Platelet Antibody Testing Algorithm

Autoimmune cause of thrombocytopenia suspected, such as:
- Idiopathic thrombocytopenia purpura (ITP)
- Secondary ITP*

Has the patient received a platelet transfusion in the last 72 hours?

- YES
  - Delay specimen collection until after 72 hours posttransfusion. Transfused platelets will interfere with assay.
  - Testing is not available on neonates, instead order PLABN / Platelet Antibody Screen, Serum on the mother.

- NO
  - Is the patient a neonate (<31 days old)?
    - YES
      - Order CBPAN / Cell-Bound Platelet Autoantibody Screen, Blood
    - NO

Alloimmune causes of thrombocytopenia suspected, such as:
- Refractoriness to platelet transfusion (PTR)
- Neonatal alloimmune thrombocytopenia (NAIT)
- Posttransfusion purpura (PTP)

Has the patient received a platelet transfusion in the last 72 hours?

- YES
  - Delay specimen collection until after 72 hours posttransfusion. Transfused platelets will interfere with assay.
  - Consider sending maternal sample instead of neonate, unbound platelet antibodies may not be detected in the neonate serum.

- NO
  - Is the patient a neonate (<31 days old)?
    - YES
      - Order PLABN / Platelet Antibody Screen, Serum
    - NO

* Secondary ITP may be associated with systemic lupus erythematosus, HIV, or hepatitis C virus infections. Additional testing for antiphospholipid antibodies or infectious disease testing should be considered.