

HUYNH, KHANH
15 RICHMOND AVENUE, ST IVES. 2075
Phone: 0432592911
Birthdate: 15/12/1972 Sex: F Medicare Number: 3266133332
Your Reference: 00014399 Lab Reference: 279097050-C- Glucose
Laboratory: Douglass Hanly Moir Pathology
Addressee: DR PETER WARD Referred by: DR PETER WARD

Name of Test: Glucose
Requested: 13/07/2018 Collected: 14/07/2018 Reported: 14/07/2018 14:03

GLUCOSE

Date	05/08/14	13/08/14	19/10/15	14/07/18		
Time F-Fast	1417	0920 F	0910	0829 F		
Lab ID	292886558	264815388	245901590	279097050	Units	Reference
F Gluc Plasma		4.5		4.6	mmol/L	(3.6-6.0)
R Gluc Plasma			5.0		mmol/L	(3.6-7.8)
R Gluc Serum	3.9				mmol/L	(3.6-7.8)

Name of Test: Lipids and HDL
Requested: 13/07/2018 Collected: 14/07/2018 Reported: 14/07/2018 14:03

LIPIDS AND HDL

Date	05/08/14	13/08/14	19/10/15	14/07/18		
Time F-Fast	1417	0920 F	0910	0829 F		
Lab ID	292886558	264815388	245901590	279097050	Units	Reference
Status	Unknown	Fasting	Random	Fasting		
Cholesterol	4.7		4.3	4.2	mmol/L	(3.9-5.5)
Triglycerides	1.6		1.1	1.1	mmol/L	(0.6-1.7)
HDL Chol.				1.2	mmol/L	(0.9-2.1)
LDL Chol.				2.5	mmol/L	(1.7-3.5)

all good

Comments on Collection 14/07/18 0829 F:
According to current guidelines (Position Statement 2005),
suggested targets are:
HDL Cholesterol >1.0 mmol/L
LDL Cholesterol <2.0 mmol/L (for patients at high risk)
<2.5 mmol/L (for patients at lower risk)
Triglycerides <1.5 mmol/L

Name of Test: CRP(s)
Requested: 13/07/2018 Collected: 14/07/2018 Reported: 14/07/2018 14:03

Date	12/07/12	02/08/12	10/12/16	14/07/18		
Time F-Fast	0825	1345	1004	0829 F		
Lab ID	233012640	233013431	245773168	279097050	Units	Reference
CRP	4.3	1.2	0.6	0.6	mg/L	(0.0-5.0)

Inflammation - none

IRON

Date	02/08/12	01/12/15	10/12/16	14/07/18		
Time F-Fast	1345	1000	1004	0829 F		
Lab ID	233013431	245584073	245773168	279097050	Units	Reference
Iron	13.6	15.8		14.5	umol/L	(5.0-30.0)
Transferrin	2.6	2.5		2.6	g/L	(2.0-3.6)
TIBC (Calc)	58	56		58	umol/L	(46-77)
Saturation	23	28		25	%	(10-45)
Ferritin	51	44	32	35	ug/L	(15-200)

Comments on Collection 14/07/18 0829 F:

Supervising Pathologist: GC, NT

Iron as well as red mass

Investigations:

HUYNH, KHANH
15 RICHMOND AVENUE, ST IVES. 2075
Phone: 0432592911
Birthdate: 15/12/1972 Sex: F Medicare Number: 3266133332
Your Reference: 00014399 Lab Reference: 279097050-H- HAEM VIRTUAL
Laboratory: Douglass Hanly Moir Pathology
Addressee: DR PETER WARD Referred by: DR PETER WARD

Name of Test: Haematology
Requested: 13/07/2018 Collected: 14/07/2018 Reported: 14/07/2018 13:33

HAEMATOLOGY

Date	05/08/14	19/10/15	10/12/16	14/07/18		
Time F-Fast	1417	0910	1004	0829 F		
Lab ID	292886558	245901590	245773168	279097050	Units	Reference
Haemoglobin	130	131	131	136	g/L	(119-160)
RCC	4.5	4.6	4.6	4.8	x10 ¹² /L	(3.8-5.8)
Haematocrit	0.39	0.40	0.42	0.41		(0.35-0.48)
MCV	87	88	89	87	fL	(80-100)
MCH	28.8	28.7	28.2	28.6	pg	(27.0-32.0)
MCHC	332	327	316	330	g/L	(310-360)
RDW	13.6	13.4	13.9	13.3		(10.0-15.0)
WCC	6.8	5.3	7.1	7.2	x10 ⁹ /L	(4.0-11.0)
Neutrophils	3.98	3.32	4.66	4.86	x10 ⁹ /L	(2.0-7.5)
Lymphocytes	2.38	1.49	1.96	1.84	x10 ⁹ /L	(1.0-4.0)
Monocytes	0.28	0.22	0.30	0.31	x10 ⁹ /L	(0.0-1.0)
Eosinophils	0.10	0.23	0.12	0.12	x10 ⁹ /L	(0.0-0.5)
Basophils	0.02	0.03	0.04	0.03	x10 ⁹ /L	(0.0-0.3)
NRBC		<1.0	<1.0	<1.0	/100 WBC	(<1)
Platelets	209	203	203	208	x10 ⁹ /L	(150-450)
ESR		5	5	3	mm/h	(1-28)

Comments on Collection 14/07/18 0829 F:

BIOCHEMISTRY

Date	13/08/14	19/10/15	10/12/16	14/07/18		
Time F-Fast	0920 F	0910	1004	0829 F		
Lab ID	264815388	245901590	245773168	279097050	Units	Reference
Status	Fasting	Random		Fasting		
Sodium	140		139	141	mmol/L	(135-145)
Potassium		4.0	3.9	3.8	mmol/L	(3.5-5.5)
Chloride		109	106	106	mmol/L	(95-110)
Bicarbonate		25	27	26	mmol/L	(20-32)
Urea		3.9	4.4	3.7	mmol/L	(2.5-7.0)
Creatinine		65	60	65	umol/L	(45-85)
eGFR		>90	>90	>90	mL/min/1.73m ²	(>59)
Urate				0.21	mmol/L	(0.15-0.40)
Calcium			2.19	L 2.12	mmol/L	(2.15-2.55)
Corr Calcium			2.25	2.24	mmol/L	(2.15-2.55)
Phosphate.				1.17	mmol/L	(0.8-1.5)
Bili.Total		7	5	8	umol/L	(3-15)
ALP		39	44	49	U/L	(20-105)
GGT		8	10	8	U/L	(5-35)
LD		187	159	162	U/L	(120-250)
AST		24	21	22	U/L	(10-35)
ALT		20	23	21	U/L	(5-30)
Total Protein		L 64	L 65	L 62	g/L	(68-85)
Albumin		38	40	37	g/L	(37-48)
Globulin		26	25	25	g/L	(23-39)
Cholesterol		4.3		4.2	mmol/L	(3.9-5.5)
Triglycerides		1.1		1.1	mmol/L	(0.5-1.7)

Comments on Collection 14/07/18 0829 F:

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

water studies next time

HUYNH, KHANH
 15 RICHMOND AVENUE, ST IVES. 2075
 Phone: 0432592911
 Birthdate: 15/12/1972 Sex: F Medicare Number: 3266133332
 Your Reference: 00014399 Lab Reference: 279097050-E-Thyroid Function
 Laboratory: Douglass Hanly Moir Pathology
 Addressee: DR PETER WARD Referred by: DR PETER WARD

Name of Test: Thyroid Function
 Requested: 13/07/2018 Collected: 14/07/2018 Reported: 14/07/2018 15:03

TFT

Date	05/08/14	19/10/15	10/12/16	14/07/18		
Time F-Fast	1417	0910	1004	0829 F		
Lab ID	292886558	245901590	245773168	279097050	Units	Reference
TSH..	1.08	0.96	0.93	1.47	mIU/L	(0.40-3.50)
Free T4..				14.4	pmol/L	(9.0-19.0)
Free T3				4.3	pmol/L	(2.6-6.0)

Comments on Collection 14/07/18 0829 F:
 Euthyroid values.

Supervising Pathologist: GC, NT

Haemoglobin A1c

	30	mmol/mol	(20 - 38)
HbA1c (IFCC)	4.9	%	(4.0 - 5.6)

Comment on Lab ID 279097050

Name of Test: Vit D(s)
 Requested: 13/07/2018 Collected: 14/07/2018 Reported: 14/07/2018 18:03

Date	12/07/12	19/10/15	14/07/18		
Time F-Fast	0825	0910	0829 F		
Lab ID	233012640	245901590	279097050	Units	Reference
Vitamin D	61	64	L 49	nmol/L	(50-140)

Comments on Collection 14/07/18 0829 F:
 Consistent with mild Vitamin D deficiency.
 Due to the prolonged half-life of 25-OH Vitamin D, reassessment of Vitamin D status should not be undertaken until at least 3 to 4 months after implementing supplementation or changing the dose of replacement therapy. 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: LFT(s), Lipids(s), Cr(s), UCreat(s), E(s), Glu(p), Phos(s), UA(s), Iron(s), HDL(s), Ca(s), CRP(s), Vit D(s), TFT(s), HbA1c Diag(e), FBC(e), ESR(e)

Tests Pending :
 Sample Pending :

4000 IU per day
 for 3 months

then 1 drop daily

Sub occipital neuralgia
lessen occipital nerve

food.
- Calcium or bedtime
Not with other tabs

✓ Iron - not $\pm$ other tabs
not with breakfast cereal
not with tea

→ best $\pm$ ascorbic acid (^{Vit}_C)

✓ Vitamin D
Drops or tabs

Pancreas + Biliary Dysfunction are secondary to
Hypochloridia.
what Blood type?

Investigations:

MRWA, F2000
102/112 KILLARNEY ST, ST IVEL, 2015
Phone: 0430592511
Birthdate: 15/12/1972 Sex: F Medicare Number: 926613332
Your Reference: Lab Reference: 245773168-C-Biochemistry
Laboratory: Douglas Reidy Health Pathology
Address: DR PETER WARD Referred by: DR HENRY RONG

Name of Test: Biochemistry
Requested: 10/12/2016 Collected: 10/12/2016 Reported: 10/05/2017 13:34

BIOCHEMISTRY

Date	05/08/14	19/10/15	10/12/16	Units	Reference
Time	1417	0910	1004		
Lab ID	292886558	245301590	245773168		
✓ Sodium	141	140	139	mmol/L	(135-145)
✓ Potassium	3.6	4.0	3.9	mmol/L	(3.5-5.5)
✓ Chloride	106	109	106	mmol/L	(95-110)
✓ Bicarbonate	27	25	27	mmol/L	(20-32)
Urea	6.4	3.9	4.4	mmol/L	(2.5-7.0)
Creatinine	70	65	60	umol/L	(45-85)
eGFR	>90	>90	>90	mL/min/1.73m2	(>60)
✓ Calcium	2.17		2.19	mmol/L	(2.15-2.55)
✓ Corr Calcium	2.23		2.25	mmol/L	(2.15-2.55)
✓ Alkaline Phosphatase	3	7	5	U/L	(3-15)
✓ ALT	43	39	44	U/L	(20-105)
✓ AST	12	8	10	U/L	(5-35)
✓ LD	189	187	159	U/L	(120-250)
✓ ALT	20	24	21	U/L	(10-35)
✓ ALT	19	20	23	U/L	(5-30)
✓ Total Protein	68	64	65	g/L	(60-85)
✓ Albumin	40	38	40	g/L	(37-48)
✓ Globulin	28	26	25	g/L	(23-39)

Comments on Collection 10/12/16 1004:

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

Name of Test: Rast
Requested: 10/12/2016 Collected: 10/12/2016 Reported: 10/05/2017 13:34

Allergen Specific IgE (Serum)	kU/L	Class
Cat epithelium	<0.01	0 Negative
Dog dander	0.02	0 Negative
Grass pollen	10.3	III High
Dustmite	0.01	0 Negative
Alternaria alternata	0.02	0 Negative

Comment on Lab ID 245773168

Values between 0.1 and 0.35 kU/L may be found in early, low level or resolving sensitisation. Not all sensitisations may result in clinical symptoms. The greater the sensitisation, the more likelihood of clinical significance. A higher specific IgE index (amount of allergen specific IgE/total IgE) may indicate greater clinical significance.

From November 2012, the Laboratory will only accept Medicare reimbursement for requests of up to four single allergens or two mixes or two single allergens and one mix. Requests for more will be billed at \$25 and then \$5 per single allergen, \$10 per mixed allergen and \$40 per individual allergen component.

Supervising Pathologist: KB

Alkaline

9.9 ✓

decreased level associated w/ 2h deficiency

Prod'n of HCl

digestive inflammation secondary to ↓ HCl

Insufficient digestive enzyme

Pancreas - Alkaline Phosphatase enzyme

out of range w/ 1g - Digestive Insufficiency

NAME: HUYNH, KHANH ST IVEY, 2078
302/132 KILLARNEY ST, 3266132332
Phone: 0438892911 Sex: F
Birthdate: 13/12/1973 Lab Reference: 245773168-1-108
Your Reference: Lab Reference: 245773168-1-108
Laboratory: Douglas Hanly Moir Pathology Referred by: DR HENRY HONG
Address: DR PETER WARD

Name of Test: IgE (s) Requested: 10/12/2016 Collected: 10/12/2016 Reported: 10/05/2017 13:24

Immunoglobulin E - IgE (Phadia ImmunoCAP)

Immunoglobulin E (Total IgE) H 126 IU/mL (<100)

Comment on Lab ID 245773168

Elevated total IgE occurs with multiple inhalant allergies, eczema and sometimes parasitic infestations.

Name of Test: C DIFF PCR Requested: 10/12/2016 Collected: 12/12/2016 Reported: 10/05/2017 13:34

Clostridium difficile toxin PCR

Specimen: C. difficile tcdB gene Faeces: Not Detected

Comment on Lab ID 275370217

Name of Test: FMCS Requested: 10/12/2016 Collected: 12/12/2016 Reported: 10/05/2017 13:34

Faeces Examination

Specimen: 1
Collection date: 12-Dec-2016

Appearance: Unformed - Type v/vi

Microscopy: Concentrate

No ova, cysts or parasites seen.

Faecal Antigens: Cryptosporidium Ag
Giardia Ag

Not Detected
Not Detected

Culture

No Salmonella, Shigella or Campylobacter

Name of Test: FMCS2 Requested: 10/12/2016 Collected: 12/12/2016 Reported: 10/05/2017

Faeces Examination

Specimen: 2
Collection date: 12-Dec-2016

Appearance: Semi formed
Concentrate

No ova, cysts or parasites seen.

Name of Test: HPAg Requested: 10/12/2016 Collected: 12/12/2016 Reported: 10/05/2017

Helicobacter pylori Stool Antigen

pylori Antigen (EIA) Detected

Comment

The H.pylori faecal antigen test has comparable diagnostic sensitivity and specificity to the urea breath test. As a test of cure, at least 4 weeks should elapse between completion of therapy and testing.

Referring Pathologist: IC

HUYNH, KHANH
302/132 KILLEATON ST, ST IVES. 2075
Phone: 0432592911
Birthdate: 15/12/1972 Sex: F Medicare Number: 3266133332
Your Reference: 00007203 Lab Reference: 283348252-C-UBT
Laboratory: Douglass Hanly Moir Pathology
Addressee: DR PETER WARD Referred by: DR PETER WARD
Copy to: KHANH HUYNH

Name of Test: UBT
Requested: 10/05/2017 Collected: 11/05/2017 Reported: 16/05/2017 14:34

Helicobacter Pylori, C14-Urea Breath Test

C14 Activity	H 6709	dpm	<50	Negative
			50 - 200	Equivocal
			>200	Positive

Comment on Lab ID 283348252

Result consistent with the presence of H.pylori in the stomach.

Name of Test: UBT
Requested: 16/10/2017 Collected: 03/11/2017 Reported: 08/11/2017 10:03

Helicobacter Pylori, C14-Urea Breath Test

C14 Activity	5	dpm	<50	Negative
			50 - 200	Equivocal
			>200	Positive

Comment on Lab ID 266266028

Result consistent with absence of H.pylori in the stomach.

The validity of urea breath testing is dependent on the patient fasting at the time of the test and on observance of the recommended drug cessation periods (4 weeks for antibiotics and 1 week for proton pump inhibitors). False-negative results are possible if these drug-withdrawal requirements are not met.

Supervising Pathologist: GC, NT

NATA Accreditation No 2178

Tests Completed: UBT
Tests Pending :
Sample Pending :

Tested
6 mths.
later

✓✓

HUYNH, KHANH ST IVES. 2075
 302/132 KILLEATON ST,
 Phone: 0432592911
 Birthdate: 15/12/1972 Sex: F Medicare Number: 3266133332
 Your Reference: Lab Reference: 245773168-E-Thyroid Function
 Laboratory: Douglass Hanly Moir Pathology
 Addressee: DR PETER WARD Referred by: DR HENRY HONG

Name of Test: Thyroid Function
 Requested: 10/12/2016 Collected: 10/12/2016 Reported: 10/05/2017 13:34

TFT
 Date 12/07/12 05/08/14 19/10/15 10/12/16
 Time 0825 1417 0910 1004
 Lab ID 233012640 292886558 245901590 245773168 Units Reference
 TSH.. 1.67 1.08 0.96 0.93 mIU/L (0.40-3.50)

Name of Test: Haematology
 Requested: 10/12/2016 Collected: 10/12/2016 Reported: 10/05/2017 13:34

HAEMATOLOGY

Date	02/08/12	05/08/14	19/10/15	10/12/16		Reference
Time	1345	1417	0910	1004		
Lab ID	233013431	292886558	245901590	245773168	Units	
Haemoglobin	133	130	131	131	g/L	(119-160)
RCC	4.7	4.5	4.6	4.6	x10 ¹² /L	(3.8-5.8)
Haematocrit	0.41	0.39	0.40	0.42	fL	(0.35-0.48)
MCV	87	87	88	89	fL	(80-100)
MCH	28.2	28.8	28.7	28.2	pg	(27.0-32.0)
MCHC	325	332	327	316	g/L	(310-360)
RDW	H 15.2	13.6	13.4	13.9		(10.0-15.0)
WCC	6.8	6.8	5.3	7.1	x10 ⁹ /L	(4.0-11.0)
Neutrophils	3.61	3.98	3.32	4.66	x10 ⁹ /L	(2.0-7.5)
Lymphocytes	2.47	2.38	1.49	1.96	x10 ⁹ /L	(1.0-4.0)
Monocytes	0.47	0.28	0.22	0.30	x10 ⁹ /L	(0.0-1.0)
Eosinophils	0.19	0.10	0.23	0.12	x10 ⁹ /L	(0.0-0.5)
Basophils	0.03	0.02	0.03	0.04	x10 ⁹ /L	(0.0-0.3)
NRBC			<1.0	<1.0	/100 WBC	(<1)
Platelets	242	209	203	203	x10 ⁹ /L	(150-450)
ESR	11		5	5	mm/h	(1-27)

elevated
 w/ infection,
 allergy or
 asthma

Coeliac Serology

Deamidated Gliadin IgA	1	U/mL	(<15)
Deamidated Gliadin IgG	<1	U/mL	(<15)
Tissue Transglutaminase IgA	<1	U/mL	(<15)
Tissue Transglutaminase IgG	<1	U/mL	(<15)

Comment on Lab ID 245773168

From 03/06/2013, all requests for coeliac serology will be analysed by a multiplex assay which simultaneously detects deamidated gliadin IgA and IgG as well as tissue transglutaminase IgA and IgG antibodies. All four results are reported regardless of request and if selective IgA deficiency is detected (<0.07 g/L) which would render IgA-based serology non-informative this is also reported.

In a person eating wheat, the presence of one positive antibody may occur without coeliac disease while multiple positive antibodies strongly predict coeliac disease which should be confirmed by biopsy. For monitoring coeliac disease, IgA antibodies may become negative after 6-9 months of gluten restriction while IgG antibodies may take 9-12 months; persistent positive serology suggests non-compliance. Risk of coeliac disease may be effectively excluded if HLA-DQ2 or HLA-DQ8 are not detected in persons with discordant serology or positive family history. Endomysial IgA antibodies can be performed on request but we believe they have limited clinical utility with our new deamidated gliadin and TTG assays.

Supervising Pathologist: KB

NUYNN, KHANH ST IVES. 2075
302/132 KILLEATON ST,
Phone: 0432592911
Birthdate: 15/12/1972 Sex: F Medicare Number: 3266133332
Your Reference: Lab Reference: 245773168-S-HELP
Laboratory: Douglass Hanly Moir Pathology
Addressee: DR PETER WARD Referred by: DR HENRY HONG

Name of Test: Helico Ab(s)
Requested: 10/12/2016 Collected: 10/12/2016 Reported: 10/05/2017 13:34

Helicobacter pylori Serology

H.pylori IgG (EIA) H 7.4 U/mL
Reference Range
(<0.9 U/mL Negative)
(0.9-1.1 U/mL Equivocal)
(>1.1 U/mL Positive)

Name of Test: Iron Studies
Requested: 10/12/2016 Collected: 10/12/2016 Reported: 10/05/2017 13:34

IRON

2017
Date 02/08/12 01/12/15 10/12/16
Time 1345 1000 1004
Lab ID 233013431 245584073 245773168
Units Reference
Iron 13.6 15.8 umol/L (5.0-30.0)
Transferrin 2.6 2.5 g/L (2.0-3.6)
TIBC (Calc) 58 56 umol/L (46-77)
Saturation 23 28 % (10-45)
Ferritin 51 44 32 ug/L (15-200)

Name of Test: Amylase(s)
Requested: 10/12/2016 Collected: 10/12/2016 Reported: 10/05/2017 13:34

Routine Chemistry

Amylase 93 U/L (25 - 120)

Name of Test: Lipase(s)
Requested: 10/12/2016 Collected: 10/12/2016 Reported: 10/05/2017 13:34

Lipase

Lipase 25 U/L (8 - 80)

Name of Test: CRP(s)
Requested: 10/12/2016 Collected: 10/12/2016 Reported: 10/05/2017 13:34

Date 12/07/12 02/08/12 10/12/16
Time 0825 1345 1004
Lab ID 233012640 233013431 245773168
CRP 4.3 1.2 0.6
Units Reference
mg/L (0.0-5.0)

Comments on Collection 10/12/16 1004:

Supervising Pathologist: GC, NT

NATA Accreditation No 2178

Tests Completed: LFT(s), Cr(s), UCreat(s), E(s), Ca(s), Ferr(s), Amylase(s),
Lipase(s), CRP(s), TSH(s), FBC(e), ESR(e), Gliadin/TTG(s),
IgE(s), D1, E1R, E5, G4, M6, Helico Ab(s)

Tests Pending :
Sample Pending :