Patient Address:	4 DAVID ST, OLDERSHAW	**Gender:**	F
D.O.B:	25/12/1955	**IHI No.:**	
Medicare No.:	2009035701	**Provider:**	Laverty Pathology
Lab. Reference:	23-26084205-MBA-0	**Referred by:**	DR. CHEN-TING YEN
Addressee:	DR CHEN-TING YEN		
Date Requested:	20/11/2023	**Date Performed:**	20/11/2023
Date Collected:	20/11/2023	**Complete:**	Final
Specimen:			
Subject(Test Name):	SERUM CHEMISTRY (MBA-0)		
Clinical Information:			

Clinical Notes : Monitoring blood tests as per lipid clinic's ...

SERUM CHEMISTRY

		17307577	19230077	23057033	26084205
Request Number					
Date Collected		7 Jan 22	1 Jun 22	12 Jan 23	20 Nov 23
Time Collected		09:37	08:50	08:55	10:26
Specimen Type: Serum					
Haemolysis		Nil	Nil	Nil	Nil
Icterus		Nil	Nil	Nil	Nil
Lipaemia		Nil	Nil	Nil	Nil
Na (135-145)	mmol/L	143	141	140	141
K (3.6-5.4)	mmol/L	4.4	4.1	4.5	4.7
Cl (95-110)	mmol/L	102	99	98	101
HCO3 (22-32)	mmol/L	24	26	24	24
An Gap (10-20)	mmol/L	**21**	20	**22**	**21**
Urea (2.5-9.0)	mmol/L	7.6	6.6	8.0	5.4
Creat (45-90)	umol/L	55	55	55	55
eGFR	mL/min/1.73m^2	> 90	> 90	> 90	> 90
Urate (0.14-0.36)	mmol/L		0.34	0.28	
Bili (< 15)	umol/L	12	**15**	6	13
AST (< 35)	U/L	**37**	**45**	**36**	**42**
ALT (< 30)	U/L	**52**	**70**	**55**	**82**
GGT (< 35)	U/L	**144**	**254**	**196**	**170**
Alk Phos (30-115)	U/L	**126**	**145**	**127**	101.
Protein (60-82)	g/L	74	79	75	74
Albumin (36-48)	g/L	47	**50**	**49**	45
Glob (20-39)	g/L	27	29	26	29
Ca (2.10-2.60)	mmol/L		2.52	2.49	
Corr Ca (2.10-2.60)			2.38	2.37	
PO4 (0.75-1.50)	mmol/L		1.13	0.86	

(Border

high. high

eGFR >=90 mL/min/1.73m2 usually indicates normal kidney function but does not exclude patients with early kidney damage (those with albuminuria, haematuria or abnormal kidney imaging).

Requested Tests : TFT, GLU, MBA, LIP, INS, FBE

Patient Name:	MCKENZIE, ROBERTA
Patient Address:	4 DAVID ST, GLENBROOK 2773
D.O.B:	25/12/1955
Medicare No.:	2009035701
Lab. Reference:	23-26084205-FBE-0
Addressee:	DR CHEN-TING YEN
Date Requested:	20/11/2023
Date Collected:	20/11/2023
Specimen:	
Subject(Test Name):	HAEMATOLOGY (FBE-0)
Clinical Information:	

Gender:	F
IHI No.:	
Provider:	Laverty Pathology
Referred by:	DR. CHEN-TING YEN
Date Performed:	20/11/2023
Complete:	Final

Clinical Notes : Monitoring blood tests as per lipid clinic's ...

HAEMATOLOGY

			Request Number	17307577	19230077	23057033	26084205
			Date Collected	7 Jan 22	1 Jun 22	12 Jan 23	20 Nov 23
			Time Collected	09:37	08:50	08:55	10:26
			Specimen Type:	EDTA			
Hb	(115-165)	g/L		137	137	131	161
Hct	(0.34-0.47)			0.42	0.42	0.41	~~0.49~~
RCC	(3.9-5.8)	x10^12	/L	4.6	4.7	4.5	5.5
MCV	(79-99)	fL		92	89	91	90
MCH	(27-34)	pg		30	29	29	29
MCHC	(320-360)	g/L		325	329	320	326
RDW	(10.0-17.0)	%		12.4	12.1	13.2	13.1
WBC	(4.0-11.0)	x10^9	/L	7.6	8.5	**14.6**	6.5
Neut	(2.0-7.5)	x10^9	/L	4.6	5.2	**10.4**	3.8
Lymph	(1.0-4.0)	x10^9	/L	2.5	2.7	3.2	2.2
Mono	(0.2-1.0)	x10^9	/L	0.4	0.5	0.7	0.3
Eos	(< 0.7)	x10^9	/L	0.1	0.1	0.1	0.1
Baso	(< 0.2)	x10^9	/L	0.0	0.0	0.1	0.1
Plat	(150-400)	x10^9	/L	308	354	340	303

high

HAEMATOLOGY: FBC parameters show no significant abnormality.

Requested Tests : TFT*, GLU*, MBA*, LIP*, INS*, FBE

Patient Name:	MCKENZIE, ROBERTA		
Patient Address:	4 DAVID ST, GLENBROOK 2773	**Gender:**	F
D.O.B:	25/12/1955	**IHI No.:**	
Medicare No.:	2009035701	**Provider:**	Laverty Pathology
Lab. Reference:	23-26084205-INS-0	**Referred by:**	DR. CHEN-TING YEN
Addressee:	DR CHEN-TING YEN		
Date Requested:	20/11/2023	**Date Performed:**	20/11/2023
Date Collected:	20/11/2023	**Complete:**	Final
Specimen:			
Subject(Test Name):	SERUM INSULIN (INS-0)		
Clinical Information:			

Clinical Notes : Monitoring blood tests as per lipid clinic's ...

SERUM INSULIN

Fasting status	Fasting		
Haemolysis	Nil		
Insulin	**13**	mU/L	(< 10)

ASSESSMENT OF INSULIN RESISTANCE (FASTING SAMPLES ONLY)

< 10 - normal insulin sensitivity
10-14 - mild insulin resistance
> 14 - insulin resistance

Insulin results from non-fasting samples are difficult to interpret although any result >= 60 mU/L is likely to indicate insulin resistance.

Requested Tests : TFT, GLU*, MBA*, LIP*, INS, FBE

Patient Name:	MCKENZIE, ROBERTA		
Patient Address:	4 DAVID ST, GLENBROOK 2773		
D.O.B:	25/12/1955	**Gender:**	F
Medicare No.:	2009035701	**IHI No.:**	
Lab. Reference:	23-26084205-GLU-0	**Provider:**	Laverty Pathology
Addressee:	DR CHEN-TING YEN	**Referred by:**	DR. CHEN-TING YEN
Date Requested:	20/11/2023	**Date Performed:**	20/11/2023
Date Collected:	20/11/2023	**Complete:**	Final
Specimen:			
Subject(Test Name):	GLUCOSE (GLU-0)		
Clinical Information:			

Clinical Notes : Monitoring blood tests as per lipid clinic's ...

SERUM/PLASMA GLUCOSE

Request Number		17307577	19230077	23057033	26084205
Date Collected		7 Jan 22	1 Jun 22	12 Jan 23	20 Nov 23
Time Collected		09:37	08:50	08:55	10:26
Fasting status		Fasting	Fasting	Fasting	Fasting
Serum (3.4-5.4)	mmol/L	**5.7**	5.2	**5.8**	**5.9**

Equivocally elevated fasting glucose result. If not recently performed, recommend follow-up assessment with an oral glucose tolerance test or HbA1c.

Requested Tests : TFT, GLU, MBA*, LIP, INS, FBE

Patient Name:	MCKENZIE, ROBERTA		
Patient Address:	4 DAVID ST, GLENBROOK 2773	**Gender:**	F
D.O.B:	25/12/1955	**IHI No.:**	
Medicare No.:	2009035701	**Provider:**	Laverty Pathology
Lab. Reference:	23-26084205-TFT-0	**Referred by:**	DR. CHEN-TING YEN
Addressee:	DR CHEN-TING YEN		
Date Requested:	20/11/2023	**Date Performed:**	20/11/2023
Date Collected:	20/11/2023	**Complete:**	Final
Specimen:			
Subject(Test Name):	THYROID FUNCTION TEST (TFT-0)		
Clinical Information:			

Clinical Notes : Monitoring blood tests as per lipid clinic's ...

THYROID PROFILE

Request Number			17307577	19230077	23057033	26084205
Date Collected			7 Jan 22	1 Jun 22	12 Jan 23	20 Nov 23
Time Collected			09:37	08:50	08:55	10:26
Specimen Type: Serum						
TSH	(0.5-4.0)	mIU/L	8.7	1.6	2.7	0.59
FT4	(10-20)	pmol/L	16		22	
FT3	(3.5-6.0)	pmol/L	4.4			

Thyroid hormone replacement therapy appears adequate.

Requested Tests : TFT, GLU*, MBA*, LIP*, INS*, FBE

Patient Address:	
Patient D.O.B:	25/12/1955
Medicare No.:	2009035701
Lab. Reference:	23-26084205-LIP-0
Addressee:	DR CHEN-TING YEN
Gender:	F
IHI No.:	
Provider:	Laverty Pathology
Referred by:	DR. CHEN-TING YEN
Date Requested:	20/11/2023
Date Collected:	20/11/2023
Specimen:	
Subject(Test Name):	LIPID STUDIES (LIP-0)
Clinical Information:	
Date Performed:	20/11/2023
Complete:	Final

Clinical Notes : Monitoring blood tests as per lipid clinic's ...

LIPID STUDIES

Request Number	17307577	19230077	23057033	26084205
Date Collected	7 Jan 22	1 Jun 22	12 Jan 23	20 Nov 23
Time Collected	09:37	08:50	08:55	10:26
Specimen Type: Serum				

Reference intervals are included for reference only, and interpretation / treatment goals should be guided by patient-specific cardiovascular risk assessment (see Australian Cardiovascular Risk Charts. Alternatively, the web-site www.cvdcheck.org.au can be accessed in order to complete a risk assessment for individual patients.)

Haemolysis		Nil	Nil	Nil	Nil
Icterus		Nil	Nil	Nil	Nil
Lipaemia		Nil	Nil	Nil	Nil
Fasting status		Fasting	Fasting	Fasting	Fasting
Chol (3.9-5.2)	mmol/L	6.1	6.0	6.9	9.1
Trig (0.5-1.7)	mmol/L	1.4	2.1	2.5	2.2
HDL (1.0-2.0)	mmol/L	2.0	2.0	2.3	1.7
LDL (1.5-3.4)	mmol/L	3.5	3.0	3.5	6.4
Non-HDL (< 3.4)	mmol/L	4.1	4.0	4.6	7.4
Chol/HDL(< 4.5)		3.0	3.0	3.0	5.4

NVDPA TARGET LIPID RANGES (MMOL/L) FOR PATIENTS AT HIGH / MODERATE RISK OF CARDIOVASCULAR DISEASE:

TOTAL CHOLESTEROL	<4.0
TRIGS (FASTING)	<2.0
HDL-C	>= 1.0
LDL-C	<2.0
NON HDL-C	<2.5

Increased LDL-C can be seen in hypothyroidism and nephrotic syndrome. Primary causes include polygenic hypercholesterolaemia, Familial Hypercholesterolaemia, Familial Defective ApoB-100 and Familial Combined Hyperlipoproteinaemia. Increased LDL-C is a risk factor for CVD. Assess overall risk and consider treatment.

Lipoprotein X may be seen in patients with cholestatic liver disease and lecithin-cholesterol acyl transferase deficiency.

Familial hypercholesterolaemia, an autosomal dominant cause of premature cardiovascular disease is likely (risk approximately 1 in 5). Recommend http://www.athero.org.au/calculator to calculate diagnostic score and http://www.athero.org.au/physicians/what-is-familial-