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## Haematology Reference Ranges

**YOU MUST ENSURE YOU ARE WORKING TO A CURRENT VERSION OF THIS DOCUMENT**

Full Blood Count	Male	Female	Units
Haemoglobin	130 – 162	115 - 154	g/L
Red Cell Count	3.9 – 5.3	3.9 – 5.1	x10 <sup>12</sup> /L
Haematocrit	0.37 – 0.52	0.39 – 0.45	l/l
Mean Cell Volume	83 – 103	81 - 102	fL
Mean Cell Haemoglobin	27 – 33	27 - 30	Pg
Mean Cell Haemoglobin Concentration	304 - 353	317 - 340	g/L
Red Cell Distribution Width (RDW-CV)	12.2 – 14.8		%
Platelets	150 – 400		x10 <sup>9</sup> /L
Mean Platelet Volume	9-12		fL
Immature Platelet Fraction	0.9 – 11.2		%
Platelet Distribution Width	9-14		%
White Cell Count	4.3 – 11.2	3.9 – 10.9	x10 <sup>9</sup> /L
<b>Differential</b>			
Neutrophils	1.9 – 7.9	2.0 – 7.1	x10 <sup>9</sup> /L
Lymphocytes	0.5 – 4.0	0.7 – 4.0	x10 <sup>9</sup> /L
Monocytes	0.3 – 0.9	0.24 – 0.79	x10 <sup>9</sup> /L
Eosinophils	0 – 0.44	0 – 0.39	x10 <sup>9</sup> /L
Basophils	0 – 0.1	0 – 0.1	x10 <sup>9</sup> /L
Retic Count	46 - 105	33 - 102	x10 <sup>9</sup> /L
Retic He	25 - 29		
Immature Reticulocyte Fraction (IRF)	Norm < 0.3		
<b>ESR</b>			
17-50 years	2 – 10	2 – 12	mm/hour
50-60 years	2 – 12	2 – 19	mm/hour
>60	2 – 19	2 – 22	mm/hour
<b>Coagulation</b>			
PT/INR	0.8 – 1.2		
Partial Thromboplastin Time Ratio (APTT)	0.9 – 1.1		
Fibrinogen	1.5 – 4.0		g/L
D-Dimer	<250		ng/ml
Thrombin Time	0.8-1.2		
<b>Factor Assays</b>			
FII	87 – 129		u/dl
FV	66 – 135		u/dl
FVII	66 – 170		u/dl
FVIII	57 – 158		u/dl
FIX	82 – 166		u/dl
FX	76 – 171		u/dl
FXI	70 – 164		u/dl
FXII	64 – 183		u/dl
Chromogenic Factor VIII (Bovine)	0.67-1.44		u/ml
<b>von Willebrand Screen</b>			
Ristocetin Co-Factor (vWF:RCo)	47 – 154		u/dl
von Willebrand Factor Antigen (vWF:Ag)	48 – 175		u/dl
Von Willebrand Factor Collagen Binding Activity (vWF:CBA)	42 – 259		u/dl
<b>Thrombophilia Screen</b>			
Protein C Function	65 – 171		u/dl
Free Protein S	Male	75 – 139	u/dl
	Female	55 – 125	
Antithrombin	83 – 127		u/dl

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Lupus DRVVT Screen Ratio	0.78 – 1.22	Ratio
Lupus Normalised Ratio	0.83 – 1.19	Ratio
<b>Miscellaneous Tests</b>		
HIT Screen	<0.4 Negative; >0.4 – 1.0 weak positive; >1.0 Positive	OD
ADAMTS13 Activity	38 – 110	%
ADAMTS13 Inhibitor (IgG)	<12 Negative 12-15 Borderline >15 Positive	u/ml
Anti-Xa assay	Dose dependent. Discuss with Haematology Registrar	
Bethesda Assay	Negative <0.6 Low titre inhibitor <5.0 High-titre inhibitor >5.0	BU/ml
<b>Glycated Haemoglobin</b>		
HbA1c	20-42	mmol/mol
<b>Haemoglobinopathy</b>		
Hb A2	1.5 - 3.5	%
Hb F	0.2 - 1.0	%
Any amount of any variant other than Hb A, Hb A2 or HbF is abnormal.		

FBC Ranges adapted from B Bain Blood Cells-A Practical Guide 5th Ed and J.V Dacie & S.M Lewis Practical Haematology 12<sup>th</sup> Edition and following verification of new method.

Measurement Uncertainty of measured quality values available on request from Laboratory.