

LABORATORY 3427-3420 1868 DANDENONG RD CLAYTON VIC 3168 PH: 03 9538 6777

<b>PATIENT:</b> <b>CAITLIN ELLIS</b> 12 FOUNTAIN COURT WERRIBEE VIC 3030 PH: DOB: 28/09/1989      SEX: FEMALE UR#:                      REF: 00167935	<b>REQUEST DETAILS:</b> <b>LAB REF: 24-88255143-GHB-0</b> REFERRED: 11/01/24 COLLECTED: 25/01/24 08:23 REPORTED: 27/01/24 13:21 TESTED: 25/01/24 BATCH: 0                      0	<b>MS KRISTIN BECKEDAHL</b>  99 HEALY ROAD  HAMILTON HILL WA 6163
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**HAEMOGLOBIN A1c**

**SPECIMEN: Whole blood**

Date	Time	Request	IFCC HbA1c	DCCT HbA1c
25/01/2024	08:23	24-88255143	39	5.7
Units			mmol/mol	%
Reference Ranges			< 6.5	

**Comments:**

HbA1c consistent with euglycaemic state.

**INTERPRETATION CRITERIA**

**DIAGNOSIS.**

A HbA1c greater than or equal to 48 mmol/mol ( 6.5 %) is consistent with diabetes. Consider OGTT or repeat HbA1c for confirmation.

HbA1c 6.0 - 6.4% is consistent with prediabetes. Repeat testing annually is recommended. (ADS position statement 2020)

**MONITORING.**

The Australian Diabetes Society (ADS) recommends individualised HbA1c targets depending on the patient's age, comorbidities and any

Hypoglycaemia (ADS position statement 2009).

A general target of less than or equal to 53 mmol/mol (7.0%) is often used.

Please note that Hb A1c results may be influenced by conditions affecting red cells or their survival times such as haemoglobinopathies, anaemias, recent transfusion or blood loss.

HbA1c tested on Roche c513 using Gen. 3 assay.

BIOCHEMISTRY

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LIPID STUDIES

SPECIMEN: Serum

Date	25/01/2024
Collection Time	08:23
Request	24-88255143

		Units	Desirable Range (Fasting)
Fasting status	Fasting		
Cholesterol	3.5	mmol/L	< 5.6
H.D.L. Cholesterol	1.1*	mmol/L	> 1.1
L.D.L. Cholesterol	2.2	mmol/L	< 3.1
Non-HDL Cholesterol	2.4	mmol/L	< 4.1
Triglyceride	0.5	mmol/L	< 2.1
LDL/HDL Ratio (Risk Factor)	2.0		
Chol/HDL Ratio (Risk Factor)	3.2		

**Comments:**

Interpret in conjunction with other cardiovascular risk factors or treatment targets.

Recommended targets for high risk patients are

Total cholesterol < 4.0 mmol/L

HDL Cholesterol > 1.0 mmol/L

LDL Cholesterol < 2.5 mmol/L ( < 1.8 mmol/L for very high risk) Non-HDL Cholesterol < 3.3 mmol/L ( < 2.5 mmol/L for very high risk) Fasting triglycerides < 2.0 mmol/L

Lipid ranges and targets are from the AACB Guideline for Harmonised Lipid Reporting (2018)

Target values need to be individualised based on clinical assessment of overall risk.

See the AusCVD Risk calculator at [www.cvdcheck.org.au](http://www.cvdcheck.org.au)

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IRON STUDIES

SPECIMEN: Serum

Date	25/01/2024
Collection Time	08:23
Request	24-88255143

		Units	Reference Range
Iron	16.6	µmol/L	10.0 - 30.0
Transferrin	2.06*	g/L	2.10 - 3.80
Transferrin Saturation	32	%	15 - 45
Ferritin	18*	µg/L	30 - 200

**Comments:**  
Iron studies are consistent with iron deficiency.

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	<b>LAB REF:</b>	<b>24-88255143-OHD-0</b>	
	REFERRED:	11/01/24	
	COLLECTED:	25/01/24 08:23	
	REPORTED:	25/01/24 21:50	
		TESTED:	25/01/24
		BATCH:	0                      0

VITAMIN D

SPECIMEN: Serum

Date	Time	Request	25-hydroxy Vitamin D
25/01/2024	08:23	24-88255143	72
Units			nmol/L
Reference Ranges			

**Comments:**  
Within normal limits.

**Interpretation:**  
Vitamin D deficiency <50 nmol/L  
Severe deficiency <20 nmol/L

**COMMENT:** Vitamin D sufficiency is defined as greater than or equal to 50 nmol/L at the end of winter (level may need to be 10-20 nmol/L higher at the end of summer).

Reference: Position Statement. Vitamin D and Health in Adults in Australia and New Zealand. MJA,196(11): 686-687, 2012.

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GLUCOSE

SPECIMEN: Serum

Date	Glucose Time	Request	Collection Type	Specimen	Glucose
25/01/2024	08:23	24-88255143	Fasting	serum	5.6*
Units					mmol/L

<b>Comments:</b> Borderline fasting glucose. NOTE: HbA1c has been requested.  Glucose Reference Ranges Random                      3.0 - 6.9 mmol/L Fasting                      3.0 - 5.4 mmol/L 1 Hour post prandial      3.0 - 11.0 mmol/L 2 Hour post prandial      3.0 - 7.7 mmol/L Specimen Legend: Fl-ox = Fluoride oxalate, serum = Serum, np = Non-Preserved
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GENERAL CHEMISTRY

SPECIMEN: Serum

<b>Date</b>	25/01/2024
<b>Collection Time</b>	08:23
<b>Request</b>	24-88255143

Electrolytes / Renal Function		Units	Reference Range
Sodium	139	mmol/L	135 - 145
Potassium	4.4	mmol/L	3.5 - 5.2
Chloride	107	mmol/L	95 - 110
Bicarbonate	25	mmol/L	22 - 32
Urea	5.0	mmol/L	3.0 - 7.0
Creatinine	65	µmol/L	45 - 90
eGFR	> 90	mL/min/1.73m²	> 59

Liver Function		Units	Reference Range
Total Protein	70	g/L	60 - 80
Albumin	40	g/L	35 - 50
Alkaline Phosphatase	67	U/L	30 - 110
Total Bilirubin	8	µmol/L	3 - 20
Gamma GT	11	U/L	5 - 35
AST	17	U/L	5 - 30
ALT	16	U/L	5 - 35
Globulin	30	g/L	23 - 39

<b>Comments:</b>
Within reference intervals.

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PROTEIN STUDIES - C REACTIVE PROTEIN

SPECIMEN: Serum

Date	Time	Request	C-Reactive Protein
25/01/2024	08:23	24-88255143	3.3*
Units			mg/L
Reference Ranges			< 3.0

**Comments:**  
In the setting of infection, CRP levels >100 mg/L are supportive of bacterial rather than viral aetiology.  
  
Note results from this CRP assay should not be used for cardiac risk assessment. Please request the high sensitivity assay (hsCRP) instead.

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THYROID FUNCTION TEST

SPECIMEN: Serum

Date	25/01/2024
Collection Time	08:23
Request	24-88255143

		Units	Reference Range
Thyroid Stimulating Hormone	1.50	mIU/L	0.40 - 4.00

<b>Comments:</b> Normal TSH level.
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ENDOCRINOLOGY



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**PATIENT:**

**CAITLIN ELLIS**

12 FOUNTAIN COURT

WERRIBEE VIC 3030

PH:

DOB: 28/09/1989

SEX: FEMALE

UR#:

REF: 00167935

**REQUEST DETAILS:**

**LAB REF: 24-88255143-QUA-0**

REFERRED: 11/01/24

COLLECTED: 25/01/24 08:23

REPORTED: 25/01/24 21:45

TESTED: 25/01/24

BATCH: 0 0

**MS KRISTIN BECKEDAHL**

99 HEALY ROAD

HAMILTON HILL WA 6163

**ENDOCRINOLOGY**

**HUMAN CHORIONIC GONADOTROPIN (HCG)**

**SPECIMEN: SERUM/PLASMA**

Date	Time	Lab No.	HCG	Units	Ref. Range
25/01/24	08:23	88255143	< 2	IU/L	See below

Total HCG testing is performed on Siemens Advia Centaur.

**EXPECTED RESULTS RANGE AND INTERPRETATION:**

HCG (IU/L)	Interpretation	Notes
<5	Negative	Early pregnancy of less than 1 week may give a negative response and retesting in 2 - 3 days time may be appropriate if clinically indicated.
5 - 25	Equivocal	Suggest repeat test in 2 -3 days.
>25	Positive	Consistent with pregnancy.

Gestational Age	Expected HCG (IU/L)
2-3 weeks	5-50
3-4 weeks	50-500
4-5 weeks	100-5000
5-6 weeks	500-10000
6-7 weeks	1000-50000
7-8 weeks	10000-100000
8-10 weeks	15000-200000
10-14 weeks	10000-100000

NOTE: There is a large inter-individual variation in maternal serum concentrations of hCG in early pregnancy. These values are for guidance only. Gestational ages can be calculated from the date of the last menstrual cycle or be determined by sonography.

PATIENT: CAITLIN ELLIS

REF. BY DR.MARIJANA OBRADOVIC, 4852366K

PANEL CODES: CRP-W, GLS-W, GHB-W, OH-D-W, QUA-R, FBE-R, IS-W, LIP-W, ECU-W, LFT-W, TFT-W

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12 FOUNTAIN COURT

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PH:

DOB: 28/09/1989

SEX: FEMALE

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REF: 00167935

**REQUEST DETAILS:**

**LAB REF: 24-88255143-QUA-0**

REFERRED: 11/01/24

COLLECTED: 25/01/24 08:23

REPORTED: 25/01/24 21:45

TESTED: 25/01/24

BATCH: 0 0

**MS KRISTIN BECKEDAHL**

99 HEALY ROAD

HAMILTON HILL WA 6163

ALSO PLEASE NOTE THIS ASSAY HAS NOT BEEN VALIDATED FOR USE OUTSIDE THE  
ASSESSMENT OF PREGNANCY STATUS.

PATIENT: CAITLIN ELLIS

REF. BY DR.MARIJANA OBRADOVIC, 4852366K

PANEL CODES: CRP-W, GLS-W, GHB-W, OHD-W, QUA-R, FBE-R, IS-W, LIP-W, ECU-W, LFT-W, TFT-W

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GENERAL HAEMATOLOGY

SPECIMEN: Whole blood

Date	25/01/2024
Collection Time	08:23
Request	24-88255143

		Units	Reference Range
Haemoglobin	128	g/L	115 - 165
RBC	4.46	x10 <sup>12</sup> /L	3.80 - 5.50
HCT	0.40		0.35 - 0.47
MCV	90	fL	80 - 99
MCH	28.7	pg	27.0 - 34.0
MCHC	319	g/L	310 - 360
RDW	13.2	%	11.0 - 15.0
White Cell Count	6.7	x10 <sup>9</sup> /L	4.0 - 11.0
Neutrophils	3.6	x10 <sup>9</sup> /L	2.0 - 8.0
Lymphocytes	2.5	x10 <sup>9</sup> /L	1.0 - 4.0
Monocytes	0.5	x10 <sup>9</sup> /L	< 1.1
Eosinophils	0.1	x10 <sup>9</sup> /L	< 0.7
Basophils	0.0	x10 <sup>9</sup> /L	< 0.3
Platelets	357	x10 <sup>9</sup> /L	150 - 450

**Comments:**  
#88255143 : Normal full blood count.

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