

# Clinical Laboratory Reference Range List 2019

## HEMATOLOGY

Type	Male		Female		Units		Age Range if Applicable
	Lower	Upper	Lower	Upper			
RBC	4.44	6.1	4.2	5.4	<input type="checkbox"/>	/uL	
					<input type="checkbox"/>	10 <sup>12</sup> /L	
					<input checked="" type="checkbox"/>	k/cmm	
Hemoglobin	13.9	18.0	13	16	<input type="checkbox"/>	g/L	
					<input checked="" type="checkbox"/>	g/dL	
					<input type="checkbox"/>	mmol/L	
					<input type="checkbox"/>		
Hematocrit	41	52	37	47	<input checked="" type="checkbox"/>	%	
					<input type="checkbox"/>	L/L	
					<input type="checkbox"/>	frac of 1	
					<input type="checkbox"/>		
Platelets	130	440	130	400	<input type="checkbox"/>	/uL	
					<input type="checkbox"/>	10 <sup>9</sup> /L	
					<input checked="" type="checkbox"/>	k/cmm	
WBC	4.6	10.8	4.8	10.8	<input type="checkbox"/>	/uL	
					<input type="checkbox"/>	10 <sup>9</sup> /L	
					<input checked="" type="checkbox"/>	k/cmm	
Granulocytes	0	2	0	2	<input checked="" type="checkbox"/>	%	
					<input type="checkbox"/>	10 <sup>9</sup> /L	
					<input type="checkbox"/>		
Neutrophils	54	65	54	65	<input checked="" type="checkbox"/>	%	
					<input type="checkbox"/>	10 <sup>9</sup> /L	
					<input type="checkbox"/>		
Segmented Neutrophils	54	65	54	65	<input checked="" type="checkbox"/>	%	
					<input type="checkbox"/>	10 <sup>9</sup> /L	
					<input type="checkbox"/>		
Bands/Stabs	0	.8	0	.8	<input type="checkbox"/>	%	
					<input type="checkbox"/>	10 <sup>9</sup> /L	
					<input checked="" type="checkbox"/>	k/cmm	

Type	Male		Female		Units		Age Range if Applicable
	Lower	Upper	Lower	Upper			
Eosinophils	0	3	0	3	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	% 10 <sup>9</sup> /L	
Basophils	0	2	0	2	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	% 10 <sup>9</sup> /L	
Lymphocytes	25	33	25	33	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	% 10 <sup>9</sup> /L	
Monocytes	3	7	3	7	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	% 10 <sup>9</sup> /L	
Myeloblasts	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	% 10 <sup>9</sup> /L	
Promyelocytes	0	0	0	0	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	% 10 <sup>9</sup> /L	
Myelocytes	0	0	0	0	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	% 10 <sup>9</sup> /L	
Metamyelocytes	0	0	0	0	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	% 10 <sup>9</sup> /L	
Atypical Lymphocytes	0	OCC	0	OCC	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	% 10 <sup>9</sup> /L	

\*Blasts, Promyelocytes, Myelocytes, Metamyelocytes, and Atypical Lymphs are considered abnormal results and the normal ranges in Vista are listed as reference low of zero to reference high of zero. Additionally, Blasts are considered a critical value when they are reported

## CHEMISTRY

Type	Male		Female		Units		Age Range if Applicable
	Lower	Upper	Lower	Upper			
Sodium	135	145	135	145	<input type="checkbox"/>	mEq/L	
					<input type="checkbox"/>	mmol/L	
					<input checked="" type="checkbox"/>	Mg/dL	
Potassium	3.5	5.0	3.5	5.0	<input type="checkbox"/>	mEq/L	
					<input checked="" type="checkbox"/>	mmol/L	
					<input type="checkbox"/>	_____	
Chloride	98	108	98	108	<input type="checkbox"/>	mEq/L	
					<input checked="" type="checkbox"/>	mmol/L	
					<input type="checkbox"/>	_____	
Total Protein	6.0	8.2	6.0	8.2	<input type="checkbox"/>	g/L	
					<input checked="" type="checkbox"/>	g/dL	
					<input type="checkbox"/>	_____	
Albumin	3.5	5.0	3.5	5.0	<input type="checkbox"/>	g/L	
					<input checked="" type="checkbox"/>	g/dL	
					<input type="checkbox"/>	_____	
Total Calcium	8.4	10.5	8.4	10.5	<input checked="" type="checkbox"/>	mg/dL	
					<input type="checkbox"/>	mmol/L	
					<input type="checkbox"/>	_____	
Corrected Calcium	OR				<input type="checkbox"/>	mg/dL	
					<input type="checkbox"/>	mmol/L	
					<input type="checkbox"/>	_____	
Magnesium	1.7	2.5	1.7	2.5	<input type="checkbox"/>	mEq/L	
					<input type="checkbox"/>	mg/L	
					<input checked="" type="checkbox"/>	mg/dL	
					<input type="checkbox"/>	mmol/L	
					<input type="checkbox"/>	_____	
Phosphorus	2.5	4.6	2.5	4.6	<input checked="" type="checkbox"/>	mg/dL	
					<input type="checkbox"/>	mmol/L	
					<input type="checkbox"/>	_____	

Type	Male		Female		Units		Age Range if Applicable
	Lower	Upper	Lower	Upper			
Random Glucose	65	99	65	99	<input checked="" type="checkbox"/>	mg/dL	
					<input type="checkbox"/>	mmol/L	
					<input type="checkbox"/>	_____	
BUN	9	20	9	20	<input checked="" type="checkbox"/>	mg/dL	
					<input type="checkbox"/>	mmol/L	
					<input type="checkbox"/>	_____	
Urea	OR				<input type="checkbox"/>	mg/dL	
					<input type="checkbox"/>	mmol/L	
					<input type="checkbox"/>	_____	
Creatinine	.5	1.2	.5	1.2	<input checked="" type="checkbox"/>	mg/dL	
					<input type="checkbox"/>	umol/L	
					<input type="checkbox"/>	_____	
Uric Acid	3.5	8.5	3.5	8.5	<input checked="" type="checkbox"/>	mg/dL	
					<input type="checkbox"/>	mmol/L	
					<input type="checkbox"/>	umol/L	
					<input type="checkbox"/>	_____	
Total Bilirubin	0	1.3	0	1.3	<input checked="" type="checkbox"/>	mg/dL	
					<input type="checkbox"/>	umol/L	
					<input type="checkbox"/>	_____	
Alkaline Phosphatase	0	125	0	125	<input checked="" type="checkbox"/>	U/L	
					<input type="checkbox"/>	ukat/L	
					<input type="checkbox"/>	_____	
LDH	60	200	60	200	<input checked="" type="checkbox"/>	U/L	
					<input type="checkbox"/>	ukat/L	
					<input type="checkbox"/>	_____	
AST (SGOT)	0	45	0	45	<input checked="" type="checkbox"/>	U/L	
					<input type="checkbox"/>	ukat/L	
					<input type="checkbox"/>	_____	
ALT (SGPT)	0	40	0	40	<input checked="" type="checkbox"/>	U/L	
					<input type="checkbox"/>	ukat/L	
					<input type="checkbox"/>	_____	
Carbon Dioxide	23	35	23	35	<input type="checkbox"/>	mEq/L	
					<input checked="" type="checkbox"/>	mmol/L	
					<input type="checkbox"/>	_____	
Bicarbonate	OR				<input type="checkbox"/>	mEq/L	
					<input type="checkbox"/>	mmol/L	
					<input type="checkbox"/>	_____	