

## The Health Equation EQ1 Blood Results Example

**Collected:** 01/02/2019 08:12    **Received:** 01/02/2019 09:23  
 THE HEALTH EQUATION    **Hospital No.:**  
 4TH FLOOR NORTH    **Reference:** 07211  
 25 WIMPOLE STREET  
 LONDON    **Report Date:** 06 February 2019 11:46:20  
 W1G 8GL

### HAEMATOLOGY

HAEMOGLOBIN (g/L)	128	g/L	115 - 155
HCT	0.359		0.33 - 0.45
<b>RED CELL COUNT</b>	<b>* 3.88</b>	<b>x10<sup>12</sup>/L</b>	<b>3.95 - 5.15</b>
MCV	92.5	fL	80 - 99
MCH	33.0	pg	26.0 - 33.5
<b>MCHC (g/L)</b>	<b>* 357</b>	<b>g/L</b>	<b>300 - 350</b>
RDW	12.5		11.5 - 15.0
PLATELET COUNT	279	x10 <sup>9</sup> /L	150 - 400
MPV	8.9	fL	7 - 13
WHITE CELL COUNT	3.58	x10 <sup>9</sup> /L	3.0 - 10.0
<b>Neutrophils</b>	<b>* 54.3% 1.94</b>	<b>x10<sup>9</sup>/L</b>	<b>2.0 - 7.5</b>
<b>Lymphocytes</b>	<b>* 33.2% 1.19</b>	<b>x10<sup>9</sup>/L</b>	<b>1.2 - 3.65</b>
Monocytes	9.5% 0.34	x10 <sup>9</sup> /L	0.2 - 1.0
Eosinophils	2.2% 0.08	x10 <sup>9</sup> /L	0.0 - 0.4
Basophils	0.8% 0.03	x10 <sup>9</sup> /L	0.0 - 0.1
ESR	5	mm/hr	1 - 23

Note ref range raised in patients over 40

### BIOCHEMISTRY

SODIUM	141	mmol/L	135 - 145
POTASSIUM	4.3	mmol/L	3.5 - 5.1
CHLORIDE	106	mmol/L	98 - 107
BICARBONATE	24	mmol/l	22 - 29
UREA	3.2	mmol/L	1.7 - 8.3
CREATININE	68	umol/L	49 - 92
estimated GFR	80	.	.

For UK guidelines:

[www.renal.org/information-resources](http://www.renal.org/information-resources)

<b>BILIRUBIN</b>	<b>* 21</b>	<b>umol/L</b>	<b>0 - 20</b>
ALKALINE PHOSPHATASE	57	IU/L	35 - 104
ASPARTATE TRANSFERASE	26	IU/L	0 - 31
ALANINE TRANSFERASE	21	IU/L	10 - 35
LDH	155	IU/L	135 - 214
CK	96	IU/L	26 - 140
GAMMA GT	14	IU/L	6 - 42
TOTAL PROTEIN	69	g/L	63 - 83
ALBUMIN	47	g/L	34 - 50
GLOBULIN	22	g/L	19 - 35
CALCIUM	2.40	mmol/L	2.20 - 2.60
Corrected Calcium	2.37	mmol/L	2.20 - 2.60
MAGNESIUM	0.81	mmol/L	0.60 - 1.00
PHOSPHATE	1.22	mmol/L	0.87 - 1.45
URIC ACID	268	umol/L	175 - 363
FASTING BLOOD GLUCOSE	4.9	mmol/L	3.9 - 5.8
AMYLASE	57	IU/L	28 - 100
FASTING TRIGLYCERIDES	1.0	mmol/L	< 2.3
<b>FASTING CHOLESTEROL</b>	<b>* 5.0</b>	<b>mmol/L</b>	<b>Optimum &lt;5.0</b>
<b>HDL CHOLESTEROL</b>	<b>* 2.3</b>	<b>mmol/L</b>	<b>1.2 - 1.7</b>
HDL % of total	46	%	20 and over
LDL CHOLESTEROL	2.2	mmol/L	Up to 3.0
Non-HDL Cholesterol	2.7	mmol/L	< 3.8
IRON	25.7	umol/L	6.6 - 26.0

T.I.B.C	57	umol/L	41 - 77
TRANSFERRIN SATURATION	45	%	20 - 55
FERRITIN	140	ug/L	13 - 150
Optimum Ferritin level for females : >27 ug/L			
C Reactive protein	<0.6	mg/L	<5.0
Serum Zinc	14.8	umol/L	11 - 18
Haemoglobin A1c	5.5	%	4.0 - 6.0
HbA1c (mmol/mol)	36	mmol/mol	20 - 42
Lipase	21.0	U/L	13 - 60
25 OH Vitamin D	59	nmol/L	50 - 200

Interpretation of results:

Deficient <25 nmol/L

Insufficient 25 - 49 nmol/L

Normal Range 50 - 200 nmol/L

Consider reducing dose >200 nmol/L

**SPECIAL PATHOLOGY**

Zinc - Whole blood	5.3	mg/l	4.0 - 7.6
Result from Referral Laboratory ID [900].			
Magnesium - Whole Blood	1.28	mmol/l	1.19 - 1.73
Magnesium - Whole Blood	31.2	mg/l	29 - 42
Result from Referral Laboratory ID [900].			