

The Health Equation 1 MBR Blood Results Example

Collected: 18/02/2019 11:30
 THE HEALTH EQUATION
 4TH FLOOR NORTH
 25 WIMPOLE STREET
 LONDON
 W1G 8GL

Received: 18/02/2019 16:47
Hospital No.:
Reference:
Report Date: 20 February 2019 13:47:55

HAEMATOLOGY

HAEMOGLOBIN (g/L)	130	g/L	115 - 155
HCT	0.405		0.33 - 0.45
RED CELL COUNT	4.35	x10 ¹² /L	3.95 - 5.15
MCV	93.1	fL	80 - 99
MCH	29.9	pg	26.0 - 33.5
MCHC (g/L)	321	g/L	300 - 350
RDW	13.0		11.5 - 15.0
PLATELET COUNT	232	x10 ⁹ /L	150 - 400
MPV	11.8	fL	7 - 13
WHITE CELL COUNT	* 10.97	x10⁹/L	3.0 - 10.0
Neutrophils	* 75.3% 8.26	x10⁹/L	2.0 - 7.5
Lymphocytes	16.9% 1.85	x10 ⁹ /L	1.2 - 3.65
Monocytes	5.7% 0.63	x10 ⁹ /L	0.2 - 1.0
Eosinophils	1.3% 0.14	x10 ⁹ /L	0.0 - 0.4
Basophils	0.8% 0.09	x10 ⁹ /L	0.0 - 0.1

Neutrophil leucocytosis. Normal RBC and Platelet populations.

ESR 8 mm/hr 1 - 23

Note ref range raised in patients over 40

BIOCHEMISTRY

SODIUM	141	mmol/L	135 - 145
POTASSIUM	* 6.5	mmol/L	3.5 - 5.1
CHLORIDE	104	mmol/L	98 - 107
BICARBONATE	* 33	mmol/L	22 - 29
UREA	6.2	mmol/L	1.7 - 8.3
CREATININE	60	umol/L	49 - 92
estimated GFR	>90	.	.

For UK guidelines:
www.renal.org/information-resources

BILIRUBIN	6	umol/L	0 - 20
ALKALINE PHOSPHATASE	87	IU/L	35 - 104
ASPARTATE TRANSFERASE	19	IU/L	0 - 31
ALANINE TRANSFERASE	12	IU/L	10 - 35
LDH	* 233	IU/L	135 - 214
CK	61	IU/L	26 - 140
GAMMA GT	20	IU/L	6 - 42
TOTAL PROTEIN	69	g/L	63 - 83
ALBUMIN	46	g/L	34 - 50
GLOBULIN	23	g/L	19 - 35
CALCIUM	2.44	mmol/L	2.20 - 2.60
Corrected Calcium	2.43	mmol/L	2.20 - 2.60
PHOSPHATE	1.09	mmol/L	0.87 - 1.45
URIC ACID	249	umol/L	175 - 363
RANDOM BLOOD GLUCOSE (FL)	5.2	mmol/L	3.5 - 7.9
AMYLASE	79	IU/L	28 - 100
TRIGLYCERIDES	1.6	mmol/L	< 2.3
CHOLESTEROL	* 6.0	mmol/L	Optimum <5.0
HDL CHOLESTEROL	1.7	mmol/L	1.2 - 1.7
HDL % of total	28	%	20 and over
LDL CHOLESTEROL	* 3.6	mmol/L	Up to 3.0
Non-HDL Cholesterol	* 4.3	mmol/L	< 3.9
IRON	19.9	umol/L	6.6 - 26.0

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T.I.B.C	46	umol/L	41 - 77
TRANSFERRIN SATURATION	43	%	20 - 55
C Reactive protein	4.4	mg/L	<5.0
Haemoglobin Alc	5.6	%	4.0 - 6.0
HbA1c (mmol/mol)	37	mmol/mol	20 - 42
Lipase	31.3	U/L	13 - 60
 <u>ENDOCRINOLOGY</u>			
THYROID STIMULATING HORMONE	3.39	mIU/L	0.27 - 4.2
FREE THYROXINE	15.0	pmol/l	12.0 - 22.0
25 OH Vitamin D		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