

Surname : Russell
Forename : Beth
Date of birth : 03/06/2001
Sample Number: YRV-24034947
Sex : Female
Lab No : 5194
Sample Dated : 06/03/2024 13:40
Sample Received : 08/03/2024 11:02
Result Reported : 08/03/2024 16:49
Sample Type: V - EDTA / V - Yellow

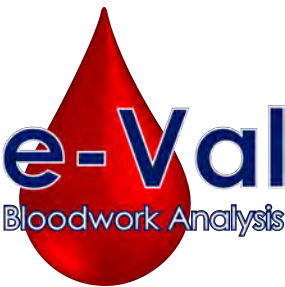
Test	Patient Result	Normal Range	Units
Full Blood Count			
Haemoglobin	136	120 - 160	g/L
Red Blood Cell	4.96	3.80 - 5.80	x10 ¹² /L
Haematocrit	0.424	0.350 - 0.470	L/L
Mean Cell Volume	85.4	75 - 97	fL
Red Cell Distribution	H 15.8	11.5 - 14.4	%
Mean Cell Hb	27.4	27.0 - 33.0	pg
MCHC	321	300 - 350	g/L
Platelets	290	150 - 400	x10 ⁹ /L
MPV	10.8	7 - 13	fL
White Blood Cells	7.33	3.0 - 10.0	x10 ⁹ /L
Neutrophils	4.26	2.0 - 7.5	x10 ⁹ /L
Monocytes	0.64	0.2 - 1.0	x10 ⁹ /L
Basophils	0.08	0 - 0.10	x10 ⁹ /L
Eosinophils	0.07	0 - 0.4	x10 ⁹ /L
Lymphocytes	2.28	1.2 - 3.65	x10 ⁹ /L
Biochemistry			
CRP	1.07	<5.0	mg/l
Albumin	45.8	35.0 - 50.0	g/l
CK	H 490	26 - 192	U/l
Iron	7.14	5.80 - 34.50	umol/l
Total Protein	76.6	60 - 80	g/l
Globulin	31	19 - 35	g/l
Ferritin	21.39	13.0 - 150	ug/l
HbA1c-(IFCC)	34.87	20 - <42 Non-diabetic 42 - <48 Prediabetes >= 48 Diabetes 48 - 59 Good control	mmol/mol

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Kidney Function			
Urea	7	2.8 - 7.8	mmol/l
Creatinine	71	45.0 - 84.0	umol/l
Sodium	135.7	133.0 - 146.0	mmol/l
eGFR (Caucasian Only)	89	>60 unless evidence of CKD	ml/min/1.73m ²
Liver Function			
GGT	16	5.0 - 36.0	U/l
ALP	101	30 - 130	U/l
ALT	25.7	<35.0	U/l
Total Bilirubin	2.6	<24	umol/l
Bone Screen			
Uric Acid	304	140 - 360	umol/l
Lipids			
Cholesterol	4.88	<5.0	mmol/l
HDL	2.2	>1.1	mmol/l
LDL	2.16	<3.0	mmol/l
Triglycerides	0.89	<1.70	mmol/l
Non HDL Cholesterol	2.68	< 4.0	nmo/l
Chol: HDL ratio	2.22	< 4.0	ratio
Hormones			
Testosterone	0.638	0.29 - 1.67	nmol/l
Cortisol	H 526.9	6am - 10am 166 - 507 4pm - 8pm 73.8 - 291	nmol/l
Prolactin	320.6	102 - 496	mU/L

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Test	Patient Result	Normal Range	Units
Oestradiol	48.61	Follicular 45.4 - 854 Ovulation 151 - 1461 Luteal 82 - 1251 Postmenopause <100	pmol/l
Progesterone	1.77	Follicular 0.181 - 2.84 Periovulatory 0.385 - 38.1 Luteal 5.82 - 75.9 Postmenopause <0.401	nmol/l
LH	L 0.68	Follicular 2.4 - 12.6 Ovulation 14.0 - 95.6 Luteal 1.0 - 11.4 Postmenopause 7.7 - 58.5	IU/l
FSH	L 1.49	Follicular 3.5-12.5 Ovulation 4.7-21.5 Luteal 1.7-7.7 Postmenopause 25.8-134.8	IU/l
DHEA-S	7.49	4.02 - 11.0	umol/l
SHBG	L 24.37	32.4 - 128.0	nmol/l
Free Testosterone	0.013	0.003 - 0.3	nmol/l
Thyroid Function			
Free T4	12.43	12 - 22	pmol/l
TSH	0.817	0.270 - 4.200	mU/l
Free T3	4.03	3.1 - 6.8	pmol/l
Markers			
Total PSA	< 0.006		ng/ml
Immunology			
Anti-Thyroglobulin Abs	17.62	< 115	IU/ml
Anti-Thyroidperoxidase abs	H 35.83	0.10 - 34.00	IU/ml



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Vitamins			
Vitamin B12	320.5	180 - 700	pmol/l
Folate	17.98	8.83 - 60.8	nmol/l
Vitamin D 3	65.74	Optimal 75-200 Adequate 50-<75 Insufficient 25 -<50 Deficient <25	nmol/l