

Reference ranges of biochemical and hematological parameters in blood

Biochemical reference ranges			
glucose	3,5 - 5,6	mmol/l	
urea	2,0 - 8,0	mmol/l	
creatinine	55 - 110	μmol/l	
proteins	64 - 82	g/l	
albumin	38 - 54	g/l	
total bilirubin	< 17	μmol/l	
AST	< 0,8	μkat/l	
ALT	< 0,85	μkat/l	
GMT	< 1,0	μkat/l	
ALP	< 2,5	μkat/l	
total cholesterol	< 5,0	mmol/l	
LDL	< 3,0	mmol/l	
HDL	> 1,0	mmol/l	
triglycerides	< 2,0	mmol/l	
Fe	m: 14 - 28 w: 12 - 23	μmol/l	
uric acid	m: 200 - 420 w: 140 - 340	μmol/l	
Blood gases and electrolytes			
B-pH	7,4 ± 0,04		
B-pCO ₂	5,3 ± 0,5	kPa	
B-BE	0 ± 2	mmol/l	
B-HCO ₃ ⁻	24 ± 2	mmol/l	
B-pO ₂	10,0 - 13,3	kPa	
B-sat. O ₂	a: 95 - 98 v: 58 - 85	%	
S.Na ⁺	135 - 145	mmol/l	
S-K ⁺	3,8 - 5,5	mmol/l	
S-Ca ²⁺	2,2 - 2,8	mmol/l	
S-Mg ²⁺	0,7 - 1,0	mmol/l	
S-Chloride	97 - 109	mmol/l	
Hematology			
Hb	m: 130 - 175 w: 120 - 165	g/l	
Ery	m: 4,2 - 5,8 w: 3,8 - 5,2	10 ¹² /l	
Ht	m: 0,40 - 0,54 w: 0,35 - 0,45	l/l	
Rt	0,2 - 2	%	
Lke	4 - 10	10 ⁹ /l	
Tr	140 - 420	10 ⁹ /l	
FW	m: age/2 w: (age+10)/2	mm/h	note: upper limit
Ne	50 - 75	%	
Eo	1 - 3	%	
Ba	0 - 1	%	
Mo	3 - 8	%	
Ly	25 - 40	%	

Notes: m – man, w – woman, B – in blood, S – in serum, a - arterial, v - venous