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
      - All normal
        - Surgical re-exploration of chest
  - <150 cc/hr (<2 cc/kg/hr)
    - Add positive end expiratory pressure (PEEP)