

Interpretation:

- * Prolonged Prothrombin time.
- * No residual heparin effect.
- * No platelet deficiency.
- * No fibrinogen deficiency
- * No clot lysis.

ROTEM guided management: Based on the ROTEM algorithm:

- * 2 unit FFP given
- * No additional Protamine required
- * No empirical platelet transfusion was given
- * No cryoprecipitate required

Outcome:

Within 1 hour after targeted transfusion, chest drain collection decreased to 10-30ml/hour. Haemodynamics improved and vasopressor requirement reduced. No re-exploration required.

Discussion:

Postoperative bleeding remains a frequent and potentially serious complication following cardiac surgery. Conventional coagulation tests such as

prothrombin time, activated partial thromboplastin time and platelet count often require prolonged turnaround times and provide limited information about the dynamic process of clot formation. In contrast, viscoelastic testing using ROTEM allows rapid bedside assessment of coagulation status and facilitates targeted hemostatic therapy. In our case series, ROTEM was done when significant postoperative bleeding was observed after reversal of heparin with protamine.

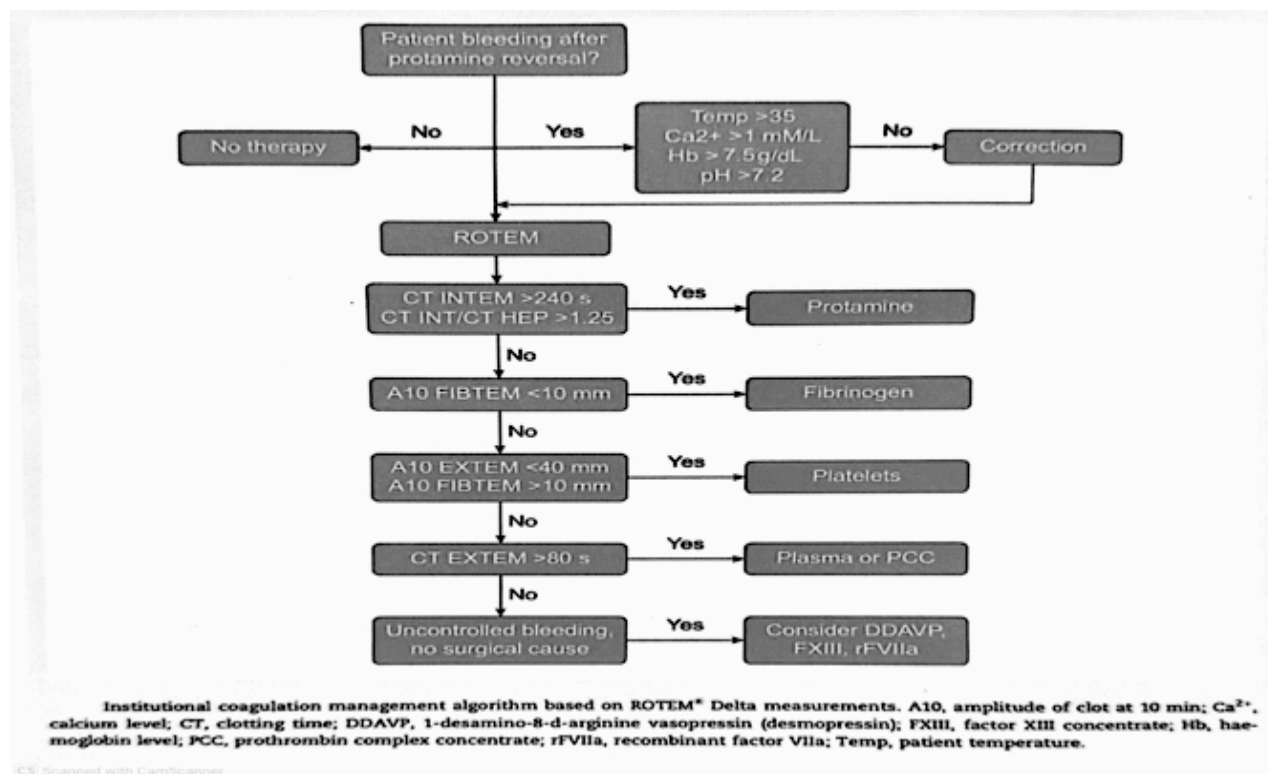


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