Cardiac Surgery: Intensive Care Unit (ICU) Transfusion Algorithm

Chest tube output
- >150 cc/hr (>2 cc/kg/hr)
  - Coagulation tests and thromboelastogram (TEG) performed
    - Fibrinogen <200 mg/dL
      - Cryoprecipitate transfusion
    - Point-of-care: Prothrombin time (PT) >12.6 seconds and/or Activated partial thromboplastin time (aPTT) >45 seconds
      - Plasma transfusion
    - Platelet count <140,000/mm³ and/or TEG maximum amplitude <55 mm
      - Platelet transfusion
  - Add positive end expiratory pressure (PEEP)
    - Activated clotting time (ACT) >baseline
      - Administer protamine
    - Chest tube output >150 cc/hr (>2 cc/kg/hr)
      - Surgical re-exploration of chest
    - All normal
      - Add positive end expiratory pressure (PEEP)

Chest tube output
- <150 cc/hr (<2 cc/kg/hr)
  - Add positive end expiratory pressure (PEEP)

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