

### EPIC Beaker Dearborn, Taylor, Trenton, and Wayne Testing Changes

Effective Date: April 11<sup>th</sup>, 2021

#### CYTOLOGY

Pap- HPV test request changes (changes in name only, same functionality):

SunQuest/CoPath:

Beaker:

- |                          |   |                          |
|--------------------------|---|--------------------------|
| 1. HPV regardless of dx  | = | 1. HPV cotesting         |
| 2. HPV if ASCUS          | = | 2. HPV if ASCUS/ASCH/AGC |
| 3. HPV if ASCUS or above | = | 3. HPV if abnormal       |
| 4. HPV only              | = | 4. HPV only              |

Pap electronic ordering changes:

1. HPV is not automatically ordered by choosing HPV cotesting in the AAOE. HPV detection test itself must still be ordered (LAB 6847).
2. Chlamydia/Gonorrhea must be ordered separately. Chlamydia/Gonorrhea is removed from AAOEs on pap test to simplify process.
3. Cervix, endocervix added as source selection in electronic orders.
4. Separate source detail AAOE has been eliminated, enter details (Left cervix, Right cervix, etc.) in the clinical information free text field
5. One combined field for Last Menstrual Period/Menstrual status. One choice is mandatory, multiple choices can be selected.

Nongyn Cytology orders:

Two separate EPIC orders for Fine Needle Aspirations and Nongynecologic Specimens

Cytology, Medical (FNA) [LAB7907]  
Cytology, Medical (Non-Gyn) [LAB6797]

GYN Cytology (Pap) orders:

Two separate EPIC orders for Paps- ThinPrep and Conventional (Smears)

Cytology, Pap Test (ThinPrep) [LAB6674]  
Cytology, Pap Test (Conventional) [LAB6752]

### MOLECULAR PATHOLOGY

Molecular testing previously performed or sent out at Dearborn that will now be performed at Royal Oak:

<b>Molecular Pathology Beaker Test Codes</b>	
<b>LAB #</b>	<b>TEST</b>
LAB6373	ANGIOTENSIN CONVERTING ENZYME (ACE)
LAB6378	BCR/ABL GENE REARRANGEMENT**
LAB7136	BCR/ABL 1, MAJOR (p210), QUANTITATION**
LAB6385	JAK2 QUALITATIVE DETECTION
LAB6911	JAK2 EXON 12 DETECTION
LAB6387	NUCLEOPHOSMIN 1 GENE MUTATION (NPM1)
LAB7815	CHRONIC LYMPHOCYTIC LEUKEMIA (CLL) IGHV MUTATIONAL STATUS
LAB6878	CALR MUTATION DETECTION
LAB6383	FACTOR V GENOTYPING ANALYSIS
LAB6389	PROTHROMBIN GENOTYPING FOR THROMBOTIC RISK ASSESSMENT
LAB6386	HYPERHOMOCYSTEINEMIA (MTHFR)
LAB6375	APOLIPOPROTEIN E (APOE)
LAB6384	HEREDITARY HEMOCHROMATOSIS (HH)
LAB6393	MPL GENE MUTATION
LAB7107	MYD88 SOMATIC MUTATION
LAB7148	CYSTIC FIBROSIS CARRIER TESTING (CF)
LAB6364	HPV GENOTYPING, (SAMPLE TYPES OTHER THAN CERVICAL THINPREP®)
LAB5128	B-CELL GENE REARRANGEMENT
LAB5128	T-CELL GENE REARRANGEMENT
	<b>Infectious Disease Tests</b>
LAB6404	RESP VIRUS PANEL
LAB7108	ATYPICAL BACTERIAL PANEL
LAB7216	MYCOPLASMA PNEUMONIAE
LAB7215	CHLAMYDOPHILA PNEUMONIAE/CHLAMYDIA PNEUMONIAE
LAB7217	LEGIONELLA PNEUMOPHILA
LAB6401	HERPES SIMPLEX VIRUS TYPES 1 AND 2 (BY PCR)
LAB7086	HSV NEONATAL SURFACE
LAB6408	VARICELLA ZOSTER VIRUS (BY PCR)

Two separate EPIC orders will be required for HCV viral load and genotyping

- HCV RNA Quantitation by PCR (LAB6403)
- Hepatitis C Virus Genotype (LAB6530)

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\*\* NOTE:

BCR/ABL Gene Rearrangement (aka BCR/ABL Qualitative) is intended for the diagnosis of suspected CML and ALL patients. This test detects and differentiates the Major (p210) b3a2, b3a3, b2a2 as well as Minor (p190) e1a2 breakpoints.

BCR/ABL 1, Major (p210), Quantitation is used for monitoring therapeutic response to tyrosine kinase inhibitors in patients with known to be positive for the b2a2 or b3a2 major (p210) breakpoints. This test is intended for use ONLY on peripheral blood from patients with a previously diagnosed t(9:22) translocation.

### CYTOGENETICS

Effective April 11<sup>th</sup>, all cytogenetic testing will be routed to the Royal Oak Cytogenetics Laboratory.

Please contact the Cytogenetics laboratory group on the Mobile Heartbeat at extension 947-522-9886 for assistance with specimen pickup at Dearborn.

For additional questions, please refer to the Laboratory Test Directory or contact the Royal Oak Cytogenetics Laboratory at (248) 898-9030 for assistance.

Please refer to the following changes and order information for routine cytogenetic testing/chromosome analysis performed on inpatient specimens:

TEST NAME	Sunquest Order Code	EPIC/ Beaker Code (new)
CHROMOSOME ANALYSIS, AMNIOTIC FLUID  <b>REFLEX:</b> AFP, AMNIOTIC FLUID AND ACETYLCHOL, AMNIOTIC FLUID	CHROAF, ADDKAR, KARYOF  <b>REFLEX:</b> AFPAMN ACEAMN	LAB5483  LAB5798 *RO Special Chemistry LAB7581 (SENDOUT)
CHROMOSOME ANALYSIS, CHORIONIC VILLUS SAMPLING (CVS)	CHROCV, ADDKAR, KARYCV	LAB5752
CHROMOSOME ANALYSIS, PRODUCTS OF CONCEPTION (POC)	CHROST, KARPOC	LAB6461
CHROMOSOME ANALYSIS, SKIN/SOLID TISSUE	CHROST, KARYSK	LAB6462

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TEST NAME	Sunquest Order Code	EPIC/ Beaker Code (new)
CHROMOSOME ANALYSIS, PERIPHERAL BLOOD	CHROPB, ADDHIR, KARYPB	LAB5919
CHROMOSOME ANALYSIS, STAT NEWBORN PERIPHERAL BLOOD	CHROPB, ADDHIR, KARYPB	LAB6458
CHROMOSOME ANALYSIS, PUBS PERIPHERAL BLOOD	CHROPB, ADDHIR, KARYPB	LAB6459

TEST NAME	Sunquest Order Code	EPIC/ Beaker Code (new)
CHROMOSOME ANALYSIS, BONE MARROW	CHRNEO, KARYBM	LAB6460
CHROMOSOME ANALYSIS, ONCOLOGIC PERIPHERAL BLOOD	CHRNEO, KARYBM	LAB6177
CHROMOSOME ANALYSIS, SOLID TUMOR	CHRTUM, KARTUM	LAB6463
CHROMOSOME ANALYSIS, LYMPH NODE	N/A	LAB5018

Please refer to the following changes and order information for fluorescence in situ hybridization (FISH) testing and panels on inpatient specimens:

TEST NAME	Sunquest Order Code	EPIC/Beaker Code (new)
BCR/ABL1 WITH UNSTIMULATED BLOOD	CHRNEO, KARYBM, BMBCR	LAB6177 AND LAB7023
BCR/ABL1 WITH BONE MARROW	CHRNEO, KARYBM, BMBCR	LAB6460 AND LAB7023
BCR/ABL1 FISH	BMBPCR, KARYBM	LAB7023
FISH MYELOMA PANEL	FISHMP OR CHRNEO, KARYBM, FISHIP, DNAPRO, DNAPR2, FIS100, FIS102,	LAB5125
FISH CLL PANEL	FISHCP	LAB6671
FISH MDS PANEL	CHRNEO, KARYBM, FISHIP, DNAPRO, DNAPR2, FIS100, FIS102	LAB6672

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TEST NAME	Sunquest Order Code	EPIC/Beaker Code (new)
FISH ALL PANEL	FISHIP, DNAPRO, DNAPR2, FIS100, FIS102	LAB5203
FISH AML PANEL	FISHIP, DNAPRO, DNAPR2, FIS100, FIS102	LAB5137, PLEASE NOTE LIMITED OR EXTENDED PANEL
FISH PARAFFIN STUDY	FISHIP	LAB6707, PLEASE NOTE PROBE
AGGRESSIVE B-CELL FISH PANEL (DOUBLE/TRIPLE HIT LYMPHOMA)	DNAPRO, FIS100, FISHIP, DNAPR2, FIS102	LAB7113
NHL FISH PANEL		LAB7096

TEST NAME	Sunquest Order Code	EPIC/Beaker Code (new)
T-CELL LEUKEMIA/LYMPHOMA PANEL		LAB7769
EOSINOPHILIA FISH PANEL		LAB7768
FISH TOUCH PREPARATION SLIDES		LAB6708, PLEASE NOTE PROBE
PRENATAL FISH, AMNIOTIC FLUID (ANEUVISION)	N/A	LAB6466
PRENATAL FISH, CVS (ANEUVISION)	N/A	LAB6467
ANEUPLOIDY FISH PANEL-PRODUCTS OF CONCEPTION	FISHIP	LAB6700
FISH; PERIPHERAL BLOOD ADD (SINGLE PROBE)	FISHMI	LAB6701
FISH; BONE MARROW ADD (SINGLE PROBE)	FIS100, FISHIP, DNAPRO	LAB6702

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Please refer to the following list of molecular tests that were previously sent out from Dearborn. These tests will now be performed at the Royal Oak Cytogenetics laboratory. If not performed in house they will be routed to the Royal Oak send outs department and sent to the appropriate reference laboratory:

TEST NAME	Sunquest Order Code	EPIC/Beaker Code (new)
SNP ARRAY; CONSTITUTIONAL (PERIPHERAL BLOOD)	SENDOUT	LAB6768
SNP ARRAY; PRENATAL	SENDOUT	LAB6770
SNP ARRAY; ONCOLOGY	SENDOUT	LAB6769
Y CHROMOSOME MICRODELETION	SENDOUT	LAB6808
PRADER-WILLI/ANGELMAN METHYLATION STUDIES	SENDOUT	LAB7157
FRAGILE X TESTING BY DNA ANALYSIS	SENDOUT	LAB6495, SENDOUT TEST
CYSTIC FIBROSIS 1390VARIANT ASSAY	SENDOUT	LAB7148
SPINAL MUSCULAR ATROPHY (SMA)	SENDOUT	LAB6433 MISC CODE, (SPECIFY TEST), SENDOUT TEST

For specimens originating at an outpatient site, client office, or Taylor, Trenton and Wayne, please utilize the following Outreach codes for ordering of Cytogenetic testing:

TEST NAME	EPIC/Beaker Outreach Code
CHROMOSOME ANALYSIS, AMNIOTIC FLUID OUTREACH	LAB7822
CHROMOSOME ANALYSIS, CHORIONIC VILLUS SAMPLE OUTREACH (CVS)	LAB7838
CHROMOSOME ANALYSIS, PRODUCTS OF CONCEPTION OUTREACH (POC)	LAB7833
CHROMOSOME ANALYSIS, SKIN/SOLID TISSUE OUTREACH	LAB7834
CHROMOSOME ANALYSIS, PERIPHERAL BLOOD OUTREACH	LAB7865
CHROMOSOME ANALYSIS, STAT NEWBORN PERIPHERAL BLOOD OUTREACH	LAB7830
CHROMOSOME ANALYSIS, PUBS PERIPHERAL BLOOD OUTREACH	LAB7831

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TEST NAME	EPIC/Beaker Outreach Code
CHROMOSOME ANALYSIS, BONE MARROW OUTREACH	LAB7832
CHROMOSOME ANALYSIS, ONCOLOGIC PERIPHERAL BLOOD OUTREACH	LAB7824
CHROMOSOME ANALYSIS, SOLID TUMOR OUTREACH	LAB7835
CHROMOSOME ANALYSIS, LYMPH NODE OUTREACH	LAB7818
BCR/ABL1 FISH OUTREACH	LAB7826
FISH MYELOMA PANEL OUTREACH	LAB7819
FISH CLL PANEL OUTREACH	LAB7840
FISH MDS PANEL OUTREACH	LAB7841
FISH ALL PANEL OUTREACH	LAB7821
FISH AML PANEL OUTREACH	LAB7820 SPECIFY LIMITED OR EXTENDED STUDY
FISH PARAFFIN STUDY OUTREACH	LAB7845
AGGRESSIVE B-CELL FISH PANEL (DOUBLE/TRIPLE HIT LYMPHOMA) OUTREACH	LAB7851

TEST NAME	EPIC/Beaker Outreach Code
NHL FISH PANEL OUTREACH	LAB7852
T-CELL LEUKEMIA/LYMPHOMA PANEL OUTREACH	LAB7825
EOSINOPHILIA FISH PANEL OUTREACH	LAB7854
FISH TOUCH PREPARATION SLIDES OUTREACH	LAB7846
PRENATAL FISH, AMNIOTIC FLUID (ANEUVISION) OUTREACH	LAB7837
PRENATAL FISH, CVS (ANEUVISION) OUTREACH	LAB7838
ANEUPLOIDY FISH PANEL- PRODUCTS OF CONCEPTION OUTREACH	LAB7842
FISH; PERIPHERAL BLOOD ADD (SINGLE PROBE) OUTREACH	LAB7843
FISH; BONE MARROW ADD (SINGLE PROBE) OUTREACH	LAB7844

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TEST NAME	EPIC/Beaker Outreach Code
SNP ARRAY; CONSTITUTIONAL BLOOD OUTREACH	LAB7847
SNP ARRAY; PRENATAL OUTREACH	LAB7849
Y CHROMOSOME MICRODELETION MOLECULAR ANALYSIS OUTREACH	LAB7850
PRADER-WILLI/ANGELMAN METHYLATION OUTREACH	LAB7853

### FLOW CYTOMETRY

1. CD4 Absolute Count (LAB6409) and Lymphocyte Subset Quantitation (LAB6416) will be sent to Royal Oak. The specimen needs to be received in the Flow Cytometry Laboratory within 24 hours and a CBC with differential needs to be ordered with both of these tests. The turnaround time on these tests should be improved.
2. Instead of the Flow Cytometry for Hematolymphoid Neoplasm(FHEMG) test being part of the AP report, it will be a comprehensive stand-alone report.
3. Paroxysmal Nocturnal Hemoglobinurea Screen test(PNH) (LAB6417) will be sent to the Royal Oak Flow Cytometry Laboratory.

### MICROBIOLOGY

#### Test Code Crosswalk

Old Test Name	SUNQUEST Test Code	SQ Lab#	Beaker Equivalent	Epic LAB#
COVID-19 by NAA, Limited Use	COVLX	LAB03881	COVID-19 by NAA, Limited Use	LAB7980
COVID-19, Flu, RSV by NAA	CLFRNA	LAB08435	COVID-19, Flu, RSV by NAA	LAB8435
Culture, AFB w/AFB St,Othr (incl Sputum)	AFBC	LAB877	Culture, AFB	LAB5475
Culture, AFB, Blood	AFBBC	LAB246	Culture, AFB Blood	LAB6771
Culture, Blood	BC	LAB462	Culture, Blood	LAB5477
NEW TEST	N/A	N/A	Culture, Bone Marrow	LAB5478
Culture, CSF w/Gram Stain	CSF	LAB268	Culture, CSF	LAB5482
Culture, Ear	EARC	LAB942	Culture, Ear	LAB5484
Culture, Eye	EYEC	LAB943	Culture, Eye	LAB5485
Culture, Fluid (Aer,Anaer,Gram Stain)	FLDC	LAB269	Culture, Fluid	LAB5486
Culture, Fungus	FUNC	LAB240	Culture, Fungus	LAB5487
Culture, Fungus, Blood	FUNBC	LAB242	Culture, Fungus, Blood	LAB5488
Culture, Fungus (Hair, Nail, Skin)	FUNSKC	LAB01294	Culture, Fungus, Hair, Skin, Nail	LAB5489
Culture, Genital	GENC	LAB03120	Culture, Genital	LAB5491
Culture, GC (Screen)	GCS	LAB235	Culture, Gonorrhea	LAB5490
NEW TEST	N/A	N/A	Culture, Intrauterine Device (IUD)	LAB7230
Culture, Legionella Screen	LEGS	LAB902	Culture, Legionella	LAB5495
Culture, MDRO Surveillance	MDROSC	LAB03610	Culture, MDR - CRE Screen	LAB7569
Culture, MDRO Surveillance	MDROSC	LAB03610	Culture, MDR ESBL Screen	LAB7570
Culture, Catheter Tip	CTIPC	LAB03117	Culture, Medical Device or Cath Tip	LAB5479
NEW TEST	N/A	N/A	Culture, Nasopharynx	LAB7176
NEW TEST	N/A	N/A	Culture, Organism Identification	LAB5533
NEW TEST	N/A	N/A	Culture, Organism Identification with Susceptibility	LAB5534
Culture, Sonication	SONC	LAB3697	Culture, Orthopedic Sonication	LAB3697
Culture, Prostate Biopsy Screen	PBSC	LAB03624	Culture, Pre-Prostate Screen	LAB7226
NEW TEST	N/A	N/A	Culture, Quantitative Bacterial, Tissue	LAB5499
Culture, Respiratory w/Gram Stain	RESC	LAB900	Culture, Respiratory, Lower, Routine	LAB5500
Culture, Mini BAL, Quant w/ Gram Stain	MINBAL	LAB03132	Culture, Respiratory, Mini-BAL	LAB7220
Culture, Respiratory Quant w/Gram Stain	RESQNT	LAB03116	Culture, Respiratory, Quantitative Bronchial	LAB7221
NEW TEST	N/A	N/A	Culture, Sinus Contents	LAB7178
Culture, Staph Screen	STAPHS	LAB3130	Culture, Staph aureus	LAB5501
Culture, Environmental	ENVIRC	LAB03596	Culture, Sterility	LAB6677
Culture, Stool (w/ Shiga-like Toxin,EIA)	STL	LAB223	Culture, Stool	LAB5503
Culture, Surgical (Aer,Anaer,Gram Stain)	SURC	LAB03127	Culture, Surgical	LAB03127
NEW TEST	N/A	N/A	Culture, Throat/Pharynx	LAB7177
NEW TEST	N/A	N/A	Culture, Tissue	LAB5504
Culture, Urine (Colony Count)	UC	LAB239	Culture, Urine	LAB5507
NEW TEST	N/A	N/A	Culture, Vancomycin Resistant Enterococci (VRE)	LAB0912
Culture, Vibrio (Screen)	VIBS	LAB03119	Culture, Vibrio, Stool	LAB7219
Culture, Wound (Aer,Anaer,Gram Stain)	WDANC	LAB03121	Culture, Wound Deep (AER/ANA)	LAB5510

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Old Test Name	SUNQUEST Test Code	SQ Lab#	Beaker Equivalent	Epic LAB#
Culture, Wound (Aerobic, Gram Stain)	WDAC	LAB503	Culture, Wound Superficial (AER)	LAB5511
Culture, Yersinia (Screen)	YERS	LAB01288	Culture, Yersinia, Stool	LAB7872
Gardnerella Vaginalis Direct Probe	GVAGP	LAB914	Gardnerella vaginalis, DNA Probe	LAB914
NEW TEST	N/A	N/A	Group A Strep by NAA	LAB6907
NEW TEST	N/A	N/A	Group A Strep by NAA w/ susceptibility	LAB6908
Group B Strep Screen	SSB	LAB03853	Group B Strep Screen	LAB5182
H. pylori Breath Test	BTEK (DB test code), BHBTEK (RO test code)	LAB03597	H. pylori Breath Test	LAB7044
NEW TEST	N/A	N/A	H. pylori Urease, Gastric Biopsy	LAB5515
Parasite Identification	IDPARA	LAB247	Identification, Insect/Larvae/Worm	LAB5516
Influenza A/B and RSV, NAA	N/A--New Test	LAB03838	Influenza A/B and RSV, NAA	LAB7166
Influenza A/B, NAA	FLUPO	LAB03839	Influenza A/B, NAA	LAB7165
Str Grp B, Amp Probe w/Cult Reflex(Rapid)	GRP B AMP PRB W REF CULT	LAB3135	Intrapartum Group B Strep Screen	LAB3135
Culture, MDRO Surveillance	MDROSC	LAB03610	MDR Screen, Non CRE ESBL	LAB5496
Meningitis/Encephalitis (M/E) Panel by Nucleic Acid Amplification	MEPNG	LAB03834	Meningitis/Encephalitis Panel, NAA	LAB7060
NEW TEST	N/A	N/A	Minimum Bactericidal Concentration	LAB5518
NEW TEST	N/A	N/A	Miscellaneous Microbiology Test	LAB7180 (INTERNAL)
GC Amplified DNA Probe	GCAP	LAB262	Neisseria Gonorrhoeae Detection by Nucleic Acid Amplification	LAB6533
Ova and Parasite	OP	LAB955	Ova and Parasites	LAB5519
Pinworm prep	PINWRM	LAB248	Pinworm Exam	LAB5520
Respiratory Syncytial Virus (RSV), NAA	RSVPO	LAB03840	Respiratory Syncytial Virus (RSV), NAA	LAB7164
SARS-CoV-2 NAA, Repeat	YCOV22	LAB03875	SARS-CoV-2 NAA, Repeat	LAB7954
SARS-CoV-2 NAA, Routine	YCOV2R	LAB03866	SARS-CoV-2 NAA, Routine	LAB7913
Malaria Prep (Screen)	N/A	LAB883	Smear, Blood Parasites	LAB5522
NEW TEST	N/A	N/A	Stain, Cyclospora	LAB5524
NEW TEST	N/A	N/A	Stain, Fecal Leukocytes	LAB5514
KOH Fungus Prep (Hair, Nail, Skin)	KOH	LAB251	Stain, Fungus	LAB5525
Gram Stain	GRAMST	LAB250	Stain, Gram	LAB5526
NEW TEST	N/A	N/A	Stain, Isospora	LAB5527
NEW TEST	N/A	N/A	Stain, Microsporidium	LAB5528
NEW TEST	N/A	N/A	Stain, Pneumocystis	LAB5530
Staph aureus Nasal Screen by Amp Probe	SANAS - S. aureus Nasal Screen	LAB3666	Staphylococcus aureus/MRSA by PCR, Nares	LAB7222
Trichomonas Direct Probe	TRICHP	LAB03141	Trichomonas vaginalis, DNA Probe (Affirm)	LAB7225
Trichomonas vaginalis, NAA	ITVG	LAB03848	Trichomonas vaginalis, NAA	LAB7076
Urinary Catheter Urinalysis with Reflex to Culture	CATHUA	LAB03757	Urinary Catheter Urinalysis with Reflex to Culture	LAB7083
Trichomonas Prep	TRICH	LAB252	Vaginosis Prep (Wet Prep) Exam	LAB5523
Vaginitis Panel (Affirm), DNA Dir Probes	AFFIRM	LAB03137	Vaginosis Screen (AFFIRM Test)	LAB5532

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### Microbiology Test changes

1. Culture, GC
  - Gram stain now available on the following sources
    - Eye
    - Penis
    - Synovial
    - Urethra
2. Culture, Genital
  - Change reporting of Normal Flora to Commensal Flora
  - Any Group B will be reported for all Female sources
  - Any Group A will be reported for all Female and Male Sources
3. Culture, Respiratory w/Gram stain will be broken down to source-specific tests
  - Culture, Nasopharynx (LAB7176)
  - Culture, Respiratory, Lower, Routine (LAB5500)
  - Culture, Sinus Contents (LAB7176)
  - Culture, Throat/Pharynx (LAB7177)
4. Culture, Urine
  - Identification and AST will be reported for up to 2 common uropathogens
  - Quantities of organisms will be reported in ranges
    - <10,000 CFU/ml non-invasive or <1000 CFU/ml invasive
    - 10,000-100,000 CFU/ml non-invasive or 1,000-10,000 CFU/ml
    - >100,000 CFU/ml non-invasive or >10,000 CFU/ml invasive
  - Change reporting of Normal Flora to Commensal Flora
  - Commensal flora will be reported as Commensal Flora (one type), Mixed Commensal Flora (more than one type) or Mixed Organisms present (both commensal and mixed uropathogens present. This is usually considered to be contamination during collection or colonization.
5. Group A Streptococcus Changes
  - Throat strep screen will be changing to Culture, Throat/Pharynx (LAB7177)
  - A new molecular test will be available for Group A Streptococcus called Group A Strep by Nucleic Acid Amplification. This test can be ordered with or without susceptibility testing. In general, susceptibility testing should be reserved for patients who are allergic to penicillin.
  - All negative Strep Screen, Group A (LAB5472) results will reflex to Group A Strep by Nucleic Acid Amplification (LAB6907) for patients less than 16 years of age
6. Culture, Wound Deep
  - Swab specimens submitted for Culture, Wound, Deep will have minimal workup for anaerobes.
    - Anaerobes will be listed as present or absent.
    - “Mixed anaerobes present” will be used when multiple isolates are recovered on the anaerobic portion of the culture.

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- Cultures with no growth of aerobic or anaerobic organisms will be reported as “No growth (aerobic/anaerobic)”.
  - Cultures with mixed aerobic and anaerobic growth that is not considered significant will have a comment change to “Multiple aerobic and anaerobic organisms present”.
7. New Orderable Tests
- Culture, Bone Marrow – LAB5478
  - Culture, Intrauterine Device (IUD) – LAB7230
  - Culture, Organism Identification – LAB5533
    - Isolate Identification ONLY
  - Culture, Organism Identification with Susceptibility – LAB5534
    - Isolate Identification/AST ONLY
  - Culture, Quantitative Bacterial, Tissue – LAB5499
  - Culture, Tissue – LAB5504
  - Culture, Vancomycin Resistant Enterococci (VRE) – LAB0912
  - Group A Strep by NAA – LAB6907
  - Group A Strep by NAA w/Susceptibility – LAB6908
  - Minimum Bactericidal Concentration – LAB5518
  - Stain, Cyclospora – LAB5514
  - Stain, Fecal Leukocytes – LAB5514
  - Stain, Isospora – LAB5527
  - Stain, Microsporidium – LAB5528
  - Stain, Pneumocystis – LAB5530

### CHEMISTRY

<b>Red Alerts</b> are called within 1 hour; 24 hours/7 days a week.
<b>Blue Alerts</b> will be called between 7 a.m. and 7 p.m.

CHEMISTRY	Standardized for BL		Unit of measure	Inpatient (RED Alerts)	Outpatient/ Outreach (RED Alerts)	Outpatient/ Outreach (BLUE Alerts)
	CRITICAL VALUES					
Bilirubin, Total & Neonatal	Less Than	Greater Than				
0 - 23 hrs	--	7.9	mg/dL	X	X	
24 - 35 hrs		10.9	mg/dL	X	X	
36 - 47 hrs		13.9	mg/dL	X	X	
48 - 59 hrs		14.9	mg/dL	X	X	

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CHEMISTRY	Standardized for BL		Unit of measure	Inpatient	Outpatient/ Outreach	Outpatient/ Outreach
	CRITICAL VALUES			(RED Alerts)	(RED Alerts)	(BLUE Alerts)
<b>Bilirubin, Total &amp; Neonatal</b>	<b>Less Than</b>	<b>Greater Than</b>				
60 - 71 hrs		15.9	mg/dL	X	X	
72 - 83 hrs		16.9	mg/dL	X	X	
84 - 144 hrs		17.9	mg/dL	X	X	
145 hrs - 20 days		15	mg/dL	X	X	
BUN		100	mg/dL	X		X

CHEMISTRY	Standardized for BL		Unit Of Measure	Inpatient	Outpatient/ Outreach	Outpatient/ Outreach
	CRITICAL VALUES			(RED Alerts)	(RED Alerts)	(BLUE Alerts)
	<b>Less Than</b>	<b>Greater Than</b>				
Calcium, Ionized (adults)	3	6.5	mg/dL	X	X	
Creatinine 0 - 18 years	--	2.8	mg/dL	X	X	
19-116 years	--	7	mg/dL	X		X
≥ 117 years	--	2.8	mg/dL	X	X	
Phosphorus 0 - 14 days		10.5	mg/dL	X		X
> 14 days - Adult	< 1	> 10	mg/dL	X		X
Thyroid Stimulating Hormone 0 - 2 days		34.6	uIU/mL	X	X	
> 2 days - < 3 years	0.1	30	uIU/mL	X	X	

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### EPIC Beaker LIS Reference Ranges for Arterial Blood Gases

TEST	Specimen	Units	Ages	LOW	HIGH
pH	Arterial		0-4 d	7.27	7.47
pH	Arterial		5 d +	7.35	7.45
pCO <sub>2</sub>	Arterial	mm Hg	0-5 d	27	40
pCO <sub>2</sub>	Arterial	mm Hg	6 d - 23 m	27	41
pCO <sub>2</sub>	Arterial	mm Hg	24 m +	32	45
pO <sub>2</sub>	Arterial	mm Hg	0-1 d	54	95
pO <sub>2</sub>	Arterial	mm Hg	2 d +	80	100
HCO <sub>3</sub>	Arterial	mmol/L	0-4 d	16	23
HCO <sub>3</sub>	Arterial	mmol/L	5 d +	19	27
HCO <sub>3</sub>	Arterial	mmol/L	13 y+	19	27
TCO <sub>2</sub>	Arterial	mmol/L	0- <1 y	20	28
TCO <sub>2</sub>	Arterial	mmol/L	1-12 y	17	28
TCO <sub>2</sub>	Arterial	mmol/L	13 y+	20	29
BE	Arterial	mmol/L	0+	-3	3
O <sub>2</sub> Hb	Arterial	%	0+	95	98
COHb	Arterial	%	0+	0	1.4
MetHb	Arterial	%	0+	0	2
tHgb	Arterial	g/dL	Same as hematology ranges		
O <sub>2</sub> Content	Arterial	Vol%	0+	18	21

### Transitioning to Blood Gas Panels in Beaker LIS

#### Sunquest Panels (OLD)

ABGOH Arterial Blood Gases →  
 ABGICO ABG w/ Ionized Calcium →  
 ABGLAO ABG w/ Lactate →  
 ABGLYO ABG w/ Electrolytes →  
 ABLYLA ABG w/ Electrolytes, Lactate →

#### Beaker Panels (NEW) \*

LAB5331 Blood Gases, Arterial  
 LAB5331 Blood Gases, Arterial \*\*  
 LAB5331 Blood Gases, Arterial \*\*  
 LAB7021 Blood Gases, Critical Care Panel  
 LAB7021 Blood Gases, Critical Care Panel  
 LAB7119 Blood Gases, Venous  
 LAB5332 Blood Gases, Capillary  
 LAB5338 Blood Gases, Mixed Venous  
 LAB5333 Blood Gases, Cord, Arterial  
 LAB5334 Blood Gases, Cord, Venous

\* Reports will have reference ranges appropriate for the specimen source (arterial, venous, capillary, mixed venous, umbilical cord). The Critical Care Panel is arterial.

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\*\* Whole blood analytes ordered individually in Epic with an ABG panel will be tested from the same anaerobic heparinized whole blood gas syringe collection.

### Other Important Changes to Blood Gas Reports

1. Arterial Blood Gas reports will provide **Oxyhemoglobin (O2Hgb %)** concentration instead of O2 Saturation (O2Sat or sO2 %). The calculation of oxyhemoglobin fraction includes dyshemoglobins in the denominator, while oxygen saturation does not:

Sunquest (OLD)

O2 Saturation (%)

$$sO_2 \% = \frac{cO_2Hb}{cO_2Hb + cHHb} \times 100$$

Beaker LIS (NEW)

Oxyhemoglobin (%)

$$O_2Hb \% = \frac{cO_2Hb}{cO_2Hb + cHHb + cMetHb + cCOHb} \times 100$$

2. For cases of suspected pseudohyponatremia due to excess protein or lipid content in blood, Beaker LIS has an additional order available for manual handling of a heparinized blood sample to provide **sodium by direct potentiometry** on a blood gas analyzer: *LAB7873 Sodium, Direct Potentiometry*.
3. Whole blood bilirubin testing will be available only in select units with higher-complexity Point of Care instruments (e.g., NICU). Bilirubin will be available on serum/plasma samples, but not with blood gas orders sent to the laboratory.
4. Other Chemistry Updates:
  - No longer offering Glucose Tolerance Tests (GTTs) that are longer than 2 hours to non-pregnant patients. The 2-hour GTT will still be offered (LAB5054).
  - Interpretations will no longer be provided for GTTs.
  - Pregnancy GTTs (2hr and 3hr) will not change.
  - TSH with reflex to FT4 is orderable and the test code is LAB6903 (TSHR1). TSH alone is test code LAB6161 (TSHIG).
  - Drugs of Abuse Screen Confirmations will be sent to Royal Oak.
  - HIV Confirmations will be sent to Royal Oak.
  - No longer offering a Rapid HIV for sexual assault victims. The only HIV stat available is for OB and Exposure patients.
  - CK-MB test will be discontinued for Dearborn, Taylor, Trenton and Wayne
  - Cardiology CK-MB test will no longer be orderable for the north sites.
  - Iron has been removed from the Critical Test List.
  - The Lactic Acid critical value has been changed from >1.9 mmol/L to >3.9 mmol/L.

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### TOXICOLOGY

1. Propoxyphene and Methaqualone cannot be picked up by urine drug screen.
  - Propoxyphene: serum levels can be ordered as sendout tests:  
<https://www.beaumontlaboratory.com/lab-test-directory/test-results?keywords=Propoxyphene>
  - Methaqualone: serum level can be ordered as a sendout test:  
<https://www.beaumontlaboratory.com/lab-test-directory/detail?URL=methaqualone&itemID=1>
2. Amphetamine, urine screen: pick up Amphetamine (Adderall), Methamphetamine, MDA, and MDMA
  - Phentermine (Adipex-P) may be picked up by amphetamine confirmation assay
  - Vyvanse (Lisdexamfetamine) may be picked up by comprehensive drug screen
3. Opiates, urine screen: pick up heroin, codeine, morphine, Hydrocodone. Less sensitive to hydromorphone.
  - Cannot pick up oxycodone or oxymorphone
  - Cannot pick up tramadol. Tramadol can be ordered as sendout: <https://www.beaumontlaboratory.com/lab-test-directory/detail?URL=update-tramadol-screen-urine&itemID=1>
4. Oxycodone, urine screen: pick up oxycodone and oxymorphone
5. Benzodiazepines, urine screen: do not recommend it for compliance check. Order benzodiazepine confirmation instead.
  - Drugs included in benzo confirmation: Diazepam, Nordiazepam, Temazepam, Oxazepam, Alprazolam and metabolite, Clonazepam and metabolite, Lorazepam, Midazolam and metabolite, Flunitrazepam and metabolite, Flurazepam and metabolite, Triazolam metabolite, Estazolam, Clobazam, Chlordiazepoxide
6. Xanax, Valium: please see #5, detected in benzo confirmation
7. Gabapentin: serum level can be ordered from Beaumont tox lab.

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### BLOOD BANK

TEST NAME	EPIC LAB ID	OLD SUNQUEST TEST ID
ABO GROUP	LAB5269	O250913
RBC ANTIBODY SCREEN	LAB5271	O250915
A SUBGROUP TYPING	LAB5289	O250934
MISCELLANEOUS PROCEDURE, SPECIAL TESTING (BLOOD BANK)	LAB6339	O250962
CORD DIRECT COOMBS	LAB5013	NA
CORD BLOOD EVALUATION	LAB6871	SAME LAB6871
DIRECT ANTIGLOBULIN TEST/COOMBS	LAB5272	O250916
DAT DIFFERENTIAL	LAB6540	NA
DIRECT ANTIGLOBULIN TEST	LAB5280	NA
DUFFY (FY) PHENOTYPE	LAB5330	O250961
ISO (ALLO) HEMAGGLUTININ TITER	LAB5291	O250936
INFANT TYPE AND SCREEN	LAB5275	O250920
KIDD (JK) PHENOTYPE	LAB5293	O250938
KELL (KK) PHENOTYPE	LAB5292	O250937
MN PHENOTYPE	LAB5294	O250939
NEWBORN ABO	LAB5276	O250919
NEWBORN RH TYPE	LAB5277	O250926
NEWBORN TYPE AND DAT	LAB5278	O250922
NEWBORN BLOOD TYPE (ABO RH)	LAB5279	O250924
TRANSFUSION REACTION EVALUATION	LAB5286	O250927
RH TYPE	LAB5273	O250917
RHIG EVALUATION- ANTENATAL	LAB5288	O250933
RHIG EVALUATION- POST PARTUM	LAB5287	O250928
RH PHENOTYPE	LAB5296	O250941
SS PHENOTYPE	LAB5295	O250940
ANTIBODY TITER	LAB5311	O250958
TYPE/SCREEN	LAB5274	O250592
ABO/RH TYPE	LAB5270	O250914
KLEIHAUER BETKE	LAB5135	O252182
DONOR ABO WITH SUBGROUPING	LAB5290	O250935
ADULT ORDER SET FOR BLOOD PRODUCTS	SHOULD BE THE SAME	
INFANT ORDER SET FOR BLOOD PRODUCTS	SHOULD BE THE SAME	
NEWBORN RH FOR RHIG	LAB5281	NA

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### SPECIAL CHEMISTRY

#### Sunquest to Beaker Test Name Cross Walk- Special Chemistry

Old Name	Sunquest Code	Beaker Name	Beaker Code
Adrenocorticotrophic Hormone (ACTH)	YACTH	Adrenocorticotrophic Hormone (ACTH)	lab5797
Alastax Latex-Specific IgE	XLTX	Latex (allergen specific IgE)	lab5659
Alcohol screen, Toxic	YALCSC	Toxic Alcohol Screen, Serum	lab 5911
Alkaline Phosphatase Bone Specific	XBAP	Bone Alkaline Phosphatase	lab6846
Alkaline Phosphatase Isoenzymes	XALKPI	Alkaline Phosphatase Isoenzymes	lab5846
Alpha-fetoprotein, Inhibin A, HCG, UE3 (estriol) + PAPP-A	AFPTMTL, INHA, BHC GT, UE3	Integrated Screen, full or serum	lab 5781
Amikacin	XAMIK	Amikacin	lab5369
Amikacin, Peak	XAMIPK	Amikacin, Peak	lab5370
Amikacin, Trough	XAMITR	Amikacin, Trough	lab5371
Aminophylline (theophylline)	THEOPH	Theophylline Level	lab5419
Amitriptyline (Elavil)* (includes Nortriptyline)	XAMTRP	Amitriptyline (includes Nortriptyline)	lab5373
ANA Screen (Anti Nuclear Antibody)	ANA	ANA Screen (Anti Nuclear Antibody)	lab5749
Anti-Cardiolipin Antibodies* IgG/IgA/IgM	YACA	Anti-Cardiolipin Antibodies* IgG/IgA/IgM	lab5166
Anti-DNA Antibody Double Stranded	DNADS	Anti-DNA Antibody Double Stranded	lab 5743
Anti-ENA Antibody (includes Anti-RNP, Anti-Sm)*	YENA	Extractable Nuclear Antibodies	lab 5756
Anti-Histone Antibodies	XHISAB	Histone Antibody	lab5761
Anti-RNP	YRNP	RNP Antibody	lab5756
Anti-SARS-CoV 2 IgG	YCOIGG	SARS-CoV-2 Antibody IgG	lab3876
Anti-Scleroderma Antibodies* (Scl-70)	YSCL70	Scleroderma (SCL-70) Antibody (IgG)	lab6625
Anti-Smooth Muscle Antibodies (ASMA)	ASMA	Anti Smooth Muscle Antibody	lab5747
Aventyl* (Nortriptyline) (Pamelor)	XNTPRIP	Amitriptyline (includes Nortriptyline)	lab5373
Beta 2 Glycoprotein, IgG, IgA, IgM	XB2GP	Beta 2 Glycoprotein IgG, IgM	lab5167
Bone Alkaline Phosphatase	XBAP	Bone Alkaline Phosphatase	lab6846
Caffeine Level	YCAFFE	Caffeine Level	lab5890
Calprotectin	XCALPT	Calprotectin	lab7005
Carbamazepine (Tegretol)	CARBAM	Carbamazepine (Tegretol)	lab5380
Cardiolipin Antibodies IgG, IgM, IgA	YACA	Anti Cardiolipin Antibodies	lab5166
Centromere Abs	XCNTAB	Centromere Antibody	lab5753
Cyclic Citrullinated Peptide (CCP) Antibody	YCYCP	Cyclic Citrullinated Peptide	lab5754
Celiac Disease Panel	YCDPNL	Celiac Disease Screen	lab5751
Citric Acid, 24hr. Urine	XUCIT	Citric Acid Urine 24 hour	lab5853
Cocaine, Qualitative	N/A	Cocaine Screen, Urine	lab7012
Cold Agglutinins (Titer performed if positive)	XCAG	Cold Agglutinin Titer	lab5826
Complement Total, CH50	YCH50	Total Complement (CH50)	lab7024

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Old Name	Sunquest Code	Beaker Name	Beaker Code
Cryoglobulin, Qual.	XCRY	Cryoglobulin, Serum	lab5828
Cytomegalovirus Antibody (CMV) IgG	CMVIGG	Cytomegalovirus IgG	Lab6893
Cytomegalovirus Antibody (CMV) Igm	CMVIGM	Cytomegalovirus IgM	lab6894
Diazepam (valium) Qual, Urine	N/A	Benzodiazapine Screen, Urine	lab7010
Desipramine (Norpramin)	XDESPR	Desipramine level	lab5387
Dilantin (Diphenylhydantion, Phenytoin)	PHENY	Phenytoin Level	lab 5410
Dilantin, Free	XFDIL	Phenytoin Level, Free (Including total)	lab5411
Doxepin (Sinequan)	N/A	Doxepin Level (Including Nordoxepin)	lab5388
Drug Abuse Screen 10 Urine, Qual	XCCD10A	Drugs of Abuse Panel, Urine	lab6862
EBV Panel	EBVPN	Epstein Barr Virus Antibody Panel	lab5829
Endomysial IgA Antibodies	YENDO A	Endomysial Antibody IgA	lab5755
Epstein-Barr Viral Capsid Antibody, IgM	EBVM	Epstein Barr Virus Antibody to Viral Capsid Antigen, IgM	lab5831
Erythropoietin (EPO)	XERYTH	Erythropoietin	lab5808
Ethosuximide (Zarontin)	XZRNTN	Ethosuximide	lab5389
Fluoxetine (Prozac)	XFLUOX	Fluoxetine Level	lab5390
Free Dilantin	XFDIL	Phenytoin Level, Free (Including total)	lab5411
Free Tegretol	XFCARB	Carbamazepine Level, Unbound (including Total)	Lab5381
G-6-PD Quant	XG6PDQ	Glucose 6 Phosphate Dehydrogenase (G6PD)	lab5857
Gabapentin (Neurontin)	XNURNT	Gabapentin Level	Lab5391
Gamma Hydroxybutyric Acid (GHB)	XUGHBS	GHB Screen, Urine	lab5900
Gastric Parietal Cell Antibody (Antibodies only)	N/A	Anti Parietal Antibody	lab5746
Gentamicin (Garamycin)	GENTA	Gentamicin Level	lab5392
Gentamicin, Trough(Garamycin)	GENTAT	Gentamicin Level, Trough	lab5394
Gentamicin, Peak (Garamycin)	GENTAP	Gentamicin Level, Peak	lab5393
Gliadin (Deamidated) Antibodies	YGLIAD	Gliadin (Deamidated) Antibodies	lab5760
Hemoglobin A1C	HBA1C	Hemoglobin A1C	lab5858
Hemoglobin Electrophoresis	XHGBE	Hemoglobinopathy Evaluation	lab5862
Herpes Simplex I, IgG (HSV1 Ab IgG) and Herpes Simplex II- IgG	XHERPG	Herpes Simplex Virus 1 (IgG) and Herpes Simplex Virus 2 (IgG) Antibodies	lab5837
Histone Antibody (IgG)	XHISAB	Histone Antibody IgG	lab5761
IgE (Immunoglobulin E)	IGE	Immunoglobulin E (IgE)	lab5074
IgG Immunoglobulin Subclass	YIGSUB	Immunoglobulin G (IgG) Subclass	lab6464
Immunofixation, Serum (Includes IgG, IgA, IgM)	IFE	Immunofixation, Serum (includes IgG, IgA, IgM)	lab5877
Immunofixation, Urine	UIFE	Protein Electrophoresis, Urine	lab5876
Jo-1 IgG Antibody	YJO1	Jo 1 Antibody IgG	lab6986
Kidney Stone Analysis	XCALC	Stone Analysis	lab5457

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Old Name	Sunquest Code	Beaker Name	Beaker Code
Lamotrigine (Lamictal)	YLAMOT	Lamotrigine Level	lab5397
Lidocaine	XLIDO	Lidocaine Level	lab5399
Lithium	LITH	Lithium Level	lab5400
Lyme Disease Ab (Total)	LYLYMAB	Lyme IgG, IgM	lab6896
Methadone, Qual	N/A	Methadone Screen, Urine	lab7013
Mono Test, Qual	MONO	Monospot (Heterophile Assay)	lab5839
Mumps Antibodies	MUMPG	Mumps IgG	lab6897
Mycoplasma Pneumoniae Antibody, IgG	XMYCAG	Mycoplasma Pneumoniae IgG	lab7084
Mycoplasma Pneumoniae Antibody, IgM	XMYCAM	Mycoplasma Pneumoniae IgM	lab7085
Nortriptyline (Aventyl)	XNTRIP	Amitriptyline Level (including Nortriptyline)	lab5373
Opiates, Qualitative	N/A	Opiates Screen, Urine	lab7014
Oxcarbazepine	XOXC	Oxcarbazepine Metabolite Level	lab5407
Parvovirus-B19-Antibody Panel	XPVPNL	Parvovirus B19 Antibodies IgG, IgM	lab6756
Phenobarbital	PHENO	Phenobarbital Level	lab5409
Phenytoin	PHENY	Phenytoin Level	lab 5410
Phenytoin, Free	XFDIL	Phenytoin Level, Free (Including total)	lab5411
Phosphatase, Alkaline, Isoenzymes	XALKPI	Alkaline Phosphatase Isoenzymes	lab5006
Primidone	XMYS	Primidone (including Phenobarbital)	lab6963
Protein Electrophoresis, Serum	SPE	Protein Electrophoresis, Serum	lab5874
Protein Electrophoresis, Urine	RUPE	Protein Electrophoresis, Urine	lab5875
Protein Electrophoresis, 24hr Urine	UPE	Protein Electrophoresis, Urine	lab5875
Prozac	XFLUOX	Fluoxetine Level	lab5390
Quad Screen	QUADSC	Quad Screen	lab5777
QuantiFERON-TB Gold	YQFTB	QuantiFERON-TB	lab5784
RNP Antibody, IgG	YRNP	RNP Antibody	lab6991
RPR	RPR	RPR	lab7020
Rubeola Antibody, IgG	RUBIGG	Rubella, IgG	lab6895
Rubeoula Antibody, IgG	RUBEOG	Measles (Rubeola) IgG	lab6898
Scleroderma Antibodies	YSCL70	Scleroderma (SCL-70) Antibody (IgG)	LAB6625
Sirolimus	XSIRO	Sirolimus Level	lab5417
Sjogren's Antibodies (SSA and SSB)	YSJAAB	Extractable Nuclear Antibodies	lab5756
Smith Antibody	YSMITHA	Smith Antibody	lab6987
Soluble Transferrin Receptor	XSTR	Soluble Tranferrin Receptor	lab7197
Somatomedin-C (IGF-1, Insulin Growth Factor-1)	YIGFI	Insulin Like Growth Factor 1	lab5819
Tacrolimus (Prograf)	YACRI	Tacrolimus Level	lab5418
Tegretol	CARBAM	Carbamazepine Level	lab5830
Tegretol, Free	XFCARBAM	Carbamazepine Level Total, Unbound	lab 53851

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Old Name	Sunquest Code	Beaker Name	Beaker Code
Testosterone, Free and Bioavail, Female or Child	YTFBFC	Testosterone, Free and Bioavail, Female or Child	lab6904
Testosterone, Free and Bioavail, Male	YTESTFB	Testosterone, Free and Bioavail, Male	lab7038
THC-100 (Marijuana) Qual	N/A	Cannabinoids Screen, Urine	lab7011
Theophylline (Aminophylline)	THEOPH	Theophylline Level	lab5419
Thiocyanate	XTHIOC	Thiocyanate Level	lab5420
Thyroid Antibody Group	YTHYGG	Thyroid Antibody Panel	lab5823
Thyroid Peroxidase	YTPAA	Thyroid Peroxidase Autoantibody	lab5821
Tissue Transglutaminase IgG Ab	XTTGG	Tissue Transglutaminase IgG	lab6163
Tissue Transglutaminase IgA Ab	XTTGA	Tissue Transglutaminase IgA	lab6912
Toxic Alcohol Screen, Serum	YALCSC	Toxic Alcohol Screen, Serum	lab 5911
Toxoplasma Antibody, IgG	TOXOG	Toxoplasma IgG	lab6891
Toxoplasma Antibody, IgM	TOXOM	Toxoplasma IgM	lab6892
Trazadone	XTHIME	Trazadone Level	lab5427
Tricyclic Antidepressant	XTAD	Tricyclic Antidepressant	lab5910
Varicella Zoster Antibody IgG (Immune Status)	VARIGG	Varicella Zoster IgG	lab6899
VDRL	RPR	VDRL, CSF	lab5773
Viscosity	XVISCO	Viscosity, Serum	lab5882

### HEMATOLOGY AND COAGULATION

#### Hematology Changes for Beaker South Side:

Reference Ranges	Female	Male	Unknown
WBC (bill/L)	3.3 – 10.7	3.5 – 10.1	3.3-10.7
RBC (tril/L)	3.87 – 5.08	4.31 – 5.48	3.87-5.48
Hemoglobin (gm/dL)	12.1 – 15.0	13.5 – 17.0	12.1-17.0
HCT (%)	35.4 – 44.2	40.1 – 50.1	35.4-50.1
MCV (fL)	80 – 100	80 – 100	
MCH (pg)	28 – 33	28 – 33	
MCHC (%)	32 – 35	32 – 36	32-36
RDW-CV (%)	12 – 15	12 – 15	
Platelet (bill/L)	150 – 400	150 – 400	
Retic (bill/L)	21 – 100	21 – 100	
IRF	0.02 – 0.14	0.01 – 0.16	0.01 - 0.16
RetHE (pg)	31.9 – 37.1	30.6 – 37.9	30.6 – 37.9
ESR	0 – 18	0 – 15	

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<b>Differential:</b> Reported in absolutes only.	Female	Male	Unknown
Neutrophils (bill/L)	1.6 – 7.2	1.6 – 7.2	
Lymphs (bill/L)	1.1 – 4.0	1.1 – 4.0	
Monocytes (bill/L)	0.0 – 0.8	0.0 – 0.9	0.0-0.9
Eosinophils (bill/L)	0.0 – 0.5	0.0 – 0.4	0.0-0.5
Basophils (bill/L)	0.0 – 0.1	0.0 – 0.1	
IG (bill/L)	0.0 – 0.03	0.0 – 0.04	0.0-0.04

Pleural Fluid	WBC:	≤1000 per mcL
	RBC:	<10,000 per mcL
	PMN:	0-25%
	Mononuclear:	0-75%
Spinal Fluid (CSF)	WBC:	0 - 5 per mcL
		(all mononuclear)
	RBC:	Absent
Synovial Fluid	WBC:	0-200 per mcL
	RBC:	Absent
	PMN:	0-25%
	Mononuclear:	0-75%
	Crystals:	None
Sickle Cell (Hgb S) Solubility	Negative	
Acid Elution (Fetal Cells- Kleihauer-Betke)	< 0.3 %	

### **NOTE:**

- Immature granulocytes, blast cells, and reticulocytes will continue to be reported in absolutes and percentages.
- Due to the new technology and instrumentation, automated differentials will be reported with a six-part differential (Neutrophils, Lymphocytes, Monocytes, Eosinophils, Basophils, and Immature Granulocytes (IG)). Because of the IG feature, bands will no longer be reported separately, but will be included in the Absolute Neutrophil count.
- Non-CSF body fluid red blood cell counts are reported as “<2000/mcL”.

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**RBC Morphology:** Now reported as “*Unremarkable*” or “*See below*” (with grading below):

RBC Morphology	Internal Grading	Reported
<b>Hypochromasia</b>	11-20% >20%	2+ 3+
<b>Acanthocytes</b> <b>Echinocytes</b> <b>Ovalocytes</b> <b>Polychromasia</b> <b>Spherocytes</b> <b>Stomatocytes</b> <b>Target Cells (Codocytes)</b> <b>Teardrops (Dacryocytes)</b>	5-10% 11-20% >20%	1+ 2+ 3+
<b>Schistocytes</b> <b>Bite Cells/ (Blister*)</b>		<1/hpf 1-2/hpf 3-5/hpf 6-10/hpf 11-20/hpf >20/hpf
<b>Sickle Cells</b> <b>Pappenheimer Bodies</b> <b>CC/ SC Crystals</b> <b>Howell-Jolly Bodies</b> <b>Basophilic Stippling</b>	Any seen	Present

ASSAY	REPORTABLE LIMITS	NORMAL/ THERAPEUTIC VALUES
PT	9-120 seconds	9.2-13.5 seconds
INR	0.9-9.0	2.0-3.0 Routine Oral Anticoagulant Therapy 2.5-3.5 Oral Anticoagulant Therapy for certain Mechanical Heart Valves. For more information, see Beaumont Pharmacy website.
aPTT	21-200 seconds	25-38 seconds/ 56-81 seconds (ACS: 50-75 seconds)
Fibrinogen	35-1000 mg/dL	200-400 mg/dL
PFA-Coll/Epi	0-300 seconds	≤ 160 seconds
PFA-Coll/ADP	0-300 seconds	≤ 106 seconds
D-dimer; Quantitative	250 – 10,000 ng/mL FEU	< 600 ng/mL FEU (VTE: <500 ng/mL FEU)
Fibrin Split Products	<10 to >40 mcg/mL	< 10 mcg/mL

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### Coagulation Changes for Beaker South Side:

#### NOTE:

- All special coagulation testing that was previously ordered and sent to WARDE laboratory will now be sent and performed at the Beaumont Royal Oak Laboratory campus.

### Sunquest to Beaker Test Name Cross Walk - Coagulation

Old Test Name	SUNQUEST Test Code	SQ Lab#	BEAKER Equivalent	Epic Lab#
Eosinophil Count	EOCT	LAB298	Absolute Eosinophils	LAB5134
Acid Elution		LAB7190	Acid Elution (Fetal Hemoglobin in Red Blood Cells)	LAB5135
N/A	N/A	N/A	Bone Marrow Aspiration and Biopsy	Unilateral: O138450 (panel), Bilateral: O138449 (panel),
CSF Cell Count	CSFCC	LAB212	CSF Cell Count	LAB5243
Fluid Cell Count	FLCC	LAB209	Body Fluid Cell Count	LAB5244
Hemogram (CBC) with differential, platelets	HGRAM	LAB01748	Complete Blood Count with Differential (CBCWD)	LAB5139 (Inpatient/EPIC Users), LAB7909 (Outreach/Non-EPIC USERS)
Hemogram W/Platelets	HGMP	LAB294	Complete Blood Count (CBC)	LAB5141
N/A	N/A	N/A	Chemo Complete Blood Count	LAB5142
N/A	N/A	N/A	Chemo Complete Blood Count with Differential	LAB6877
Crystal Examination, Body fluids	CRYID	LAB940	Crystals in Synovial Fluid	LAB5143
Eosinophil Smear, (nasal eosinophil count)	EONAL	LAB03076	Eosinophils in Nasal, Sputum, or Conjunctival Smears	LAB5145
Eosinophil Ct, Urine	UEOS	LAB03168	Eosinophils in Urine Sediment	LAB5163
Sedimentation Rate (Westergren)	ESRWES	LAB322	Erythrocyte Sedimentation Rate	LAB5146
Hematocrit (HCT)	HCT	LAB289	Hematocrit	LAB5147
Hemoglobin (HGB)	HGB	LAB291	Hemoglobin	LAB5148
Hemoglobin and Hematocrit	HGBHCT	LAB753	Hemoglobin and Hematocrit	LAB5149
Hemosiderin*	XHMSID	LAB399	Hemosiderin in Urine Sediment	LAB5150
Lamellar Bodies	LMLLR	LAB03856	Lamellar Body Count, Amniotic Fluid	LAB6636
Blood Smear, Peripheral, Interpretation	DPTHR	LAB03471	Pathologist Consult, Hematology	EPIC Users: )139820 Non-EPIC Users: LAB7909, LAB5158, LAB6724
Platelet Count	PLT	LAB301	Platelet Count	LAB5156
Sperm Count, Post Vas	SEMNPV	LAB891	Post Vasectomy Check	LAB5157
Reticulocyte Count	RETIC	LAB296	Reticulocyte Count	LAB5158
N/A	N/A	N/A	Schistocyte Review	LAB5159
Semen Analysis	SEMEN	LAB216	Semen Analysis for Fertility Testing	LAB5160
Sickle Cell Screen	SICKL	LAB339	Sickle Cell Screen	LAB5161
N/A	N/A	N/A	Synovial Fluid Analysis	LAB5162
Activated Protein C* Resistance	XAPCR	LAB846	Activated Protein C Resistance	LAB5165
Antithrombin III Activity*	XAT3AC	LAB311	Antithrombin	LAB5168
Antithrombin III Antigen*	XAT3AG	LAB759	N/A	N/A
N/A	N/A	N/A	Bethesda Inhibitor	LAB5169

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Old Test Name	SUNQUEST Test Code	SQ Lab#	BEAKER Equivalent	Epic Lab#
Cardiolipin Antibodies		LAB464	Coagulation Consult: Anti Phospholipid Antibody	LAB5170
Von Willebrand Panel (Includes Factor VIII AG, Ristocetin Cofactor and Factor VIII Activity)*	XVWPAN	LAB03462	Coagulation Consult: von Willebrand Disease	LAB5174
N/A	N/A	N/A	Coagulation Consult: Prolonged Clotting Time	LAB5172
N/A	N/A	N/A	Coagulation Consult: Bleeding Diathesis	LAB5171
N/A	N/A	N/A	Coagulation Consult Thrombophilia	LAB5173
N/A	N/A	N/A	DDAVP (Desmopressin) Panel, Pre- and Post-Trial	LAB6803
N/A	N/A	N/A	DIC Screen	LAB5176
N/A	N/A	N/A	Dilute Russell Viper Venom Test (dRVVT)	LAB5177
Coag Factor II Activity*	XFII	LAB303	Factor II Activity	LAB5179
Coag Factor IX Activity*	XF9ACT	LAB308	Factor IX Activity	LAB5180
Coag Factor V Activity*	XFVACT	LAB304	Factor V Activity	LAB5181
Coag Factor VII Activity*	XFVII	LAB305	Factor VII Activity	LAB5183
Coag Factor VIII Activity* (Vonwillebrand Fact Activity)	XF8ACT	LAB306	Factor VIII Activity	LAB5184
Coag Factor X Activity*	XFRACT	LAB758	Factor X Activity	LAB5185
Coag Factor XI Activity*	XFXI	LAB309	Factor XI Activity	LAB5186
Coag Factor XII Activity*	XFXII	LAB310	Factor XII Activity	LAB5187
Coag Factor XIII , Qualitative*	XF13QL	LAB01113	Fibrin Stabilizing Factor	LAB5189
Fibrin Degradation Products - Fibrin Split Products (FDP/FSP)	FDP	LAB761	Fibrin Split Products	LAB5188
Fibrinogen	FIBP	LAB314	Fibrinogen	LAB7027
Heparin Anti Xa, Low Molecular Weight Heparin*	YLMWH	LAB3715	Heparin Anti Xa, Low Molecular Weight Heparin	LAB5191
Heparin Anti Xa, Unfractionate Heparin*	YUNFHP	LAB3716	Heparin Anti Xa, Unfractionated Heparin	LAB5192
Lupus Anticoagulant* (LAC)	XLUPAC	LAB319	Hexagonal Phase Phospholipid	LAB5193
N/A	N/A	N/A	Inhibitor Anticoagulant Screen	LAB5194
Plasminogen	XPLASM	LAB01125	Plasminogen	LAB5197
N/A	N/A	N/A	Platelet Aggregation	LAB5198
N/A	N/A	N/A	Platelet Drug Monitoring Aggregation	LAB5199
Platelet Function Assay	PLTFA	LAB318	Platelet Function Analysis (PFA)	LAB5200
N/A	N/A	N/A	Platelet Hyperaggregation	LAB5201
N/A	N/A	N/A	Platelet LUMI Aggregation	LAB5202
N/A	N/A	N/A	Platelet Neutralization Procedure	LAB5203
Protein C Activity*	XPROTC	LAB489	Protein C Activity	LAB5205
Protein S Activity*	XPROTS	LAB491	Protein S Activity	LAB5206
Prothrombin Time (PT)/INR	PT	LAB320	Protime INR	LAB5208
D-Dimer	DIMEI	LAB03858	Quantitative D-Dimer	LAB5175
N/A	N/A	N/A	Thrombin Time	LAB5214
Ristocetin Cofactor*	XVWACT	LAB03461	von Willebrand Factor Activity	LAB5213
Coag Factor VIII Antigen* (Vonwillebrand Ag)	XF8AG	LAB03332	von Willebrand Factor Antigen	LAB5215
Partial Thromboplastin Time (PTT)	APTT	LAB325	aPTT (Activated Partial Thromboplastin Time)	LAB7026
Urinalysis, Complete (with microscopic)	UACMP	LAB03761	Urinalysis, Complete	LAB7089
Urinalysis (Chem. Only) Reflex to microscopic if indicatedminbal	UARFX	LAB03760	Urinalysis	LAB5918

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### SEND OUT CHANGES

On April 11<sup>th</sup> the Send Out laboratory will be moving to a closed formulary. Testing listed in the Laboratory Test Directory will be considered the testing that is offered. Any tests that are ordered outside this database will need approval by a pathologist. For approval prior to collection please contact the Send Out Laboratory at Royal Oak at 248-551-9045.

These tests are no longer offered due to the fact they are considered obsolete.

- Reverse T-3 (LC-MS/MS)
- Myelin Basic Protein (CSF)
- Lactate Dehydrogenase (LD) Isoenzymes
- Aldolase

These tests are no longer offered due to clinical utility and are proprietary to a single lab:

- Musk Antibody Test (Athena Laboratories)
- Ova-1 (Quest Laboratory)
- He4, Ovarian Cancer Monitoring (Quest Laboratory)

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**Date submitted: April 2, 2021**

**Submitted by: Amy Knaus, System Operations Director, Anatomic Pathology & Molecular Diagnostics  
Brittanie Berger, System Operations Director, Clinical Pathology**