Chromogenic Factor X: Features & Benefits

DiaPharma Factor X Kit (KDPGFX)
Why Test for Factor X?

Monitoring Warfarin is a Delicate Balance.

The DiaPharma Factor X Kit Can Help.
Why Test for Factor X?

- **Question:** What do you do if a warfarin patient has a falsely prolonged PT and an unreliable INR, whether it’s from the presence of a direct thrombin inhibitor or lupus inhibitor?

- Are your patients getting the proper level of anticoagulation?
  - Can you trust the INR result?
Why Test for Factor X?

- The chromogenic Factor X assay is an accurate predictor of therapeutic warfarin levels when INR values are unreliable
  - In the presence of interferences like lupus anticoagulants
  - When direct thrombin inhibitors like Argatroban are discontinued (bridging from DTI to warfarin)
Why Test for Factor X?

- Standard methods of monitoring may be substandard in that they often result in overestimation of anticoagulation.
Why Test for Factor X?

- Patients with lupus anticoagulants who OAC therapy often demonstrate a prolonged baseline prothrombin, and significantly varying INRs.
- Anti-phospholipid antibodies interfere with the phospholipid-dependent clotting reactions that are part of most PT assays.
- DTIs like hirudin and argatroban also interfere with the PT assay.
Why Test for Factor X?

- In contrast, the Factor X reaction does not require a phospholipid membrane surface.
Why Test for Factor X?

- Studies have shown that using a chromogenic assay to measure Factor X levels in patients with PL-dependent interferences is a reliable way to determine the intensity of coagulation.
Why Test for Factor X?

- Warfarin decreases factor X (as well as factors II, VII, and IX), and a chromogenic assay is available for factor X which has no interference from lupus anticoagulants, hirudin or argatroban.
Why Test for Factor X?

- When the INR is 2–3, the chromogenic factor X level is approximately 20% to 40%.

- Each laboratory should determine its own chromogenic factor X therapeutic range
Benefits of Chromogenic FX Assay

- Solution to dealing with unstable INRs in warfarin patients with lupus inhibitors
  - prolonged INRs such as patients with lupus inhibitors, patients being bridged from thrombin inhibitors like hirudin or argatroban
- Eliminates the issues of varying sensitivities of different thromboplastins
- Reliable, commercially available, and easy to use assay kit
- Applications for automated coagulation analyzers
Selected References