

CLA(s) on 18/12/2017

Clinical Notes : MENORRHAGIA

Cardiolipin / Beta2Glycoprotein IgG Abs

Cardiolipin IgG Abs	<1.6	U/mL	(	<20	)
Beta2Glycoprotein1 IgG Abs	<1.4	U/mL	(	<20	)
Cardiolipin IgM Abs	3.4	U/mL	(	<20	)

Comment on Lab ID 267994416

Interpretation	(U/mL)
Negative	0-19
Low Positive	20-39
Moderate Positive	40-79
High Positive	>80

Most patients with Anti-Phospholipid Syndrome (thrombosis, recurrent foetal loss, thrombocytopenia and phospholipid Abs) have moderate to high IgG cardiolipin levels; IgM Abs are less specific. B2GP1 IgG Abs are more specific and less sensitive. The lupus anticoagulant test may detect other phospholipid Abs. Diagnosis of APS requires persistence of phospholipid Abs for more than 12 weeks confirmed by repeat testing.

Supervising Pathologist: KB

NATA Accreditation No 2178

Tests Completed: CA125(s), HCG Quant(s), B12(s), Fol(s), LFT(s), Cr(s),
UCreat(s), E(s), Glu(p), Iron(s), CRP(s), Vit D(s),
TFT(s), :TFT(s), TSH(s), Active B12(s), Coags(c),
FBC(e), ESR(e), CLA(s)

Tests Pending : ds-DNA Ab, ANA(s)

Sample Pending :

ANA(s) on 18/12/2017

Clinical Notes : MENORRHAGIA

Antinuclear Antibodies

ANA Not Detected

Comment on Lab ID 267994416

(Screened at a titre of 80)

Supervising Pathologist: KB

NATA Accreditation No 2178

Tests Completed: CA125(s), HCG Quant(s), B12(s), Fol(s), LFT(s), Cr(s),
UCreat(s), E(s), Glu(p), Iron(s), CRP(s), Vit D(s),
TFT(s), :TFT(s), TSH(s), Active B12(s), Coags(c),
FBC(e), ESR(e), ANA(s), CLA(s)

Tests Pending : ds-DNA Ab

Sample Pending :

SPNR DR on 18/12/2017

Clinical Notes : NO HISTORY

PLEASE NOTE:

The following specimens were not received:

DEDICATED EDTA FOR MTHFR

If testing is still required, please organise a recollection and submit with a new request form or call the Troubleshooting Department on 98 555 586.

NATA Accreditation No 2178

Tests Completed: DHEAS(s), SPNR DR

Tests Pending : Zn(s), Cu(s), RU-iodine

Sample Pending :

Biochemistry on 18/12/2017

Clinical Notes : MENORRHAGIA

BIOCHEMISTRY

Date	11/03/16	11/03/16	29/03/16	18/12/17		
Time	1015	1025	1008	Unkn		
Lab ID	273627993	248232789	248232041	267994416	Units	Reference
Status	Random	Random		Unknown		
Sodium	139	139		140	mmol/L	(135-145)
Potassium	4.4	4.4		L 3.3	mmol/L	(3.5-5.5)
Chloride	105	105		104	mmol/L	(95-110)
Bicarbonate	24	24		26	mmol/L	(20-32)
Urea	6.2	6.2		4.6	mmol/L	(2.5-7.0)
Creatinine	65	65		75	umol/L	(45-85)
eGFR	>90	>90		>90	mL/min/1.73m2	(>59)
Bili.Total	9	9		7	umol/L	(3-15)
ALP	31	31		36	U/L	(20-105)
GGT	7	7		8	U/L	(5-35)
LD	187	187		191	U/L	(120-250)
AST	14	14		17	U/L	(10-35)
ALT	11	11		10	U/L	(5-30)
Total Protein	L 62	L 62	70	68	g/L	(68-85)
Albumin	41	41		43	g/L	(37-48)
Globulin	L 21	L 21		25	g/L	(23-39)

Comments on Collection 18/12/17 Unkn:

eGFR (mL/min/1.73m2) calculated by CKD-EPI formula - see www.kidney.org.au

Supervising Pathologist: GC, NT

NATA Accreditation No 2178

Tests Completed: CA125(s), HCG Quant(s), B12(s), Fol(s), LFT(s), Cr(s),
UCreat(s), E(s), Glu(p), Iron(s), CRP(s), Vit D(s),
TFT(s), :TFT(s), TSH(s), Active B12(s), Coags(c),
FBC(e), ESR(e)

Tests Pending : ds-DNA Ab, ANA(s), CLA(s)

Sample Pending :

_Glucose on 18/12/2017

Clinical Notes : MENORRHAGIA

GLUCOSE

Date	15/10/08	11/03/16	11/03/16	18/12/17		
Time	1220	1015	1025	Unkn		
Lab ID	98361140	273627993	248232789	267994416	Units	Reference
R Gluc Plasma				6.4	mmol/L	(3.6-7.8)
R Gluc Serum	5.0	4.5	4.5		mmol/L	(3.6-7.8)

Comments on Collection 18/12/17 Unkn:

Supervising Pathologist: GC, NT

NATA Accreditation No 2178

Tests Completed: CA125(s), HCG Quant(s), B12(s), Fol(s), LFT(s), Cr(s),
UCreat(s), E(s), Glu(p), Iron(s), CRP(s), Vit D(s),
TFT(s), :TFT(s), TSH(s), Active B12(s), Coags(c),
FBC(e), ESR(e)

Tests Pending : ds-DNA Ab, ANA(s), CLA(s)

Sample Pending :

Iron Studies on 18/12/2017

Clinical Notes : MENORRHAGIA

IRON

Date	11/03/16	11/03/16	20/11/17	18/12/17		
Time	1015	1025	1314	Unkn		
Lab ID	273627993	248232789	266351086	267994416	Units	Reference
Iron	7.9	7.9	6.2	27.9	umol/L	(5.0-30.0)
Transferrin	2.5	2.5	2.9	2.9	g/L	(2.0-3.6)
TIBC (Calc)	56	56	64	64	umol/L	(46-77)
Saturation	14	14	10	44	%	(10-45)
Ferritin	36	36	16	L 13	ug/L	(15-200)

Comments on Collection 18/12/17 Unkn:

These findings possibly reflect reduced iron stores. Recommend follow up iron studies.

Supervising Pathologist: GC, NT

NATA Accreditation No 2178

Tests Completed: CA125(s), HCG Quant(s), B12(s), Fol(s), LFT(s), Cr(s),
UCreat(s), E(s), Glu(p), Iron(s), CRP(s), Vit D(s),
TFT(s), :TFT(s), TSH(s), Active B12(s), Coags(c),
FBC(e), ESR(e)

Tests Pending : ds-DNA Ab, ANA(s), CLA(s)

Sample Pending :

CRP(s) on 18/12/2017

Clinical Notes : MENORRHAGIA

Date	11/03/16	18/12/17
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Time	1025	Unkn		
Lab ID	248232789	267994416	Units	Reference
CRP	4.5	<0.4	mg/L	(0.0-5.0)

Comments on Collection 18/12/17 Unkn:

Supervising Pathologist: GC, NT

NATA Accreditation No 2178

Tests Completed: CA125(s), HCG Quant(s), B12(s), Fol(s), LFT(s), Cr(s),
UCreat(s), E(s), Glu(p), Iron(s), CRP(s), Vit D(s),
TFT(s), :TFT(s), TSH(s), Active B12(s), Coags(c),
FBC(e), ESR(e)

Tests Pending : ds-DNA Ab, ANA(s), CLA(s)

Sample Pending :

Vit D(s) on 18/12/2017

Clinical Notes : MENORRHAGIA

Date	01/07/10	18/12/17		
Time	1030	Unkn		
Lab ID	203905801	267994416	Units	Reference
Vitamin D	61	62	nmol/L	(50-140)

Comments on Collection 18/12/17 Unkn:

According to the Position Statement 'Vitamin D and health in adults in Australia and New Zealand' MJA, 196(11):686-687, 2012, Vitamin D status is defined as:

Mild Deficiency	30	-	49 nmol/L
Moderate Deficiency	12.5	-	29 nmol/L
Severe Deficiency	<12.5		nmol/L

Vitamin D adequacy can be defined as a level >49 nmol/L at the end of winter - the level may need to be 10 - 20 nmol/L higher at the end of summer, to allow for seasonal decrease.

From 1st November 2014, Medicare rebates for vitamin D testing will apply to patients at risk of Vitamin D deficiency such as chronic lack of sun exposure.

Supervising Pathologist: GC, NT

NATA Accreditation No 2178

Tests Completed: CA125(s), HCG Quant(s), B12(s), Fol(s), LFT(s), Cr(s),
UCreat(s), E(s), Glu(p), Iron(s), CRP(s), Vit D(s),
TFT(s), :TFT(s), TSH(s), Active B12(s), Coags(c),
FBC(e), ESR(e)

Tests Pending : ds-DNA Ab, ANA(s), CLA(s)

Sample Pending :

Haematology on 18/12/2017

Clinical Notes : MENORRHAGIA

HAEMATOLOGY

Date	11/03/16	11/03/16	20/11/17	18/12/17
Time	1015	1025	1314	Unkn

Lab ID	273627993	248232789	266351086	267994416	Units	Reference
Haemoglobin	123	123	120	L 118	g/L	(119-160)
RCC	4.1	4.1	4.0	4.1	x10*12/L	(3.8-5.8)
Haematocrit (0.35-0.48)	0.38	0.38	0.37	0.38		
MCV	92	92	93	93	fL	(80-100)
MCH (27.0-32.0)	30.1	30.1	29.7	29.0	pg	
MCHC	326	326	321	312	g/L	(310-360)
RDW (10.0-15.0)	12.5	12.5	13.1	13.0		
WCC	5.4	5.4	6.6	5.4	x10*9/L	(4.0-11.0)
Neutrophils	3.64	3.64	3.58	2.95	x10*9/L	(2.0-7.5)
Lymphocytes	1.18	1.18	2.32	1.88	x10*9/L	(1.0-4.0)
Monocytes	0.37	0.37	0.44	0.36	x10*9/L	(0.0-1.0)
Eosinophils	0.13	0.13	0.17	0.17	x10*9/L	(0.0-0.5)
Basophils	0.03	0.03	0.06	0.05	x10*9/L	(0.0-0.3)
NRBC	<1.0	<1.0	<1.0	<1.0	/100 WBC	(<1)
Platelets	216	216	226	221	x10*9/L	(150-450)
ESR	14	14		6	mm/h	(1-23)

Comments on Collection 18/12/17 Unkn:
Hb decreased slightly

Supervising Pathologist: FH

NATA Accreditation No 2178

Tests Completed: CA125(s), HCG Quant(s), B12(s), Fol(s), LFT(s), Cr(s),
UCreat(s), E(s), Glu(p), Iron(s), CRP(s), Vit D(s),
TFT(s), :TFT(s), TSH(s), Active B12(s), Coags(c),
FBC(e), ESR(e)

Tests Pending : ds-DNA Ab, ANA(s), CLA(s)

Sample Pending :

Thyroid Function on 18/12/2017

Clinical Notes : MENORRHAGIA

TFT

Date	11/03/16	11/03/16	20/11/17	18/12/17		
Time	1015	1025	1314	Unkn		
Lab ID	273627993	248232789	266351086	267994416	Units	Reference
TSH..	0.93	0.93	1.28	1.22	mIU/L	
(0.40-3.50)						
Free T4..				11.2	pmol/L	(9.0-19.0)
Free T3				3.6	pmol/L	(2.6-6.0)

Comments on Collection 18/12/17 Unkn:

Euthyroid values.

Supervising Pathologist: GC, NT

NATA Accreditation No 2178

Tests Completed: CA125(s), HCG Quant(s), B12(s), Fol(s), LFT(s), Cr(s),
UCreat(s), E(s), Glu(p), Iron(s), CRP(s), Vit D(s),
TFT(s), :TFT(s), TSH(s), Active B12(s), Coags(c),
FBC(e), ESR(e)

Tests Pending : ds-DNA Ab, ANA(s), CLA(s)
Sample Pending :

Active B12(s) on 18/12/2017

Clinical Notes : MENORRHAGIA

Active B12

Active B12 >128 pmol/L (>35)

Supervising Pathologist: GC, NT

NATA Accreditation No 2178

Tests Completed: CA125(s), HCG Quant(s), B12(s), Fol(s), LFT(s), Cr(s),
UCreat(s), E(s), Glu(p), Iron(s), CRP(s), Vit D(s),
TFT(s), :TFT(s), TSH(s), Active B12(s), Coags(c),
FBC(e), ESR(e)

Tests Pending : ds-DNA Ab, ANA(s), CLA(s)
Sample Pending :

Coags(c) on 18/12/2017

Clinical Notes : MENORRHAGIA

Coagulation Studies

PT	11	s	(9 - 13)
INR	1.0		(0.9 - 1.2)
APTT	28	s	(20 - 32)
Thrombin Time	13	s	(13 - 18)
Fibrinogen	2.0	g/L	(1.5 - 4.2)

Comment on Lab ID 267994416

Coagulation studies are within reference limits.
Please note new reference limits for Prothrombin time, commencing
30.10.2017.

Supervising Pathologist: FH

NATA Accreditation No 2178

Tests Completed: CA125(s), HCG Quant(s), B12(s), Fol(s), LFT(s), Cr(s),
UCreat(s), E(s), Glu(p), Iron(s), CRP(s), Vit D(s),
TFT(s), :TFT(s), TSH(s), Active B12(s), Coags(c),
FBC(e), ESR(e)

Tests Pending : ds-DNA Ab, ANA(s), CLA(s)
Sample Pending :

Hormones on 18/12/2017

Clinical Notes : NO HISTORY

Reproductive Hormones

(Abbott Architect Method)

DHEAS 4.0 umol/L (2.4 - 13)

Comment on Lab ID 267940966

Supervising Pathologist: GC, NT

NATA Accreditation No 2178

Tests Completed: DHEAS(s)

Tests Pending : Zn(s), Cu(s), MTHFR(e), RU-IODINE, SPNR DR

Sample Pending :

Tumour Markers on 18/12/2017

Clinical Notes : MENORRHAGIA

Biomarkers

Cancer Antigen 125 13 U/mL (<36)

Comment on Lab ID 267994416

CA 125 is within reference limits. A normal result does not exclude neoplasia.

Supervising Pathologist: GC, NT

NATA Accreditation No 2178

Tests Completed: CA125(s), HCG Quant(s), B12(s), Fol(s), LFT(s), Cr(s),
UCreat(s), E(s), Glu(p), Iron(s), CRP(s), Vit D(s),
TFT(s), :TFT(s), TSH(s), Active B12(s), Coags(c),
FBC(e), ESR(e)

Tests Pending : ds-DNA Ab, ANA(s), CLA(s)

Sample Pending :

B12/Folate/RCF on 18/12/2017

Clinical Notes : MENORRHAGIA

VIT B12 & FOLATE

Date	15/10/08	01/07/10	18/12/17		
Time	1220	1030	Unkn		
Lab ID	98361140	203905801	267994416	Units	Reference
Vitamin B12			331	pmol/L	(135-650)
Vitamin B12	345	368		pmol/L	(145-637)
S.Fol (Abbott)			29.1	nmol/L	(>7.0)
RBC Fol (Roche)	1455			nmol/L	(776-1784)

Comments on Collection 18/12/17 Unkn:

From 8 March 2014, active B12 (holotranscobalamin) testing will be performed on all patients with low or equivocal (at or below 340 pmol/L) total B12 results. Both tests are eligible for a Medicare rebate under these circumstances.

Supervising Pathologist: GC, NT

NATA Accreditation No 2178

Tests Completed: CA125(s), HCG Quant(s), B12(s), Fol(s), LFT(s), Cr(s),
UCreat(s), E(s), Glu(p), Iron(s), CRP(s), Vit D(s),
TFT(s), :TFT(s), TSH(s), Active B12(s), Coags(c),
FBC(e), ESR(e)

Tests Pending : ds-DNA Ab, ANA(s), CLA(s)

Sample Pending :

Pregnancy on 18/12/2017

Clinical Notes : MENORRHAGIA

HCG / PREGNANCY

Date	01/07/10	27/02/13	16/05/13	18/12/17		
Time	1030	1620	1000	Unkn		
Lab ID	203905801	242268918	277139496	267994416	Units	Reference
BhCG (Abbott)			2269	<5	IU/L	
hCG (Roche)		<5			IU/L	
BhCG (Roche)	330				IU/L	

Comments on Collection 18/12/17 Unkn:

Expected values for normal pregnancy

Gestational age (from LMP)	IU/L	
4 weeks	16	- 160
4-5 weeks	100	- 5000
5-6 weeks	1000	- 30000
6-7 weeks	2500	- 80000
7-8 weeks	23000	- 150000
8-9 weeks	27000	- 230000
9-13 weeks	21000	- 290000
2nd trimester	6000	- 100000
3rd trimester	3000	- 80000

Non Pregnant female - less than 5 IU/L

Please note that pregnancy hCG measurement is performed by the Abbott Architect method at the central Macquarie Park Laboratory and by the Roche method at the branch laboratories.

Please also note that for the purpose of assessing serial changes in pregnancy status, hCG results obtained by different methods may not be directly comparable.

Supervising Pathologist: GC, NT

NATA Accreditation No 2178

Tests Completed: CA125(s), HCG Quant(s), B12(s), FOL(s), LFT(s), Cr(s),
UCreat(s), E(s), Glu(p), Iron(s), CRP(s), Vit D(s),
TFT(s), :TFT(s), TSH(s), Active B12(s), Coags(c),
FBC(e), ESR(e)

Tests Pending : ds-DNA Ab, ANA(s), CLA(s)

Sample Pending :

DNA VIRTUAL on 18/12/2017

Clinical Notes : MENORRHAGIA

DNA

Date	11/03/16	18/12/17		
Time	1025	Unkn		
Lab ID	248232789	267994416		
DNA (RIA)	<5	<5	Units	Reference
			IU/mL	(0-6)

Supervising Pathologist: KB

NATA Accreditation No 2178

Tests Completed: CA125(s), HCG Quant(s), B12(s), Fol(s), LFT(s), Cr(s),
UCreat(s), E(s), Glu(p), Iron(s), CRP(s), Vit D(s),
ds-DNA Ab, TFT(s), :TFT(s), TSH(s), Active B12(s),
Coags(c), FBC(e), ESR(e), ANA(s), CLA(s)

Tests Pending :
Sample Pending :

RU-IODINE on 18/12/2017

Clinical Notes : NO HISTORY

Random Urine Iodine

R-U-Creatinine	14.1	mmol/L
Urine iodine	92	ug/L

Comment on Lab ID 267940966

WHO classification of iodine deficiency: Urine Iodine levels

Not Iodine deficient:	>100 ug/L
Mild Iodine deficiency:	50 - 100 ug/L
Moderate Iodine deficiency:	20 - 49 ug/L
Severe Iodine deficiency:	<20 ug/L

To convert Iodine ug/L to Iodine nmol/L

ug/L x 7.88 = nmol/L

NHMRC recommends supplementation of 150ug/day of Iodine to ensure that all women who are pregnant, breastfeeding or considering pregnancy have adequate iodine status. Women should not take kelp (seaweed) supplements or kelp based products because they may contain varying levels of iodine and may be contaminated with heavy metals such as mercury. Reported by Sullivan and Nicolaides Pathology, a member of the Sonic Healthcare Group.

NATA Accreditation No 2178

Tests Completed: DHEAS(s), RU-IODINE, SPNR DR
Tests Pending : Zn(s), Cu(s)
Sample Pending :

Metals, Blood on 18/12/2017

Clinical Notes : NO HISTORY

Heavy Metals

Serum Copper	18	umol/L	(12 - 22)
Serum Zinc	11	umol/L	(10 - 18)

Supervising Pathologist: GC, NT

NATA Accreditation No 2178

Tests Completed: DHEAS(s), Zn(s), Cu(s), RU-IODINE, SPNR DR
Tests Pending :
Sample Pending :