

laboratory report

PATIENT	Surname: XXX
	Forename: XXX
	DOB: 01-Dec-1981
	Sex: F

LABORATORY	Sample date: 9-Sep-2009
	Report date: 29-Sep-2009
	PID: XXX
	Lab ref: XXX

NUTRITIONAL SCREEN

Test	Result	Units	Range
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VITAMINS

Vitamin A (Retinol)

Retinol (Vitamin A)	1.71	umol/L	1.00 - 2.45
Alpha-Carotene	0.54	umol/L	0.20 - 1.50
Beta-Carotene	1.16	umol/L	0.20 - 3.00

Vitamin B1 (Thiamine)

Thiamine status:	Normal		
B1 Thiamine (ETK activation) 1.0			
		<1.15	Normal
		1.15 - 1.25	Borderline
		> 1.25	Deficient

Vitamin B2 (Riboflavin)

Riboflavin status:	Borderline		
B2 Riboflavin (EGR activation) 1.23			
		<1.20	Normal
		1.20 - 1.30	Borderline
		> 1.30	Deficient

Vitamin B6 (Pyridoxine)

Pyridoxine status:	Normal		
B6 Pyridoxine (EGOT activation) 1.66			
		<1.75	Normal
		1.75 - 2.00	Borderline
		>2.00	Deficient

Vitamin B12

B12	343	pg/ml	211 - 911
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Vitamin C

Vitamin C	51	umol/L	34 - 114
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Vitamin 25(OH)D2 and 25(OH)D3

Result:	* 41	nmol/L	75 - 200
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Vitamin E

Alpha-Tocopherol (Vitamin E)	31	umol/L	25 - 60
Gamma-Tocopherol (Vitamin E)	* 1.37	umol/L	2.00 - 8.50

Folate

RBC Folate	332	ug/L	280 - 791
Serum Folic Acid	8.9	ng/mL	<3.4 Low
			3.4 - 5.4 Borderline
			>5.4 Normal

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MINERALS

Calcium	Calcium	2.49	mmol/L	2.12 - 2.56
Chromium	Chromium (serum)	0.33	ug/L	0.32-0.87
Copper	Copper (serum)	13.2	umol/L	12.5 - 25.0
Iron	Iron, Total	29.0	umol/L	12 - 32
Phosphorus	Phosphorus, inorganic	1.12	mmol/L	0.8 - 1.45
Magnesium	Red cell Magnesium	1.71	mmol/L	1.67 - 2.50
Manganese	Manganese (serum)	17.0	nmol/L	9 - 25
Zinc	Zinc (serum)	78	ug/dL	75-130

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HAEMATOLOGY PROFILE

Red Blood Cells

Haemoglobin	14.1	G/DL	12.0 - 15.6
Red Cell Count	4.50	x10 ¹² /L	3.9 - 5.2
Haematocrit	0.406		0.35 - 0.46
MCV	90.2	FL	78 - 100
MCH	31.4	PG	27 - 33
MCHC	34.8	G/DL	32 - 36
RDW	12.3	%	9.0 - 15.0

White Blood Cells

White Cell Count	5.5	x10 ⁹ /L	3.8 - 10.8
Absolute Neutrophils	3.6	x10 ⁹ /L	1.5 - 7.8
Neutrophils	66.4	%	
Absolute Lymphocytes	1.4	x10 ⁹ /L	0.8 - 4.1
Lymphocytes	25.0	%	
Absolute Monocytes	0.4	x10 ⁹ /L	0.2 - 1.1
Monocytes	6.5	%	
Absolute Eosinophils	0.1	x10 ⁹ /L	0 - 0.5
Eosinophils	1.6	%	
Absolute Basophils	0.0	x10 ⁹ /L	0 - 0.2
Basophils	0.5	%	

Clotting Cells

Platelets	229	x10 ⁹ /L	130 - 400
MPV	8.5	FL	7.2 - 11.1

Inflammation Marker

ESR	3	mm/hr	1 - 12
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BIOCHEMISTRY PROFILE

Kidney Function

Sodium	136	mmol/L	135 - 146
Potassium	3.6	mmol/L	3.5 - 5.3
Chloride	103	mmol/L	95 - 108
Bicarbonate	23	mmol/L	20 - 32
Urea	3.1	mmol/L	2.5 - 9.0
Creatinine	83	umol/L	44 - 124

Liver Function

Bilirubin, Total	20	umol/L	0 - 22
Alkaline Phosphatase	56	U/L	20 - 125
Aspartate Transaminase	18	U/L	0 - 42
Alanine Transaminase	16	U/L	0 - 48
Creatine kinase	71	U/L	0 - 190
Gamma Glutamyl Transferase	11	U/L	0 - 45

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BIOCHEMISTRY

Proteins

Protein, Total	80	G/L	60 - 85
Albumin	48	G/L	32 - 50
Globulin	32	G/L calc	22 - 42

Gout Test

Uric acid	243	umol/L	150 - 450
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Diabetes Test

Glucose	4.4	mmol/L	3.9 - 6.4
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Lipid Profile

Triglycerides	0.64	mmol/L	<2.24
Cholesterol	* 5.48	mmol/L	<5.15
HDL Cholesterol	2.51	mmol/L	>0.89
LDL Cholesterol	2.67	mmol/L	0 - 3.35

Heart Disease Risk

HDL (% of total)	46	% of total	>20
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