

- PT or APTT after an equal volume of a control specimen (with normal coagulation factors) is added to the patients blood

### 50% normal APTT and PT

- assists with differentiation of causes of an increased TCT  
- reptilase is a thrombin-like molecule that converts fibrinogen to fibrin but is not inhibited by antithrombin III or FDPs

### reptilase time

- differentiates liver dysfunction for vitamin K deficiency  
- Echis carinatum venom converts pre-prothrombin to prothrombin  
- in vitamin K deficiency the venom corrects the PT where in liver dysfunction the PT remains unchanged

### echis time

- a shortened time indicates the presence of systemic fibrinolytic pathway activators

### euglobulin lysis time

- factor 13 stabilises fibrin  
- if it is deficient 5M urea will dissolve it

### urea solubility test

- (i) antithrombin 3 assay
- (ii) protein C & protein S
- (iii) argon plasma coagulation (APC) resistance  
- factor V (Leiden) gene mutation
- (iv) lupus anticoagulant & anticardiolipin antibodies
- (v) G20210A prothrombin gene mutation
- (vi) fasting homocystein assay

### procoagulant screen

## coagulation tests

### APTT

- activated partial thromboplastin time  
- a test of the intrinsic coagulation pathway

### PT

- prothrombin time  
- a test of the extrinsic coagulation pathway  
- the international normalised ratio (INR) is the PT expressed as a ratio of the control used by the specific laboratory (usually for monitoring of warfarin therapy)

### TCT

- thrombin clotting time  
- tests the final common pathway of the coagulation cascade which converts fibrinogen to fibrin

### bleeding time

- most often used to detect the presence of qualitative platelet dysfunction and capillary defects  
- ristocetin-induced platelet aggregation is another useful test of qualitative platelet function  
- the Hess test is a clinical test where a tourniquet is applied to the patient's arm and petechiae are noted to arise under and distal to the cuff in conditions causing a prolonged bleeding time

### D-dimer

- specific for fibrin breakdown  
- increased in postoperative states, trauma, sepsis, venous thrombosis & malignancies

### FDPs

- fibrin degradation products  
- markers of fibrin & fibrinogen breakdown