

Procedure: Hematology Reference Ranges	Section: HCO100
Site: Main Laboratory	Manual: Hematology Rev. 5
Distribution: Kelowna, Penticton	KE Control Documents 1 of 4
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TITLE: VML Hematology- Adult Reference Intervals

WBC	4.0 – 10.0 x 10 ⁹ /L
RBC –Male RBC-Female	4.6 – 6.2 x 10 ¹² /L 4.2 – 5.4 x 10 ¹² /L
Hgb- Male Hgb- Female	140 – 180 g/L 120 – 160 g/L
Hct- Male Hct- Female	0.42 – 0.52 L/L 0.37 – 0.47 L/L
MCV	80 – 97 fl
MCH	27 – 31 pg
MCHC	320 – 360 g/L
Platelets	150 – 400 x 10 ⁹ /L
ESR Male ESR Female ESR Children	0 – 10 mm/ 1hr 0 – 20 mm/ 1hr 0 – 10 mm/ 1hr
Reticulocyte Count	35 – 120 x 10 ⁹ /L (0.5 – 2.0%) Manual Method 25 – 100 x 10 ⁹ /L Automated Method
Eosinophil Count	0.04 – 0.4 x 10 ⁹ /L

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<u>WBC Differential</u>	<u>Absolute x 10⁹/L</u>
Neutrophils	2.0 – 7.5
Bands	0.0 – 0.4
Lymphocytes	1.5 – 4.0
Monocytes	0.2 – 0.8
Eosinophils	0.04 – 0.4
Basophils	0.02 – 0.05

Adult Normal Range	
INR-Non-anticoagulated patient	0.8 – 1.2
PT (Prothrombin Time)	9.6-11.6 secs
APTT	23-36 secs
Children: INR	
Male age 1 – 5 years	0.8 – 1.1
Female age 1 – 5 years	0.8 – 1.1
Male age 6 – 17 years	0.8 – 1.2
Female age 6 – 17 years	0.8 – 1.2

Anticoagulated patient

Target INR is 2.5 with a range of 2.0-3.0 for most indications for Warfarin therapy.

Target INR is 3.0 with a range of 2.5-3.5 for the following indications:

- Mechanical heart valves in mitral position
- Non-bileaflet valve in aortic position (establish desired range with specialist)

Note: Please follow local cardiologist's recommendations if different from above.

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Manual Methods

ANA	Negative
Mono Test	Negative
Blood Parasites	Negative (none seen)
Eosinophil Smears(nasal/sputum)	Negative (none seen)
TTG	< 16 units – Negative

Note: This TTG assay is an IgA based method and may be falsely negative in IgA deficient patients.

FIT

FIT	Negative- 0 – 49ng/ml
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Note: Patients who are average risk should be re-screen in two years

References

1. Sysmex XN-2000 *Instructions for Use* (North American Edition), Sysmex Corporation, Kobe, Japan. “p.14-15”
2. BCGuidelines.ca: Warfarin Therapy Management (2015)
3. BC Children’s Hospital
4. Bio-Rad Manufacture Reference Range
5. BC Colon Screening Program 2015
6. BC Guideline for Warfarin (April 2015)

Initially effective July 1, 2000 Dr. D. Mulholland
 Revised and Reviewed January 2007 Dr. L. Argatoff & Dr. Delorme
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