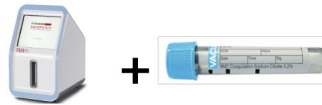


ALGORITHM

	STEP 2	STEP 1	STEP 3			
	ACT	R	K	ANGLE	MA	LY30
CK		7.6 4.6-9.1	1.3 0.8-2.1	73.0 63-78	58.3 52-68	0.0 0.0-2.6
CRT	83.0 82-152	0.3 0.3-1.1	1.4 0.8-2.7	74.0 66-78	60.2 52-78	0.0 0.0-2.2
CKH		7.3 4.3-8.3	1.2 0.8-1.9	74.0 64-77	59.0 52-68	
CFF					22.0	420.0 278-581

AIMS: CK R <9 mins, CK R = CKH R, CRT MA >52mm, CFF MA >15mm, CRT LY30 <2%

TEG



RECHECK TEG

- 1) After products given
- 2) If bleeding continues

PHYSIOLOGICAL TARGETS

- T >36.0
- pH >7.2
- Ca >1.0
- Hb >70 or higher as indicated

THEORY

FOUR TRACES

CK – KAOLIN ACTIVATED

KAOLIN ALONE: traditional TEG trace showing total clotting profile

CRT – RAPID TEG

KAOLIN + TISSUE FACTOR: causes rapid clot formation shortening R time. Fastest to show MA & LY30

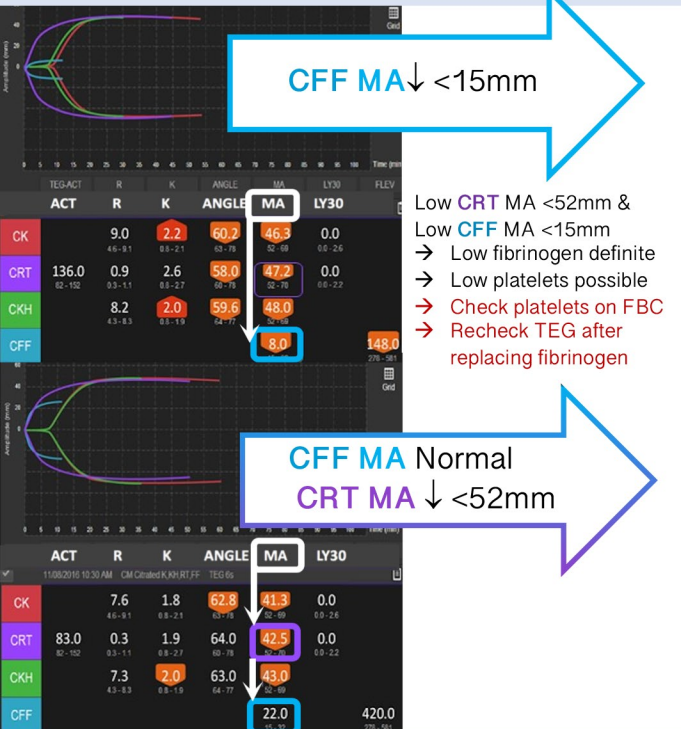
CKH – HEPARINASE

KAOLIN + HEPARINASE: removes heparin effect. Otherwise comparable to CK trace.

CFF – FUNCTIONAL FIBRINOGEN

KAOLIN + PLATELET INHIBITOR: shows fibrinogens specific contribution to MA, by inhibiting platelets.

STEP 1: MA Result in ~10-15 mins



↓ FIBRINOGEN
Often first to deplete

Cryoprecipitate OR Fibrinogen Conc

CFF MA <15mm	10u	2g
<10mm	20u	4g
<5mm	20-30u + TXA	4-6g + TXA

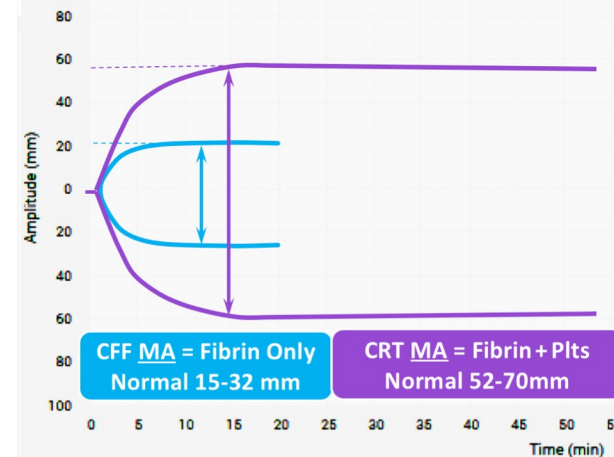
~5u cryo OR ~1g fib conc may raise CFF MA ~2mm

↓ PLATELETS
Deficit or Disorder (i.e. antiplatelet)

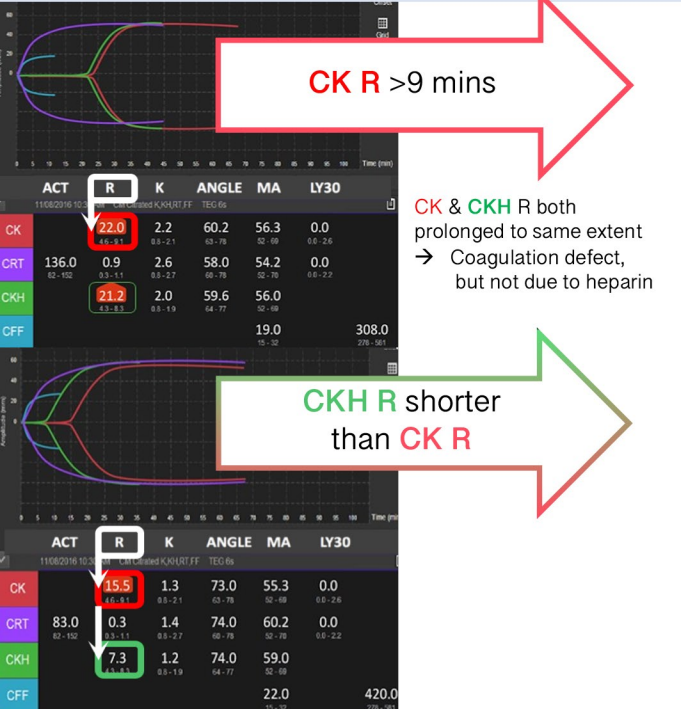
Pooled Platelets

CRT MA <50mm	1u
<25mm	2u

MA = Maximum Amplitude
STRENGTH of clot formed by FIBRINOGEN crosslinking with PLATELETS



STEP 2: R Result in ~10-15 mins



↓ COAG FACTORS
Deficit or Disorder (i.e. anticoagulant)

FFP OR Prothrombinex

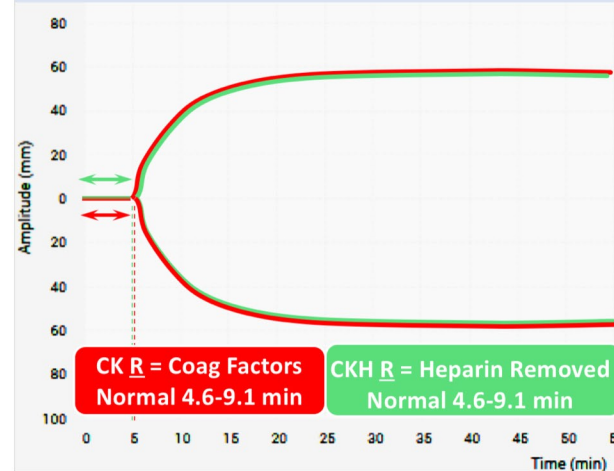
2-4u	25-50u/kg
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HEPARIN EFFECT

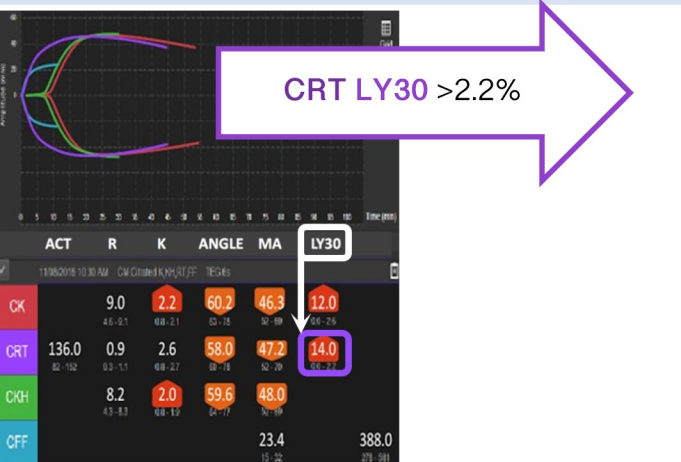
Protamine
~1mg /100u heparin

OR as per local cardiac/bypass protocols

R = Reaction Time
TIME taken for COAGULATION FACTORS to initiate clot formation



STEP 3: LY30 Result in ~40-45 mins

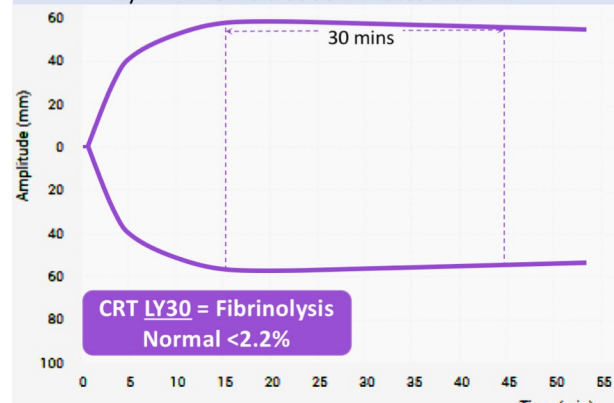


HYPERFIBRINOLYSIS

Tranexamic Acid (TXA)
1g over 10 mins, followed by 1 g over 8hs

Preemptive Use:
Major trauma, give within 3 hours (CRASH 2)
Consider in surgery where major bleeding occurs or is anticipated

LY30 = Lysis % at 30 mins
STABILITY of clot. Amount of clot broken down by FIBRINOLYSIS at 30 minutes after MA



This algorithm is for educational purposes only and should not be used to interpret patient results in your hospital.