## HEM 123-13-00 Effective Date: July 9, 2012

# **Reference Range**

### **Attachment C**

## **Cerebrospinal Fluid Reference Range:**

The inability to collect cerebrospinal fluid specimens in the normal, non-diseased population limits the ability to determine reference ranges. Literature suggests the following normal reference ranges.

RBC:	<b>Differentials:</b>		·	
Newborn preterm 0-1000/uL	Cells	Neonate	Adult	
Newborn term 0-800/uL	Neutrophils	0-8%	0-6%	
Neonate 0-50/uL	Lymphocytes	5-35%	40-80%	
>3 Months $0-5/uL$	Monocytes	50-90%	15-45%	
Adult 0-5/uL				
WBC:	(Adopted from	(Adopted from CAP, Color Atlas of Body		
0-1  months $0-27/uL$	Fluids 2006)			
2 months-16 years 0-7/uL	,			
Adults 0-5/uL				
(Adopted from CLSI, H56-A, VOL.25, N0. 20 guidelines)				

## **Interpretations:**

Reportable body fluid results may exceed commonly accepted normal reference ranges for all body fluids, so results should always be interpreted in light of the total clinical presentation of the patient, including clinical history, data from additional tests, and other appropriate information.

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## **Serous Fluids Reference Ranges:**

The accumulation of fluid in a serous cavity is an indication of a disease state. The normal, on-diseased population has no fluid accumulation. Therefore, there are no normal reference ranges for serous fluids. However, the number of cells present in a serous fluid is used to aid in the classification, diagnosis and treatment of disease.

## **Synovial Fluid Reference Ranges:**

The inability to collect synovial fluid specimens in the normal, non-diseased population limits the ability to determine reference ranges. Literature suggests the following normal reference ranges.

## Other Body Fluid Values:

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	Pleural	Peritoneal	Synovial		
Color			Colorless/pale or		
			yellow		
Clarity			Transparent		
Viscosity			Very high		
<b>Nucleated Count</b>	1395-3734/uL	0-84/uL	13-180/uL		
RBC		0-72/uL	0-2000/uL		
Neutrophils	0-1%	2-34%	0-25%		
Lymphocytes	18-36%	0-50%	0-78%		
Macrophange	64-80%	9-61%	0-71%		
Eos		0-14%			
Baso		1-5%			
Mesothelial	0-2%				
Synoviocytes			0-12%		
Histocytes			0-26%		
Volume	4.1-12.7 mL				

(Adopted from CLSI, H56-A, VOL.25, N0. 20 guidelines)

### **Interpretations:**

Reportable body fluid results may exceed commonly accepted normal reference ranges for all body fluids, so results should always be interpreted in light of the total clinical presentation of the patient, including clinical history, data from additional tests, and other appropriate information.