Hamilton Regional Laboratory Medicine Program

A Collaborative Program of the Hamilton Health Sciences,
St. Joseph's Healthcare and McMaster University

Hematology SI Units

HEMATOLOGY SYSTEM COMPONENT	PRESENT REFERENCE INTERVALS (examples)	PRESENT UNIT	CONVERSION FACTOR	SI REFERENCE INTERVALS	SI UNIT SYMBOL	SIGNIFICANT DIGITS
(B) Erc - Erythrocyte Sedimentation Rate - Female - Male	0-30 0-20	mm/hr mm/hr	1 1	0-30 0-20	mm/hr mm/hr	XX XX
B - Hematocrit Ercs vol fraction - Females - Males	33-43 39-49	% %	0.01 0.01	0.33-0.43 0.39-0.49	1 1	0.XX 0.XX
B -Hemoglobin (Hb) Mass Concentration - Female - Male	12.0-15.0 13.6-17.2	g/100 ml g/100 ml	10 10	120-150 136-172	g/L g/L	XXX XXX
Substance conc. Hb (Fe) - Female - Male	12.0-15.0 13.6-17.2	g/100 ml g/100 ml	0.6206 0.6206	7.45-9.31 8.44-10.67	mmol/L mmol/L	XX.XX XXXX
(B) Erc - Mean Corpuscular Hemoglobin (MCH) Mass	27-33	pg	1	27-33	pg	XX

The College of Nurses of Ontario gratefully acknowledges permission granted from *Hamilton Regional Laboratory Medicine Program* to disseminate this conversion table.

Substance conc. Hb (Fe)	27-33	pg	0.06206	1.68-2.05	fmol	X.XX
(B) Erc - Mean Corpuscular Hemoglobin Concentration (MCHC) Mass concentration	33-37	g/100 ml	10	330-370	g/L	>XX0
Substance conc. Hb. (Fe)	33-37	g/100 ml	0.6206	20-23	mmol/L	XX
(B) Erc - Mean Corpuscular Volume(MCV) Erythrocyte volume	76-100	μm^3	1	76-100	fL	XXX
B - Red Cell Count Erythrocytes (Ercs) - Female - Male	 3.5-5.0 4.3-5.9	 $10^6/mm^3$ $10^6/mm^3$	 1 1	 3.5-5.0 4.3-5.9	 $10^{12}/L$ $10^{12}/L^3$	 XX XX
(Sf) Ercs - Red Cell Count	0	mm^{-3}	1	0	$10^6/L$	XX
B - Reticulocyte Count (adults)	10,000-75,000	mm^{-3}	0.001	10-75	$10^9/L$	XX
Number Fraction	1-24	0/00 (number per 1000 Ercs)	1	1-24	10^{-3}	XX
	0.1-0.24	%	10	1-24	10^{-3}	XX
B - Thrombocytes (Platelets)	150-450	$10^3/mm^3$	1	150-450	$10^9/L$	XXX
(B) - Lkcs - White Cell Count (WBC)	3200-9800	mm^{-3}	0.001	3.2-9.8	$10^9/L$	XX.X
Number fraction ("differential")		%	0.01		1	0.XX
(Sf) Lkcs - White Cell Count	0-5	mm^{-3}	1	0-5	$10^6/L$	XX