

## Complete Blood Count: Sysmex XN-2000 Automated Hematology Analyzer

### IX. REPORTING ABNORMAL RESULTS TO PHYSICIANS:

#### Criteria for performing a Manual Differential

WBC	<2.0 mm <sup>3</sup>
Neutrophil Absolute #	>20.0
Lymphocyte Absolute #	>5.0
Monocyte Absolute #	>2.0 (1000)
Eosinophils Absolute #	>1.5 (1000)
Basophils Absolute #	>1.0 (1000)
Immature Granulocytes %	>5.0 %

#### Criteria for review of RBC Morphology:

First specimen received by laboratory on an admission will have a RBC morphology performed if the following criteria are met:

- Hct: <25%
- MCV <75 or >105
- RDW >22
- Hypo, Aniso, Micro, Macro analyzer flags.

All subsequent specimens will have the comment that the RBC Morphology has been previously reviewed.

### X. LIMITATIONS OF PROCEDURE

#### A. XN-Series Manufacturer Stated Linearity:

Parameter	Range	Units
WBC	0-440.0	x10 <sup>3</sup> /μL
RBC	0-8.60	x10 <sup>6</sup> /μL
HGB	0-26.0	g/dL
HCT	0-75.0	%
PLT, PLT-F	0-5000	x10 <sup>3</sup> /μL
RET%	0-30	%
NRBC%	0-600	/100 WBC

1. Parameters that exceed these limits are flagged with @ beside the result. The sample must be diluted, rerun and multiplied by the dilution factor.
2. Note the use of dilution for linearity on the patient report.

#### B. Possible Sample Interferences

1. Specimens must be free of clots and fibrin strands.

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Lymphocyte Absolute #	>5.0
Monocyte Absolute #	> <u>4.52.0</u> (1000) <u>1/22/2020 BH</u>
Eosinophils Absolute #	>1.5 (1000)
Basophils Absolute #	>1.0 (1000)
Immature Granulocytes %	>5.0 %

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