

Client: Example Client ABC123  
123 Test Drive  
Salt Lake City, UT 84108  
UNITED STATES

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 5/13/1934  
**Gender:** Male  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 01/01/2017 12:34

**Prolonged Clot Time Reflex Panel**

ARUP test code 2014318

Prolonged Clot Time Reflex Panel Interp

See Note

Initial testing identified a prolonged PT and aPTT, which both corrected in mixing studies, suggesting a factor deficiency pattern. Factor activities (II, V, VII, VIII, X, IX, XI) were measured and showed decreased activity of factors II, VII, and X, elevated factor VIII activity, and normal activity of all other factors tested. D-dimer is elevated, with positive soluble fibrin monomer and normal fibrinogen activity. The pattern of abnormalities is non-specific and does not clearly fit a pattern of liver disease, vitamin K deficiency, or DIC, although consideration of each of these possibilities is recommended. DIC is typically associated with a markedly elevated D-dimer and the D-dimer is only mildly elevated in the current specimen. However, trending D-dimer values would be useful if clinically indicated to further evaluate for DIC. A lupus anticoagulant was not detected.

A patient history form was not submitted with the test request. Panel interpretation is limited by lack of clinical information. Close correlation with clinical presentation (bleeding, thrombosis, or asymptomatic), presence of anticoagulant medications, recent factor replacement, and other relevant information is required for proper interpretation of the test results.

Reviewed by Karen A. Moser, M.D.

Fibrinogen 272 mg/dL (Ref Interval: 150-430)

D-Dimer **1.2 ug/mL H** (Ref Interval: 0.0-0.4)

INTERPRETIVE INFORMATION: D-Dimer  
The presence of rheumatoid factor may lead to false positive results with the D-Dimer test. This test should not be used to rule out venous thromboembolism.

Maximum values less than 10 are rarely indicative of DIC. Results are reported in Fibrinogen Equivalent Units (FEU).

Soluble Fibrin Monomer **Positive \*** (Ref Interval: Negative)

**H=High, L=Low, \*=Abnormal, C=Critical**

Unless otherwise indicated, testing performed at:

**ARUP LABORATORIES | 800-522-2787 | aruplab.com**  
500 Chipeta Way, Salt Lake City, UT 84108-1221  
Tracy I. George, MD, Laboratory Director

Patient: Patient, Example  
ARUP Accession: 20-023-107463  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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Prothrombin Time	<b>17.4 sec H</b>	(Ref Interval: 12.0-15.5)
dRVVT Screen	<b>31 sec L</b>	(Ref Interval: 33-44)
dRVVT 1:1 Mix	Not Applicable sec	(Ref Interval: 33-44)
dRVVT Confirmation	Not Applicable ratio	(Ref Interval: Negative)
PTT-LA Screen (PTT-D)	<b>81 sec H</b>	(Ref Interval: 32-48)
Thrombin Time	15.8 sec	(Ref Interval: 14.7-19.5)
Reptilase Time	Not Applicable sec	(Ref Interval: <=21.9)
PTT-D Heparin Neutralized	Not Applicable sec	(Ref Interval: 32-48)
PTT-D 1:1 Mix	48 sec	(Ref Interval: 32-48)
Platelet Neutralization (PTT-D, Confirm)	Not Applicable	(Ref Interval: Negative)
Hexagonal Phospholipid Neutral Reflex	Not Applicable	(Ref Interval: Negative)
Lupus Anticoagulant Interpretation	<p>See Note</p> <p>Lupus anticoagulant not detected. The PTT is prolonged and corrects in a 1:1 mix with pooled normal plasma, indicating a possible factor deficiency. However, correction in a 1:1 mix can also occur with weak inhibitors that are diluted in the mixing study.</p> <p>Lupus anticoagulant antibodies are heterogeneous and antibody titers fluctuate over time. Laboratory tests used to identify lupus anticoagulants demonstrate variable sensitivity. If there is strong clinical suspicion for antiphospholipid antibody syndrome (APS), consider testing for cardiolipin and beta-2 glycoprotein 1 antibodies (IgG and IgM) if this testing has not already been performed.</p>	
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PT, Inhibitor Screen, 1:1 Mix	13.8 sec	(Ref Interval: 12.0-15.5)
A PT-based inhibitor is not detected. The PT is prolonged and corrects in a 1:1 mix with pooled normal plasma. This pattern is most commonly due to coagulation factor deficiency.		
Factor VIII, Activity	<b>289 % H</b>	<b>(Ref Interval: 56-191)</b>
REFERENCE INTERVAL: Factor VIII, Activity		
Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).		
Bethesda Quantitative, F8	Not Applicable BU	(Ref Interval: <=0.5)
von Willebrand Factor, Activity (RCF)	Not Applicable %	(Ref Interval: 51-215)
REFERENCE INTERVAL: von Willebrand Factor, Activity (RCF)		
Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).		
von Willebrand Factor, Antigen	Not Applicable %	(Ref Interval: 52-214)
REFERENCE INTERVAL: von Willebrand Factor, Antigen		
Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).		
Factor II, Activity (Prothrombin)	<b>40 % L</b>	<b>(Ref Interval: 86-150)</b>
REFERENCE INTERVAL: Factor II, Activity (Prothrombin)		
Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).		
Factor V, Activity	71 %	(Ref Interval: 62-140)
REFERENCE INTERVAL: Factor V, Activity		
Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).		
Factor VII, Activity	<b>64 % L</b>	<b>(Ref Interval: 80-181)</b>
REFERENCE INTERVAL: Factor VII, Activity		
Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).		
Factor IX, Activity	87 %	(Ref Interval: 78-184)

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REFERENCE INTERVAL: Factor IX, Activity

Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).

Bethesda Quantitative, F9

Not Applicable BU

(Ref Interval: <=0.4)

Factor X, Activity

**45 % L**

**(Ref Interval: 81-157)**

REFERENCE INTERVAL: Factor X, Activity

Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).

Factor XI, Activity

59 %

(Ref Interval: 56-153)

INTERPRETIVE INFORMATION: Factor XI, Activity

Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).

Factor XII, Activity

Not Applicable %

(Ref Interval: 58-166)

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VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Prolonged Clot Time Reflex Panel Interp	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/28/2020 1:15:00 PM
Fibrinogen	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/25/2020 5:21:00 PM
D-Dimer	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/25/2020 5:21:00 PM
Soluble Fibrin Monomer	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/25/2020 4:52:00 PM
Prothrombin Time	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/25/2020 5:10:00 PM
dRVVT Screen	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/25/2020 5:10:00 PM
dRVVT 1:1 Mix	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/25/2020 5:10:00 PM
dRVVT Confirmation	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/25/2020 5:11:00 PM
PTT-LA Screen (PTT-D)	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/25/2020 5:10:00 PM
Thrombin Time	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/25/2020 5:10:00 PM
Reptilase Time	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/25/2020 5:11:00 PM
PTT-D Heparin Neutralized	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/25/2020 5:11:00 PM
PTT-D 1:1 Mix	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/25/2020 5:10:00 PM
Platelet Neutralization (PTT-D, Confirm)	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/25/2020 5:10:00 PM
Hexagonal Phospholipid Neutral Reflex	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/25/2020 5:11:00 PM
Lupus Anticoagulant Interpretation	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/25/2020 5:10:00 PM
PT, Inhibitor Screen, 1:1 Mix	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/28/2020 1:15:00 PM
Factor VIII, Activity	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/26/2020 9:49:00 PM
Bethesda Quantitative, F8	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/26/2020 9:49:00 PM
von Willebrand Factor, Activity (RCF)	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/28/2020 1:15:00 PM
von Willebrand Factor, Antigen	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/28/2020 1:15:00 PM
Factor II, Activity (Prothrombin)	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/26/2020 2:02:00 PM
Factor V, Activity	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/26/2020 2:02:00 PM
Factor VII, Activity	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/26/2020 2:02:00 PM
Factor IX, Activity	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/26/2020 1:42:00 PM
Bethesda Quantitative, F9	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/28/2020 1:15:00 PM
Factor X, Activity	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/26/2020 2:02:00 PM
Factor XI, Activity	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/26/2020 1:42:00 PM
Factor XII, Activity	20-023-107463	1/23/2020 1:00:00 PM	1/24/2020 12:20:07 PM	1/28/2020 1:15:00 PM

END OF CHART

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