Basic Coagulation Workup - 1
PT, aPTT, Fibrinogen, TT, Plt Ct

Prolonged PT
Other studies normal
PT 1:1 mix
- Full correction
  - Factor VII Deficiency
    - Factor levels, if needed
  - Lupus anticoagulant workup
  - Factor inhibitor workup
  - Coumadin
- Partial correction
- No correction

Prolonged aPTT
Other studies normal
aPTT 1:1 mix
- Full correction
  - vWD
    - vWD workup, if needed
  - Factor Deficiency
    - Factor levels, if needed
- Partial correction
- No correction

Prolonged PT, aPTT
Other studies normal
PT, aPTT 1:1 mix
- Full correction
- Partial correction
- No correction

Factor inhibitor workup
Coumadin

Factor Deficiency
Factor inhibitor workup
Coumadin

Factors levels, if needed

Adapted from: Coagulation Guidelines for Unexplained Bleeding Disorders
University of Washington Clinical Laboratory Advisory Council
Basic Thromboembolism (Hypercoagulability) Workup

APC resistance assay

Abnormal

APC resistance

Factor V Leiden
Factor II G20210A
MTHFR
Prothrombin

Normal

Protein C Ag & activity

Abnormal

Protein C deficiency

Protein S Ag & activity

Abnormal

Protein S deficiency

AT III Ag & activity

Abnormal

AT III deficiency

Fibrinogen level & activity

Normal

Dysfibrinogen

Antiphospholipid antibodies
Factor VIII, XI levels
Lupus anticoagulant workup
Homocysteine levels

Abnormal

Anticardiolipin antibodies

Normal

Anti-B2-glycoprotein antibodies

? elevated

? high

Hyperhomocysteinemia
Lupus Anticoagulant Workup

**Screening Tests**
- aPTT
  - Normal
  - Abnormal
- DRVVT
  - Normal
  - Negative

**Mixing Studies**
- 1:1 mixing study
  - Corrects
  - Incubated 1:1 mixing study
    - Corrects

**Confirmatory Testing**
- Hexagonal platelet neutralization study
  - Negative
  - Factor assays
    - Specific factor deficiency or inhibitor
  - Positive

Lupus anticoagulant