

HOWARD, CATHERINE
 20 MAROONG DR, RESEARCH. 3095
Phone: 0407370337
Birthdate: 07/06/1962 **Sex:** F **Medicare Number:** 3200452759
Your Reference: 172F63DA5A **Lab Reference:** 388212581-H-H010
Laboratory: Melbourne Pathology
Addressee: DR KAREN MATHEW **Referred by:** DR KAREN MATHEW

Name of Test: ED-FULL BLOOD
Requested: 05/10/2022 **Collected:** 07/10/2022 **Reported:** 07/10/2022
 19:12

Date	07/10/22		
Time F-Fast	0859 F		
Lab Id.	388212581	Units	Reference
HAEMOGLOBIN	128	g/L	(115-160)
Hct	0.40		(0.35-0.47)
RBC	4.4	x10 ¹² /L	(3.7-5.2)
MCV	91	fL	(80-100)
MCH	29	pg	(27-34)
MCHC	322	g/L	(310-360)
RDW	13.2		(11-17)
PLATELETS	371	x 10 ⁹ /L	(150-450)
WHITE CELLS	8.9	x10 ⁹ /L	(4.0-11.0)
Neutrophils	6.0	x10 ⁹ /L	(2.0-7.5)
Lymphocytes	1.9	x10 ⁹ /L	(1.0-4.0)
Monocytes	0.8	x10 ⁹ /L	(0-1.0)
Eosinophils	0.1	x10 ⁹ /L	(0-0.5)
Basophils	0.1	x10 ⁹ /L	(0-0.3)

Dept Supervising Pathologist: Dr Ellen Maxwell

Melbourne Pathology NATA No.:2133

Tests Completed: FBE
 Tests Pending : INFOBIOTIN1, IS, FLS, ROCHEft4, TSH, EUC, LFT, GF, CRP, CA125,
 FSH, LH, PROG, ODIOL, A1C, ESR
 Sample Pending :

HOWARD, CATHERINE
 20 MAROONG DR, RESEARCH. 3095
Phone: 0407370337
Birthdate: 07/06/1962 **Sex:** F **Medicare Number:** 3200452759
Your Reference: 172F63DA5A **Lab Reference:** 388212581-H-H050
Laboratory: Melbourne Pathology
Addressee: DR KAREN MATHEW **Referred by:** DR KAREN MATHEW

Name of Test: ED-ERYTHROCYTE SED RATE
Requested: 05/10/2022 **Collected:** 07/10/2022 **Reported:** 08/10/2022
 06:27

Date	28/05/12	07/10/22		
Time F-Fast	0930	0859 F		
Lab Id.	315081018	388212581	Units	Reference

ESR 12 19 mm/hr (5-20)

Dept Supervising Pathologist: Dr Ellen Maxwell

Melbourne Pathology NATA No.:2133

Tests Completed: INFOBIOTIN1, FBE, ESR

Tests Pending : IS, FLS, ROCHEft4, TSH, EUC, LFT, GF, CRP, CA125, FSH, LH, PROG, ODIOL, A1C

Sample Pending :

HOWARD, CATHERINE

20 MAROONG DR, RESEARCH. 3095

Phone: 0407370337

Birthdate: 07/06/1962 Sex: F Medicare Number: 3200452759

Your Reference: 172F63DA5A Lab Reference: 388212581-H-E482

Laboratory: Melbourne Pathology

Addressee: DR KAREN MATHEW Referred by: DR KAREN MATHEW

Name of Test: ED- HBA1C

Requested: 05/10/2022 Collected: 07/10/2022 Reported: 08/10/2022
14:42

Date	13/10/21	07/10/22		
Time F-Fast	0923 F	0859 F	Units	Reference
Lab Id.	368673437	388212581		
HBA1C	5.4	5.2	%	(4.4-5.6)
HBA1c (IFCC)	36	33	mmol/mol	(25-38)
eAG	6.0	5.7	mmol/L	

Comments on Collection 07/10/22 0859 F:

HbA1c is Medicare rebateable, once per year, for diagnosis of diabetes mellitus in high risk people. The diagnostic cut-off is HbA1c $\geq 6.5\%$ (48 mmol/mol) in patients with normal red cell turnover.

For clinical enquiries, please contact Chemical Pathologists

Dr Ken Sikaris / Dr Andrew Carter on 9287 7720.

From 19/01/2021 Melbourne Pathology will be using capillary electrophoresis to measure HbA1c. The results are directly comparable to our previous results measured by HPLC but are more precise, and more accurate, in the presence of many haemoglobin variants.

Dept Supervising Pathologist: Dr Ellen Maxwell

Melbourne Pathology NATA No.:2133

Tests Completed: INFOBIOTIN1, A1C, FBE, ESR

Tests Pending : IS, FLS, ROCHEft4, TSH, EUC, LFT, GF, CRP, CA125, FSH, LH, PROG, ODIOL

Sample Pending :

HOWARD, CATHERINE

20 MAROONG DR, RESEARCH. 3095

Phone: 0407370337

Birthdate: 07/06/1962 Sex: F Medicare Number: 3200452759

Your Reference: 172F63DA5A Lab Reference: 388212581-C-C398

Laboratory: Melbourne Pathology

Addressee: DR KAREN MATHEW Referred by: DR KAREN MATHEW

Name of Test: SE-CA125
Requested: 05/10/2022 **Collected:** 07/10/2022 **Reported:** 08/10/2022
15:42

Date	28/10/20	13/10/21	07/10/22		
Time F-Fast	0932 F	0923 F	0859 F		
Lab Id.	359267218	368673437	388212581	Units	Reference
S CA 125	12	11	12	U/mL	(<30)

Department Supervising Pathologist: Dr Ken Sikaris

Melbourne Pathology NATA No.:2133

Tests Completed: INFOBIOTIN1, IS, FLS, ROCHEft4, TSH, EUC, LFT, GF, CRP, CA125, A1C, FBE, ESR
Tests Pending : FSH, LH, PROG, ODIOL
Sample Pending :

HOWARD, CATHERINE
20 MAROONG DR, RESEARCH. 3095
Phone: 0407370337
Birthdate: 07/06/1962 **Sex:** F **Medicare Number:** 3200452759
Your Reference: 172F63DA5A **Lab Reference:** 388212581-C-B068
Laboratory: Melbourne Pathology
Addressee: DR KAREN MATHEW **Referred by:** DR KAREN MATHEW

Name of Test: INFOBIOTIN1
Requested: 05/10/2022 **Collected:** 07/10/2022 **Reported:** 08/10/2022
15:42

Comments on Lab Id. 388212581

NOTE: High dose biotin (>5 mg/day) may artefactually lower the tumour marker results. If the patient is taking high dose biotin and needs to have interference excluded, please contact Chemical Pathologist Dr Ken Sikaris on 9287 7720.

Department Supervising Pathologist: Dr Ken Sikaris

Melbourne Pathology NATA No.:2133

Tests Completed: INFOBIOTIN1, IS, FLS, ROCHEft4, TSH, EUC, LFT, GF, CRP, CA125, A1C, FBE, ESR
Tests Pending : FSH, LH, PROG, ODIOL
Sample Pending :

HOWARD, CATHERINE
20 MAROONG DR, RESEARCH. 3095
Phone: 0407370337
Birthdate: 07/06/1962 **Sex:** F **Medicare Number:** 3200452759
Your Reference: 172F63DA5A **Lab Reference:** 388212581-C-C010
Laboratory: Melbourne Pathology
Addressee: DR KAREN MATHEW **Referred by:** DR KAREN MATHEW

Name of Test: SE-IRON STUDIES
Requested: 05/10/2022 **Collected:** 07/10/2022 **Reported:** 08/10/2022
15:42

Date	26/04/12	22/01/14	17/03/15	07/10/22		
Time F-Fast	1220	0845	1330	0859 F		
Lab Id.	316303732	323825627	328501618	388212581	Units	Reference
S IRON	20	16	21	19	umol/L	(5-30)
S TRF	2.3	2.3	2.4	2.2	g/L	(2.0-3.2)
S TRF SAT	35	28	35	35	%	(10-45)
S FERRITIN	145	125	99	85	ng/mL	(30-500)

Department Supervising Pathologist: Dr Ken Sikaris

Melbourne Pathology NATA No.:2133

Tests Completed: INFOBIOTIN1, IS, FLS, ROCHEft4, TSH, EUC, LFT, GF, CRP, CA125, A1C, FBE, ESR

Tests Pending : FSH, LH, PROG, ODIOL

Sample Pending :

HOWARD, CATHERINE
20 MAROONG DR, RESEARCH. 3095
Phone: 0407370337
Birthdate: 07/06/1962 **Sex:** F **Medicare Number:** 3200452759
Your Reference: 172F63DA5A **Lab Reference:** 388212581-C-C051
Laboratory: Melbourne Pathology
Addressee: DR KAREN MATHEW **Referred by:** DR KAREN MATHEW

Name of Test: SE-ROCHEft4
Requested: 05/10/2022 **Collected:** 07/10/2022 **Reported:** 08/10/2022
15:42

Date	13/10/21	07/10/22		
Time F-Fast	0923 F	0859 F		
Lab Id.	368673437	388212581	Units	Reference
S FT4(Roche)	19.1	21.0	pmol/L	(11.0-22.0)

Comments on Collection 07/10/22 0859 F:
ROCHEft4

High dose biotin can interfere with the Roche FT4 and FT3 methods and cause falsely elevated results. High dose biotin may be prescribed for the treatment of Multiple Sclerosis, and may also be found in certain "Hair, Skin and Nail" vitamin supplements. Standard multivitamins contain low levels of biotin and do not cause interference with Roche methods.

Department Supervising Pathologist: Dr Ken Sikaris

Melbourne Pathology NATA No.:2133

Tests Completed: INFOBIOTIN1, IS, FLS, ROCHEft4, TSH, EUC, LFT, GF, CRP, CA125, A1C, FBE, ESR

Tests Pending : FSH, LH, PROG, ODIOL

Sample Pending :

HOWARD, CATHERINE
 20 MAROONG DR, RESEARCH. 3095
Phone: 0407370337
Birthdate: 07/06/1962 **Sex:** F **Medicare Number:** 3200452759
Your Reference: 172F63DA5A **Lab Reference:** 388212581-C-C052
Laboratory: Melbourne Pathology
Addressee: DR KAREN MATHEW **Referred by:** DR KAREN MATHEW

Name of Test: SE-TSH(Roche)
Requested: 05/10/2022 **Collected:** 07/10/2022 **Reported:** 08/10/2022
 15:42

Date	09/10/19	28/10/20	13/10/21	07/10/22		
Time F-Fast	0854 F	0932 F	0923 F	0859 F		
Lab Id.	354154483	359267218	368673437	388212581	Units	Reference
S TSH(Roche)	0.65	0.51	0.63	0.52	mU/L	(0.5-5.5)

Department Supervising Pathologist: Dr Ken Sikaris

Melbourne Pathology NATA No.:2133

Tests Completed: INFOBIOTIN1, IS, FLS, ROCHEft4, TSH, EUC, LFT, GF, CRP, CA125, A1C, FBE, ESR

Tests Pending : FSH, LH, PROG, ODIOL

Sample Pending :

HOWARD, CATHERINE
 20 MAROONG DR, RESEARCH. 3095
Phone: 0407370337
Birthdate: 07/06/1962 **Sex:** F **Medicare Number:** 3200452759
Your Reference: 172F63DA5A **Lab Reference:** 388212581-C-C053
Laboratory: Melbourne Pathology
Addressee: DR KAREN MATHEW **Referred by:** DR KAREN MATHEW

Name of Test: SE-EUC
Requested: 05/10/2022 **Collected:** 07/10/2022 **Reported:** 08/10/2022
 15:42

Date	13/10/21	07/10/22			
Time F-Fast	0923 F	0859 F			
Lab Id.	368673437	388212581			
S SODIUM	140	138		mmol/L	(135-145)
S POTASSIUM	4.3	4.4		mmol/L	(3.5-5.5)
S CHLORIDE	103	99	Anion Gap 16.4 - high=	mmol/L	(95-110)
S BICARB	27	27	Acidity	mmol/L	(20-32)
S UREA	5.3	4.4		mmol/L	(3.0-8.5)
S CREAT	66	66		umol/L	(45-85)
eGFR	88	88			(>59)

Comments on Collection 07/10/22 0859 F:
 EUC

eGFR between 60 and 90 mL/min/1.73m2 could be normal if it is stable over time. Otherwise, consider testing for albuminuria using first morning void if indicated.

For clinical enquiries, please contact Chemical Pathologist
Dr Ken Sikaris on 9287 7720.

Department Supervising Pathologist: Dr Ken Sikaris

Melbourne Pathology NATA No.:2133

Tests Completed: INFOBIOTIN1, IS, FLS, ROCHEft4, TSH, EUC, LFT, GF, CRP, CA125,
A1C, FBE, ESR
Tests Pending : FSH, LH, PROG, ODIOL
Sample Pending :

HOWARD, CATHERINE
20 MAROONG DR, RESEARCH. 3095
Phone: 0407370337
Birthdate: 07/06/1962 Sex: F Medicare Number: 3200452759
Your Reference: 172F63DA5A Lab Reference: 388212581-C-C088
Laboratory: Melbourne Pathology
Addressee: DR KAREN MATHEW Referred by: DR KAREN MATHEW

Name of Test: SE-LIVER FN.TEST
Requested: 05/10/2022 Collected: 07/10/2022 Reported: 08/10/2022
15:42

Date	09/10/19	28/10/20	13/10/21	07/10/22		
Time F-Fast	0854 F	0932 F	0923 F	0859 F		
Lab Id.	354154483	359267218	368673437	388212581	Units	Reference
S T-BIL	7	6	7	10	umol/L	(3-15)
S ALT	20	15	16	13	U/L	(5-30)
S GGT	11	9	9	9	U/L	(5-35)
S ALP	52	56	59	61	U/L	(30-115)
S AST	29	22	21	21	U/L	(10-35)
S T-PROTEIN	71	67	70	71	g/L	(63-80)
S ALBUMIN	40	37	40	38	g/L	(33-44)
S GLOBULIN	31	30	30	33	g/L	(23-41)

Ratio 1.15. (inflam / oxid stress) if <1.2, Ideal >1.5

Department Supervising Pathologist: Dr Ken Sikaris

Melbourne Pathology NATA No.:2133

Tests Completed: INFOBIOTIN1, IS, FLS, ROCHEft4, TSH, EUC, LFT, GF, CRP, CA125,
A1C, FBE, ESR
Tests Pending : FSH, LH, PROG, ODIOL
Sample Pending :

HOWARD, CATHERINE
20 MAROONG DR, RESEARCH. 3095
Phone: 0407370337
Birthdate: 07/06/1962 Sex: F Medicare Number: 3200452759
Your Reference: 172F63DA5A Lab Reference: 388212581-C-C185
Laboratory: Melbourne Pathology
Addressee: DR KAREN MATHEW Referred by: DR KAREN MATHEW

Name of Test: SE-GLUCOSE-FAST (SERUM)
Requested: 05/10/2022 Collected: 07/10/2022 Reported: 08/10/2022
15:42

Date	28/10/20	13/10/21	07/10/22		
Time F-Fast	0932 F	0923 F	0859 F		
Lab Id.	359267218	368673437	388212581	Units	Reference
S GLU (Fast)	4.4	4.5	4.7	mmol/L	(3.6-6.0)

Department Supervising Pathologist: Dr Ken Sikaris

Melbourne Pathology NATA No.:2133

Tests Completed: INFOBIOTIN1, IS, FLS, ROCHEft4, TSH, EUC, LFT, GF, CRP, CA125, A1C, FBE, ESR

Tests Pending : FSH, LH, PROG, ODIOL

Sample Pending :

HOWARD, CATHERINE
 20 MAROONG DR, RESEARCH. 3095
Phone: 0407370337
Birthdate: 07/06/1962 **Sex:** F **Medicare Number:** 3200452759
Your Reference: 172F63DA5A **Lab Reference:** 388212581-C-C805
Laboratory: Melbourne Pathology
Addressee: DR KAREN MATHEW **Referred by:** DR KAREN MATHEW

Name of Test: SE-FSH
Requested: 05/10/2022 **Collected:** 07/10/2022 **Reported:** 08/10/2022
 16:42

Date	07/10/22		
Time F-Fast	0859 F		
Lab Id.	388212581	Units	Reference
S FSH	35	IU/L	

Comments on Collection 07/10/22 0859 F:

Reference Intervals	FSH (IU/L)	LH (IU/L)	Oestradiol (pmol/L)	Progesterone (nmol/L)
Female:				
Follicular phase	2.8 - 9.3	2.8 - 7.6	46 - 607	0.6 - 4.7
Mid cycle	3.0 - 19.2	10.5 - 85	315 - 1828	2.4 - 9.4
Luteal phase (D21)	1.7 - 7.7	1.0 - 11.4	161 - 774	5.3 - 86
Postmenopausal	31 - 153	12.0 - 75	<200	0.3 - 2.5

PLEASE NOTE: High dose biotin (>5 mg/day) may artefactually affect the hormone results. If the patient is taking 5-20 mg/day of biotin, suggest withhold for at least 8 hours before blood test (if taking 300 mg/day, withhold for at least 72 hours).

For clinical enquiries, please contact Chemical Pathologist
 Dr Ken Sikaris on 9287 7720.

Department Supervising Pathologist: Dr Ken Sikaris

Melbourne Pathology NATA No.:2133

Tests Completed: INFOBIOTIN1, IS, FLS, ROCHEft4, TSH, EUC, LFT, GF, CRP, CA125, FSH, LH, PROG, ODIOL, A1C, FBE, ESR

Tests Pending :

Sample Pending :

HOWARD, CATHERINE
20 MAROONG DR, RESEARCH. 3095

Phone: 0407370337

Birthdate: 07/06/1962 Sex: F Medicare Number: 3200452759

Your Reference: 172F63DA5A Lab Reference: 388212581-C-C810

Laboratory: Melbourne Pathology

Addressee: DR KAREN MATHEW Referred by: DR KAREN MATHEW

Name of Test: SE-LH

Requested: 05/10/2022 Collected: 07/10/2022 Reported: 08/10/2022
16:42

Date	28/10/20	13/10/21	07/10/22		
Time F-Fast	0932 F	0923 F	0859 F		
Lab Id.	359267218	368673437	388212581	Units	Reference
S LH	51	34	49	IU/L	

Department Supervising Pathologist: Dr Ken Sikaris

Melbourne Pathology NATA No.:2133

Tests Completed: INFOBIOTIN1, IS, FLS, ROCHEft4, TSH, EUC, LFT, GF, CRP, CA125,
FSH, LH, PROG, ODIOL, A1C, FBE, ESR

Tests Pending :

Sample Pending :

HOWARD, CATHERINE
20 MAROONG DR, RESEARCH. 3095

Phone: 0407370337

Birthdate: 07/06/1962 Sex: F Medicare Number: 3200452759

Your Reference: 172F63DA5A Lab Reference: 388212581-C-C820

Laboratory: Melbourne Pathology

Addressee: DR KAREN MATHEW Referred by: DR KAREN MATHEW

Name of Test: SE-PROGESTERONE

Requested: 05/10/2022 Collected: 07/10/2022 Reported: 08/10/2022
16:42

Date	28/10/20	13/10/21	07/10/22		
Time F-Fast	0932 F	0923 F	0859 F		
Lab Id.	359267218	368673437	388212581	Units	Reference
S PROG	0.4	0.4	0.7	nmol/L	

Department Supervising Pathologist: Dr Ken Sikaris

Melbourne Pathology NATA No.:2133

Tests Completed: INFOBIOTIN1, IS, FLS, ROCHEft4, TSH, EUC, LFT, GF, CRP, CA125,
FSH, LH, PROG, ODIOL, A1C, FBE, ESR

Tests Pending :

Sample Pending :

HOWARD, CATHERINE
20 MAROONG DR, RESEARCH. 3095

Phone: 0407370337

Birthdate: 07/06/1962 Sex: F Medicare Number: 3200452759

Your Reference: 172F63DA5A Lab Reference: 388212581-C-C825

Laboratory: Melbourne Pathology

Addressee: DR KAREN MATHEW Referred by: DR KAREN MATHEW

Name of Test: SE-OESTRADIOL

Requested: 05/10/2022 Collected: 07/10/2022 Reported: 08/10/2022

16:42

Date	28/10/20	13/10/21	07/10/22		
Time F-Fast	0932 F	0923 F	0859 F	Units	Reference
Lab Id.	359267218	368673437	388212581		
S OESTRADIOL	346	420	314	pmol/L	

Department Supervising Pathologist: Dr Ken Sikaris

Melbourne Pathology NATA No.:2133

Tests Completed: INFOBIOTIN1, IS, FLS, ROCHEft4, TSH, EUC, LFT, GF, CRP, CA125,
FSH, LH, PROG, ODIOL, A1C, FBE, ESR

Tests Pending :

Sample Pending :

HOWARD, CATHERINE
20 MAROONG DR, RESEARCH. 3095

Phone: 0407370337

Birthdate: 07/06/1962 Sex: F Medicare Number: 3200452759

Your Reference: 172F63DA5A Lab Reference: 388212581-C-C290

Laboratory: Melbourne Pathology

Addressee: DR KAREN MATHEW Referred by: DR KAREN MATHEW

Name of Test: SE-C-REACTIVE PROTEIN

Requested: 05/10/2022 Collected: 07/10/2022 Reported: 08/10/2022

15:42

Date	24/09/07	26/04/12	13/10/21	07/10/22		
Time F-Fast	0940	1220	0923 F	0859 F	Units	Reference
Lab Id.	91742355	316303732	368673437	388212581		
S CRP	<1	<1	1	13 H	mg/L	(<5)

CRP Specimen - Serum

Department Supervising Pathologist: Dr Ken Sikaris

Melbourne Pathology NATA No.:2133

Tests Completed: INFOBIOTIN1, IS, FLS, ROCHEft4, TSH, EUC, LFT, GF, CRP, CA125,
A1C, FBE, ESR

Tests Pending : FSH, LH, PROG, ODIOL

Sample Pending :

HOWARD, CATHERINE
20 MAROONG DR, RESEARCH. 3095
Phone: 0407370337
Birthdate: 07/06/1962 **Sex:** F **Medicare Number:** 3200452759
Your Reference: 172F63DA5A **Lab Reference:** 388212581-C-C012
Laboratory: Melbourne Pathology
Addressee: DR KAREN MATHEW **Referred by:** DR KAREN MATHEW

Name of Test: SE-LIPID - HDL/LDL
Requested: 05/10/2022 **Collected:** 07/10/2022 **Reported:** 08/10/2022
15:42

Date	07/10/22		
Time F-Fast	0859 F		
Lab Id.	388212581	Units	Reference
S CHOL	5.9 H	mmol/L	(3.5-5.5)
S TRIG	1.0	mmol/L	(<1.5)
S HDL-CHOL	1.98	mmol/L	(>1.20)
S LDL-CHOL	3.5 H	mmol/L	(<3.5)
S CHOL/HDL	3.0		(<4.5)
S Non HDL	3.9 H	mmol/L	(<3.9)

Comments on Collection 07/10/22 0859 F:

FLS

TARGET LEVELS:

NVDPA treatment target levels for high risk people (known coronary heart and other arterial disease, diabetes, chronic renal failure, Aboriginal and Torres Strait Islander peoples and familial hyperlipidaemic conditions) are:

Total Cholesterol	<4.0 mmol/L
HDL-Cholesterol	>=1.00 mmol/L
Fasting Triglycerides	<2.0 mmol/L
LDL-Cholesterol	<2.0 mmol/L
Non-HDL Cholesterol	<2.5 mmol/L

Increased non-HDL Cholesterol is a significant marker for subclinical atherosclerosis (ref: Cardiology Today 2013; 3(2) : pp25-27).

Department Supervising Pathologist: Dr Ken Sikaris

Melbourne Pathology NATA No.:2133

Tests Completed: INFOBIOTIN1, IS, FLS, ROCHEfT4, TSH, EUC, LFT, GF, CRP, CA125, A1C, FBE, ESR

Tests Pending : FSH, LH, PROG, ODIOL

Sample Pending :