

**The Lucky 13**  
**Basic Labs**

<b>Patient 1: 12/F</b>		
<b>Test</b>	<b>Result</b>	<b>Reference Range</b>
<b>CBC with Differential</b>	WBC: $8.5 \times 10^3/\mu\text{L}$ ; RBC: $4.2 \times 10^6/\mu\text{L}$ ; Platelets: $250 \times 10^3/\mu\text{L}$ ; Neutrophils: 55%; Lymphocytes: 35%; Monocytes: 7%; Eosinophils: 2%; Basophils: 1%	WBC: 4.5–13.5 $\times 10^3/\mu\text{L}$ (pediatric); RBC: 4.0–5.2 $\times 10^6/\mu\text{L}$ ; Platelets: 150–450 $\times 10^3/\mu\text{L}$
<b>Hemoglobin (Hb)</b>	11.2 g/dL	11.5–15.5 g/dL (pediatric females)
<b>Malaria RDT</b>	Negative	N/A
<b>TB Sputum Smear</b>	Negative	N/A

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<b>Patient 2: 28/M</b>		
<b>Test</b>	<b>Result</b>	<b>Reference Range</b>
<b>CBC with Differential</b>	WBC: $9.2 \times 10^3/\mu\text{L}$ ; RBC: $4.8 \times 10^6/\mu\text{L}$ ; Platelets: $220 \times 10^3/\mu\text{L}$ ; Neutrophils: 60%; Lymphocytes: 30%; Monocytes: 8%; Eosinophils: 1%; Basophils: 1%	WBC: $4.5\text{--}11.0 \times 10^3/\mu\text{L}$ ; RBC: $4.5\text{--}5.9 \times 10^6/\mu\text{L}$ ; Platelets: $150\text{--}450 \times 10^3/\mu\text{L}$
<b>Hemoglobin (Hb)</b>	13.8 g/dL	13.5–17.5 g/dL (males)
<b>Malaria RDT</b>	Positive (P. falciparum)	N/A
<b>TB Sputum Smear</b>	Negative	N/A

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<b>Patient 3: 35/F</b>		
<b>Test</b>	<b>Result</b>	<b>Reference Range</b>
<b>CBC with Differential</b>	WBC: $7.8 \times 10^3/\mu\text{L}$ ; RBC: $4.0 \times 10^6/\mu\text{L}$ ; Platelets: $280 \times 10^3/\mu\text{L}$ ; Neutrophils: 52%; Lymphocytes: 38%; Monocytes: 6%; Eosinophils: 3%; Basophils: 1%	WBC: $4.5\text{--}11.0 \times 10^3/\mu\text{L}$ ; RBC: $4.0\text{--}5.2 \times 10^6/\mu\text{L}$ ; Platelets: $150\text{--}450 \times 10^3/\mu\text{L}$
<b>Hemoglobin (Hb)</b>	11.5 g/dL	12.0–16.0 g/dL (females)
<b>Malaria RDT</b>	Negative	N/A
<b>TB Sputum Smear</b>	Positive (few AFB)	N/A

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<b>Patient 4: 45/M</b>		
<b>Test</b>	<b>Result</b>	<b>Reference Range</b>
<b>CBC with Differential</b>	WBC: $10.5 \times 10^3/\mu\text{L}$ ; RBC: $4.5 \times 10^6/\mu\text{L}$ ; Platelets: $200 \times 10^3/\mu\text{L}$ ; Neutrophils: 65%; Lymphocytes: 25%; Monocytes: 9%; Eosinophils: 1%; Basophils: 0%	WBC: $4.5\text{--}11.0 \times 10^3/\mu\text{L}$ ; RBC: $4.5\text{--}5.9 \times 10^6/\mu\text{L}$ ; Platelets: $150\text{--}450 \times 10^3/\mu\text{L}$
<b>Hemoglobin (Hb)</b>	13.2 g/dL	13.5–17.5 g/dL (males)
<b>Malaria RDT</b>	Negative	N/A
<b>TB Sputum Smear</b>	Negative	N/A

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<b>Patient 5: 52/F</b>		
<b>Test</b>	<b>Result</b>	<b>Reference Range</b>
<b>CBC with Differential</b>	WBC: $9.0 \times 10^3/\mu\text{L}$ ; RBC: $3.8 \times 10^6/\mu\text{L}$ ; Platelets: $240 \times 10^3/\mu\text{L}$ ; Neutrophils: 58%; Lymphocytes: 32%; Monocytes: 7%; Eosinophils: 2%; Basophils: 1%	WBC: $4.5\text{--}11.0 \times 10^3/\mu\text{L}$ ; RBC: $4.0\text{--}5.2 \times 10^6/\mu\text{L}$ ; Platelets: $150\text{--}450 \times 10^3/\mu\text{L}$
<b>Hemoglobin (Hb)</b>	11.8 g/dL	12.0–16.0 g/dL (females)
<b>Malaria RDT</b>	Positive (P. vivax)	N/A
<b>TB Sputum Smear</b>	Negative	N/A

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<b>Patient 6: 8/M</b>		
<b>Test</b>	<b>Result</b>	<b>Reference Range</b>
<b>CBC with Differential</b>	WBC: $11.0 \times 10^3/\mu\text{L}$ ; RBC: $4.3 \times 10^6/\mu\text{L}$ ; Platelets: $300 \times 10^3/\mu\text{L}$ ; Neutrophils: 50%; Lymphocytes: 40%; Monocytes: 5%; Eosinophils: 4%; Basophils: 1%	WBC: $5.0\text{--}14.5 \times 10^3/\mu\text{L}$ (pediatric); RBC: $4.0\text{--}5.2 \times 10^6/\mu\text{L}$ ; Platelets: $150\text{--}450 \times 10^3/\mu\text{L}$
<b>Hemoglobin (Hb)</b>	11.9 g/dL	11.5–15.5 g/dL (pediatric males)
<b>Malaria RDT</b>	Negative	N/A
<b>TB Sputum Smear</b>	Negative	N/A

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<b>Patient 7: 60/M</b>		
<b>Test</b>	<b>Result</b>	<b>Reference Range</b>
<b>CBC with Differential</b>	WBC: $12.2 \times 10^3/\mu\text{L}$ ; RBC: $4.1 \times 10^6/\mu\text{L}$ ; Platelets: $180 \times 10^3/\mu\text{L}$ ; Neutrophils: 68%; Lymphocytes: 22%; Monocytes: 8%; Eosinophils: 1%; Basophils: 1%	WBC: $4.5\text{--}11.0 \times 10^3/\mu\text{L}$ ; RBC: $4.5\text{--}5.9 \times 10^6/\mu\text{L}$ ; Platelets: $150\text{--}450 \times 10^3/\mu\text{L}$
<b>Hemoglobin (Hb)</b>	12.8 g/dL	13.5–17.5 g/dL (males)
<b>Malaria RDT</b>	Negative	N/A
<b>TB Sputum Smear</b>	Positive (moderate AFB)	N/A

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	<b>Patient 8: 22/F</b>	
<b>Test</b>	<b>Result</b>	<b>Reference Range</b>
<b>CBC with Differential</b>	WBC: $8.0 \times 10^3/\mu\text{L}$ ; RBC: $4.4 \times 10^6/\mu\text{L}$ ; Platelets: $260 \times 10^3/\mu\text{L}$ ; Neutrophils: 54%; Lymphocytes: 36%; Monocytes: 6%; Eosinophils: 3%; Basophils: 1%	WBC: $4.5\text{--}11.0 \times 10^3/\mu\text{L}$ ; RBC: $4.0\text{--}5.2 \times 10^6/\mu\text{L}$ ; Platelets: $150\text{--}450 \times 10^3/\mu\text{L}$
<b>Hemoglobin (Hb)</b>	12.3 g/dL	12.0–16.0 g/dL (females)
<b>Malaria RDT</b>	Negative	N/A
<b>TB Sputum Smear</b>	Negative	N/A

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<b>Patient 9: 40/M</b>		
<b>Test</b>	<b>Result</b>	<b>Reference Range</b>
<b>CBC with Differential</b>	WBC: $9.5 \times 10^3/\mu\text{L}$ ; RBC: $4.6 \times 10^6/\mu\text{L}$ ; Platelets: $210 \times 10^3/\mu\text{L}$ ; Neutrophils: 62%; Lymphocytes: 28%; Monocytes: 7%; Eosinophils: 2%; Basophils: 1%	WBC: $4.5\text{--}11.0 \times 10^3/\mu\text{L}$ ; RBC: $4.5\text{--}5.9 \times 10^6/\mu\text{L}$ ; Platelets: $150\text{--}450 \times 10^3/\mu\text{L}$
<b>Hemoglobin (Hb)</b>	13.5 g/dL	13.5–17.5 g/dL (males)
<b>Malaria RDT</b>	Positive (mixed infection)	N/A
<b>TB Sputum Smear</b>	Negative	N/A

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<b>Patient 10: 15/F</b>		
<b>Test</b>	<b>Result</b>	<b>Reference Range</b>
<b>CBC with Differential</b>	WBC: $8.8 \times 10^3/\mu\text{L}$ ; RBC: $4.1 \times 10^6/\mu\text{L}$ ; Platelets: $270 \times 10^3/\mu\text{L}$ ; Neutrophils: 53%; Lymphocytes: 37%; Monocytes: 6%; Eosinophils: 3%; Basophils: 1%	WBC: $4.5\text{--}13.5 \times 10^3/\mu\text{L}$ (adolescent); RBC: $4.0\text{--}5.2 \times 10^6/\mu\text{L}$ ; Platelets: $150\text{--}450 \times 10^3/\mu\text{L}$
<b>Hemoglobin (Hb)</b>	11.6 g/dL	11.5–15.5 g/dL (pediatric females)
<b>Malaria RDT</b>	Negative	N/A
<b>TB Sputum Smear</b>	Negative	N/A

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<b>Patient 11: 17/F (Pregnant)</b>		
<b>Test</b>	<b>Result</b>	<b>Reference Range</b>
<b>CBC with Differential</b>	WBC: $10.0 \times 10^3/\mu\text{L}$ ; RBC: $3.9 \times 10^6/\mu\text{L}$ ; Platelets: $230 \times 10^3/\mu\text{L}$ ; Neutrophils: 60%; Lymphocytes: 30%; Monocytes: 7%; Eosinophils: 2%; Basophils: 1%	WBC: $5.0\text{--}15.0 \times 10^3/\mu\text{L}$ (pregnancy-adjusted); RBC: $3.5\text{--}5.0 \times 10^6/\mu\text{L}$ ; Platelets: $150\text{--}450 \times 10^3/\mu\text{L}$
<b>Hemoglobin (Hb)</b>	10.5 g/dL	11.0–15.0 g/dL (pregnancy-adjusted)
<b>Malaria RDT</b>	Negative	N/A
<b>TB Sputum Smear</b>	Negative	N/A

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<b>Patient 12: 18/F (Pregnant)</b>		
<b>Test</b>	<b>Result</b>	<b>Reference Range</b>
<b>CBC with Differential</b>	WBC: $11.5 \times 10^3/\mu\text{L}$ ; RBC: $3.7 \times 10^6/\mu\text{L}$ ; Platelets: $200 \times 10^3/\mu\text{L}$ ; Neutrophils: 65%; Lymphocytes: 25%; Monocytes: 8%; Eosinophils: 1%; Basophils: 1%	WBC: $5.0\text{--}15.0 \times 10^3/\mu\text{L}$ (pregnancy-adjusted); RBC: $3.5\text{--}5.0 \times 10^6/\mu\text{L}$ ; Platelets: $150\text{--}450 \times 10^3/\mu\text{L}$
<b>Hemoglobin (Hb)</b>	10.7 g/dL	11.0–15.0 g/dL (pregnancy-adjusted)
<b>Malaria RDT</b>	Positive (P. falciparum)	N/A
<b>TB Sputum Smear</b>	Negative	N/A

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<b>Patient 13: 19/F (Pregnant)</b>		
<b>Test</b>	<b>Result</b>	<b>Reference Range</b>
<b>CBC with Differential</b>	WBC: $9.5 \times 10^3/\mu\text{L}$ ; RBC: $4.0 \times 10^6/\mu\text{L}$ ; Platelets: $250 \times 10^3/\mu\text{L}$ ; Neutrophils: 55%; Lymphocytes: 35%; Monocytes: 6%; Eosinophils: 3%; Basophils: 1%	WBC: $5.0\text{--}15.0 \times 10^3/\mu\text{L}$ (pregnancy-adjusted); RBC: $3.5\text{--}5.0 \times 10^6/\mu\text{L}$ ; Platelets: $150\text{--}450 \times 10^3/\mu\text{L}$
<b>Hemoglobin (Hb)</b>	10.9 g/dL	11.0–15.0 g/dL (pregnancy-adjusted)
<b>Malaria RDT</b>	Negative	N/A
<b>TB Sputum Smear</b>	Negative	N/A