

DIFFERENTIAL  
LEUKOCYTE  
COUNT  
(PERIPHERAL  
BLOOD)

## Orderable - CBCD

Turn Around Time: > 4 hours

STAT: 2 hours

### Alternate Name(s):

White Blood Cell Differential  
Lymphocytes  
Monocytes  
Neutrophils  
Bands  
Eosinophils  
Basophils

### Specimen:

Adult	Pediatric Venous	Pediatric (Capillary)
4 mL K <sub>2</sub> EDTA (Lavender) Vacutainer tube	2 mL Paeds K <sub>2</sub> EDTA (Lavender) Vacutainer	0.5 mL K <sub>2</sub> EDTA (Lavender) Microtainer 0.5 mL K <sub>2</sub> EDTA (Lavender) Microtainer



**Laboratory:**  
Core Lab



**Requisition:**  
GENERAL LABORATORY  
REQUISITION



**Method of Analysis:**  
Automated differential generated by Hematology analyzer, based on characteristic light scattering properties. Confirmed with microscopic examination when required.

### Collection Information:

A differential may be added to a CBC (complete blood count) order up to 8 hours from collection of the sample. Red cell morphological assessment will not be completed if the sample is > 4 hours old.

### Reference Ranges:

Lymphocytes	
Age	Range
18 years-Adult:	1.0-4.0 x 10 <sup>9</sup> /L
10-17 years:	1.5-4.0 x 10 <sup>9</sup> /L
2-9 years:	2.0-8.0 x 10 <sup>9</sup> /L
1-23 months:	4.0-10.5 x 10 <sup>9</sup> /L

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Test Schedule:  
As required

Newborn-30 days:	2.0-17.0 x 10 <sup>9</sup> /L
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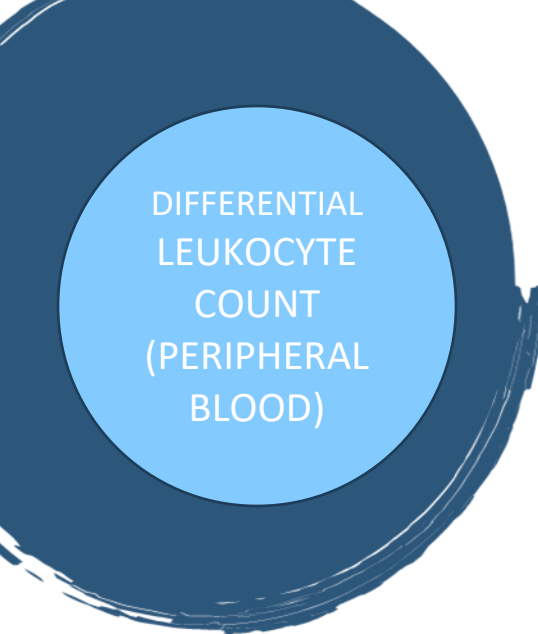
Monocytes	
Age	Range
18 years-Adult:	0.2-0.8 x 10 <sup>9</sup> /L
10-17 years:	0.2-0.8 x 10 <sup>9</sup> /L
2-9 years:	0.2-0.8 x 10 <sup>9</sup> /L
1-23 months:	0.2-1.5 x 10 <sup>9</sup> /L
Newborn-30 days:	0.2-3.1 x 10 <sup>9</sup> /L

Neutrophils	
Age	Range
18 years-Adult:	2.0-7.5 x 10 <sup>9</sup> /L Critical Low: 0.6 x 10 <sup>9</sup> /L
10-17 years:	1.5-8.0 x 10 <sup>9</sup> /L
2-9 years:	1.5-8.5 x 10 <sup>9</sup> /L
1-23 months:	1.5-8.5 x 10 <sup>9</sup> /L
Newborn-30 days:	6.0-26.0 x 10 <sup>9</sup> /L

Bands	
Age	Range
18 years-Adult:	0-0.5 x 10 <sup>9</sup> /L
10-17 years:	0-1.0 x 10 <sup>9</sup> /L
2-9 years:	0-1.0 x 10 <sup>9</sup> /L
1-23 months:	0-1.0 x 10 <sup>9</sup> /L
Newborn-30 days:	0-3.5 x 10 <sup>9</sup> /L

Eosinophils	
Age	Range
18 years-Adult:	0.0-0.4 x 10 <sup>9</sup> /L
10-17 years:	0-0.4 x 10 <sup>9</sup> /L
2-9 years:	0-0.5 x 10 <sup>9</sup> /L
1-23 months:	0-0.7 x 10 <sup>9</sup> /L
Newborn-30 days:	0-1.5 x 10 <sup>9</sup> /L

Basophils	
Age	Range
18 years-Adult:	0-0.1 x 10 <sup>9</sup> /L
10-17 years:	0-0.1 x 10 <sup>9</sup> /L
2-9 years:	0-0.1 x 10 <sup>9</sup> /L
1-23 months:	0-0.1 x 10 <sup>9</sup> /L
Newborn-30 days:	0-0.4 x 10 <sup>9</sup> /L



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**Critical Value:**

The presence of blasts and/or an absolute neutrophil count  $\leq 0.5 \times 10^9/L$

**Interpretive Comments:**

Normal ranges were adopted through consensus by the three London teaching hospitals (VH, UH, SJH). Adult reference ranges have been validated on current instrumentation by testing of normal donors.