

**CLINICAL DIAGNOSTICS LABORATORY of State Budgetary Healthcare Institution of Moscow City  
«Moscow Multidisciplinary Clinical Center «Kommunarka» of the Department of Healthcare of  
Moscow City »**

**Normal Laboratory Values  
Effective date from 07-Feb-2022  
Age 18-99**

**Hematology**

Parameter	Unit	Normal range	
		Women	Men
RBC	10 <sup>12</sup> /L	4.1-5.1	4.5-5.9
Hemoglobin	g/l	120-150	130-160
Hematocrit	%	34.1-44.1	40.0-51.0
MCV	fl	80-100	80-100
MCH	pg	28-33	28-33
MCHC	g/L	300-360	300-360
Platelets	10 <sup>9</sup> /L	180-320	180-320
MPV	fl	9.4-12.4	9.4-12.4
PDW	%	10.0-18.0	10.0-18.0
RDW	%	11.6-15.0	11.6-15.0
WBC	10 <sup>9</sup> /l	3.98-9.0	4.23-9.0
Neutrophils	%	48-78	48-78
Bands	%	1-6	1-6
Segments	%	47-72	47-72
Lymphocytes	%	19-37	19-37
Monocytes	%	3-11	3-11
Eosinophils	%	1.0-5.0	1.0-5.0
Basophils	%	0-1	0-1
Lymphocytes	10 <sup>9</sup> /l	0.76-3.33	0.76-3.33
Monocytes	10 <sup>9</sup> /l	0.12-0.99	0.12-0.99
Eosinophils	10 <sup>9</sup> /l	0.04-0.45	0.04-0.54
Basophils	10 <sup>9</sup> /l	0.00-0.09	0.01-0.08
Bands	10 <sup>9</sup> /l	0.04-0.54	0.01-0.08
Segments	10 <sup>9</sup> /l	1.87-6.48	1.87-6.48
Myelocyte	%	0-0	0-0
Metamyelocyte	%	0-0	0-0
Promyelocyte	%	0-0	0-0
Blasts	%	0-0	0-0
Erythrocyte sedimentation rate	mm/hour	2-15 (Panchenkov) 2-30 (Vestergren)	2-10 (Panchenkov) 2-30 (Vestergren)
ANC	10 <sup>9</sup> /L	1.91-7.02	2.03-7.02
Reticulocytes	%	2-10	2-19

### Blood Chemistry

Parameter	Unit	Normal range	
		Women	Men
Total Protein	g/L	60-83	60-83
Albumin	g/L	35-50 (Age 18-60 years) 34-48 (Age >60 years)	35-50 (Age 18-60 years) 34-48 (Age >60 years)
Creatinine	µmol/L	44-110	44-110
Urea	mmol/L	2.5-8.3	2.5-8.3
Uric Acid	µmol/L	150-350	210-420
Potassium	mmol/L	3.5-5.3	3.5-5.3
Sodium	mmol/L	135-150	135-150
Chloride	mmol/L	80-130	80-130
Calcium	mmol/L	2.12-2.52	2.12-2.52
Calcium Ionized	mmol/L	1.12-1.32	1.12-1.32
Phosphorus	mmol/L	0.84-1.52	0.84-1.52
Glucose	mmol/L	3.7-6.4 (Serum Blood) 3.5-5.6 (Capillary Blood)	3.7-6.4 (Serum Blood) 3.5-5.6 (Capillary Blood)
HbA1c	%	4.0-6.5	4.0-6.5
Cholesterol	mmol/L	3.5-6.2	3.5-6.2
Triglycerides	mmol/L	0.5-2.25	0.5-2.25
High-Density Lipoprotein	mmol/L	1.56-2.0	1.56-2.0
Low-Density Lipoprotein	mmol/L	2.59-3.34	2.59-3.34
Very Low-Density Lipoprotein	mmol/L	<1.0	<1.0
Total Bilirubin	µmol/L	0.1-20.0	0.1-20.0
Bilirubin Conjugated	µmol/L	0-5.0	0-5.0
AST	U/L	0-40	0-40
ALT	U/L	0-40	0-40
Alkaline Phosphatase	U/L	30-120	30-120
GGT	U/L	5-38	5-38
LDH	U/L	100-280	100-280
Creatinine phosphokinase	U/L	26-190	26-190
Creatinine phosphokinase (MB-fraction)	U/L	0-25	0-25
α-Amylase (Serum Blood)	U/L	22-80	22-80
Lipase	U/L	12.0-48.0 (analyzer #1) 73-393 (analyzer #2)	12.0-48.0 (analyzer #1) 73-393 (analyzer #2)
C Reactive Protein	Mg/L	<5	<5
Bicarbonates (Actual)	mmol/L	21-28	21-28
Magnesium	mmol/L	0.74-0.99	0.74-0.99

### Urinalysis

Parameter	Unit	Normal range	
		Women	Men
<u>Appearance</u>			
Glucose	mmol/L	0.0-0.0	0.0-0.0
Protein	g/L	0.0-0.0	0.0-0.0
Bilirubin	µmol/L	0.0-0.0	0.0-0.0
Urobilinogen	µmol/L	0.0-3.2	0.0-3.2
pH	units	5.5-7.0	5.5-7.0
Specific Gravity	units	1.010-1.018	1.010-1.018
RBC	mg/L	0.0-0.0	0.0-0.0
Ketones	mmol/L	0.0-0.0	0.0-0.0
Nitrites	g/L	0.0-0.0	0.0-0.0
WBC	Per µl	0.00-20.0	0.00-20.0
<u>Microscopic examination of sediment</u>			
RBC	per VF	0	0
WBC	per VF	0-3	0-1
Bacteria	per VF	0.0-0.0	0.0-0.0
Casts	per VF	0.0-0.0	0.0-0.0
Crystals	per VF	0-1	0-1
Epithelial cells	per VF	1-3	1-3

### Coagulation

Parameter	Unit	Normal range	
		Women	Men
INR PT	Ratio	0.8-1.3	0.8-1.3
aPTT	sec	24.0-36.0	24.0-36.0
PT	sec	11.0-20.0	11.0-20.0
Fibrinogen	g/L	1.75-5.15	1.75-5.15
Prothrombin	%	80-110	80-110
Antithrombin III	%	66-124	66-124

### Other tests

Parameter	Units	Gender	Normal range
HBsAg (Hepatitis B)	-	M, F	Not Detected
Anti-HCV (Hepatitis C)	-	M, F	Not Detected
HIV Ag/AT	-	M, F	Not Detected
IgM, IgG [Treponema pallidum]	-	M, F	Not Detected
Pregnancy test (Non-Pregnant Females): B-hCG	mIU/ml	F	0.5-2.9
Thyrotropin hormone	mME/ml	M, F	0.34-5.6
T <sub>4</sub> total	nmol/L	M, F	78.38-157.4

T <sub>4</sub> free	pcmol/L	M, F	7.86-14.41
T <sub>3</sub> total	nmol/L	M, F	1.34-2.73

Date:

07.02.2022

Head of Laboratory

**Kudryavtseva L.V.**

*Signature*

