



9256



Surname : **Morgan**  
Forename : **James**  
Date of birth : 08/08/1980 (41y)  
Sample Number: YRV-2206219  
Sex : Male  
Lab No : 972820  
Sample Dated : 29/06/2022 7:30 AM  
Sample Received : 01/07/2022 11:42 AM  
Result Reported : 02/07/2022 10:14 AM  
Sample Type: V- Serum, EDTA,

Test	Patient Result	Normal Range	Units	Comment
<b>Full Blood Count</b>				
<b>Haemoglobin</b>	<b>H 179</b>	<b>130 - 170</b>	<b>g/L</b>	
Red Blood Cells	5.79	4.40 - 5.80	x10 <sup>12</sup> /L	
<b>Haematocrit</b>	<b>H 0.554</b>	<b>0.380 - 0.500</b>	<b>L/L</b>	
Mean Cell Volume	95.6	81 - 98	fl	
<b>Red Cell Distribution</b>	<b>H 14.6</b>	<b>11.5 - 14.4</b>	<b>%</b>	
Mean Cell Haemoglobin	30.9	27.0 - 33.0	pg	
MCHC	324	300 - 350	g/L	
Platelets	346	150 - 400	x10 <sup>9</sup> /L	
MPV	10.20	7 - 13	fl	
White Blood Cells	7.9	3.0 - 10.0	x10 <sup>9</sup> /L	
Neutrophils	3.95	2.0 - 7.5	x10 <sup>9</sup> /L	
Lymphocytes	3.05	1.2 - 3.65	x10 <sup>9</sup> /L	
Monocytes	0.76	0.2 - 1.0	x10 <sup>9</sup> /L	
Eosinophils	0.05	0 - 0.4	x10 <sup>9</sup> /L	
Basophils	0.10	0 - 0.1	x10 <sup>9</sup> /L	
<b>Biochemistry</b>				
Albumin	43.9	35 - 50	g/L	
Total Protein	75.1	60 - 80	g/L	
Globulin	31.2	19 - 35	g/L	
HbA1c-(IFCC)**	32	20 - <42 Non-diabetic 42 - <48 Prediabetes >= 48 Diabetes 48 - 59 Good control	mmol/mol	
CRP	0.34	<5.0	mg/L	
<b>Iron</b>	<b>H 35.1</b>	<b>5.8 - 34.5</b>	<b>umol/L</b>	
Ferritin	348.0	30 - 400	ug/L	
<b>CK</b>	<b>H 1133</b>	<b>39 - 308</b>	<b>U/L</b>	<b>New units</b>
<b>Kidney Function</b>				
Sodium	142	133 - 146	mmol/L	
Urea	7.6	2.5 - 7.8	mmol/L	
<b>Creatinine</b>	<b>H 114</b>	<b>59 - 104</b>	<b>umol/L</b>	<b>New range</b>
eGFR(Caucasian Only)	65	>60 unless evidence of CKD	ml/min/1.73m <sup>2</sup>	
<b>Liver Function</b>				
<b>ALT</b>	<b>H 65</b>	<b>&lt;50</b>	<b>U/L</b>	<b>New units</b>
GGT	23	8 - 61	U/L	
Total Bilirubin	9.2	<24	umol/L	



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ALP	69	30 - 130	IU/L	New Range
<b>Bone Screen</b>				
Uric Acid	268	200 - 430	umol/L	New range
<b>Lipids</b>				
<b>Cholesterol</b>	<b>H 5.67</b>	<b>0 - 5.0</b>	<b>mmol/L</b>	<b>New range</b>
<b>HDL</b>	<b>L 0.97</b>	<b>&gt;1.1</b>	<b>mmol/L</b>	
<b>Triglycerides</b>	<b>H 2.49</b>	<b>&lt;1.7(Fasting)</b>	<b>mmol/L</b>	
<b>LDL</b>	<b>H 3.57</b>	<b>&lt;3.0</b>	<b>mmol/L</b>	
<b>Chol:HDL ratio</b>	<b>H 5.85</b>	<b>&lt;4.0</b>	<b>ratio</b>	
<b>Non HDL Cholesterol</b>	<b>H 4.70</b>	<b>&lt;4</b>	<b>mmol/L</b>	
<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>	
Oestradiol	72	41 - 159	pmol/L	
Testosterone	9.73	8.64 - 29	nmol/L	New range
Free-Testosterone(Calculated)	0.243	0.2 - 0.62	nmol/L	
SHBG	20	18.3 - 54.1	nmol/L	New range
<b>Prolactin</b>	<b>H 433</b>	<b>86 - 324</b>	<b>mU/L</b>	
DHEA-Sulphate	9.21	2.41 - 11.6	umol/L	
<b>Progesterone</b>	<b>H 0.7</b>	<b>&lt;0.474</b>	<b>nmol/L</b>	<b>New range</b>
Cortisol (Random)	446.0	6am - 10am 166 - 507 4pm - 8pm 73.8 - 291	nmol/L	New range
<b>Thyroid Function</b>				
TSH	3.17	0.27 - 4.20	mU/L	New range & unit
Free T4	15.9	12.0 - 22.0	pmol/L	
Free T3	6.44	3.1 - 6.8	pmol/L	New range
<b>Markers</b>				
PSA (Prostate)	0.810	0 - 4	ng/mL	New range & unit
<b>Immunology</b>				
Anti-Thyroidperoxidase abs	<9.0	<34	IU/mL	New units
Anti-Thyroglobulin Abs	14	<115	IU/mL	New units
<b>Vitamins</b>				
Vitamin D (25 OH)	59	Optimal 75-200 Adequate 50-<75	nmol/L	



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B12-Active	83.9	Insufficient 25 -<50 Deficient <25 37.5 - 150	pmol/L	New range
<b>Serum Folate</b>	<b>L 5.27</b>	<b>8.83 - 60.8</b>	<b>nmol/L</b>	