

Patient: **SAMPLE**
PATIENT

DOB:

Sex:

MRN:

Functional Blood Profile

Functional Biochemistry & Haematology

Analyte	Result	Units	Reference Range
Glucose & Lipid Metabolism			
Glucose	4.8	mmol/L	3.9-6.0
Haemoglobin A1c (DCCT aligned)	5.4	%	See Commentary
Haemoglobin A1c (IFCC)	36	mmol/mol	See Commentary
Cholesterol	6.85 H	mmol/L	<4-5 (See Commentary)
HDL-Cholesterol	1.37	mmol/L	
HDL : LDL ratio	0.29		
LDL-Cholesterol	4.68 H	mmol/L	<2-3 (See Commentary)
Triglyceride	1.77	mmol/L	0.10-2.00
Renal Function (Serum)			
Urea	6.0	mmol/L	2.5-7.8
Creatinine	52	µmol/L	49-90
Uric Acid	0.33	mmol/L	0.15-0.35
Adrenal Function (Serum)			
Sodium	142	mmol/L	135-145
Potassium	3.7	mmol/L	3.5-5.3
Chloride	106	mmol/L	95-108
Bicarbonate	25	mmol/L	22-29
Liver Function (Serum)			
Total Protein	65	g/L	60-80
Albumin	43	g/L	35-50
Globulin	22	g/L	18-34
Total Bilirubin	12.2	µmol/L	1.0-21.0
Alkaline Phosphatase (ALP)	65	U/L	30-150
Gamma-Glutamyl Transferase (GGT)	10	IU/L	9-36
Aspartate aminotransferase (AST)	19	IU/L	5-45
Alanine aminotransferase (ALT)	25	IU/L	<=55
Creatine kinase (CK)	69	U/L	25-200

Functional Biochemistry & Haematology

Analyte	Result	Units	Reference Range
Thyroid & Parathyroid Function (Serum)			
Calcium	2.21	mmol/L	2.20-2.60
Phosphate	1.0	mmol/L	0.8-1.5
Thyroid Stimulating Hormone †	1.70	microIU/mL	0.40-4.00
Free Thyroxine (FT4) †	12.7	pmol/L	11.5-22.7
Free T3 †	3.9	pmol/L	2.8-6.5
Iron & Inflammation (Serum)			
Iron	21.0	µmol/L	8.0-25.0
Total Iron Binding Capacity	64.4	µmol/L	45.0-70.0
Saturation	32	%	20-50
Ferritin	69	ng/mL	5-204
C-Reactive Protein (High Sens)	0.3	mg/L	<=10.0
Functional Haematology (Whole Blood)			
Haemoglobin	135	g/L	120-150
Red Blood Cells	4.31	x10 ¹² /L	3.80-4.80
Haematocrit	0.400	L/L	0.360-0.460
MCV	93.50	fL	83.00-101.00
MCH	31.4	pg	27.0-32.0
MCHC	336	g/L	315-345
RDW	11.1	%	10.9-15.7
Platelets	132	x10 ⁹ /L	150-410
White Blood Cells	4.8	x10 ⁹ /L	4.0-10.0
Neutrophils	3.38	x10 ⁹ /L	2.00-7.00
Neutrophils (%)	70.42	%	
Lymphocytes	0.90	x10 ⁹ /L	1.00-3.00
Lymphocytes (%)	18.75	%	
Monocytes	0.31	x10 ⁹ /L	0.20-1.00
Monocytes (%)	6.46	%	
Eosinophils	0.06	x10 ⁹ /L	0.02-0.50
Eosinophils (%)	1.25	%	
Basophils	0.11	x10 ⁹ /L	0.02-0.10
Basophils (%)	2.29	%	
ESR	4	mm/hr	1-20

[Analysis Performed by London Clinic]

 Within Normal Ranges

 Outside Normal Ranges

 † Analysis performed by Genova Diagnostics, Inc. 63 Zillico St.
 Asheville, NC 28801.

Commentary

The NICE recommended target range for HbA1c in patients with diabetes is 48-59 mmol/mol (equivalent to 6.5-7.5%). Specific values for individual patients should be determined on the basis of clinical factors.

Depending on clinical factors, therapeutic target ranges for lipids should be:

- Total Cholesterol <4-5 mmol/L and
- LDL <2-3 mmol/L