

Patient: **COOK, FRANKLIN CHARLES**
 Patient ID: 2820918
 Encounter ID:
 DOB: 2/13/1944 Age: 71 years Sex: M
 Pt. Phone: 5039772660
 Admitting: 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

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

Providence Marion County Lab
 CLIA # 38D2063812
 (503) 215-6660

BLOOD COUNT

Collected Date 11/30/15
 Collected Time 08:10:00

Analyte		Ref Range	Units
WBC	7.4	[3.9-10.6]	10 ⁹ /L
RBC	5.62	[4.40-5.90]	10 ¹² /L
HGB	18.2 H	[13.5-17.7]	g/dL
HCT	54.1 H	[40.0-53.0]	%
MCV	96.2	[80.0-100.0]	fL
MCH	32.4	[26.3-33.8]	pg
MCHC	33.6	[31.5-36.3]	g/dL
RDW	12.9	[11.5-14.5]	%
PLT	221	[140-444]	10 ⁹ /L
MPV	8.2	[6.8-10.8]	fL
Neutrophils	66.6	[40.0-81.0]	%
Lymphocytes	21.5	[20.0-53.0]	%
Monocytes	8.1	[1.0-10.0]	%
Eosinophils	3.4	[0.0-6.0]	%
Basophils	0.4	[0.0-2.0]	%
Neutrophils Abs	4.9	[1.8-8.0]	10 ⁹ /L
Lymphocytes Abs	1.6	[1.0-4.8]	10 ⁹ /L
Monocytes Abs	0.6	[0.0-0.8]	10 ⁹ /L
Eosinophils Abs	0.2	[0.0-0.5]	10 ⁹ /L
Basophils Abs	0.0	[0.0-0.2]	10 ⁹ /L

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

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MRN: 20000266392
 Acct #: 50158444330
 Printed: 12/21/2015 9:06 AM
 Chart ID: 62508495

Pt Type: Outpt
 Admit Date: 11/30/2015
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 N/A

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CMP

Collected Date 11/30/15
 Collected Time 08:10:00

Analyte		Ref Range	Units
Sodium	139	[135-144]	mmol/L
Potassium	4.1	[3.7-5.5]	mmol/L
Chloride	102	[99-110]	mmol/L
Carbon Dioxide	28	[20-31]	mmol/L
Anion Gap	9	[4-13]	
Glucose	92	[60-99]	mg/dL
BUN	24 H	[6-23]	mg/dL
Creatinine	1.55 H	[0.60-1.30]	mg/dL
Calcium	9.6	[8.3-10.4]	mg/dL
Alkaline Phos	50	[32-110]	IU/L
Bilirubin Total	1.0	[0.2-1.2]	mg/dL
AST (SGOT)	21	[11-39]	IU/L
ALT (SGPT)	21	[6-42]	IU/L
Total Protein	6.6	[6.1-8.0]	g/dL
Albumin	4.4	[3.2-4.9]	g/dL
Fasting Status	Over 12 hours		
eGFR, African American *	54 L	[>=60]	mL/min/1.73 m2
eGFR, Non-African American	44 L	[>=60]	mL/min/1.73 m2

11/30/2015 08:10:00 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

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

LIPID

Collected Date 11/30/15
 Collected Time 08:10:00

Analyte		Ref Range	Units
Fasting Status	Over 12 hours		
Cholesterol	237 H	[<=199]	mg/dL
Triglycerides	122	[<=149]	mg/dL
HDL Cholesterol	50	[40-59]	mg/dL

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LIPID

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Analyte	Ref Range	Units
Chol HDL Ratio	4.7	
LDL calc *	163 H	[<=99] mg/dL

11/30/2015 08:10:00 LDL calc:

National Cholesterol Education Panel Classifications:

Cholesterol (mg/dL):

Moderate Risk: 200-239; High Risk: >=240

HDL Cholesterol (mg/dL):

Low: <40; High: >=60

Triglyceride (mg/dL; fasting):

Borderline High: 150-199; High: 200-499; Very High: >=500

LDL Cholesterol (mg/dL):

Near or above optimal: 100-129; Borderline High: 130-159;

High: 160-189; Very High: >=190

11/30/2015 08:10:00 LIPID:
fasting over 12 hrs

GENERAL CHEMISTRY

Collected Date 11/30/15
Collected Time 08:10:00

Analyte	Ref Range	Units
CRP, High Sensitivity *	1.1 H	[<=1.0] mg/L

11/30/2015 08:10:00 CRP, High Sensitivity:

Low risk < 1.0 mg/L

Average risk 1.0 - 3.0 mg/L

High risk > 3.0 mg/L

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SPECIAL CHEMISTRY

Collected Date 11/30/15
 Collected Time 08:10:00

Analyte		Ref Range	Units
DHEA-S	104	[80-560]	ug/dL
Ferritin	68	[22-322]	ng/mL
HB A1c, %	5.7	[4.0-6.0]	%
Iron *	141	[50-160]	ug/dL
TIBC	362	[246-436]	ug/dL
Transferrin Sat	39	[13-50]	%
Osmolality	298	[280-300]	mOsm/kg
Vitamin B12	1358 H	[211-911]	pg/mL
Folate	>24.0	[>=5.4]	ng/mL
Estradiol *	56	[0-357]	pg/mL
Testosterone, Total *	699	[302-729]	ng/dL
Testosterone, Free *	122	[47-244]	pg/mL
Testosterone, % Free	1.7	[1.6-2.9]	%
Sex Hormone Binding Globulin	48	[13-110]	nmol/L
Thyroxine (T4)	6.1	[4.5-10.9]	ug/dL
TSH *	2.73	[0.33-4.70]	uIU/mL
FT3	3.8	[2.3-4.2]	pg/mL
Vit D 25OH *	97.5	[30.0-100.0]	ng/mL

11/30/2015 08:10:00 Iron:

Diurnal variation may be observed: normal values in the morning, lower values mid-afternoon, and very low values near midnight.

11/30/2015 08:10:00 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

11/30/2015 08:10:00 Testosterone, Total:

Recommend ordering Testosterone Total and Free Female or Child (LAB13298) due to increased sensitivity in female and children.

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SPECIAL CHEMISTRY

11/30/2015 08:10:00 Testosterone, Free:

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.

11/30/2015 08:10:00 TSH:

Evidence suggests that patients undergoing fluorescein dye angiography can retain small amounts of fluorescein in the body for up to 48 to 72 hours post-treatment. In the cases of patients with renal insufficiency, retention could be much longer. Samples containing fluorescein can produce falsely depressed values when tested with the ADVIA Centaur TSH3 Ultra assay, and should not be tested. With fluorescein interference, observed TSH3 Ultra values can be as low as <0.01 uIU/mL. Samples should be resubmitted post fluorescein clearance to ensure there is no interference with TSH3 test results.

11/30/2015 08:10:00 Vit D 25OH:

Adult Nutritional Status:

Vitamin D Status	25 OH Vitamin D Value
Deficiency	< 20 ng/mL
Insufficiency	20 - 29 ng/mL
Sufficiency	30 - 80 ng/mL
Toxicity	> 150 ng/mL

Evidence suggests that patients undergoing fluorescein dye angiography can retain small amounts of fluorescein in the body for up to 48 to 72 hours post-treatment. In the cases of patients with renal insufficiency, retention could be much longer. Samples containing fluorescein can produce falsely elevated values when tested with the ADVIA Centaur Vitamin D assay, and should not be tested. With fluorescein interference, observed Vitamin D values can be as high as >150 ng/mL. Samples should be resubmitted post fluorescein clearance to ensure there is no interference with Vitamin D results.

11/30/2015 08:10:00 Osmolality:

Performed by Providence Portland Laboratory, 4805 NE Glisan St, Portland OR 97213

IMMUNOLOGY

Collected Date 11/30/15
Collected Time 08:10:00

Analyte		Ref Range	Units
Thyroglobulin Ab	<0.9	[<=4.0]	IU/mL
Thyroid Peroxidase Antibody	1.1	[0.3-9.0]	IU/mL

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REFERENCE TESTING

Collected Date	11/30/15	11/30/15
Collected Time	09:15:00	08:10:00

Analyte		Ref Range	Units
ARUP Misc Test 1	SEE NOTE f	SEE NOTE f	
ARUP Misc Test 2	SEE NOTE f		
Candida Antibody IgA, ARUP	0.73 f	[<=0.89]	EV
Candida Antibody IgG, ARUP	1.47 Hf	[<=0.89]	EV
Candida Antibody IgM, ARUP	0.23 f	[<=0.89]	EV
Dihydrotestosterone, ARUP	1410.0 Hf	[106.0-719.0]	pg/mL
T3 Reverse, ARUP	14.9 f	[9.0-27.0]	ng/dL
Pregnenolone, ARUP	77 f	[23-173]	ng/dL
Magnesium, RBC (ARUP)	2.6 f	[1.5-3.1]	mmol/L

11/30/2015 09:15:00 ARUP Misc Test 2:

Test Name = Corticosteroid-Binding Globulin (CBG)

Test # = 2010990

Specimen Type = Red Top Serum

Fluid Source (If applicable) =

11/30/15 09:15:00 ARUP Misc Test 2:

Test name	Result	Flag	Units	RefIntvl
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Corticosteroid-Binding Globulin (CBG)	1.8	mg/dL
---------------------------------------	-----	-------

Reference Range:

Adults: 1.7 - 3.1

Performed at: LabCorp, Burlington, 1447 York Court, Burlington, NC 27215

11/30/2015 08:10:00 ARUP Misc Test 1:

Test Name = Zinc, RBC

Test # = 2006460

Specimen Type = RB EDTA RBC

Fluid Source (If applicable) =

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REFERENCE TESTING

11/30/15 08:10:00 ARUP Misc Test 1:
 Test name Result Flag Units RefIntvl

Zinc, RBC 1300 mcg/dL
 RBCs
 Reporting Limit: 44 mcg/dL

NMS Labs derived data for 2.5th - 97.5th percentile range is 794 - 1470 mcg/dL (n=2940).
 The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) to obtain mcg/dL units.

Analysis by Inductively Coupled Plasma/Optical Emission Spectrometry (ICP/OES)

Disclaimer: Specimens for elemental testing should be collected in certified metal-free containers. Elevated results for elemental testing may be caused by environmental contamination at the time of specimen collection and should be interpreted accordingly. It is recommended that unexpected elevated results be verified by testing another specimen.

Performed at: National Medical Services, 3701 Welsh Road, Willow Grove, PA 19090

11/30/15 08:10:00 Candida Antibody IgA, ARUP:

INTERPRETIVE INFORMATION: Candida Ab, IgA

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.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement D: aruplab.com/CS

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REFERENCE TESTING

11/30/15 08:10:00 Candida Antribody IgG, ARUP:

INTERPRETIVE INFORMATION: Candida Ab, IgG

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.

Test developed and characteristics determined by ARUP
Laboratories. See Compliance Statement D: aruplab.com/CS

11/30/15 08:10:00 Candida Antibody IgM, ARUP:

INTERPRETIVE INFORMATION: Candida Ab, 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.

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Performed by ARUP Laboratories,
500 Chipeta Way, SLC, UT 84108 800-522-2787

www.aruplab.com, Jerry W. Hussong, MD - Lab. Director

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 DOB: 2/13/1944 Age: 71 years Sex: M
 Pt. Phone: 5039772660
 Admitting: 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
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(503) 215-6660

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

Providence Marion County Lab
CLIA # 38D2063812
(503) 215-6660

REFERENCE TESTING

11/30/15 08:10:00 Dihydrotestosterone, ARUP:
 INTERPRETIVE INFORMATION: 5- α -Dihydrotestosterone by Tandem Mass Spectrometry, Serum
 Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS
 Performed by ARUP Laboratories,
 500 Chipeta Way, SLC, UT 84108 800-522-2787
 www.aruplab.com, Jerry W. Hussong, MD - Lab. Director
 11/30/15 08:10:00 T3 Reverse, ARUP:
 INTERPRETIVE INFORMATION: Triiodothyronine, Reverse - LC-MS/MS
 Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS
 Performed by ARUP Laboratories,
 500 Chipeta Way, SLC, UT 84108 800-522-2787
 www.aruplab.com, Jerry W. Hussong, MD - Lab. Director
 11/30/15 08:10:00 Pregnenolone, ARUP:
 REFERENCE INTERVAL: Pregnenolone by MS/MS, Serum
 Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).
 Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS
 Performed by ARUP Laboratories,
 500 Chipeta Way, SLC, UT 84108 800-522-2787
 www.aruplab.com, Jerry W. Hussong, MD - Lab. Director
 11/30/15 08:10:00 Magnesium, RBC (ARUP):
 INTERPRETIVE INFORMATION: MG RBC
 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.
 Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS
 Performed by ARUP Laboratories,
 500 Chipeta Way, SLC, UT 84108 800-522-2787
 www.aruplab.com, Jerry W. Hussong, 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 #: 50158444330
 Printed: 12/21/2015 9:06 AM
 Chart ID: 62508495

Pt Type: Outpt
 Admit Date: 11/30/2015
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 N/A

POPIEL, BRIAN JAMES
 Providence Health Systems
 Providence Health System
 Portland OR 97213