

Start Patient : KERNAN, JESSICA
418 WINDERMERE ROAD, WINDEREMERE 7249
Birthdate: 03/12/1990 Age: 33 Y Sex: F
Telephone: 0408686305
Your Reference : 7487000
DSPL Reference : 413242128
Medicare Number: 6207356238
Phone Enquiries: (03) 6223 1955

Referred by : Dr Schwann Rad
Addressee : Dr Schwann Rad 6372801B
Lab. Reference: 413242128-C-E424
Requested: Monday, 11 December 2023
Performed: Thursday, 18 January 2024
Test name: ED- GLYCOSYLATED HB A1C
Provider name: LAUNCESTON PATHOLOGY

Clinical Notes : Fatigue since 2/12

GLYCOSYLATED HB A1C

Date	18/01/24		
Time	0902		
Lab Id.	413242128	Units	Reference
HbA1c	5.0	%	(4.0-6.0)
HbA1c (IFCC)	32	mmol/mol	(20-42)

Comments on Collection 18/01/24 0902:
HBA1C
The current acceptable cut-off point for diagnosis of diabetes is an HbA1c level equal to or greater than 6.5% (47 mmol/mol) in patients with a normal red cell turnover. Repeat testing is required to confirm in asymptomatic patients. A diagnosis of diabetes based on a previous elevated fasting glucose(s) or GTT is still valid. Ref: Med J Aust 2012; 197 (4): 220-221

The Medicare item for HbA1C for diagnosis of Diabetes Mellitus is limited to one test per 12 months; for monitoring Diabetes testing remains unchanged - 4 tests per 12 months.

Patients with HbA1c levels of 5.7 - 6.4% (38 - 46 mmol/mol) may still have a slightly increased risk of microvascular complications according to the AusDiab study.

HbA1c performed on the Sebia Cap3 analyser by capillary electrophoresis.

CA

Tests Completed: LFTS, Renal Function, Electrolytes, Uric Acid,
Lipids & LDL, Calcium, Iron Studies, C-Reactive Prot.,
Magnesium, Vitamin B12, Serum Folate, TFT, VIT D (25-OH),
HBA1C, FBC, ESR

Tests Pending : Zinc (Plasma)

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Phone Enquiries: (03) 6223 1955

Referred by : Dr Schwann Rad  
Addressee : Dr Schwann Rad 6372801B  
Lab. Reference: 413242128-C-E088  
Requested: Monday, 11 December 2023

ABN 37 656 963 829  
165 Elphin Road (PO Box 237) Newstead, Tasmania, 7250  
 P: 6331 1088 (all hours) | F 6334 2105 | W: [newsteadmedical.com.au](http://newsteadmedical.com.au)

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.....Continued  
Re: Ms Jessica Kernan  
DOB: 3/12/1990

Performed: Thursday, 18 January 2024  
Test name: SE- B12, FOL RC FOLATE  
Provider name: LAUNCESTON PATHOLOGY

Clinical Notes : Fatigue since 2/12

B12/Serum Folate/RCF

|                |           |           |           |           |        |             |
|----------------|-----------|-----------|-----------|-----------|--------|-------------|
| Date           | 20/12/22  | 11/05/23  | 18/07/23  | 18/01/24  |        |             |
| Time           | 0715      | 0644      | 0938      | 0902      |        |             |
| Lab Id.        | 412967966 | 413044903 | 413121131 | 413242128 | Units  | Reference   |
| S. Vitamin B12 |           |           |           | 353       | pmol/L | (200-700)   |
| Serum Folate   |           |           |           | 28.6      | nmol/L | (>7.9)      |
| HCT            | 0.40      | 0.43      | 0.42      | 0.44      |        | (0.36-0.47) |

Comments on Collection 18/01/24 0902:  
Vitamin B12  
<120 pmol/L - Deficient. Specimen reflexed for Active B12 testing to confirm deficiency (see additional report).  
  
120 - 300 pmol/L - Equivocal. Specimen reflexed for Active B12 testing to clarify vitamin B12 status (see additional report).  
  
>300 pmol/L - Normal.

CA

Tests Completed: LFTS, Renal Function, Electrolytes, Uric Acid, Lipids & LDL, Calcium, Iron Studies, C-Reactive Prot., Magnesium, Vitamin B12, Serum Folate, TFT, VIT D (25-OH), HbA1C, FBC, ESR  
Tests Pending : Zinc (Plasma)

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Referred by : Dr Schwann Rad  
Addressee : Dr Schwann Rad 6372801B  
Lab. Reference: 413242128-C-E406  
Requested: Monday, 11 December 2023  
Performed: Thursday, 18 January 2024  
Test name: SE-VIT D (25-OH)  
Provider name: LAUNCESTON PATHOLOGY

Clinical Notes : Fatigue since 2/12

|             |           |           |        |           |
|-------------|-----------|-----------|--------|-----------|
| Date        | 20/12/22  | 18/01/24  |        |           |
| Time        | 0715      | 0902      |        |           |
| Lab Id.     | 412967966 | 413242128 | Units  | Reference |
| 25-OH Vit.D | 95        | 82        | nmol/L | (>49)     |

25-OH Vit.D Vitamin D testing is Medicare Rebatable.

Comments on Collection 18/01/24 0902:  
VIT D (25-OH)  
Vitamin D Status 25-OH Vitamin D nmol/L  
Indeterminate 50 - 75  
Mild Deficiency 30 - 49  
Moderate Deficiency 12.5 - 29  
Severe Deficiency <12.5

Levels apply to testing undertaken at the end of winter.

.....Continued  
Re: Ms Jessica Kernan  
DOB: 3/12/1990

60% of all Tasmanians presenting for the first time for Vitamin D testing (at the end of winter) show deficiency and on average in any season of the year 44% of Tasmanians are Vitamin D deficient.

CA

Tests Completed: LFTS, Renal Function, Electrolytes, Uric Acid,  
Lipids & LDL, Calcium, Iron Studies, C-Reactive Prot.,  
Magnesium, TFT, VIT D (25-OH), FBC, ESR  
Tests Pending : Zinc (Plasma), Vitamin B12, Serum Folate, HbA1c

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Medicare Number: 6207356238
Phone Enquiries: (03) 6334 3636

Referred by : Dr Schwann Rad
Addressee : Dr Schwann Rad 6372801B
Lab. Reference: 413242128-C-C892
Requested: Monday, 11 December 2023
Performed: Thursday, 18 January 2024
Test name: SE-LIPIDS
Provider name: LAUNCESTON PATHOLOGY

Clinical Notes : Fatigue since 2/12

Lipids

Date	18/01/24		
Time	0902		
Lab Id.	413242128	Units	Reference
Cholesterol	3.6	mmol/L	
Triglyceride	0.6	mmol/L	
HDL Cholesterol	1.5	mmol/L	
Cholesterol/HDL	2.4		
Non HDL-Chol.	2.1	mmol/L	
LDL Cholesterol	1.8	mmol/L	

Comments on Collection 18/01/24 0902:
Lipids & LDL
Target levels (Guidelines for the Management of Absolute Cardiovascular Disease Risk, 2012):

Cholesterol	<4.0 mmol/L
Triglyceride	<2.0 mmol/L
HDL - Cholesterol	>=1.0 mmol/L
Non HDL - Chol.	<2.5 mmol/L
LDL - Cholesterol	<2.0 mmol/L

Suggested frequency of lipids measurement (Red Book):
High risk - every 12 months
Medium risk - every 2 years
Low risk (> 45 years) - every 5 years
Low risk (Aboriginal and Torres Strait Islanders >35 years) - every 5 years

CA

Tests Completed: LFTS, Renal Function, Electrolytes, Uric Acid,
Lipids & LDL, Calcium, Iron Studies, C-Reactive Prot.,
Magnesium, TFT, FBC, ESR
Tests Pending : Zinc (Plasma), Vitamin B12, Serum Folate, VIT D (25-OH), HbA1c

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DSPL Reference : 413242128

.....Continued  
Re: Ms Jessica Kernan  
DOB: 3/12/1990

Medicare Number: 6207356238  
Phone Enquiries: (03) 6334 3636

Referred by : Dr Schwann Rad  
Addressee : Dr Schwann Rad 6372801B  
Lab. Reference: 413242128-C-C140  
Requested: Monday, 11 December 2023  
Performed: Thursday, 18 January 2024  
Test name: SE- ROUTINE CHEMISTRY  
Provider name: LAUNCESTON PATHOLOGY

Clinical Notes : Fatigue since 2/12

BIOCHEMISTRY

| Date            | 20/12/22  | 11/05/23  | 18/01/24  |               |             |
|-----------------|-----------|-----------|-----------|---------------|-------------|
| Time            | 0715      | 0644      | 0902      |               |             |
| Lab Id.         | 412967966 | 413044903 | 413242128 | Units         | Reference   |
| Sodium          |           |           | 140       | mmol/L        | (135-145)   |
| Potassium       |           |           | 4.5       | mmol/L        | (3.5-5.5)   |
| Chloride        |           |           | 106       | mmol/L        | (95-110)    |
| Urea            |           |           | 7.7 H     | mmol/L        | (2.5-7.0)   |
| Creatinine      |           |           | 82        | umol/L        | (45-85)     |
| eGFR            |           |           | 81 L      | mL/min/1.73m2 | (>89)       |
| Bicarbonate     |           |           | 28        | mmol/L        | (20-32)     |
| Total Bilirubin |           |           | 10        | umol/L        | (3-15)      |
| ALP             |           |           | 60        | U/L           | (20-105)    |
| Gamma GT        |           |           | 13        | U/L           | (5-35)      |
| ALT             |           |           | 23        | U/L           | (5-30)      |
| Total Protein   |           |           | 69        | g/L           | (64-81)     |
| Albumin         |           |           | 48 H      | g/L           | (33-46)     |
| Globulin        |           |           | 21 L      | g/L           | (26-41)     |
| Total Calcium   |           |           | 2.39      | mmol/L        | (2.15-2.55) |
| Corr. Calcium   |           |           | 2.23      | mmol/L        | (2.15-2.55) |
| Magnesium       |           |           | 0.90      | mmol/L        | (0.70-1.05) |
| Uric Acid       |           |           | 0.27      | mmol/L        | (0.15-0.40) |
| Glucose Fast.   | 4.5       | 3.9       |           | mmol/L        | (<5.1)      |

Comments on Collection 18/01/24 0902:  
Renal Function  
The eGFR is >=60 but <= 90 mL/min/1.73m2.  
eGFR results above 60 should not be considered abnormal unless accompanied  
by signs of kidney damage such as protein or blood in the urine, an  
abnormal ultrasound or biopsy.  
If required further information can be found at Kidney Health Australia  
(www.kidney.org.au).

CA

Tests Completed: LFTS, Renal Function, Electrolytes, Uric Acid,  
Lipids & LDL, Calcium, Iron Studies, C-Reactive Prot.,  
Magnesium, TFT, FBC, ESR  
Tests Pending : Zinc (Plasma), Vitamin B12, Serum Folate, VIT D (25-OH), HBA1C

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Referred by : Dr Schwann Rad
Addressee : Dr Schwann Rad 6372801B
Lab. Reference: 413242128-C-E887
Requested: Monday, 11 December 2023
Performed: Thursday, 18 January 2024
Test name: SE-CRP
Provider name: LAUNCESTON PATHOLOGY

Clinical Notes : Fatigue since 2/12

.....Continued
Re: Ms Jessica Kernan
DOB: 3/12/1990

Date 18/01/24
Time 0902
Lab Id. 413242128 Units Reference
CRP <1 mg/L (<5)
CA

Tests Completed: LFTS, Renal Function, Electrolytes, Uric Acid,
Lipids & LDL, Calcium, Iron Studies, C-Reactive Prot.,
Magnesium, TFT, FBC, ESR
Tests Pending : Zinc (Plasma), Vitamin B12, Serum Folate, VIT D (25-OH), HBA1C

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Referred by : Dr Schwann Rad
Addressee : Dr Schwann Rad 6372801B
Lab. Reference: 413242128-C-C214
Requested: Monday, 11 December 2023
Performed: Thursday, 18 January 2024
Test name: SE-IRON STUDIES
Provider name: LAUNCESTON PATHOLOGY

Clinical Notes : Fatigue since 2/12

Date	20/09/21	11/05/23	18/07/23	18/01/24		
Time F-Fast	0731 F	0644	0938	0902		
Lab Id.	412615865	413044903	413121131	413242128	Units	Reference
Ferritin.	33	13 L	24	49	ug/L	(20-160)
Iron.	18	20	23	16	umol/L	(7-26)
Transferrin	3.0	3.6	3.5	2.4	g/L	(2.0-3.6)
Saturation.	26	24	29	29	%	(15-45)

CA
Tests Completed: LFTS, Renal Function, Electrolytes, Uric Acid,
Lipids & LDL, Calcium, Iron Studies, C-Reactive Prot.,
Magnesium, TFT, FBC, ESR
Tests Pending : Zinc (Plasma), Vitamin B12, Serum Folate, VIT D (25-OH), HBA1C

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Medicare Number: 6207356238
Phone Enquiries: (03) 6334 3636

Referred by : Dr Schwann Rad
Addressee : Dr Schwann Rad 6372801B
Lab. Reference: 413242128-H-H600
Requested: Monday, 11 December 2023
Performed: Thursday, 18 January 2024
Test name: ED-.FBE
Provider name: LAUNCESTON PATHOLOGY

Clinical Notes : Fatigue since 2/12

.....Continued
Re: Ms Jessica Kernan
DOB: 3/12/1990

Date	20/12/22	11/05/23	18/07/23	18/01/24		
Time	0715	0644	0938	0902		
Lab Id.	412967966	413044903	413121131	413242128	Units	Reference
Haemoglobin	132	141	141	143	g/L	(115-165)
HCT	0.40	0.43	0.42	0.44		(0.36-0.47)
MCV	95	94	93	94	fL	(80-100)
WCC	5.8	8.0	8.0	3.6 L	/nL	(4.0-11.0)
Neutrophils	3.9	5.8	6.2	1.9 L	/nL	(2.0-7.5)
Lymphocytes	1.4	1.5	1.3	1.2	/nL	(1.0-4.0)
Monocytes	0.4	0.4	0.3	0.3	/nL	(0.2-1.0)
Eosinophils	0.1	0.2	0.2	0.2	/nL	(<0.5)
Basophils	<0.1	<0.1	<0.1	<0.1	/nL	(<0.3)
Platelets	247	227	182	221	/nL	(150-400)
ESR				5	mm/hr	(<20)

Comments on Collection 18/01/24 0902:
Please note from 15/06/2023, the ESR platform has changed.

For patients being clinically monitored with an ESR, recommend establishing a new baseline.
The ESR should not be used as a screening test in individuals with non-specific symptoms. Further clinical guidance can be found in the RCPA document Appropriate Use of Erythrocyte Sedimentation Rate.

HA

Tests Completed: TFT,FBC,ESR
Tests Pending : LFTS, Renal Function, Electrolytes, Uric Acid, Lipids & LDL, Calcium, Iron Studies, C-Reactive Prot., Magnesium, Zinc (Plasma), Vitamin B12, Serum Folate, VIT D (25-OH), HBA1C

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Referred by : Dr Schwann Rad  
Addressee : Dr Schwann Rad 6372801B  
Lab. Reference: 413242128-C-E022  
Requested: Monday, 11 December 2023  
Performed: Thursday, 18 January 2024  
Test name: SE- THYROID FUNCT. TEST  
Provider name: LAUNCESTON PATHOLOGY

Clinical Notes : Fatigue since 2/12

THYROID FUNCTION TESTS

|         |           |           |       |           |
|---------|-----------|-----------|-------|-----------|
| Date    | 20/12/22  | 18/01/24  |       |           |
| Time    | 0715      | 0902      |       |           |
| Lab Id. | 412967966 | 413242128 | Units | Reference |
| TSH.    | 1.7       | 1.1       | mU/L  | (0.3-3.5) |

CA

Tests Completed: TFT,FBC,ESR  
Tests Pending : LFTS, Renal Function, Electrolytes, Uric Acid, Lipids & LDL, Calcium, Iron Studies, C-Reactive Prot., Magnesium, Zinc (Plasma), Vitamin B12, Serum Folate, VIT D (25-OH), HBA1C  
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