

**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 # 38D064519 (503) 215-6660	

Patient: **FRANK**  
Patient ID: 2820918  
Encounter ID:  
DOB: 2/13/1944 Age: 68 years Sex: M  
Pt. Phone: (503)977-2660  
Ordering: POPIEL, BRIAN JAMES  
Copy To:

**BLOOD COUNT**

Collected Date 12/26/12  
Collected Time 07:52:00

Analyte		Ref Range	Units
WBC	7.6	[3.9-10.6]	10 <sup>9</sup> /L
RBC	5.28	[4.40-5.90]	10 <sup>12</sup> /L
HGB	17.4	[13.5-17.7]	g/dL
HCT	50.3	[40.0-53.0]	%
MCV	95.2	[80.0-100.0]	fL
MCH	33.0	[26.3-33.8]	pg
MCHC	34.7	[31.5-36.3]	g/dL
RDW	13.6	[11.5-14.5]	%
PLT	229	[140-444]	10 <sup>9</sup> /L
MPV	8.4	[6.8-10.8]	fL
Neutrophils	63.8	[40.0-81.0]	%
Lymphocytes	22.3	[20.0-53.0]	%
Monocytes	9.8	[1.0-10.0]	%
Eosinophils	3.7	[0.0-6.0]	%
Basophils	0.4	[0.0-2.0]	%
Neutrophils Abs	4.8	[1.8-8.0]	10 <sup>9</sup> /L
Lymphocytes Abs	1.7	[1.0-4.8]	10 <sup>9</sup> /L
Monocytes Abs	0.7	[0.0-0.8]	10 <sup>9</sup> /L
Eosinophils Abs	0.3	[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: 20000266392  
Acct #: 50080530880  
Printed: 1/16/2013 8:58 PM  
Chart ID: 51528241

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

Patient: **FRANK**  
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**CMP**

Collected Date 12/26/12  
 Collected Time 07:52:00

Analyte		Ref Range	Units
Sodium	136	[135-144]	mmol/L
Potassium	4.1	[3.7-5.5]	mmol/L
Chloride	104	[99-110]	mmol/L
Carbon Dioxide	23	[20-31]	mmol/L
Anion Gap	9	[4-13]	
Glucose	83	[60-99]	mg/dL
BUN	22	[6-23]	mg/dL
Creatinine	<b>1.37 H</b>	[0.60-1.30]	mg/dL
Calcium	9.0	[8.3-10.4]	mg/dL
Alkaline Phos	59	[32-110]	IU/L
Bilirubin Total	0.8	[0.2-1.2]	mg/dL
AST (SGOT)	19	[11-39]	IU/L
ALT (SGPT)	20	[6-42]	IU/L
Total Protein	6.4	[6.1-8.0]	g/dL
Albumin	4.2	[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	<b>52 L</b>	[>=60]	mL/min/1.73 m2

12/26/2012 07:52:00 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 07:52:00

Analyte		Ref Range	Units
GGT	20	[8-74]	IU/L
CRP, High Sensitivity *	<b>2.4 H</b>	[<=1.0]	mg/L

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**GENERAL CHEMISTRY**

12/26/2012 07:52:00 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 07:52:00

Analyte		Ref Range	Units
DHEA-S	59 L	[80-560]	ug/dL
Ferritin	113	[22-322]	ng/mL
HB A1c, % *	5.1	[4.0-6.0]	%
Homocysteine	14.5 H	[4.3-11.4]	umol/L
Homocysteine Fasting Status	Over 12 hours		
IGF-1	212 H	[69-200]	ng/mL
Iron	99	[50-160]	ug/dL
TIBC	325	[246-436]	ug/dL
Transferrin Sat	30	[13-50]	%
Osmolality	288	[280-300]	mOsm/kg
Vitamin B12	1140 H	[211-911]	pg/mL
Folate	14.7	[>=5.4]	ng/mL
PSA	0.83	[0.00-4.00]	ng/mL
PSA Free	0.34		ng/mL
PSA % Free	41.0	[25.0-100.0]	%
Thyroxine (T4)	6.9	[4.5-10.9]	ug/dL
TSH	0.02 L	[0.30-4.70]	uIU/mL
FT3	5.3 H	[2.3-4.2]	pg/mL
Vit D 25OH *	93.1	[30.0-100.0]	ng/mL

12/26/2012 07:52:00 HB A1c, %:  
 The American Diabetes Association's recommendation notes that appropriate action may be indicated if the value is >8.0 %. (The HbA1c analysis will be proportionally lower if Hb F is present.)

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 Printed: 1/16/2013 8:58 PM  
 Chart ID: 51528241

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

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**SPECIAL CHEMISTRY**

12/26/2012 07:52:00 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 07:52:00 Osmolality:  
 Performed by Providence Portland Laboratory, 4805 NE Glisan St, Portland OR 97213

**IMMUNOLOGY**

Collected Date 12/26/12  
 Collected Time 07:52:00

Analyte	Ref Range	Units
Thyroglobulin Ab	<20 [0-40]	IU/mL
Thyroid Peroxidase Antibody	<10 [0-35]	IU/mL

**REFERENCE TESTING**

Collected Date 12/26/12  
 Collected Time 07:52:00

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	1420.0 Hf [106.0-719.0]	pg/mL
Estradiol Serum, ARUP	50.4 f	pg/mL
Testosterone, Total, ARUP	929 Hf [300-720]	ng/dL
Testosterone, Free, ARUP	160 f [47-244]	pg/mL
Sex Hormone Binding Globulin, ARUP	47 f [11-80]	nmol/L
Testosterone, % Free, ARUP	1.7 f [1.6-2.9]	%
T3 Reverse, ARUP	238 f [90-350]	pg/mL
Pregnenolone, ARUP	33 f [23-173]	ng/dL
Magnesium, RBC (ARUP)	2.6 f [1.5-3.1]	mmol/L
Test	RBC ZINC	
Test	FREE CORTISOL	
Referred To	ARUP	
Result	View in EPIC	
Result	View in EPIC	
Performing Lab	ARUP	

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 Chart ID: 51528241

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

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- Oregon Regional Laboratory  
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- Providence St. Vincent  
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(503) 215-6660
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CLIA # 38D0627783  
(541) 732-5063
- Providence Willamette Falls  
CLIA # 38D064519  
(503) 215-6660

**REFERENCE TESTING**

Collected Date 12/26/12  
Collected Time 07:52:00

Analyte  
Performing Lab National Medical Services (NMS) Ref Range Units

12/26/2012 07:52:00 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 07:52:00 ARUP Misc Test 1:

Test name	Result	Units	RefIntvl
LDL Particle Number by NMR	1334 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	487	nmol/L	<= 527
Reference Ranges(F3)			
Low	<	117	
Moderate		117 - 526	
Borderline		527 - 839	
High		>839	
Total Cholesterol	192	mg/dL	<200
LDL Particle Size	21.5	nm	> 20.5
Large HDL Particle Number	3.6 L	umol/L	>= 4.8
Large VLDL Particle Number	0.8	nmol/L	<= 2.7
Triglycerides	68	mg/dL	<150
HDL Cholesterol	50	mg/dL	>=40
LDL Cholesterol	128 H	mg/dL	<100
Reference Range			
Optimal	<	100	
Near Optimal		100 - 129	
Borderline High		130 - 159	
High		160 - 189	
Very High		>= 190	
HDL Size	8.7 L	nm	>= 9.2
VLDL Size	39.8	nm	<= 46.6
HDL Particle Number	32.6	umol/L	>= 30.5
LP Insulin Resistance Score	35		<= 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 07:52:00 ARUP Misc Test 2:  
Test Name = Corticosteroid Binding Globulin (CBG)  
Specimen Type = Red top serum  
Test # = 0098513  
12/26/12 07:52:00 ARUP Misc Test 2:  
Test name Result Units RefIntvl

Cortisol Binding Globulin	10 L	mg/L
Reference Range:		
19-45		

Performed at: Quest Diagnostics  
33608 Ortega Hwy, San Juan Capistrano, CA 92675  
12/26/2012 07:52:00 ARUP Misc Test 3:  
Test Name = Candida albicans Antibodies IgA, IgG, and IgM by ELISA  
Specimen Type = Serum  
Test # = 0095200  
12/26/12 07:52:00 ARUP Misc Test 3:  
Test name Result Units RefIntvl

Candida Antibody IgA	0.40	EV	<=0.99
Candida Antibody IgG	1.08 H	EV	<=0.99
Candida Antibody IgM	0.95	EV	<=0.99

INTERPRETIVE INFORMATION: Candida Ab, IgA, IgG, IgM

- 0.89 EV or less.....Negative - No Significant level of detectable Candida albicans antibody.
- 0.90-0.99 EV.....Equivocal - Questionable presence of antibodies. Repeat testing in 10-14 days may be helpful.
- 1.00 EV or greater.....Positive - Antibody to Candida albicans detected, which may indicate a current or past infection.

The best evidence for current infection is a significant change on two appropriately timed specimens where both tests are done in the same laboratory at the same time. However, low levels of IgM antibodies may occasionally persist for more than 12 months post-infection.  
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 Willamette Falls  
CLIA # 38D0064519  
(503) 215-6660

**REFERENCE TESTING**

12/26/12 07:52:00 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  
12/26/12 07:52:00 Estradiol Serum, ARUP:

Reference interval of estradiol in serum in adults.

Males: Estradiol  
Men 18 yrs and older 10-42  
REFERENCE INTERVAL: Estradiol by TMS

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 07:52:00 Testosterone, Total, ARUP:  
REFERENCE INTERVAL: Testosterone, Adult Male

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 07:52:00 Testosterone, Free, ARUP:  
INTERPRETIVE INFORMATION: Testosterone, Free

Tanner Stage IV 35 - 169 pg/mL  
Tanner Stage V 41 - 239 pg/mL

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 (SHBG).

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

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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	

**REFERENCE TESTING**

12/26/12 07:52:00 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 07:52:00 Testosterone, % Free, ARUP:  
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 07:52:00 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 07:52:00 Pregnenolone, ARUP:  
REFERENCE INTERVAL: Pregnenolone

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 07:52:00 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

MRN: 20000266392  
Acct #: 50080530880  
Printed: 1/16/2013 8:58 PM  
Chart ID: 51528241

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

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