






CBC Reference Ranges & Abnormal Values Guide


COMPLETE BLOOD COUNT (CBC) REFERENCE RANGES & ABNORMAL VALUES GUIDE

— Understand your lab results. Always discuss with your healthcare professional. —






RED BLOOD CELL (RBC) COMPONENTS

COMPONENT	NORMAL RANGE	ABNORMAL VALUES
 Red Blood Cell Count (RBC)	<ul style="list-style-type: none"> Men: 4.7 to 6.1 million cells/μL Women: 4.2 to 5.4 million cells/μL Children: 4.1 to 5.5 million cells/μL 	<p>↑ High: Polycythemia, dehydration, or heart disease.</p> <p>↓ Low: Anemia, blood loss, or nutritional deficiencies.</p>
 Hemoglobin (Hgb)	<ul style="list-style-type: none"> Men: 13.8 to 17.2 g/dL Women: 12.1 to 15.1 g/dL Children: 11.1 to 16.1 g/dL 	<p>↑ High: Dehydration, smoking, or lung disease.</p> <p>↓ Low: Anemia or chronic disease.</p>
 Hematocrit (Hct)	<ul style="list-style-type: none"> Men: 40.7% to 50.3% Women: 36.1% to 44.3% Children: 32.9% to 39.9% 	<p>↑ High: Dehydration or high altitude.</p> <p>↓ Low: Anemia, blood loss, or overhydration.</p>
 Mean Corpuscular Volume (MCV)	<ul style="list-style-type: none"> Normal Range: 80 to 100 fL 	<p>↑ High: Macrocytic anemia (e.g., B12 or folate deficiency).</p> <p>↓ Low: Microcytic anemia (e.g., iron deficiency).</p>
 Mean Corpuscular Hemoglobin (MCH)	<ul style="list-style-type: none"> Normal Range: 27 to 33 pg/cell 	<p>↑ High: Macrocytic anemia.</p> <p>↓ Low: Microcytic anemia.</p>


WHITE BLOOD CELL (WBC) COMPONENTS

 Total White Blood Cell Count (WBC)	<ul style="list-style-type: none"> Normal Range: 4,500 to 11,000 cells/μL 	<p>↑ High: Infection, inflammation, or leukemia.</p> <p>↓ Low: Immune suppression, bone marrow disorders, or severe infections.</p>
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DIFFERENTIAL COUNTS

 Neutrophils	<ul style="list-style-type: none"> Normal Range: 40% to 60% of total WBCs (2,000 to 7,500 cells/μL) 	<p>↑ High: Bacterial infections or stress.</p> <p>↓ Low: Severe infections or chemotherapy.</p>
 Lymphocytes	<ul style="list-style-type: none"> Normal Range: 20% to 40% of total WBCs (1,000 to 4,800 cells/μL) 	<p>↑ High: Viral infections or chronic inflammation.</p> <p>↓ Low: Immune deficiency or corticosteroid use.</p>
 Monocytes	<ul style="list-style-type: none"> Normal Range: 2% to 8% of total WBCs (100 to 700 cells/μL) 	<p>↑ High: Chronic infections or autoimmune diseases.</p> <p>↓ Low: Rare but may indicate bone marrow issues.</p>
 Eosinophils	<ul style="list-style-type: none"> Normal Range: 1% to 4% of total WBCs (50 to 500 cells/μL) 	<p>↑ High: Allergies or parasitic infections.</p> <p>↓ Low: Typically not clinically significant.</p>
 Basophils	<ul style="list-style-type: none"> Normal Range: 0.5% to 1% of total WBCs (25 to 100 cells/μL) 	<p>↑ High: Chronic inflammation or certain cancers.</p> <p>↓ Low: Often not significant.</p>

PLATELET COUNT

 Platelet Count	<ul style="list-style-type: none"> Normal Range: 150,000 to 450,000 platelets/μL 	<p>↑ High: Risk of blood clots (e.g., thrombocytosis).</p> <p>↓ Low: Risk of bleeding (e.g., thrombocytopenia).</p>
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IMPORTANT: Lab results can vary between laboratories and individuals. Always consult your healthcare professional for proper interpretation.

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