

**Patient: ANNA**

**Patient ID:**  
**Encounter ID:**  
**DOB:** 1/26/1952 **Age:** 60 years **Sex:** F  
**Pt. Phone:** (503)977-2660  
**Ordering:** POPIEL, BRIAN JAMES  
**Copy To:**

**PROVIDENCE HEALTH & SERVICES**  
 Oregon Region Laboratories

For all correspondence use laboratory contact information noted below.

Oregon Regional Laboratory CLIA # 38D2032720 (503) 215-6660	Providence St. Vincent CLIA # 38D0624944 (503) 215-6660	Providence Portland CLIA # 38D0624031 (503) 215-6660	Providence Milwaukie CLIA # 38D0624625 (503) 215-6660	Providence Newberg CLIA # 38D0662978 (503) 537-1787
Providence Seaside CLIA # 38D0622986 (503) 717-7250	Providence Hood River CLIA # 38D0622025 (541) 387-6332	Providence Medford CLIA # 38D0627783 (541) 732-5063	Providence Willamette Falls CLIA # 38D0064519 (503) 215-6660	

**BLOOD COUNT**

Collected Date 12/26/12  
 Collected Time 07:45:00

Analyte		Ref Range	Units
WBC	5.9	[3.5-11.0]	10 <sup>9</sup> /L
RBC	4.56	[3.80-5.20]	10 <sup>12</sup> /L
HGB	14.2	[11.7-15.7]	g/dL
HCT	41.6	[34.9-46.9]	%
MCV	91.2	[80.0-100.0]	fL
MCH	31.1	[26.4-34.0]	pg
MCHC	34.2	[31.4-35.8]	g/dL
RDW	12.9	[11.5-14.5]	%
PLT	223	[140-444]	10 <sup>9</sup> /L
MPV	9.4	[6.5-11.6]	fL
Neutrophils	65.3	[40.0-81.0]	%
Lymphocytes	22.4	[20.0-53.0]	%
Monocytes	9.0	[1.0-10.0]	%
Eosinophils	2.7	[0.0-6.0]	%
Basophils	0.6	[0.0-2.0]	%
Neutrophils Abs	3.9	[1.8-8.0]	10 <sup>9</sup> /L
Lymphocytes Abs	1.3	[1.0-4.8]	10 <sup>9</sup> /L
Monocytes Abs	0.5	[0.0-0.8]	10 <sup>9</sup> /L
Eosinophils Abs	0.2	[0.0-0.5]	10 <sup>9</sup> /L
Basophils Abs	0.0	[0.0-0.2]	10 <sup>9</sup> /L

All tests performed at Providence Oregon Regional Laboratory, 4400 NE Halsey St, Building 3, Portland OR 97213 unless otherwise specified.

Legend: L=Low H=High P=Critical C=Corrected f=Footnote  
 @=Abnormal \*= Interpretive Comment ^=Corrected micro susceptibility

POPIEL, BRIAN JAMES  
 9316 E RAINTREE DR #140  
 SCOTTSDALE AZ 85260

MRN: 20000776036  
 Acct #: 50080530844  
 Printed: 1/16/2013 8:41 PM  
 Chart ID: 51528212

Pt Type: Outpt  
 Admit Date: 12/26/2012  
 Page 1 of 9  
 N/A

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**PROVIDENCE HEALTH & SERVICES**  
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**CMP**

Collected Date 12/26/12  
Collected Time 07:45:00

Analyte		Ref Range	Units
Sodium	140	[135-144]	mmol/L
Potassium	4.1	[3.7-5.5]	mmol/L
Chloride	105	[99-110]	mmol/L
Carbon Dioxide	27	[20-31]	mmol/L
Anion Gap	8	[4-13]	
Glucose	87	[60-99]	mg/dL
BUN	18	[6-23]	mg/dL
Creatinine	0.77	[0.60-1.30]	mg/dL
Calcium	9.7	[8.3-10.4]	mg/dL
Alkaline Phos	98	[32-110]	IU/L
Bilirubin Total	0.6	[0.2-1.2]	mg/dL
AST (SGOT)	21	[11-39]	IU/L
ALT (SGPT)	27	[6-42]	IU/L
Total Protein	7.3	[6.1-8.0]	g/dL
Albumin	4.4	[3.2-4.9]	g/dL
Fasting Status	Over 12 hours		
eGFR, African American *	>60	[>=60]	mL/min/1.73 m2
eGFR, Non-African American	>60	[>=60]	mL/min/1.73 m2

12/26/2012 07:45:00 eGFR, African American:

Over 18 years:

Creatinine values and the eGFRs are IDMS standardized. For renal dosing of medications in elderly and/or under-weight patients, use calculated Creatinine Clearance instead of eGFR. To adjust for any other unknown variables, see NKDEP website at [www.nkdep.nih.gov](http://www.nkdep.nih.gov)

Under 18 years:

eGFRs are not calculated for children <18 yrs old. To adjust for unknown variables, see NKDEP website at [www.nkdep.nih.gov](http://www.nkdep.nih.gov)

**GENERAL CHEMISTRY**

Collected Date 12/26/12  
Collected Time 07:45:00

Analyte		Ref Range	Units
GGT	22	[8-41]	IU/L
CRP, High Sensitivity *	5.9 H	[<=1.0]	mg/L

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**GENERAL CHEMISTRY**

12/26/2012 07:45:00 CRP, High Sensitivity:  
Low risk < 1.0 mg/L  
Average risk 1.0 - 3.0 mg/L  
High risk > 3.0 mg/L

**SPECIAL CHEMISTRY**

Collected Date 12/26/12  
Collected Time 07:45:00

Analyte		Ref Range	Units
DHEA-S	74	[35-430]	ug/dL
Ferritin	175	[10-291]	ng/mL
Homocysteine	11.9 H	[3.3-10.4]	umol/L
Homocysteine Fasting Status	Over 12 hours		
IGF-1	150	[81-225]	ng/mL
Insulin Fasting	11	[6-27]	uIU/mL
Iron	109	[40-150]	ug/dL
TIBC	326	[246-436]	ug/dL
Transferrin Sat	33	[13-50]	%
Osmolality	292	[280-300]	mOsm/kg
Vitamin B12	1239 H	[211-911]	pg/mL
Folate	>24.0	[>=5.4]	ng/mL
Estradiol *	<19		pg/mL
Progesterone *	22.8		ng/mL
Thyroxine (T4)	7.8	[4.5-10.9]	ug/dL
TSH	0.01 L	[0.30-4.70]	uIU/mL
FT3	5.4 H	[2.3-4.2]	pg/mL
Vit D 25OH *	73.6	[30.0-100.0]	ng/mL

12/26/2012 07:45:00 Estradiol:  
MALE: 0-40 pg/mL

FEMALE:  
Follicular 20-144 pg/mL  
Midcycle 64-357 pg/mL  
Luteal 56-214 pg/mL  
Postmenopausal(Untreated) 0-32 pg/mL

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**SPECIAL CHEMISTRY**

12/26/2012 07:45:00 Progesterone:  
Female:  
Follicular 0.2 - 1.4 ng/mL  
Luteal 3.3 - 28.0 ng/mL  
Post Menopausal <2.3 ng/mL

Male 0.3 - 1.2 ng/mL

12/26/2012 07:45:00 Vit D 25OH:  
Adult Nutritional Status:

Vitamin D Status	25 OH Vitamin D Value
Deficiency	< 10 ng/mL
Insufficiency	10 - 30 ng/mL
Sufficiency	30 - 100 ng/mL
Toxicity	> 100 ng/mL

12/26/2012 07:45:00 Osmolality:  
Performed by Providence Portland Laboratory, 4805 NE Glisan St, Portland OR 97213

**IMMUNOLOGY**

Collected Date 12/26/12  
Collected Time 07:45:00

Analyte	Ref Range	Units
Thyroglobulin Ab	<20 [0-40]	IU/mL
Thyroid Peroxidase Antibody	205 H [0-35]	IU/mL

**REFERENCE TESTING**

Collected Date 12/26/12  
Collected Time 07:45:00

Analyte	Ref Range	Units
ARUP Misc Test 1	SEE NOTE f	
ARUP Misc Test 2	SEE NOTE f	
ARUP Misc Test 3	SEE NOTE f	
Dihydrotestosterone, ARUP	204.0 f [24.0-208.0]	pg/mL
Testosterone, Female/Child, Total, ARUP	135 Hf [5-32]	ng/dL
Sex Hormone Binding Globulin, ARUP	56 f [30-135]	nmol/L
Testosterone, Free LC-MS/MS, ARUP	16.7 Hf [0.6-3.8]	pg/mL
T3 Reverse, ARUP	179 f [90-350]	pg/mL
Magnesium, RBC (ARUP)	2.6 f [1.5-3.1]	mmol/L
Test	SELENIUM	

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**REFERENCE TESTING**

Collected Date 12/26/12  
 Collected Time 07:45:00

Analyte	Ref Range	Units
Test	RBC ZN	
Result	View in EPIC	
Result	View in EPIC	
Performing Lab	Athena Diagnostics	
Performing Lab	ARUP	

12/26/2012 07:45:00 ARUP Misc Test 1:  
 Test Name = NMR LipoProfile Test  
 Specimen Type = Red top serum  
 Test # = 2002043

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**REFERENCE TESTING**

12/26/12 07:45:00 ARUP Misc Test 1:

Test name	Result	Units	RefIntvl
LDL Particle Number by NMR	2011 H	nmol/L	<1000
Reference Ranges (Percentiles)(F2)			
Low (<20th percentile)	< 1000		
Moderate (20th to 49th percentile)	1000 - 1299		
Borderline High (50th to 79th percentile)	1300 - 1599		
High (80th to 94th percentile)	1600 - 2000		
Very High (>95th percentile)	> 2000		
Small LDL Particle Number	691 H	nmol/L	<= 527
Reference Ranges(F3)			
Low	< 117		
Moderate	117 - 526		
Borderline	527 - 839		
High	>839		
Total Cholesterol	201 H	mg/dL	<200
LDL Particle Size	21.5	nm	> 20.5
Large HDL Particle Number	2.7 L	umol/L	>= 4.8
Large VLDL Particle Number	1.4	nmol/L	<= 2.7
Triglycerides	89	mg/dL	<150
HDL Cholesterol	61	mg/dL	>=40
LDL Cholesterol	122 H	mg/dL	<100
Reference Range			
Optimal	< 100		
Near Optimal	100 - 129		
Borderline High	130 - 159		
High	160 - 189		
Very High	>= 190		
HDL Size	8.6 L	nm	>= 9.2
VLDL Size	43.8	nm	<= 46.6
HDL Particle Number	42.6	umol/L	>= 30.5
LP Insulin Resistance Score	49 H		<= 45

(F1)Reference intervals shown are the 50th percentile of the LipoScience reference population comprising 4,588 men and women without known CVD or diabetes and not on lipid medication.

(F2) Reference population comprises 5,362 men and women not on lipid medication enrolled in the Multi-Ethnic Study of Atherosclerosis (MESA). Mora et al. Atherosclerosis 2007.

(F3) Small LDL-P and LDL Size are associated with CVD risk, but not after LDL-P is taken into account."

Small LDL-P, LDL Particle Size, Large HDL-P, Large VLDL-P, VLDL Size, HDL Size, HDL Particle, and LPIR score have been validated by LipoScience but not cleared by US FDA; the clinical utility of these test results has not been fully established

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**REFERENCE TESTING**

Performed at: Liposcience 2500 Sumner Blvd.  
Raleigh, NC 27616  
12/26/2012 07:45:00 ARUP Misc Test 2:  
Test Name = Corticosteroid Binding Globulin (CBG)  
Specimen Type = Red top serum  
Test # = 0098513  
12/26/12 07:45:00 ARUP Misc Test 2:  
Test name Result Units RefIntvl  
-----  
Cortisol Binding Globulin 22 mg/L  
Reference Range:  
19-45

Performed at: Quest Diagnostics  
33608 Ortega Hwy, San Juan Capistrano, CA 92675  
12/26/2012 07:45:00 ARUP Misc Test 3:  
Test Name = Cortisol, Free  
Specimen Type = Serum  
Test # = 0098391  
12/26/12 07:45:00 ARUP Misc Test 3:  
Test name Result Units RefIntvl  
-----  
Cortisol, Free 0.76 ug/dL  
INTERPRETIVE INFORMATION: Cortisol, Free

8-10 a.m. collection: 0.31-1.19 ug/dL  
4-6 p.m. collection: 0.15-0.94 ug/dL

This test was developed and its performance characteristics determined by ARUP Laboratories. The U.S. Food and Drug Administration has not approved or cleared this test; however, FDA clearance or approval is not currently required for clinical use. The results are not intended to be used as the sole means for clinical diagnosis or patient management decisions.

Performed by ARUP Laboratories,  
500 Chipeta Way, SLC, UT 84108 800-522-2787  
www.aruplab.com, Sherrie L. Perkins, MD - Lab. Director  
12/26/12 07:45:00 Dihydrotestosterone, ARUP:  
REFERENCE INTERVAL: Dihydrotestosterone, LC-MS/MS

Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).  
Performed by ARUP Laboratories,  
500 Chipeta Way, SLC, UT 84108 800-522-2787  
www.aruplab.com, Sherrie L. Perkins, MD - Lab. Director

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**REFERENCE TESTING**

12/26/12 07:45:00 Testosterone, Female/Child, Total, ARUP:

Total Testosterone, Females 18 years and older  
Premenopausal 9-55 ng/dL  
Postmenopausal 5-32 ng/dL  
REFERENCE INTERVAL: Testosterone, LC-MS/MS

Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).

12/26/12 07:45:00 Sex Hormone Binding Globulin, ARUP:  
REFERENCE INTERVAL: Sex Hormone Binding Globulin

Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).  
12/26/12 07:45:00 Testosterone, Free LC-MS/MS, ARUP:

To convert to pmol/L, multiply pg/mL by 3.47

The concentration of Free Testosterone is derived from a mathematical expression based on the constant for the binding of testosterone to sex hormone binding globulin.  
REFERENCE INTERVAL: Testosterone, Free LC-MS/MS

Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).  
Performed by ARUP Laboratories,  
500 Chipeta Way, SLC, UT 84108 800-522-2787  
www.aruplab.com, Sherrie L. Perkins, MD - Lab. Director

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Providence Medford  
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(541) 732-5063

Providence Willamette Falls  
CLIA # 38D0064519  
(503) 215-6660

**REFERENCE TESTING**

12/26/12 07:45:00 T3 Reverse, ARUP:  
INTERPRETIVE DATA: Triiodothyronine, Reverse

This test was developed and its performance characteristics determined by ARUP Laboratories. The U.S. Food and Drug Administration has not approved or cleared this test; however, FDA clearance or approval is not currently required for clinical use. The results are not intended to be used as the sole means for clinical diagnosis or patient management decisions.

Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).  
Performed by ARUP Laboratories,  
500 Chipeta Way, SLC, UT 84108 800-522-2787  
www.aruplab.com, Sherrie L. Perkins, MD - Lab. Director  
12/26/12 07:45:00 Magnesium, RBC (ARUP):  
INTERPRETIVE INFORMATION: Magnesium, RBCs

RBC magnesium results reflect the intracellular stores and general homeostasis of magnesium. Results may be falsely low if RBCs in the submitted specimen are lysed or not promptly separated from the plasma.  
Performed by ARUP Laboratories,  
500 Chipeta Way, SLC, UT 84108 800-522-2787  
www.aruplab.com, Sherrie L. Perkins, MD - Lab. Director

All tests performed at Providence Oregon Regional Laboratory, 4400 NE Halsey St, Building 3, Portland OR 97213 unless otherwise specified.

Legend: L=Low H=High P=Critical C=Corrected f=Footnote  
@=Abnormal \*= Interpretive Comment ^=Corrected micro susceptibility

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MRN: 20000776036  
Acct #: 50080530844  
Printed: 1/16/2013 8:41 PM  
Chart ID: 51528212

Pt Type: Outpt  
Admit Date: 12/26/2012  
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N/A