



9256



Surname : **Khan**  
Forename : **Zack**  
Date of birth : 30/06/1980 (42y)  
Sample Number: YRV-2209344  
Sex : Male  
Lab No : 1111047  
Sample Dated : 04/09/2022 2:00 PM  
Sample Received : 06/09/2022 10:03 AM  
Result Reported : 08/09/2022 1:09 AM  
Sample Type: V- Serum, EDTA,

Test	Patient Result	Normal Range	Units	Comment
Full Blood Count				
Haemoglobin	H 177	130 - 170	g/L	
Red Blood Cells	H 6.05	4.40 - 5.80	x10 <sup>12</sup> /L	
Haematocrit	H 0.538	0.380 - 0.500	L/L	
Mean Cell Volume	89.0	81 - 98	fl	
Red Cell Distribution	13.2	11.5 - 14.4	%	
Mean Cell Haemoglobin	29.2	27.0 - 33.0	pg	
MCHC	329	300 - 350	g/L	
Platelets	218	150 - 400	x10 <sup>9</sup> /L	
MPV	10.20	7 - 13	fl	
White Blood Cells	H 10.2	3.0 - 10.0	x10 <sup>9</sup> /L	
Neutrophils	7.17	2.0 - 7.5	x10 <sup>9</sup> /L	
Lymphocytes	2.01	1.2 - 3.65	x10 <sup>9</sup> /L	
Monocytes	0.65	0.2 - 1.0	x10 <sup>9</sup> /L	
Eosinophils	0.21	0 - 0.4	x10 <sup>9</sup> /L	
Basophils	0.04	0 - 0.1	x10 <sup>9</sup> /L	
Film Report	Red cells high in count, White cells and Platelets appear normal.			
Biochemistry				
Albumin	38.6	35 - 50	g/L	
Total Protein	71.2	60 - 80	g/L	
Globulin	32.6	19 - 35	g/L	
HbA1c-(IFCC)**	35	20 - <42 Non-diabetic 42 - <48 Prediabetes >= 48 Diabetes 48 - 59 Good control	mmol/mol	
CRP	0.58	<5.0	mg/L	
Iron	18.2	5.8 - 34.5	umol/L	
Ferritin	229.0	30 - 400	ug/L	
CK	H 820	39 - 308	U/L	New units
Kidney Function				
Sodium	137	133 - 146	mmol/L	
Urea	7.4	2.5 - 7.8	mmol/L	
Creatinine	H 137	59 - 104	umol/L	New range
eGFR(Caucasian Only)	L 52	>60 unless evidence of CKD	ml/min/1.73m2	
Liver Function				
ALT	H 61	<50	U/L	New units



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Test	Patient Result	Normal Range	Units	Comment
GGT	24	8 - 61	U/L	
Total Bilirubin	18.9	<24	umol/L	
ALP	60	30 - 130	IU/L	New Range
<b>Bone Screen</b>				
Uric Acid	240	200 - 430	umol/L	New range
<b>Lipids</b>				
Cholesterol	3.94	0 - 5.0	mmol/L	
<b>HDL</b>	<b>L 0.93</b>	<b>&gt;1.1</b>	<b>mmol/L</b>	<b>New range</b>
Triglycerides	1.70	<1.7 (Fasting)	mmol/L	
LDL	2.24	<3.0	mmol/L	
<b>Chol:HDL ratio</b>	<b>H 4.24</b>	<b>&lt;4.0</b>	<b>ratio</b>	
Non HDL Cholesterol	3.01	<4	mmol/L	
<b>Hormones</b>				
<b>FSH</b>	<b>L &lt;0.3</b>	<b>1.5 - 12.4</b>	<b>IU/L</b>	
<b>LH</b>	<b>L &lt;0.3</b>	<b>1.7 - 8.6</b>	<b>IU/L</b>	
<b>Cortisol (Random)</b>	<b>L 36.9</b>	<b>6am - 10am 166 - 507</b> <b>4pm - 8pm 73.8 - 291</b>	<b>nmol/L</b>	<b>New range</b>
<b>Oestradiol</b>	<b>H 228</b>	<b>41 - 159</b>	<b>pmol/L</b>	
<b>Free-Testosterone(Calculated)</b>	<b>H 1.076</b>	<b>0.2 - 0.62</b>	<b>nmol/L</b>	
<b>SHBG</b>	<b>L 10</b>	<b>18.3 - 54.1</b>	<b>nmol/L</b>	<b>New range</b>
<b>Prolactin</b>	<b>L 31</b>	<b>86 - 324</b>	<b>mU/L</b>	
DHEA-Sulphate	2.53	2.41 - 11.6	umol/L	
Progesterone	<0.159	<0.474	nmol/L	New range
Testosterone	28.30	8.64 - 29	nmol/L	New range
<b>Thyroid Function</b>				
<b>TSH</b>	<b>H 5.01</b>	<b>0.27 - 4.20</b>	<b>mU/L</b>	<b>New range &amp; unit</b>
Free T4	17.2	12.0 - 22.0	pmol/L	
Free T3	4.57	3.1 - 6.8	pmol/L	New range
<b>Markers</b>				
PSA (Prostate)	0.650	0 - 4	ng/mL	New range & unit
<b>Immunology</b>				
Anti-Thyroidperoxidase abs	12	<34	IU/mL	New units
Anti-Thyroglobulin Abs	17	<115	IU/mL	New units
<b>Vitamins</b>				



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Test	Patient Result	Normal Range	Units	Comment
Vitamin D (25 OH)	61	Optimal 75-200 Adequate 50-<75 Insufficient 25 -<50 Deficient <25	nmol/L	
B12-Active	128.0	37.5 - 150	pmol/L	New range
<b>Serum Folate</b>	<b>L 6.84</b>	<b>8.83 - 60.8</b>	<b>nmol/L</b>	