Who we are

Majority owned by the NHS, but with the commercial freedom to invest in innovation, Viapath are on a mission to transform pathology services in the UK. We provide pathology services to the NHS, private hospitals and other organisations both across the country and internationally.

What we do

All our laboratories are either accredited or working towards accreditation by UKAS to ISO15189. To view our laboratory accreditation status please follow this link:

http://www.viapath.co.uk/about-viapath/quality-and-governance/accreditations

TEST OVERVIEW

**Description**
Unfractionated heparin (UFH), low molecular weight heparin (LMWH) and the synthetic pentasaccharide fondaparinux are not direct anticoagulants themselves and function by markedly potentiating the anticoagulant action of the patient's antithrombin. The degree of inhibition of FXa achieved via UFH, LMWH and fondaparinux can be quantified in the chromogenic-based anti-Xa assay. In the anti-Xa assay, the anticoagulant in the test plasma is reacted with fixed amounts of excess exogenous antithrombin and FXa. The anticoagulant forms a complex with the antithrombin and FXa and the residual FXa is reacted with a chromogenic substrate, the intensity of the coloured product being inversely proportional to the concentration of circulating anticoagulant. Rivaroxaban is a direct FXa inhibitor and is assayed in a similar way except that no exogenous antithrombin is required.

**Related condition or disease**
Therapeutic anticoagulation

**Reference range**
Therapeutic ranges 0.4 - 0.7 (UFH) 0.5 - 1.0 (LMWH) 0.8 - 1.2 (fondaparinux) Guide to expected rivaroxaban levels at different doses with normal CrCL: Dose of 10mg od...........................................2h peak = 91-195 ng/ml.....24h Trough = 1-37 ng/mL Dose of 15mg bd (3/52) then 20mg od........2h peak = 189-419 ng/mL......24h Trough = 6-87 ng/mL Dose of 20mg od.................................2h peak = 175-360 ng/ml........24h Trough = 19-60 ng/mL Dose of 30mg od...........................................2h peak = 184-399 ng/ml........24h Trough = 24-83 ng/mL

**Units**
IU/ml (UFH & LMWH) mg/l (fondaparinux) ng/ml (rivaroxaban)

**Department**
Haemostasis and Thrombosis Department

**Laboratory**
Diagnostic Haemostasis and Thrombosis Laboratory at St Thomas'

**Location**
Viapath at St Thomas' Hospital

ORDERING INFORMATION

**Sample type and Volume required**
External requests: Citrated platelet poor plasma 475µL x 1 aliquot Internal requests: please refer to EPR label

**Turnaround time**
5 - 7 days Call laboratory to arrange urgent analysis

**Contacts**
Diagnostic Haemostasis and Thrombosis Department
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North Wing - 4th and 5th Floors
Westminster Bridge Road
London SE1 7EH

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How can we help?

We have a number of partnering options to suit your needs, whether you require this specific test or a range of services, we are here to help. Contact one of our friendly Business Development Managers for more information, or visit our website.