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Document index: CLPF046

Author: Jonathan Upton

Authorised by: Dr Naorose Abidi

Haematology Test Information

Code	Test Name and clinical background.	Units	Ref Comment	Minimum volume	Transport, stability and special requirement for samples	Tube type, Blood type	Sample type	TAT (hrs)	Quality Assurance	Comment	Routine contact Name and No.
APPT	Activated Partial Thromboplastin Time (APTT): Part of routine coagulation test used to monitor the intrinsic pathway. Influenced by deficiencies in VIII, IX, XI, XII, liver disease, Fibrinolysis, heparin and Vitamin K. and Anticoagulants, such Lupus.	Seconds	24.5 to 35.1	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, stability 8 hrs, correctly filled to line, for correct blood anticoagulant ratio.	Light blue, Sodium Citrate 4mL,	BLOOD	1 hour urgent	UK NEQAS Coagulation	Urgent - Must be in lab <4hrs	Jonathan Upton, Loraine Chin 02071216340
APTTR	APTT ratio: (APTR) Is calculated from the APTT. APTR is obtained by dividing APTT by the laboratory mean APTT, used as a routine coagulation test and to monitor heparin therapy.		0.82 to 1.18	filled to line	Transport without delay, stability 8 hrs, correctly filled to line, for correct blood anticoagulant ratio.	Light blue, Sodium Citrate 4mL	BLOOD	1 hour urgent	UK NEQAS Coagulation	Urgent - Must be in lab <4hrs	Jonathan Upton, Loraine Chin 02071216340
BASO	Basophil: Measured as part of full blood count (FBC): Basophils are rich in histamine an increase in the peripheral blood has been associated with inflammation, allergic reactions and Chronic Myeloid Leukaemia (CML).	10 ⁹ /L	0.01 to 0.13	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing.	Purple-EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Loraine Chin 02071216340

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BASOX	Basophil %: Measured as part of full blood count (FBC) is the basophils percentage of white cell count	%	0.15 to 1.60		Transport without delay, within 24hrs, ensure adequate mixing.	Purple, EDTA 4mL	BLOOD	12			Jonathan Upton, Loraine Chin 02071216340
DDIM	D Dimer A quantitative assay of breakdown product of a crosslinked fibrin by a fibrinolytic system. This test is mainly used to assist in the investigation of DVT/PE and likelihood of thrombolysis as low values would indicate less likely for these conditions to occur.	ug FEU/ml	0.0 to 0.50	filled to line	Transport without delay, stability 8 hrs, correctly filled to line, for correct blood anticoagulant ratio.	Light blue Sodium Citrate 4mL	BLOOD	1 hour urgent	UK NEQAS Coagulation	Urgent - Must be in lab < 4hrs	Jonathan Upton, Loraine Chin 02071216340
EOS	Eosinophil: Measured as part of full blood count (FBC). Eosinophilia, high levels of eosinophils is seen in Allergy, Asthma and parasitic infections.	10 ⁹ /L	0.01 to 0.53	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing	Purple, EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Loraine Chin 02071216340
EOSX	Eosinophil % Measured as part of full blood count (FBC) is the eosinophils percentage of white cell count	%	0.1 to 7.0	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing	Purple, EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Loraine Chin 02071216340
ESR	Erythrocyte sedimentation rate (ESR). Measures the	mm/hr	<49yr 1 to 12 >49 yr 1 to		Transport without delay, within 24hrs, ensure adequate mixing	Purple, EDTA 4mL	BLOOD	12			Jonathan Upton, Loraine Chin

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	rate of erythrocytes settle in a test tube. High ESR value may indicate infection, inflammation and certain cancers such as Myeloma.		20								02071216340
FIB	Fibrinogen Clause: This is a Functional quantitative fibrinogen assay. Levels are an important part in bleeding investigations.	g/L	2.21 to 3.92	filled to line	Transport without delay, stability 12 hrs, correctly filled to line, for correct blood anticoagulant ratio	Light blue Sodium Citrate 4mL	BLOOD	1 hour urgent	UK NEQAS Coagulation	Urgent - Must be in lab < 4hrs	Jonathan Upton, Loraine Chin 02071216340
HB	Haemoglobin: Part of FBC measures the amount of haemoglobin, Iron containing protein in blood.	g/L	Female: 118 to 151 Male: 120 to 169	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing	Purple, EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Loraine Chin 02071216340
HCT	Haematocrit. Measured as part of full blood count (FBC) is the volume percentage (vol%) of red blood cells (RBCs) in blood.	%	Female: 35.5 to 46.5 Male: 36.2 to 48	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing	Purple, EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Loraine Chin 02071216340
INR	INR (International normalised ratio): INR is derived from PT, as a standard normalised ratio accepted by "WHO" and is used to monitor anticoagulant therapy mainly Warfarin.		0.9 to 1.1	filled to line	Transport without delay, stability 8 hrs, correctly filled to line, for correct blood anticoagulant ratio.	Sodium Citrate 4mL	BLOOD	1 hour urgent	UK NEQAS Coagulation	Urgent - Must be in lab <4hrs	Jonathan Upton, Loraine Chin 02071216340
LYMPH S	Lymphocyte: Measured as part of full	10 ⁹ /L	1.08 to 3.17	Adult: 1.0mL	Transport without delay, within 24hrs, ensure adequate mixing	Purple, EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton,

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	blood count (FBC), part of white blood cells responsible for the immune response during infection particularly viral infection.			Paediatric: 0.5mL							Lorraine Chin 02071216340
LYMPH SX	Lymphocyte %: Measured as part of full blood count (FBC), is the lymphocytes percentage of white cell count.	%	14.76 to 45.40	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing	EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Lorraine Chin 02071216340
MCH	MCH Part of full blood count (FBC) measures the average amount of haemoglobin in red blood cells.	pg	26.8 to 33.8	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing	Purple, EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Lorraine Chin 02071216340
MCHC	Mean Cell Haemoglobin (MCHC): Part of full blood count (FBC), measures the concentration of Haemoglobin and is calculated from Hb and HCT	g/L	311 to 355	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing	Purple, EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Lorraine Chin 02071216340
MCV	Mean Cell Volume (MCV): Part of full blood count (FBC). Is the measure of the average volume of red blood cells. calculated from Hb and Red blood cells (RBC).	fL	81.6 to 97.7	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing	Purple, EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Lorraine Chin 02071216340

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MONOS	Monocyte count: Measured as part of full blood count (FBC). Part of white blood cells involved in infection particularly chronic infection.	10 ⁹ /L	0.2 to 0.91	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing	EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Loraine Chin 02071216340
MONOS X	Monocyte %: Measured as part of full blood count (FBC) and is the monocytes percentage of white cell count.	%	2.91 to 12.1	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing	Purple, EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Loraine Chin 02071216340
MPV	Mean Platelet Volume (MPV): Measured as part of full blood count (FBC)	fL	6.1 to 14.1	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing	Purple, EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Loraine Chin 02071216340
NEUTS	Neutrophil: Measured as part of full blood count (FBC), An important part of immune system in fighting infection. High counts are associated with infection, mainly bacterial, inflammation and Acute leukaemia. Low counts can be seen in weak immune system, drugs such as chemo treatment.	10 ⁹ /L	2.43 to 7.42	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing	Purple, EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Loraine Chin 02071216340
NEUTSX	Neutrophil %: Measured as part of full blood count (FBC) is the neutrophil	%	42.90 to 78.10	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing.	Purple, EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Loraine Chin

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	percentage of white cell count			0.5mL							02071216340
PLT	Platelet: Measured as part of full blood count (FBC). Measures the number of platelets in the blood. Normal haemostasis depends on a tightly controlled platelet count. Low platelet count (thrombocytopenia) is associated with ITP, TTP, certain cancers, aplastic anaemia, autoimmune disease, viral infection, alcohol and certain pregnancy.	10 ⁹ /L	151 to 361	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing	Purple, EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Loraine Chin 02071216340
PT	Prothrombin time (PT): Monitors the extrinsic pathway. Prolonged due to VII, X, AND II deficiency as well as liver disease, Vitamin K antagonist therapy, fibrinolysis and DIC.	Seconds	12.2 to 14.6	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, stability 8 hrs, correctly filled to line, for correct blood anticoagulant ratio.	Light blue Sodium Citrate 4mL	BLOOD	12	UK NEQAS Haematology	Urgent - Must be in lab < 4hrs	Jonathan Upton, Loraine Chin 02071216340
RBC	Red blood cells (RBC): Part of full blood count (FBC). Red blood cell's main function is transportation of oxygen to the tissues. Oxygen is transported	10 ¹² /L	3.91 to 5.62	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing	Purple, EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Loraine Chin 02071216340

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	in Haemoglobin a protein found in red blood cells. Correct numbers and function of red blood cells is an import part of anaemia investigation										
RDW	Red Cell Distribution Width (RDW): Measured as part of full blood count (FBC), measures the difference in red cell volume. RDW can help in investigation of anaemia and thalassemia.	%	12.8 to 16.8	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing	Purple, EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Loraine Chin 02071216340
WBC	WBC: Measured as part of full blood count (FBC). Is the sum of all the different parts of white cells including neutrophils, monocytes, eosinophils and basophils. A decrease in WBC is indication of the body not making enough as in bone marrow failure or infiltration. High counts are associated with infection, inflammation, or immune system disorders and certain	10 ⁹ /L	4.50 to 10.37	Adult: 1.0mL Paediatric: 0.5mL	Transport without delay, within 24hrs, ensure adequate mixing	Purple, EDTA 4mL	BLOOD	12	UK NEQAS Haematology		Jonathan Upton, Loraine Chin 02071216340

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