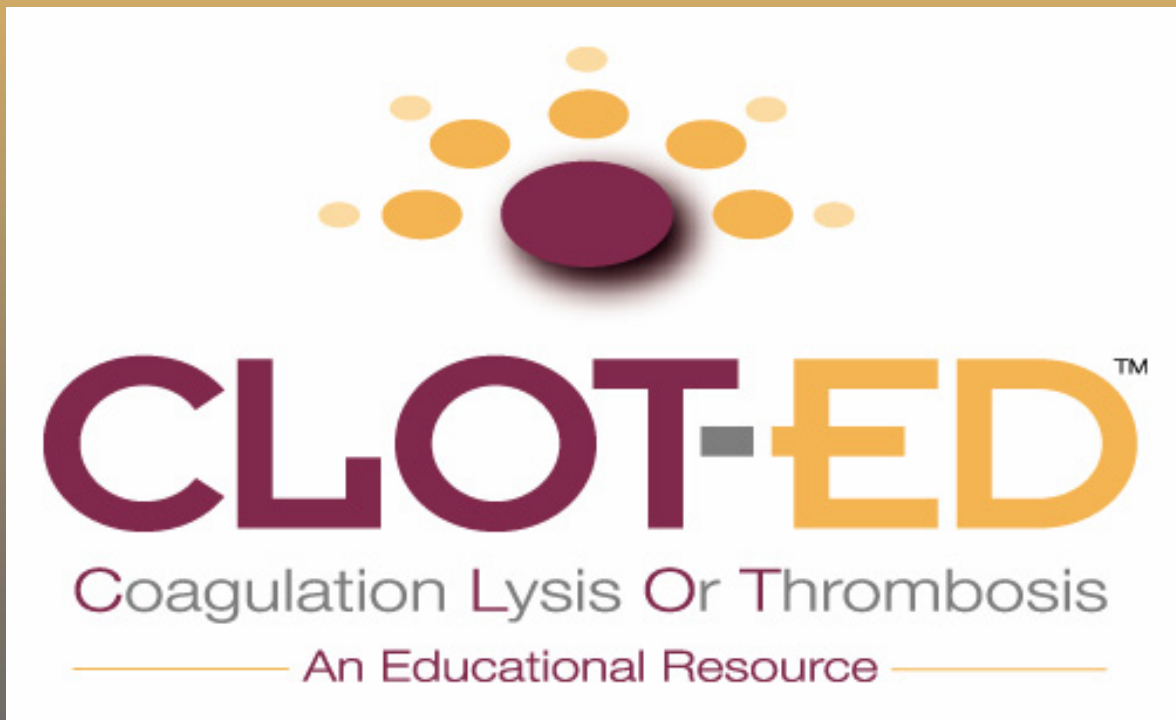

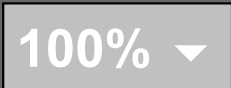



Activation of Protein C by Thrombin






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

How to Use These Slides

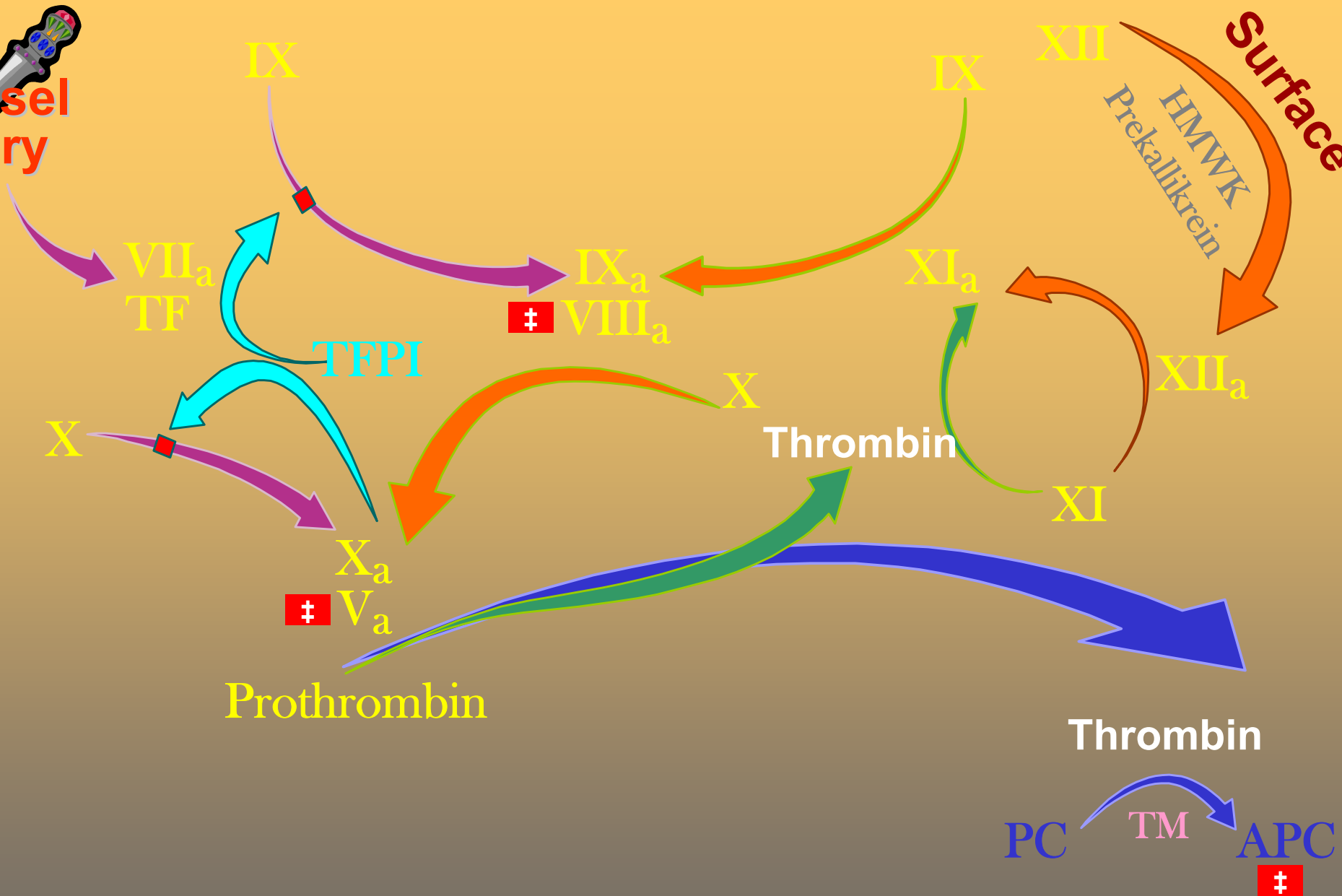
- On Adobe toolbar,    click down & choose "Fit Page" for correct viewing size
- Slide 3 provides you with a legend for all symbols used in the pathway slides that follow
- Slide 4 shows you the entire pathway to be featured in this series
- The remainder of the slides show you the pathway in sequential 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
PC	Protein C
APC	Activated Protein C
	Inhibits
	Inhibited by APC
TM	Thrombomodulin
	"converts", "gives rise to", "yields"



Vessel Injury



Prothrombin

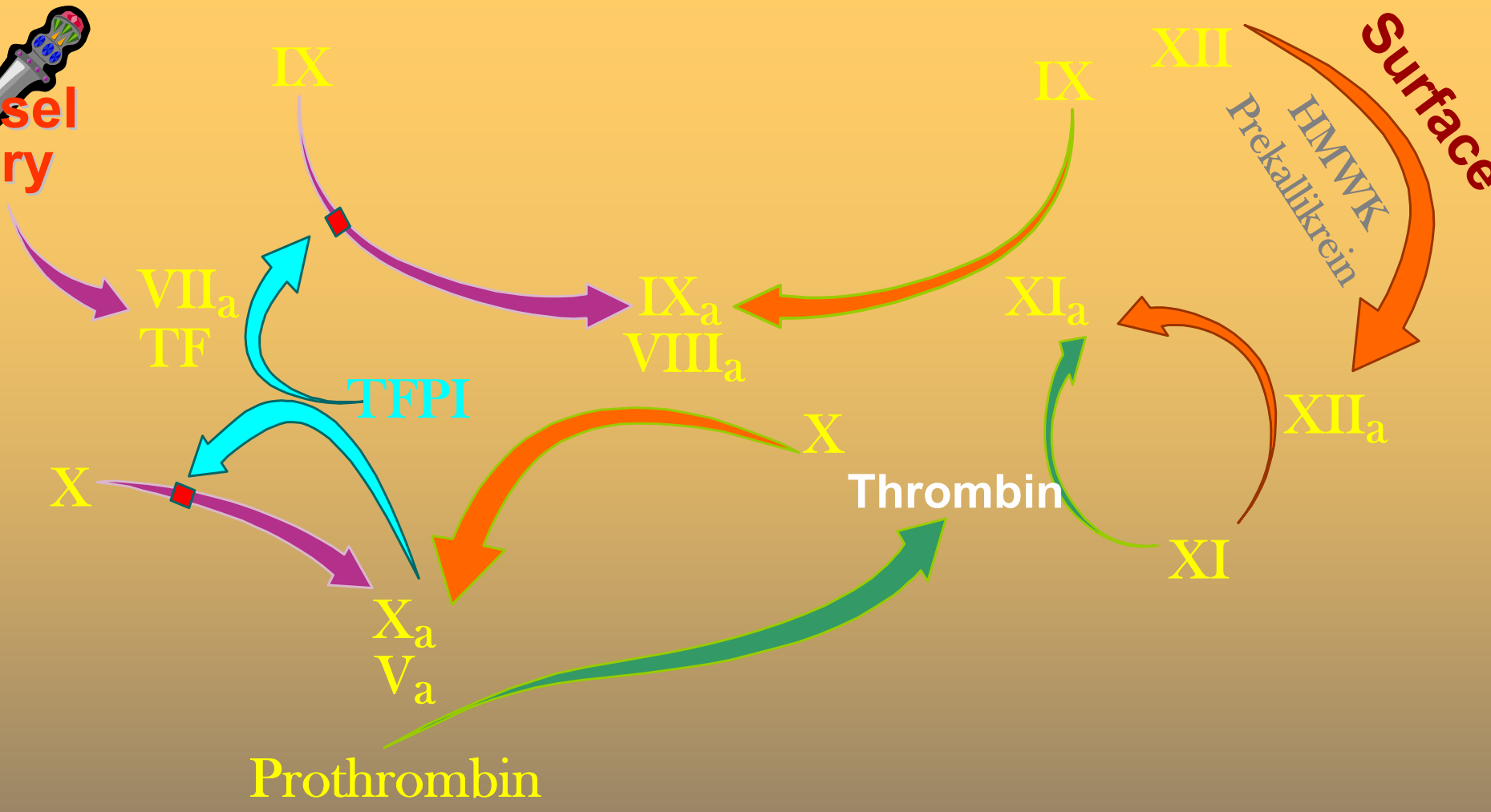
Thrombin

Thrombin

PC → TM → APC



Vessel Injury



Prothrombin

Thrombin

Surface

HMWK
Prekallikrein

VII_a
TF

TFPI

X

X_a
V_a

IX_a
VIII_a

X

XI_a

XI

XII

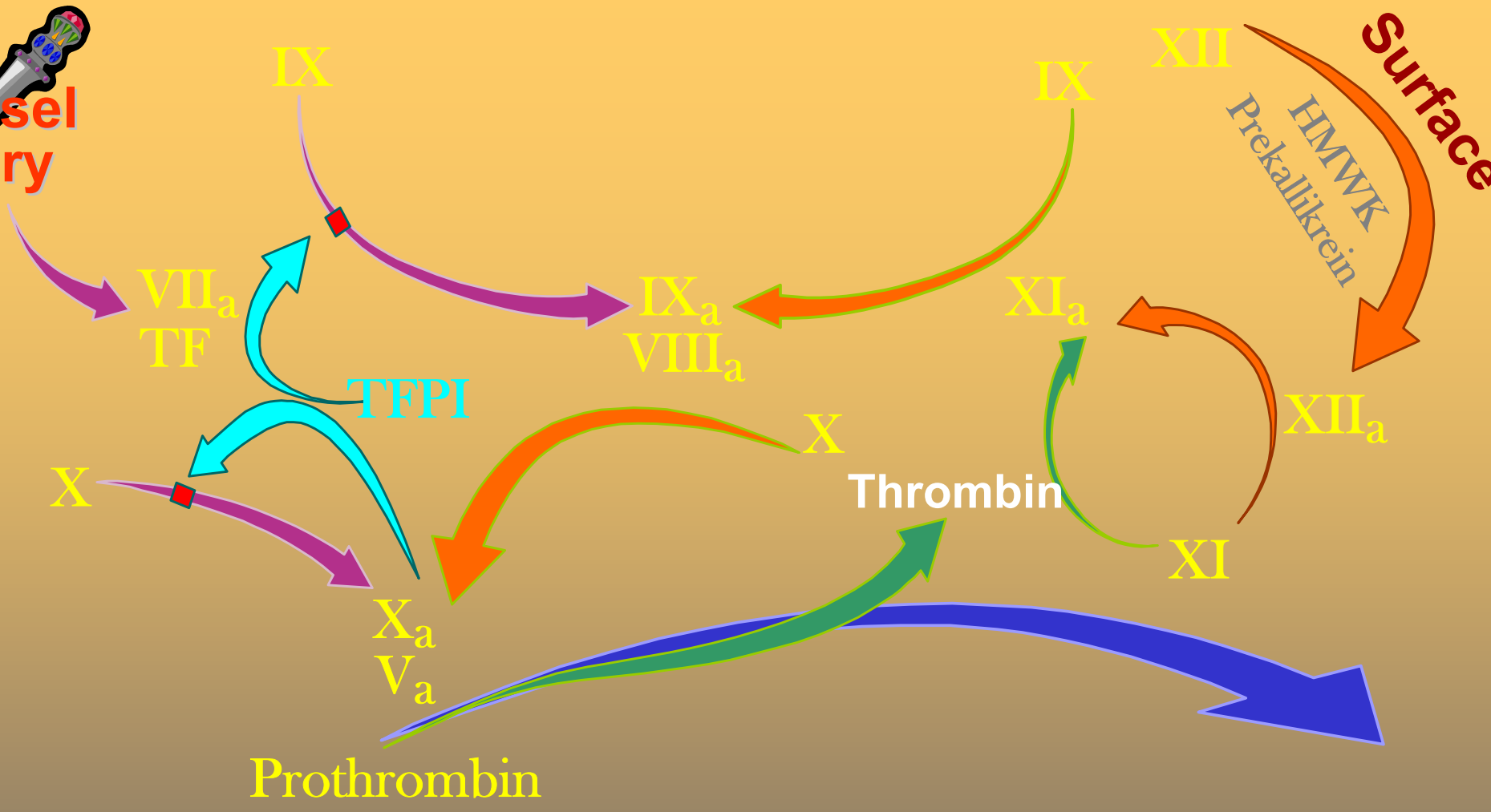
XII_a

IX

Surface

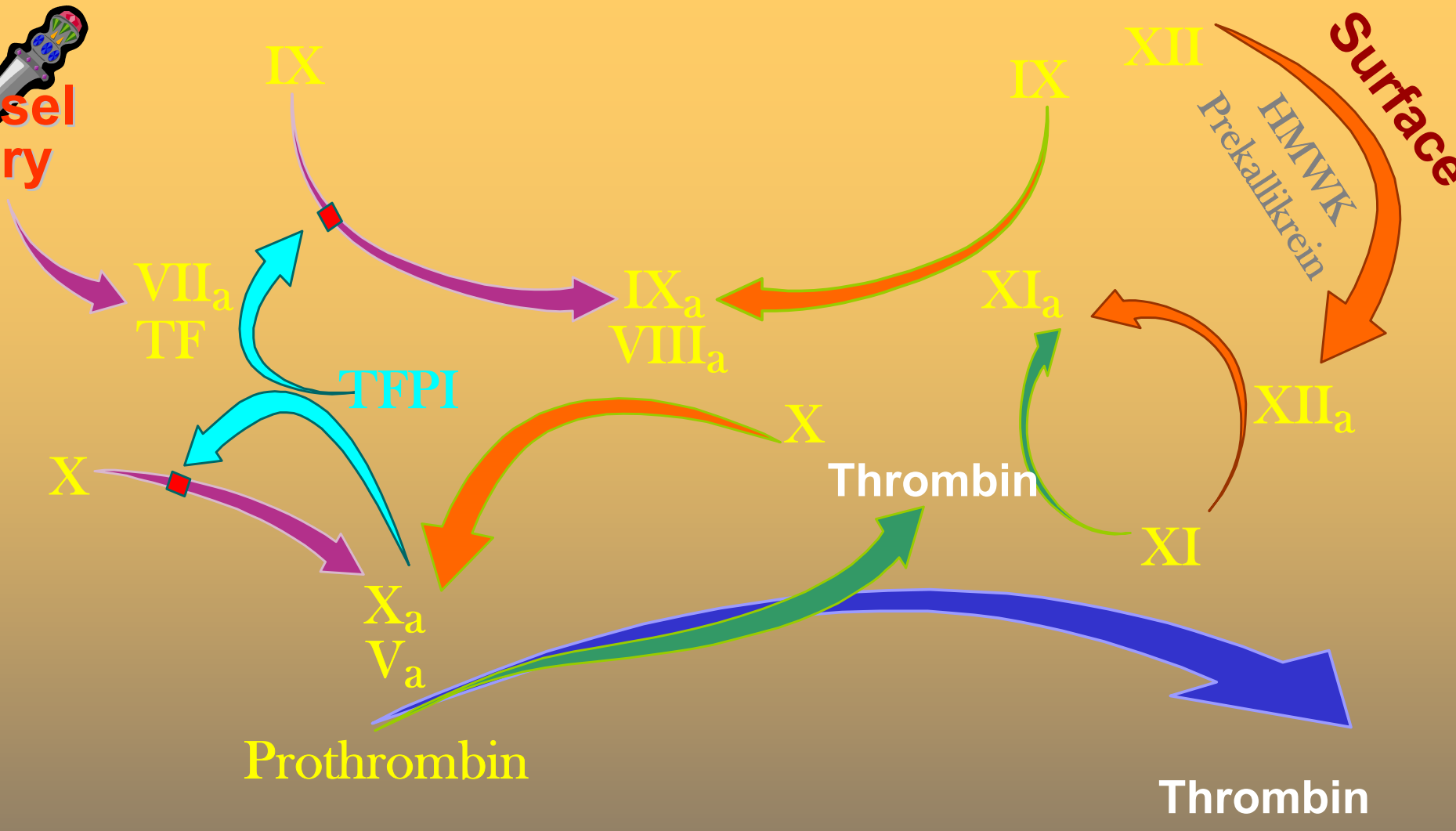


Vessel Injury





Vessel Injury



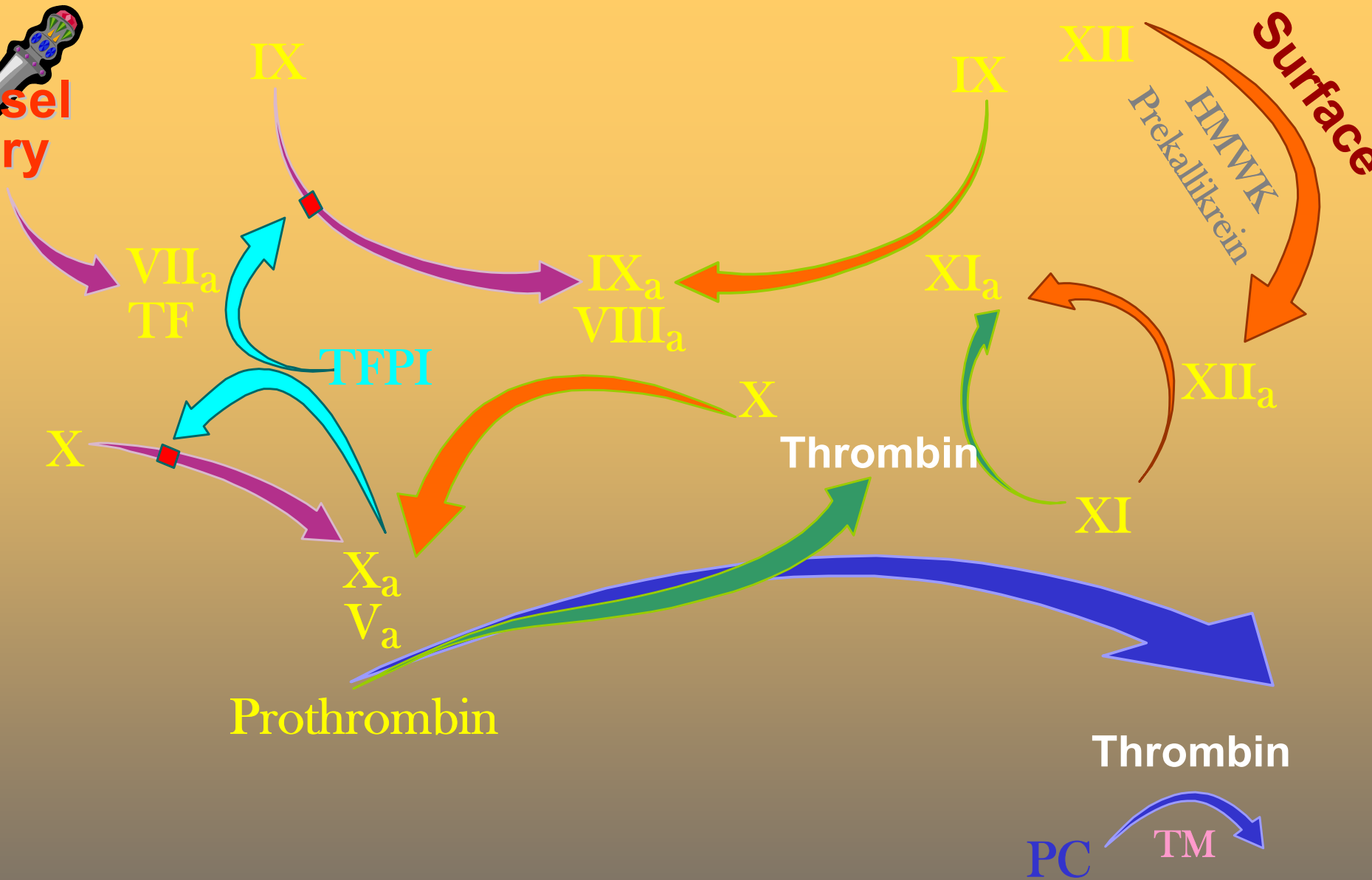
Prothrombin

Thrombin

Thrombin

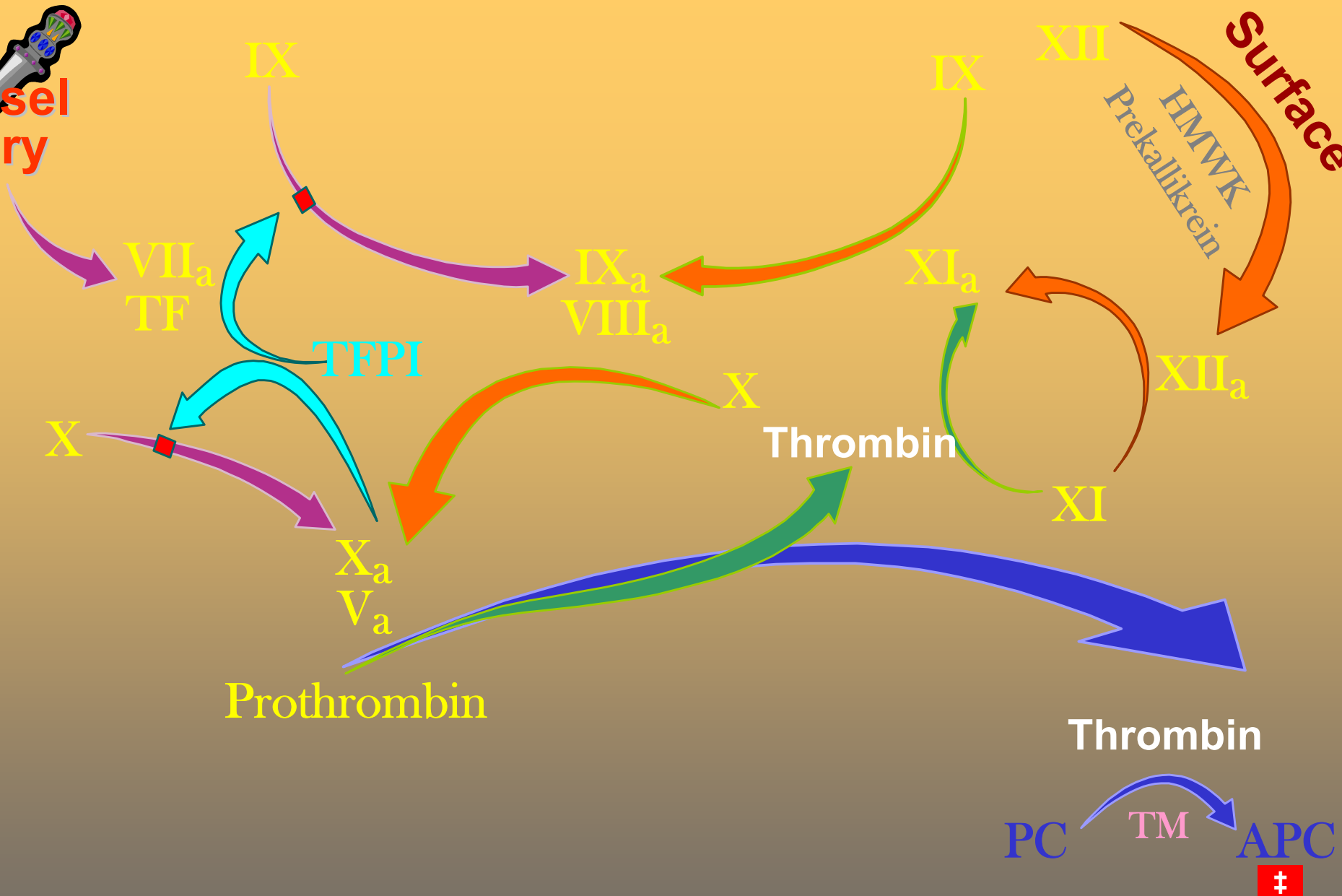


Vessel Injury





Vessel Injury



Prothrombin

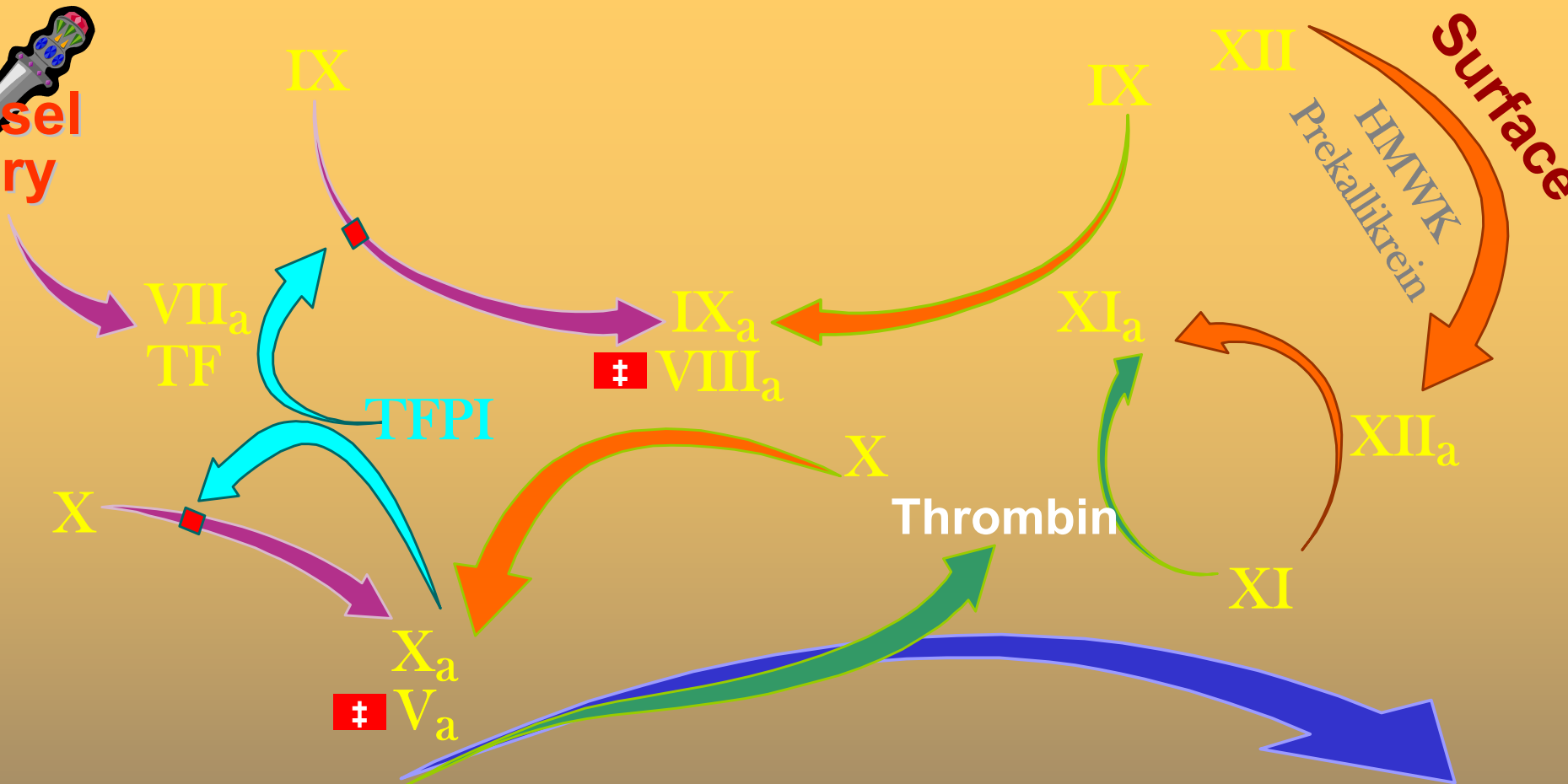
Thrombin

Thrombin

PC → TM → APC †



Vessel Injury



VII_a
TF

IX

IX_a
VIII_a

XI_a

XII

XII_a

X

X_a
V_a

X

Thrombin

XI

Prothrombin

Thrombin

PC

TM

APC



CLOT-ED