

**VUMC Diagnostic Laboratories Hematology Labs
Sysmex Complete Blood Count Reference Ranges**

Test	Unit	Sex	Age	Ref Range	Test	Unit	Sex	Age	Ref Range
WBC	10 ³ /uL	B	0-1 week	9.4-31.1	RDW SD	fl	B	All	37.4-52.4
		B	8-30 days	4.3-18.3					
		B	1 mo-6 yrs	4.0-14.6					
		B	7-11 yrs	4.0-13.2					
		B	12-17 yrs	3.4-10.2					
		B	18+ yrs	3.9-10.7					
RBC	10 ⁶ /uL	B	0-1 week	4.4-5.8	RDW CV	%	B	All	11.1-14.3
		B	8-30 days	3.8-5.5					
		B	1 mo-6 yrs	3.8-5.5					
		B	7-11 yrs	3.8-5.5					
		B	12-17 yrs	3.8-5.5					
		F	18+ yrs	4.0-5.5					
		M	18+ yrs	4.5-6.0					
HGB	g/dl	B	0-7 days	13.5-22.6	MPV	fl		0-7 days	10.2-12.0
		B	8-30 days	12.5-20.6				8-30days	10.0-12.2
		B	1-2 mo.	10.0-18.1				1mo-1yr	8.7-11.0
		B	3-6 mo.	9.0-14.0				2-7yrs	9.2-11.4
		B	7 mo-6 yrs.	10.5-13.5				8-12yrs	9.6-11.8
		B	7-11 yrs.	11.4-15.5				13-18yrs	9.3-12.8
		B	12-17 yrs.	12.0-16.0				18+yrs	9.3-12.8
		F	18+ yrs.	11.8-16.0					
		B	18+ yrs.	14.0-18.1					
		M	18+ yrs.	14.0-18.1					
HCT	%	B	0-7 days	41-65	RET%	%	B	All	0.5-1.8
		B	8-30 days	38-61					
		B	1-2 mo	31-54					
		B	3-6 mo	28-40					
		B	7 mo-6 yrs	32-39					
		B	7-11 yrs	34-44					
		B	12-17 yrs	35-49					
		F	18+ yrs	36-43					
		B	18+ yrs	41-49					
		M	18+ yrs	41-49					
MCV	fl	B	0-7 days	93-118	RET#	10 ⁶ /uL		0-30 days	0.063-0.271
		B	8-30 days	84-118				1 mo-2 yrs	0.018-0.108
		B	1-2 mo	75-112				3-17 yrs	0.018-0.072
		B	3-6 mo	72-106				18+ yrs	0.02-0.100
		B	7 mo-6 yrs	69-85					
		B	7-11 yrs	75-93					
		B	12-17 yrs	76-96					
		B	18+ yrs	81-98					
MCH	pg	B	0-7 days	28.0-40.0	RETHE	pg	M	All	29.8-40.4
		B	8-30 days	28.0-40.0					
		B	1-2 mo	26.0-38.0					
		B	3-6 mo	25.0-35.0					
		B	7 mo-6 yrs	23.0-31.0					
		B	7-11 yrs	25.0-33.0					
		B	12-17 yrs	25.0-35.0					
		B	18+ yrs	27.0-32.0					
MCHC		B	0-7 days	29.0-38.0	IRF	%	M	All	2.6-20.4
		B	8-30 days	30.0-37.0					
		B	1-2 mo	30.0-37.0					
		B	3-6 mo	31.0-36.0					
		B	7 mo-6 yrs	31.0-37.0					
		B	7-17 yrs	32.0-37.0					
		B	18+ yrs	31.0-35.0					
		F	18+ yrs	31.0-35.0					
PLT	10 ³ /uL	B	0-7 days	140-300	IPF	%	B	All	1.6-8.1
		B	8-30 days	200-470					
		B	1 mo-6 yrs	150-400					
		B	7-11 yrs	150-400					
		B	12-17 yrs	150-400					
		B	18+ yrs	135-371					

Test	Unit	Sex	Age	Ref Range		Test	Unit	Sex	Age	Ref Range
Neutrophils	%	B	0-1 days	50.0-79.0		Eos	%	B	0-1 days	0.0-6.0
		B	2-31 days	25.0-67.0				B	2-31 days	0.0-10.0
		B	1-6 mo	20.0-40.0				B	1 mo-17 yrs	0.0-9.0
		B	7 mo-2 yrs	22.0-45.0				B	18+ yrs	0.4-7.5
		B	3-5 yrs	32.0-54.0						
		B	6-10 yrs	39.0-67.0						
		B	11-17 yrs	45.0-67.0						
		B	18+ yrs	35.0-75.0						
	10 ³ /uL	B	0-30 days	5.9-19.9		10 ³ /uL	B	All	0.03-0.51	
		B	1-11 mo	1.5-7.7						
		B	1-6 yrs	1.7-7.7						
		B	7-11 yrs	1.7-7.7						
		B	12-17 yrs	1.8-7.7						
		B	18+ yrs	1.6-8.1						
Lymphs	%	B	0-1 days	15.0-38.0	Basos	%	B	0-17 yrs	0.0-2.0	
		B	2-31 days	28.0-62.0			B	18+ yrs	0.1-1.5	
		B	1 mo-2 yrs	47.0-67.0						
		B	3-5 yrs	37.0-59.0						
		B	6-10 yrs	26.0-48.0						
		B	11-17 yrs	24.0-44.0						
		B	18+ yrs	15.0-49.0						
		10 ³ /uL	B	0-30 days			2.8-9.6	10 ³ /uL	B	All
	B		1-11 mo	2.5-9.8						
	B		1-6 yrs	2.0-6.2						
	B		7-11 yrs	1.8-4.9						
	B		12-17 yrs	1.7-4.5						
	B		18+ yrs	1.1-3.5						
	Monos	%	B	0-1 days	2.0-13.0	Imm Gran	%	B	All	0.0-0.6
B			2-31 days	2.0-19.0						
B			1 mo-17 yrs	1.0-13.0						
B			18+ yrs	3.5-12.0						
10 ³ /uL		B	0-30 days	0.2-1.0	10 ³ /uL	B	All	0.0-0.03		
		B	1-11 mo	0.2-1.0						
		B	1-6 yrs	0.2-0.9						
		B	7-11 yrs	0.2-0.9						
		B	12-17 yrs	0.2-1.0						
		B	18+ yrs	0.3-1.1						