

# Lab Value Overview

Category	Lab Value	Unit	Normal Range
Haematology	"leukocytes"	cells/ $\mu$ L	"normal": [4000, 10000]
Haematology	"erythrocytes"	cells/pL	"m": [4.3, 5.9] "w": [3.5, 5.0]
Haematology	"haemoglobin"	g/dL	"m": [13, 17] "w": [12, 15]
Haematology	"hematocrit"	%	"m": [40, 51] "w": [35, 45]
Haematology	"reticulocytes"	%	"normal": [1.1, 3.5]
Haematology	"mcv"	fL	"normal": [81, 100]
Haematology	"mch"	pg	"normal": [27, 34]
Haematology	"mchc"	g/L	"normal": [320, 360]
Haematology	"thrombocytes"	cells/nL	"normal": [150, 400]
Haematology	"band_neutrophils"	cells/nL	"normal": [150, 400]
Haematology	"segmented_neutrophils"	cells/nL	"normal": [3000, 5800]
Haematology	"lymphocytes"	cells/nL	"normal": [1500, 3000]
Haematology	"monocytes"	cells/nL	"normal": [285, 500]
Haematology	"eosinophils"	cells/nL	"normal": [50, 250]
Haematology	"basophils"	cells/nL	"normal": [15, 50]
Haematology	"haptoglobin"	mg/dl	"normal": [30, 200]
Electrolytes	"sodium"	mmol/L	"normal": [135, 145]
Electrolytes	"potassium"	mmol/L	"normal": [3.6, 5.2]
Electrolytes	"chloride"	mmol/L	"normal": [98, 106]
Electrolytes	"calcium_total"	mmol/L	"normal": [2.20, 2.65]
Electrolytes	"phosphate"	mmol/L	"normal": [0.84, 1.45]
Electrolytes	"magnesium"	mg/dL	"m": [1.8, 2.6] "w": [1.9, 2.5]

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Renal Function Diagnostics	"creatinine"	mg/dL	"m": [null, 1.1]
			"w": [null, 0.9]
Renal Function Diagnostics	"urea"	mg/dL	"18-65": [9, 23]
			"66-100": [null, 33]
Renal Function Diagnostics	"uric_acid"	mg/dL	"m": [3.6, 8.2]
			"w": [2.3, 6.1]
Liver Function Diagnostics	"ast"	U/L	"m": [null, 35]
			"w": [null, 30]
Liver Function Diagnostics	"alt"	U/L	"m": [null, 45]
			"w": [null, 35]
Liver Function Diagnostics	"ggt" (Gamma-GT)	U/L	"m": [null, 55]
			"w": [null, 38]
Liver Function Diagnostics	"ap" (Alkaline Phosphatase)	U/L	"m": [40, 130]
			"w": [35, 105]
Liver Function Diagnostics	"albumin"	g/L	"normal": [35, 50]
Liver Function Diagnostics	"total_protein"	g/L	"normal": [65, 85]

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Liver Function Diagnostics	"bilirubin_total"	mg/dL	"normal": [null, 1.1]
Liver Function Diagnostics	"bilirubin_direct"	mg/dL	"normal": [null, 0.6]
Liver Function Diagnostics	"bileacids"	μmol/l	"normal": [null, 8]
Pancreatic Function Diagnostics	"amylase"	U/L	"normal": [null, 100]
Pancreatic Function Diagnostics	"lipase"	U/L	"normal": [null, 60]
Diabetes Diagnostics	"hba1c"	%	"normal": [4, 6]
Diabetes Diagnostics	"fasting_glucose"	mg/dL	"normal": [55, 99]
			"normal_during_pregnancy": [55, 91]
Diabetes Diagnostics	"ogtt_2h" /Oral Glucose Tolerance Test (2 Hours)	mg/dL	"normal": [null, 139]
			"normal_during_pregnancy": [null, 152]
Lipid Profile	"total_cholesterol"	mg/dL	"normal": [null, 200]
Lipid Profile	"hdl"	mg/dL	"normal": [35, null]
Lipid Profile	"ldl"	mg/dL	"normal": [null, 155]
Lipid Profile	"triglycerides"	mg/dL	"normal": [null, 200]
Cardiac Markers	"ck" (Creatine Kinase , Total)	U/L	"m": [null, 189]
			"w": [null, 169]
Cardiac Markers	"ck_mb" (Creatine Kinase MB)	U/L	"normal": [null, 24]
Cardiac Markers	"troponin"	pg/mL	"normal": [null, 13]

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Cardiac Markers	"bnp"	pg/mL	"normal": [null, 125]
Inflammatory Markers	"crp"	mg/L	"normal": [0, 5]
Inflammatory Markers	"pct" (Procalcitonin)	ng/mL	"normal": [0, 0.5]
Iron Metabolism Diagnostics	"ferritin"	µg/L	"m": "18-45": [30, 233], "46-100": [32, 284]
			"w": "18-45": [6, 81], "46-100": [14, 186]
Iron Metabolism Diagnostics	"iron"	µg/dL	"normal": [7, 29]
Iron Metabolism Diagnostics	"transferrin"	mg/dL	"normal": [200, 360]
Coagulation	"aptt"	s	"normal": [26, 36]
Coagulation	"ptz" (Thrombin Time)	s	"normal": [17, 24]
Coagulation	"fibrinogen"	g/L	"normal": [1.8, 3.5]
Coagulation	"d_dimer"	mg/L	"normal": [0, 0.5]
			"normal_during_pregnancy": "1st_trimenon": [0, 701], "2nd_trimenon": [0, 1205], "3rd_trimenon": [0, 2584]
Coagulation	"quick" (Prothrombin Time (Quick))	%	"normal": [70, 130]
Coagulation	"atIII" (Antithrombin III)	g/L	"normal": [0.14, 0.39]
Blood Gas Analysis	"ph"		"normal": [7.35, 7.45]
Blood Gas Analysis	"pco2"	mmHg	"normal": [32, 45]
Blood Gas Analysis	"po2"	mmHg	"normal": [65, 100]
Blood Gas Analysis	"hco3"	mg/L	"normal": [22, 26]

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Blood Gas Analysis	"so2"	%	"normal": [94, 98]
Thyroid Function Diagnostics	"tsh"	mU/L	"normal": [0.4, 4.0]
Thyroid Function Diagnostics	"ft3"	pmol/L	"normal": [5.4, 12.3]
Thyroid Function Diagnostics	"t3"	nmol/L	"normal": [1.4, 2.8]
Thyroid Function Diagnostics	"ft4"	pmol/L	"normal": [10, 23]
Thyroid Function Diagnostics	"t4"	nmol/L	"normal": [77, 142]
Hormone Diagnostics	"lh"	IE/L	"normal": "w": [0.5, 76.3]
			"normal_during_postmenopause": [15.9, 54.0]
Hormone Diagnostics	"fsh"	IE/L	"normal": "w": [1.5, 33.4]
			"normal_during_postmenopause": [23.0, 116.3]
Hormone Diagnostics	"lh_fsh_ratio"		"normal": "w": [null, 1.9]
			"normal_during_postmenopause": [null, 0.7]
Hormone Diagnostics	"estradiol"	ng/L	"normal": "w": [20, 357]
			"normal_during_postmenopause": [null, 31]
Hormone Diagnostics	"progesterone"	µg/L	"normal": "w": [0.2, 25.6]
			"normal_during_postmenopause": [null, 0.7]

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			"normal_during_pregnancy": "1st_trimenon": [11, 45], "2nd_trimenon": [22, 77], "3rd_trimenon": [55, 245]
Hormone Diagnostics	"prolactin"	mIU/L	"normal": "w": [null, 620]
			"normal_during_postmenopause": [null, 430]
			"normal_during_pregnancy": [null, 4400]
Hormone Diagnostics	"testosterone"	ng/dL	"w": "18-49": [8, 35], "50-100": [null, 36]
Hormone Diagnostics	"shbg" (Sex Hormone-Binding Globulin)	nmol/L	"w": "18-49": [11, 180], "50-100": [23, 159]
Hormone Diagnostics	"amh" (Anti-Müllerian Hormone)	ng/mL	"w": "18-20": [1.0, 8.0], "20-24": [1.2, 11.7], "25-29": [0.89, 9.9], "30-34": [0.58, 8.1], "35-39": [0.15, 7.5], "40-44": [null, 5.5], "45-49": [null, 2.7], "50-100": [null, 0.1]
Hormone Diagnostics	"dhea" (Dehydroepiandrosterone)	ng/mL	"w": "19-30": [2.2, 18.0], "31-40": [2.7, 12.9], "41-50": [2.2, 9.3], "51-100": [1.4, 8.2]
Tumor Markers	"ca_125"	E/mL	"normal": [0, 35]
Tumor Markers	"ca_19_9"	E/mL	"normal": [0, 25]
Tumor Markers	"cea"	µg/L	"normal": [null, 5]
Tumor Markers	"afp" (Alpha-1-Fetoprotein)	µg/L	"normal": "w": [0, 7]
			"normal_during_pregnancy": [null, null]
Tumor Markers	"scc" (Squamous Cell Carcinoma Antigen)	µg/L	"normal": [0, 1.9]
Tumor Markers	"ca_72_4"	E/mL	"normal": [0, 6]

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Tumor Markers	"ca_15_3"	E/mL	"normal": [0, 25]
Tumor Markers	"ldh"	U/L	"normal": [null, 250]
Laboratory Diagnostics in Pregnancy	"beta_hcg"	IU/L	"normal": [0, 5]
			"normal_during_postmenopause": [null, 8]
			"normal_during_pregnancy": [null, null]
Laboratory Diagnostics in Pregnancy	"afp_mom" (Alpha-1-Fetoprotein, Multiple of Median)	MoM	"normal": [0.5, 2.5]
Urine Diagnostics	"urine_rbc"	cells/μl	"normal": [null, 23]
Urine Diagnostics	"urine_wbc"	cells/μl	"normal": [null, 25]
Urine Diagnostics	"urine_bacteria"	cells/μl	"normal": [null, 1200]
Urine Diagnostics	"urine_protein_creatinine"	mg/gC	"normal": [null, 150]