

Report to **MIDDLETON, Alexandra**  
 12/50 Bellevue Hill

 Patient **JACOB, Katharina**  
 22/173-179 BRONTE RD  
 QUEENPARK NSW 2022

Phone

D.O.B 06/07/1985 Age 33 years. Sex F

Ref. by/copy to CC Drs: MIDDLETON, ALEXANDRA Collect date 01/06/2019 Lab ref 19-18796266

Collect time 10:30 AM Your ref

Reported 03/06/2019 02:37 PM

 Tests requested CTD, COE, EPG, DVI, FE, IMM, GLU, LIP, MBA, VBF, FB  
 CVI\*

Clin notes

## AUTOIMMUNE SEROLOGY

Anti-nuclear antibodies Negative

The ANA was negative at the screening dilution of 1:80. A negative ANA excludes lupus in 95% of cases. Consider ENA screening for patients with features of Sjogren's Syndrome (to detect antibodies to SS-A) and antibodies to cardiolipin, beta-2 glycoprotein 1, and lupus anticoagulant for patients with features of the anti-phospholipid antibody syndrome.

### Antibodies to Extractable Nuclear Antigens (ENA)

Antibody to Sm	Not detected
Antibody to nRNP	Not detected
Antibody to SSA (Ro60)	Not detected
Antibody to SSA (Ro52)	Not detected
Antibody to SSB	Not detected
Antibody to Scl-70	Not detected
Antibody to Jo-1	Not detected
Antibody to Ribo-P	Not detected

Antibodies to the extractable nuclear antigens listed above were not detected by screening with a multiplex immunoassay. Antibodies to additional disease-associated ENAs (including PM-Scl and others) are not detectable with the current assay.

All testing performed on serum or plasma unless otherwise specified.

### SURGERY USE

Normal

No Action/File

 Patient  
Notified

 Make  
Appoint.

Further Tests

 Notes  
Required

 Speak  
with Dr.

 On Correct  
Treatment

Report to **MIDDLETON, Alexandra**  
 12/50 Bellevue Hill

 Patient **JACOB, Katharina**  
 22/173-179 BRONTE RD  
 QUEENPARK NSW 2022

Phone

D.O.B 06/07/1985 Age 33 years. Sex F

Ref. by/copy to CC Drs: MIDDLETON, ALEXANDRA

Collect date 01/06/2019 Lab ref 19-18796266

Collect time 10:30 AM Your ref

Reported 03/06/2019 02:00 PM

 Tests requested CTD, COE, EPG, DVI, FE, IMM, GLU, LIP, MBA, VBF, FB  
 CVI\*

Clin notes

## COELIAC DISEASE SEROLOGY

Deamidated gliadin peptide IgG	< 1 U/mL	( < 15 )
Total IgA	2.20 g/L	( 0.40-3.50 )
Transglutaminase IgA	< 1 U/mL	( < 15 )

No serological evidence of coeliac disease or dermatitis herpetiformis.  
 False negative results may occur in affected individuals compliant with a  
 gluten-free diet. Affected children aged under 5 years may also be  
 negative for IgA- tissue transglutaminase antibodies.

All testing performed on serum or plasma unless otherwise specified.

## SERUM ELECTROPHORESIS

Total Protein	66 g/L	( 60-82 )
Albumin	42 g/L	( 38-50 )
Alpha-1 Globulins	3 g/L	( 2-4 )
Alpha-2 Globulins	7 g/L	( 5-10 )
Beta-1 Globulin	3 g/L	( 3-6 )
Beta-2 Globulin	3 g/L	( 1-5 )
Gamma Globulin	9 g/L	( 6-13 )

Comment:

Normal serum protein electrophoresis pattern.

## SERUM PROTEIN IMMUNOFIXATION

No monoclonal bands were detected by immunofixation electrophoresis.

## VITAMIN D

Serum 25(OH) Vitamin D	87 nmol/L
------------------------	-----------

Suggested decision limits for Vitamin D status:

Sufficiency	51 -200 nmol/L
Mild deficiency	25 - 50 nmol/L
Marked deficiency	< 25 nmol/L
Toxicity	>250 nmol/L

References: Vitamin D and health in adults in Australia and New Zealand:  
 Position Statement. MJA 2012 June 18; 196(11),686-687.

**SURGERY  
USE**

Normal

No Action/File

 Patient  
Notified

 Make  
Appoint.

Further Tests

 Notes  
Required

 Speak  
with Dr.

 On Correct  
Treatment

Report to **MIDDLETON, Alexandra**  
 12/50 Bellevue Hill

 Patient **JACOB, Katharina**  
 22/173-179 BRONTE RD  
 QUEENPARK NSW 2022

 Phone  
 D.O.B 06/07/1985 Age 33 years. Sex F

Ref. by/copy to CC Drs: MIDDLETON, ALEXANDRA Collect date 01/06/2019 Lab ref 19-18796266

 Collect time 10:30 AM Your ref  
 Reported 03/06/2019 02:00 PM

 Tests requested CTD, COE, EPG, DVI, FE, IMM, GLU, LIP, MBA, VBF, FB  
 CVI\*

Clin notes

## IRON STUDIES

Request Number	27467633	16677473	18796266
Date Collected	10 Mar 17	23 Mar 19	1 Jun 19
Time Collected	08:44	10:48	10:30
Specimen Type: Serum			
Iron (10-30)	umol/L		23
T'ferrin(32-48)	umol/L		22
T. Sat. (13-45)	%		53
Ferritin(30-165)	ug/L	75	120
			95

Raised transferrin saturation may be the earliest sign of iron overload.  
 Suggest repeat fasting iron studies to confirm the finding.

## SERUM IMMUNOGLOBULINS

IgA	2.20	g/L	(0.40-3.50)
-----	------	-----	-------------

## SERUM/PLASMA GLUCOSE

Request Number	27467633	16677473	18796266
Date Collected	10 Mar 17	23 Mar 19	1 Jun 19
Time Collected	08:44	10:48	10:30
Fasting status	Fasting	Fasting	Fasting
Serum (3.4-5.4)	mmol/L	5.2	5.5
			4.7

Normal glucose concentration.

### SURGERY USE

Normal

No Action/File

 Patient  
Notified

 Make  
Appoint.

Further Tests

 Notes  
Required

 Speak  
with Dr.

 On Correct  
Treatment

Report to **MIDDLETON, Alexandra**  
 12/50 Bellevue Hill

 Patient **JACOB, Katharina**  
 22/173-179 BRONTE RD  
 QUEENPARK NSW 2022

 Phone  
 D.O.B **06/07/1985** Age **33 years.** Sex **F**

 Ref. by/copy to **CC Drs: MIDDLETON, ALEXANDRA** Collect date **01/06/2019** Lab ref **19-18796266**

 Collect time **10:30 AM** Your ref

 Reported **03/06/2019 02:00 PM**

 Tests requested **CTD, COE, EPG, DVI, FE, IMM, GLU, LIP, MBA, VBF, FB  
CVI\***

Clin notes

## LIPID STUDIES

 Request Number **27467633** **16677473** **18796266**  
 Date Collected **10 Mar 17** **23 Mar 19** **1 Jun 19**  
 Time Collected **08:44** **10:48** **10:30**  
 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](http://www.cvdcheck.org.au) can be accessed in order to complete a risk assessment for individual patients.)

Haemolysis	Nil	Nil	Nil
Icterus	Nil	Nil	Nil
Lipaemia	Nil	Nil	Nil

Fasting status		Fasting	Fasting	Fasting
Chol (3.6-5.2)	mmol/L	5.2	3.6	3.7
Trig (0.5-1.7)	mmol/L	<b>0.4</b>	<b>0.4</b>	0.6
HDL (1.0-2.0)	mmol/L	<b>2.1</b>	1.4	
LDL (1.5-3.4)		2.9	2.0	
Non-HDL (< 3.4)		3.1	2.2	
Chol/HDL(< 4.5)		2.5	2.6	

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

### SURGERY USE

Normal

No Action/File

 Patient  
Notified

 Make  
Appoint.

Further Tests

 Notes  
Required

 Speak  
with Dr.

 On Correct  
Treatment

Report to **MIDDLETON, Alexandra**  
 12/50 Bellevue Hill

 Patient **JACOB, Katharina**  
 22/173-179 BRONTE RD  
 QUEENPARK NSW 2022

Phone

D.O.B

06/07/1985

Age

33 years.

Sex

F

Ref. by/copy to CC Drs: MIDDLETON, ALEXANDRA

Collect date 01/06/2019 Lab ref 19-18796266

Collect time 10:30 AM Your ref

Reported 03/06/2019 01:40 PM

 Tests requested CTD, COE, EPG, DVI, FE, IMM, GLU, LIP, MBA, VBF, FB  
 CVI\*

Clin notes

## SERUM CHEMISTRY

Request Number	27467633	16677473	18796266
Date Collected	10 Mar 17	23 Mar 19	1 Jun 19
Time Collected	08:44	10:48	10:30
Specimen Type: Serum			
Haemolysis	Nil	Nil	Nil
Icterus	Nil	Nil	Nil
Lipaemia	Nil	Nil	Nil
Na (135-145) mmol/L	140	140	139
K (3.6-5.4) mmol/L	4.2	4.8	4.8
Cl (95-110) mmol/L	105	107	104
HCO3 (22-32) mmol/L	25	25	25
An Gap (10-20) mmol/L	14	13	15
Urea (2.5-8.0) mmol/L	5.3	5.4	6.8
Creat (45-90) umol/L	60	45	60
eGFR mL/min/1.73m <sup>2</sup>	> 90	> 90	> 90
Urate (0.14-0.36) mmol/L		0.26	
Bili (< 15) umol/L	14	17	13
AST (< 30) U/L	26	23	29
ALT (< 30) U/L	18	19	23
GGT (< 30) U/L	14	11	8
Alk Phos (20-105) U/L	49	57	58
Protein (60-82) g/L	70	65	66
Albumin (38-50) g/L	44	41	41
Glob (20-39) g/L	26	24	25
Ca (2.10-2.60) mmol/L		2.33	
Corr Ca (2.10-2.60)		2.37	
PO4 (0.75-1.50) mmol/L		1.21	

eGFR >=90 mL/min/1.73m<sup>2</sup> usually indicates normal kidney function but does not exclude patients with early kidney damage (those with albuminuria, haematuria or abnormal kidney imaging).

## SURGERY USE

Normal

No Action/File

 Patient  
Notified

 Make  
Appoint.

Further Tests

 Notes  
Required

 Speak  
with Dr.

 On Correct  
Treatment

Report to **MIDDLETON, Alexandra**  
 12/50 Bellevue Hill

 Patient **JACOB, Katharina**  
 22/173-179 BRONTE RD  
 QUEENPARK NSW 2022

Phone

D.O.B

06/07/1985

Age

33 years.

Sex

F

Ref. by/copy to CC Drs: MIDDLETON, ALEXANDRA

Collect date 01/06/2019 Lab ref 19-18796266

Collect time 10:30 AM Your ref

Reported 03/06/2019 10:42 AM

 Tests requested CTD, COE, EPG, DVI, FE, IMM, GLU, LIP, MBA, VBF, FB  
 CVI\*

Clin notes

## VITAMIN B12 AND FOLATE STUDIES

 Request Number 27467633 18796266  
 Date Collected 10 Mar 17 1 Jun 19  
 Time Collected 08:44 10:30

B12 (301-740)pmol/L 582 507

Serum Folate (&gt; 9.0)nmol/L &gt; 54.0 52.8

### Folate Interpretation:

	DEFICIENCY	BORDERLINE	SUFFICIENCY
Serum Folate:	<4.5 nmol/L	4.5 - 9.0 nmol/L	>9.0 nmol/L
RBC Folate:	<340 nmol/L	340 - 570 nmol/L	>570 nmol/L

### Serum Folate Assay:

In the absence of recent oral intake, a serum folate >9.0 nmol/L effectively rules out folate deficiency.

Please note that Medicare requirements for folate testing reflect current best practice. Red cell folate will be reserved for patients with borderline values for serum folate (between 4.5 and 9.0 nmol/L.)

#### SURGERY USE

Normal

No Action/File

 Patient  
Notified

 Make  
Appoint.

Further Tests

 Notes  
Required

 Speak  
with Dr.

 On Correct  
Treatment

Report to **MIDDLETON, Alexandra**  
12/50 Bellevue Hill

Patient **JACOB, Katharina**  
22/173-179 BRONTE RD  
QUEENPARK NSW 2022

Phone  
D.O.B 06/07/1985 Age 33 years. Sex F

Ref. by/copy to CC Drs: MIDDLETON, ALEXANDRA Collect date 01/06/2019 Lab ref 19-18796266

Collect time 10:30 AM Your ref

Reported 01/06/2019 09:31 PM

Tests requested CTD, COE, EPG, DVI, FE, IMM, GLU, LIP, MBA, VBF, FB  
CVI\*

Clin notes

## HAEMATOLOGY

Request Number	27467633	16677473	18796266
Date Collected	10 Mar 17	23 Mar 19	1 Jun 19
Time Collected	08:44	10:48	10:30
Specimen Type: EDTA			
Hb (115-165) g/L	131	129	134
Hct (0.34-0.47)	0.38	0.38	0.40
RCC (3.9-5.8) x10 <sup>12</sup> /L	4.1	4.1	4.5
MCV (79-99) fL	93	93	90
MCH (27-34) pg	32	32	30
MCHC (320-360) g/L	342	339	334
RDW (10.0-17.0) %	12.2	11.5	11.6
WBC (4.0-11.0) x10 <sup>9</sup> /L	5.5	4.5	5.8
Neut (2.0-7.5) x10 <sup>9</sup> /L	3.1	2.4	3.1
Lymph(1.0-4.0) x10 <sup>9</sup> /L	1.8	1.6	2.1
Mono (0.2-1.0) x10 <sup>9</sup> /L	0.5	0.4	0.4
Eos (< 0.7) x10 <sup>9</sup> /L	0.1	0.0	0.1
Baso (< 0.2) x10 <sup>9</sup> /L	0.1	0.0	0.1
Plat (150-400) x10 <sup>9</sup> /L	227	197	274

HAEMATOLOGY: FBC parameters are within reference range.

### SURGERY USE

Normal

No Action/File

Patient  
Notified

Make  
Appoint.

Further Tests

Notes  
Required

Speak  
with Dr.

On Correct  
Treatment