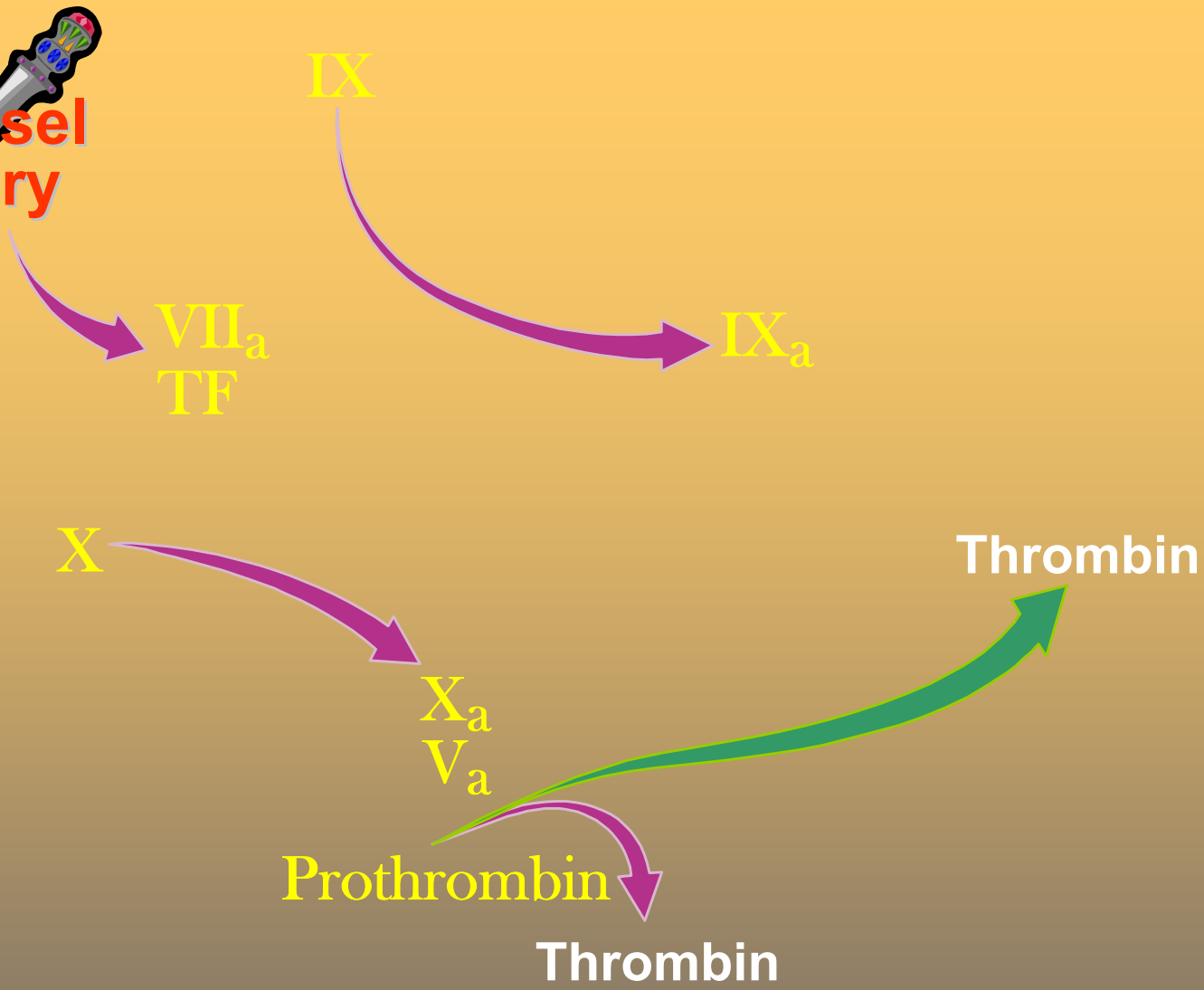
X_a
V_a

Prothrombin





Vessel Injury



VII_a
TF

IX

IX_a

X

Thrombin

X_a
V_a

Prothrombin

Thrombin



Vessel Injury

IX

VII_a
TF

IX_a

X

X_a
V_a

Thrombin

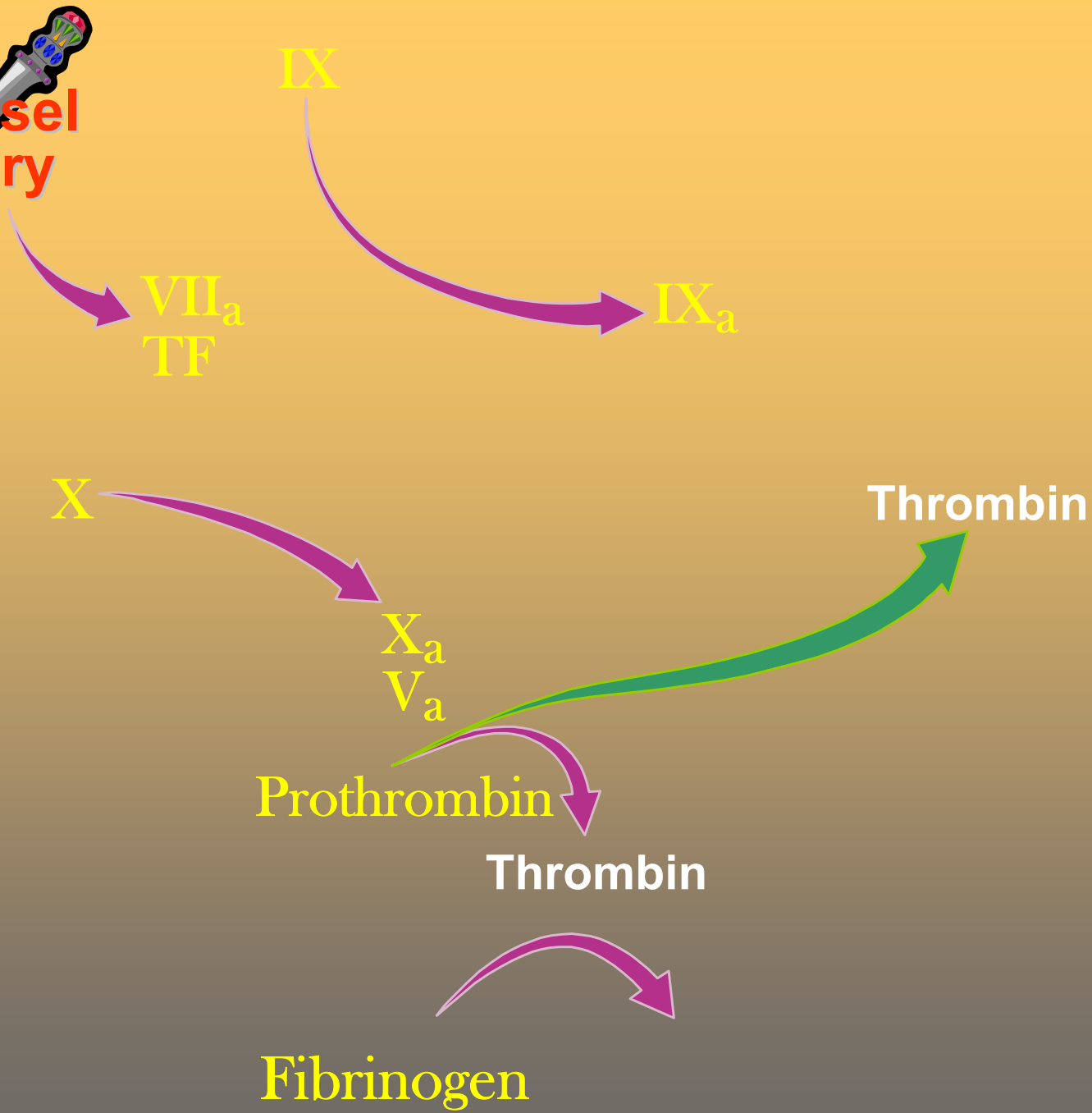
Prothrombin

Thrombin

Fibrinogen



Vessel Injury



VII_a
TF

IX

IX_a

X

Thrombin

X_a
V_a

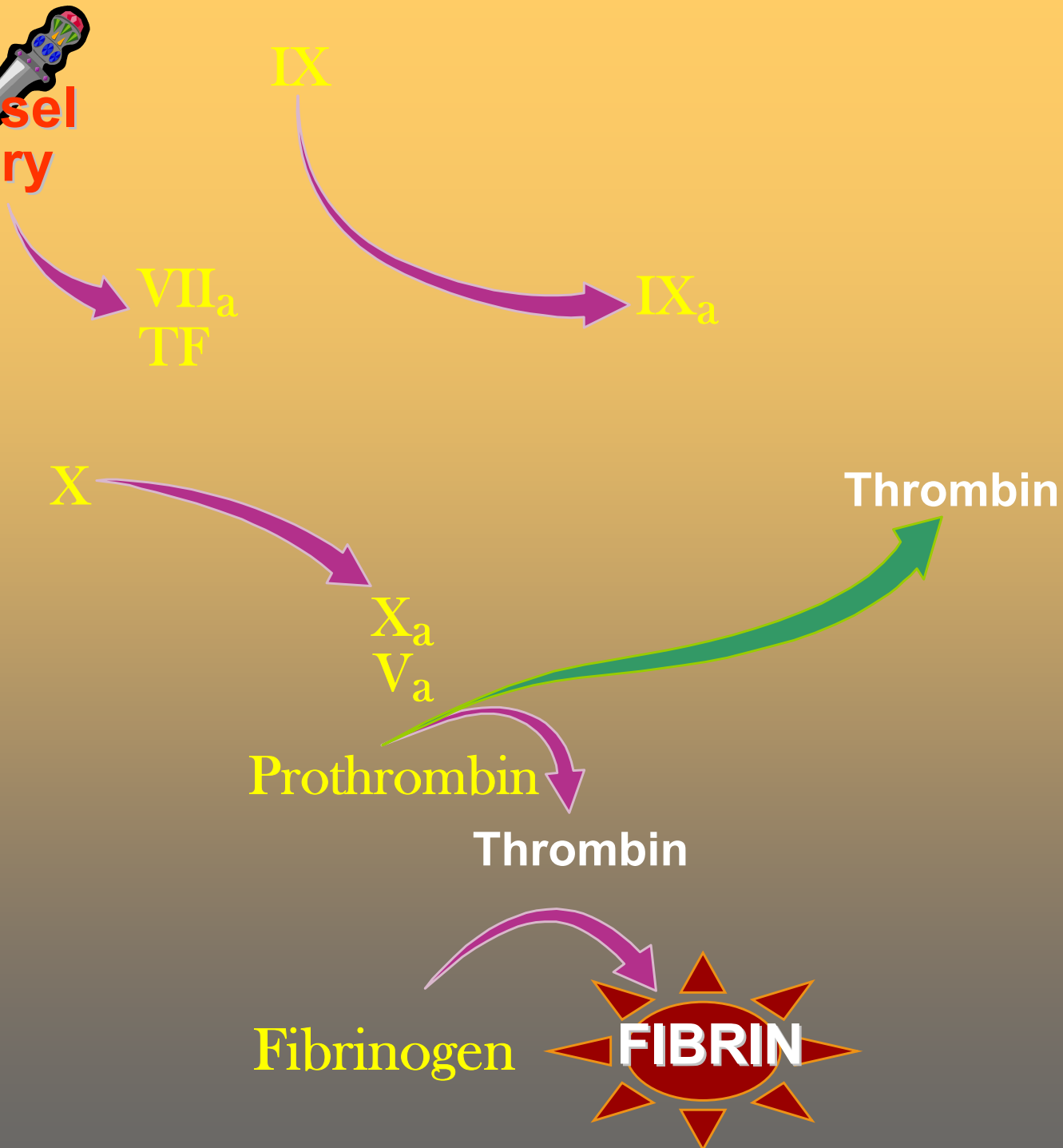
Prothrombin

Thrombin

Fibrinogen



Vessel Injury



VII_a
TF

IX

IX_a

X

Thrombin

X_a
V_a

Prothrombin

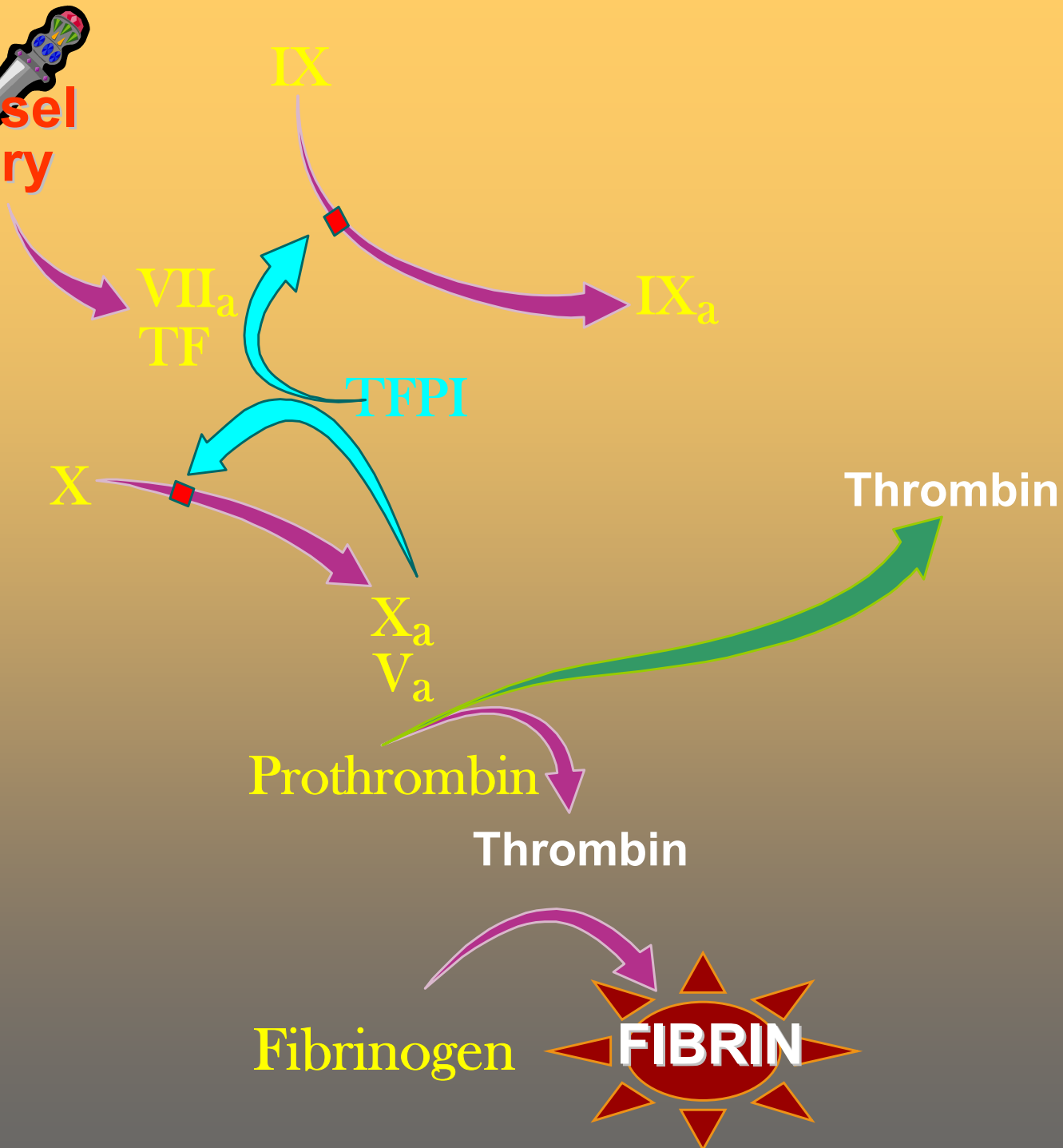
Thrombin

Fibrinogen

FIBRIN



Vessel Injury



VII_a
TF

IX

IX_a

TFPI

X

Thrombin

X_a
V_a

Prothrombin

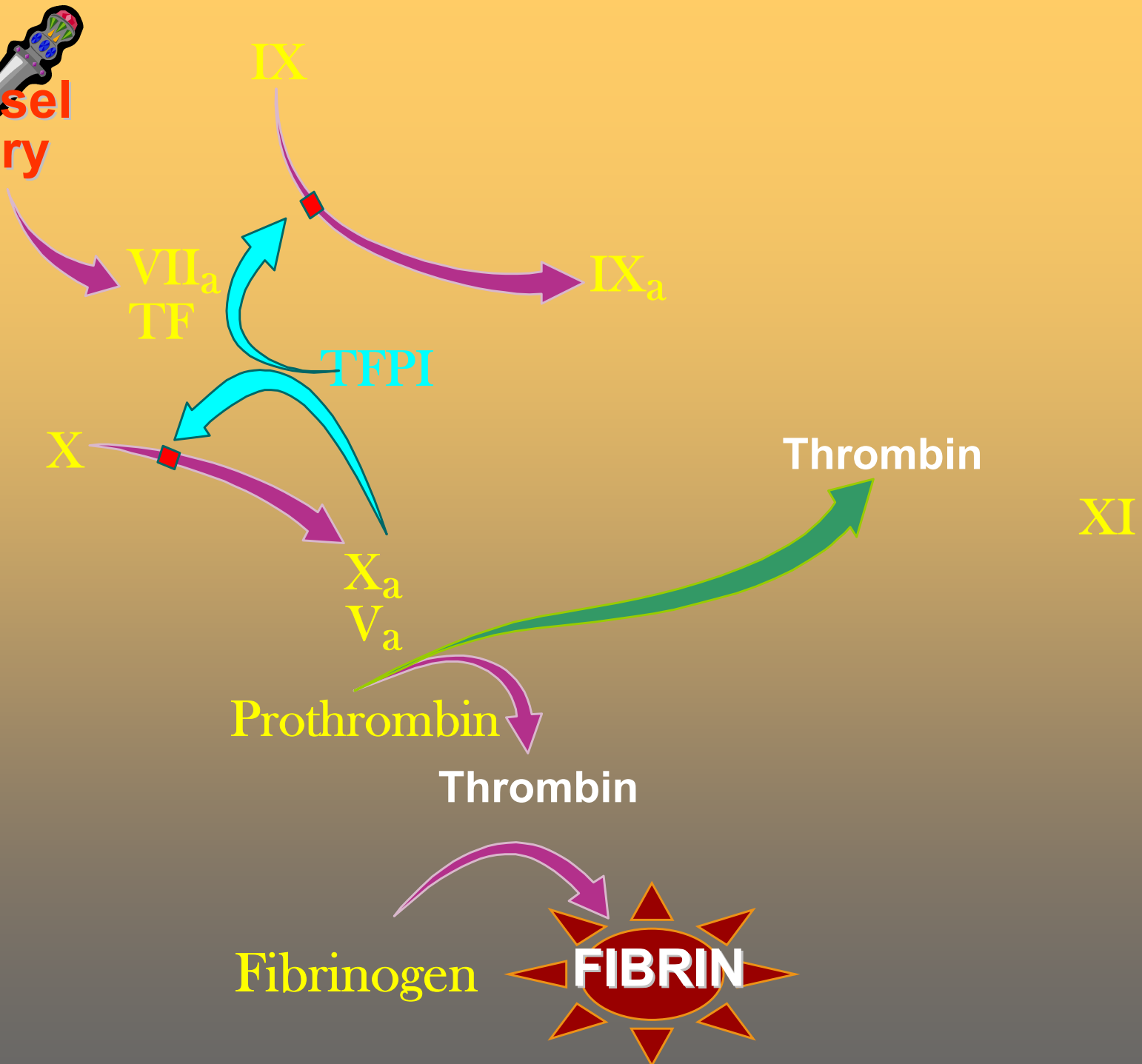
Thrombin

Fibrinogen

FIBRIN



Vessel Injury

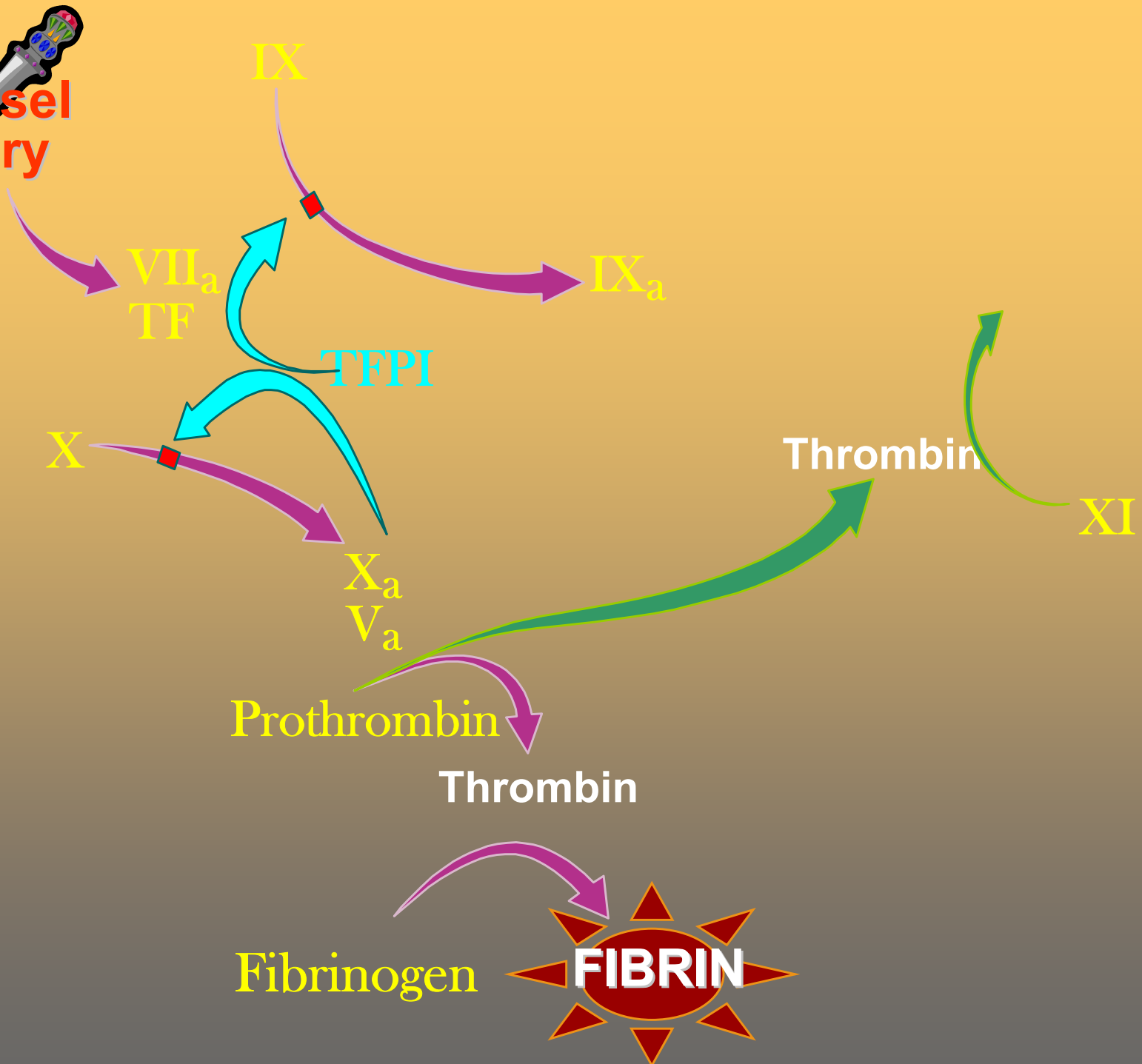


Fibrinogen

FIBRIN



Vessel Injury

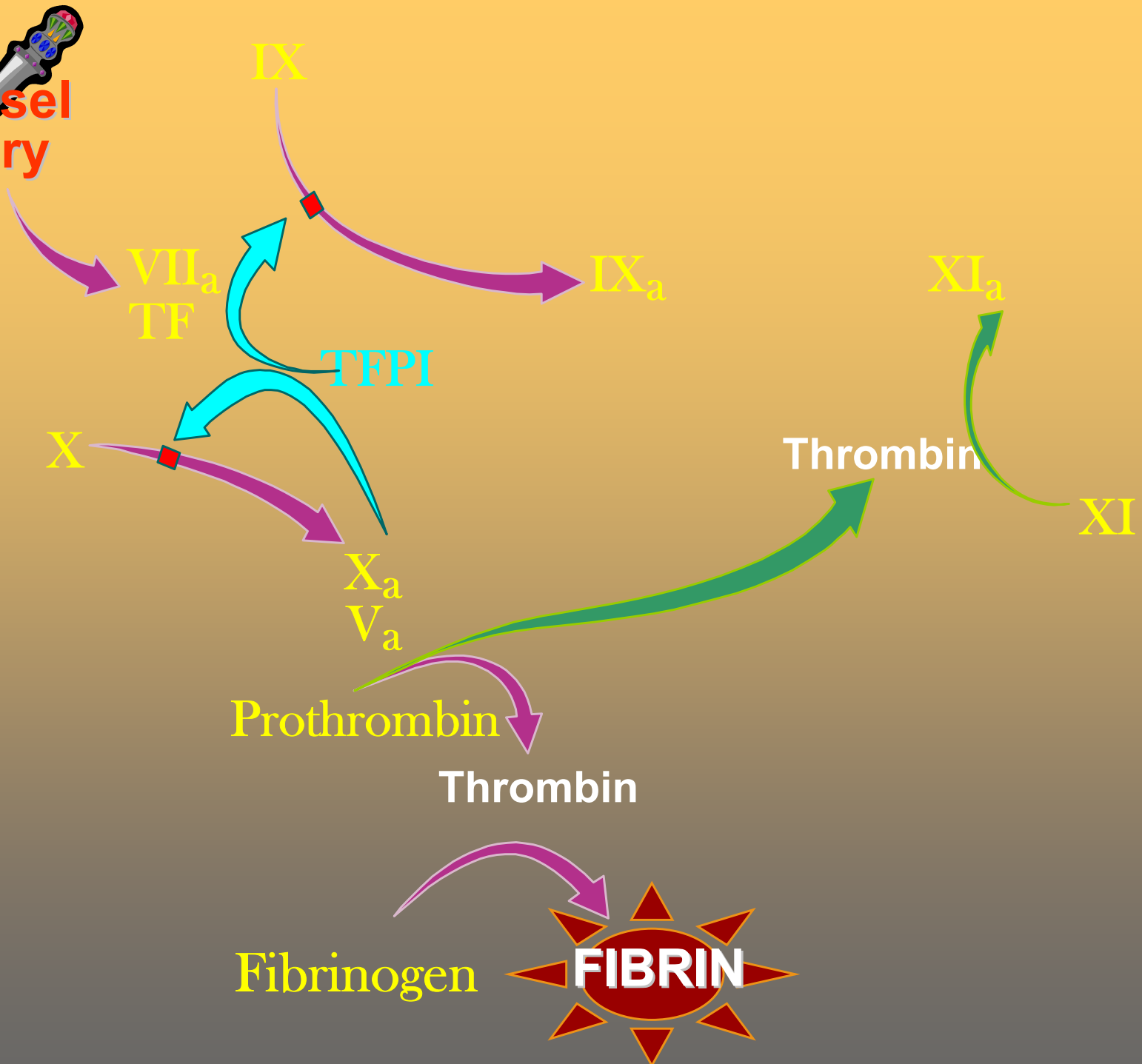


Fibrinogen

FIBRIN



Vessel Injury

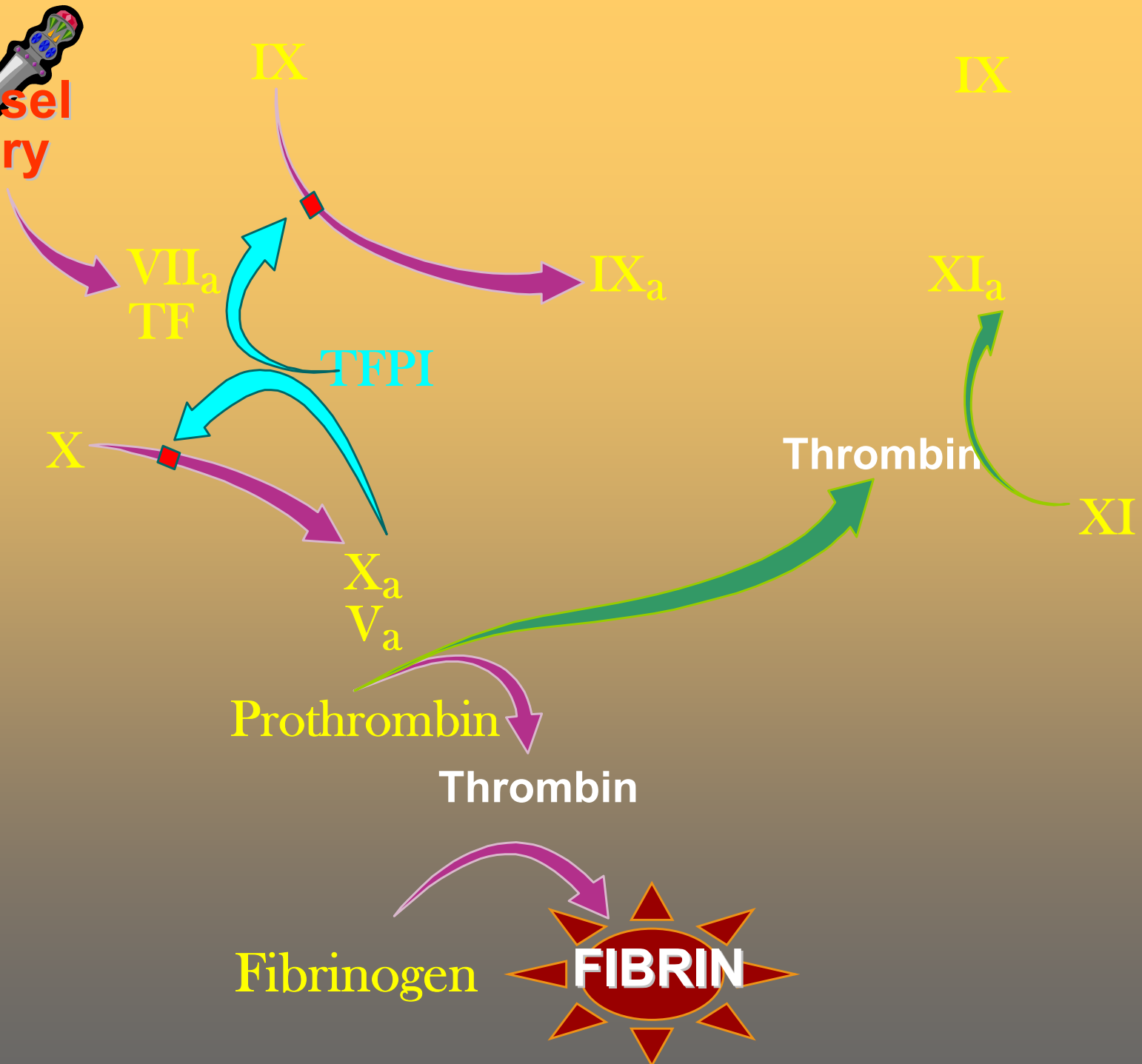


Fibrinogen

FIBRIN



Vessel Injury

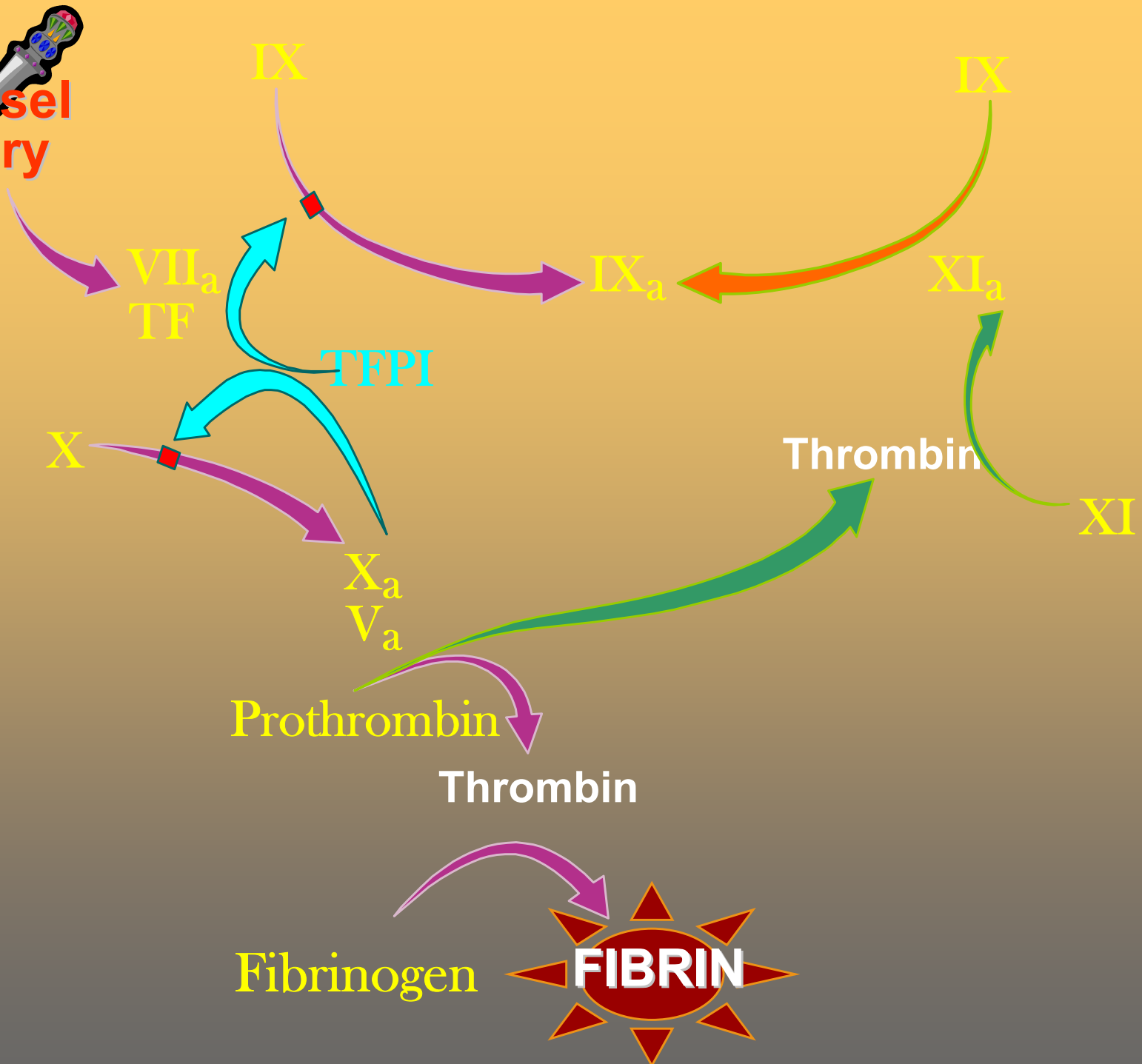


Fibrinogen

FIBRIN



Vessel Injury

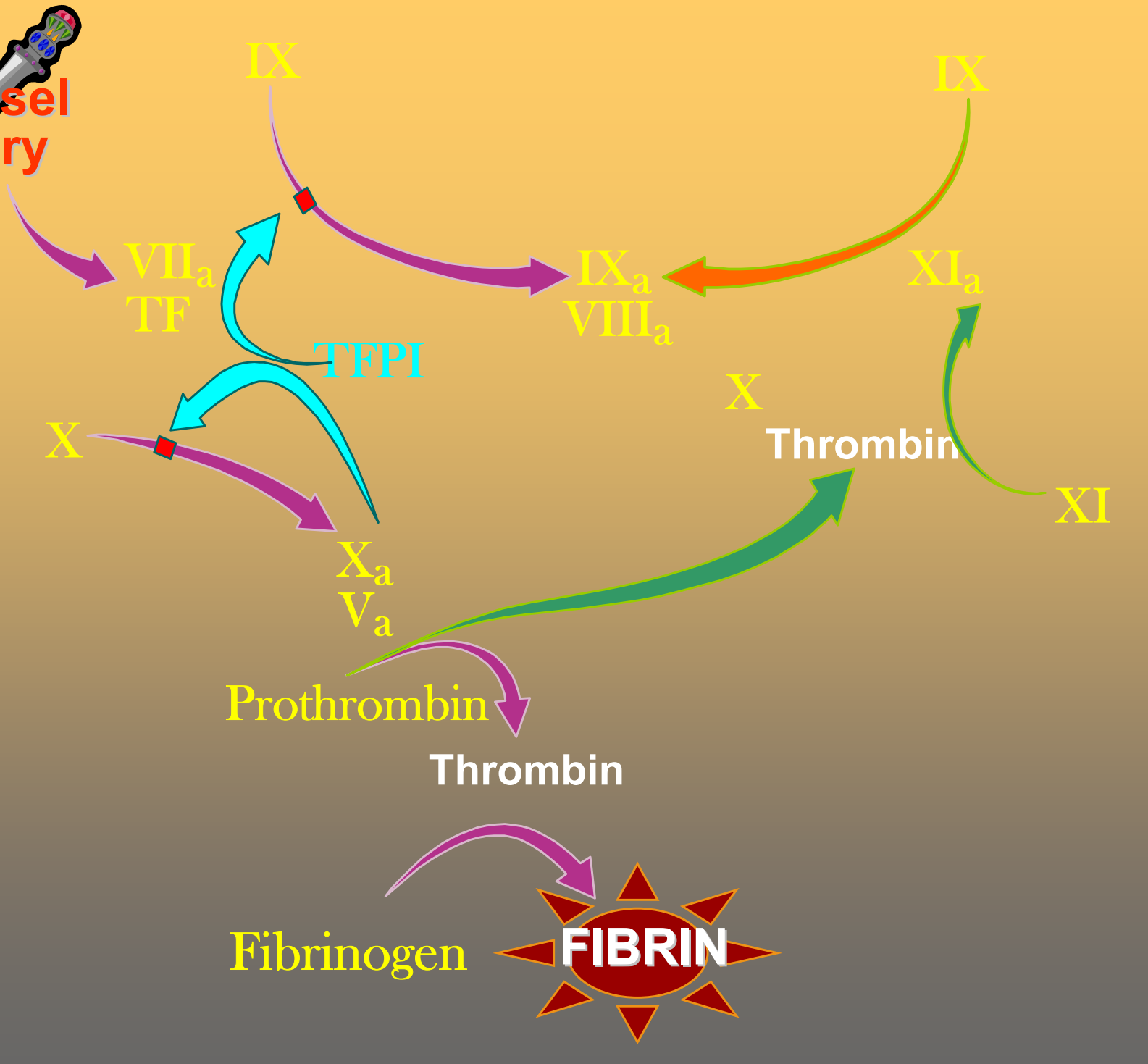


Fibrinogen

FIBRIN



Vessel Injury

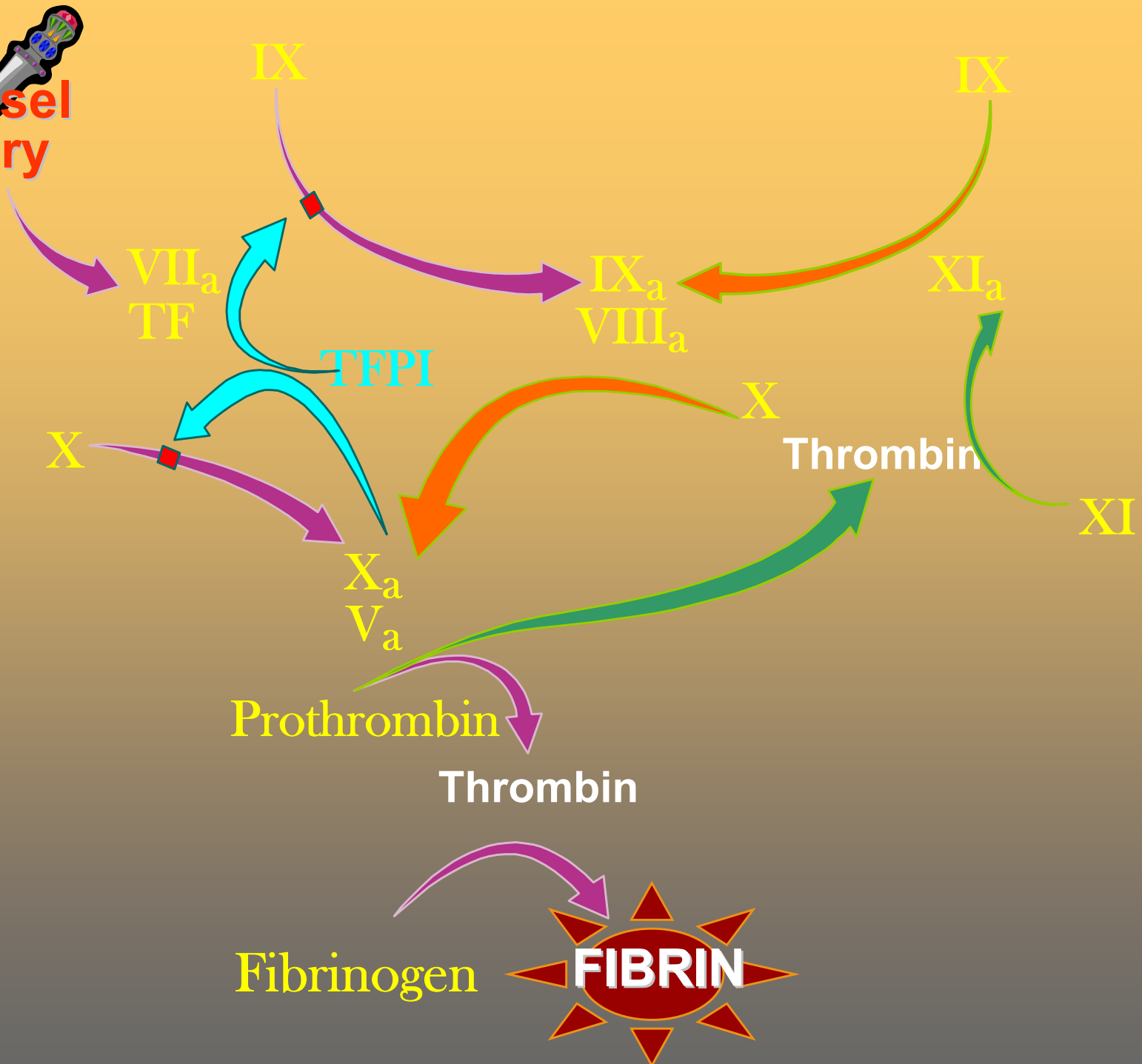


Fibrinogen

FIBRIN



Vessel Injury

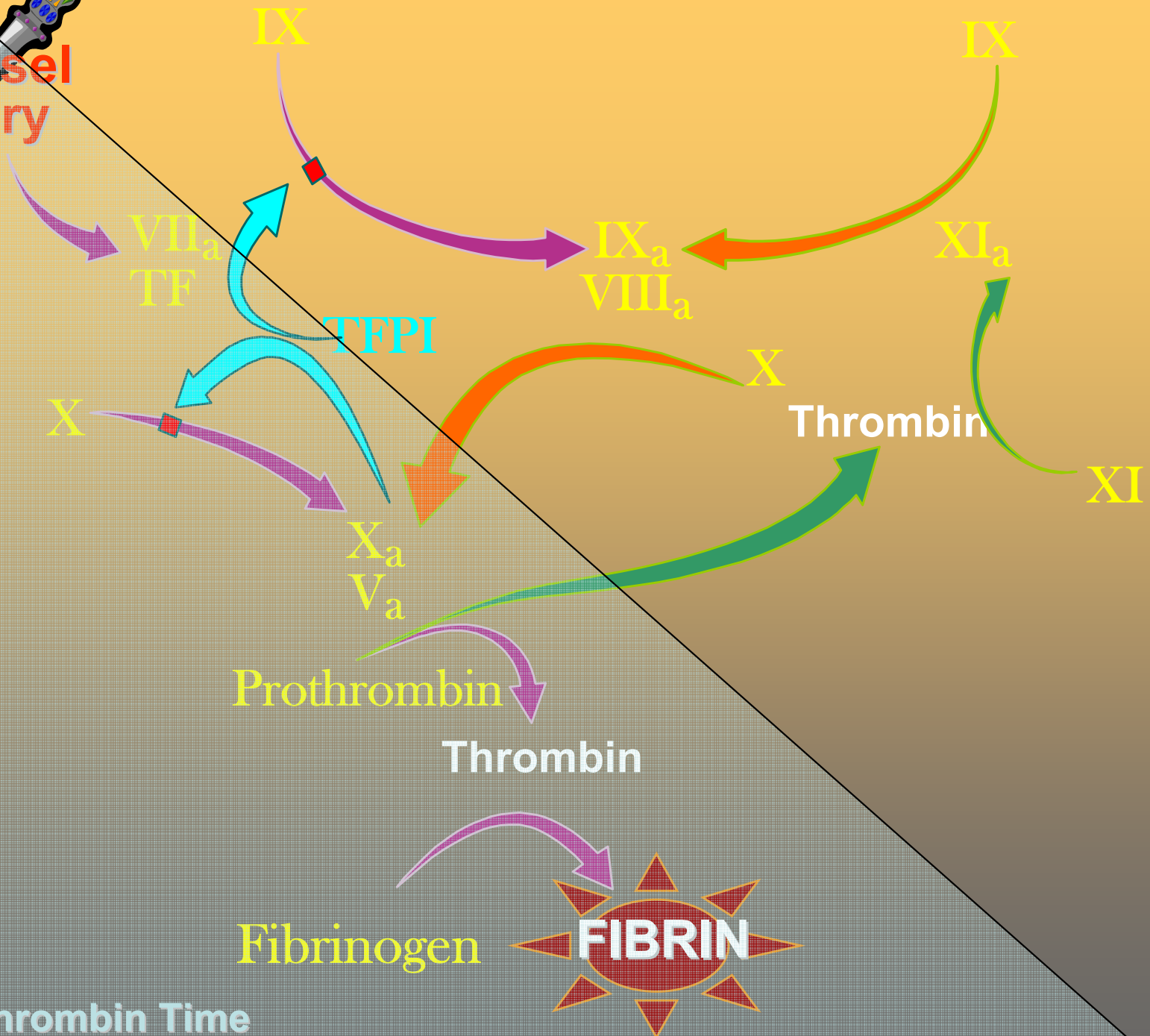


Fibrinogen

FIBRIN



Vessel Injury



Prothrombin Time