

The Many Faces of the Laboratory Test Guide

PI Summit, 2025

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Laboratory Medicine and Pathology

University of Washington



Disclosures

- None

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Testing Services Education Center About

Test Updates Hotlines New Tests CPT Updates

Quality testing to ensure the best results and care

We are a worldwide leader in innovative laboratory research and development, with an extensive test menu of highly complex and unique medical tests.

Search the test directory

Find a test by name, code, CPT, disorder, or keyword

[Browse Tests A-Z](#)

UCSF Health Clinical Laboratories Home | History | Help | Sign In

Find a test by name, number, synonym, CPT or LOINC

UCSF Clinical Laboratories Test Directory

Welcome to the UCSF Clinical Laboratories Test Menu...where every sample is precious! Please use the search box in the upper right hand corner to find a test or to browse an alphabetical listing of our menu. If a desired test is not listed in the laboratory manual, please contact the laboratory at 415-353-1687 and ask to speak to a laboratory medicine resident, Medical/Section Director, or our send-out staff to inquire if the test is available. Federal CLIA regulations require that we only refer samples for testing to other CLIA (or equivalent) certified laboratories. If the test is available at one of our approved, CLIA certified reference laboratories, it may be ordered in APeX as a Miscellaneous Outside Lab Test (MOLT). When ordering a MOLT, please include the exact name of the test and the name of the laboratory to which it will be sent.

New(2) Updated(9)

Home
 COVID-19 General Information
 COVID-19 RT-PCR
 COVID-19 Serology
 Test Menu
 Test Selection Support (ARUP Consult)
 General Information
 Pediatric Minimum Draw Volumes
 Contact Us
 Downtime Documents



MAYO CLINIC LABORATORIES MayoACCESS | MayoLINK Register | My Dashboard

TEST CATALOG ORDERING & RESULTS SPECIMEN HANDLING CUSTOMER SERVICE EDUCATION & INSIGHTS CONTACT SEARCH

Search test name

A B C D E F G H I J K L M N
 O P Q R S T U V W X Y Z #

HOME | TEST CATALOG

HENRY FORD HEALTH Pathology and Laboratory Medicine This Electronic Lab User's Guide is applicable to Legacy Henry Ford Locations Only

Home | About Us | Help | Search | Contact Us

Welcome! We are pleased to present the Laboratory User's Guide (LUG). The purpose of the guide is to provide information about our laboratories and a comprehensive test catalog with information regarding specimen collection and handling. We value your suggestions and look forward to working with you. Please feel free to call us or members of our **Laboratory Customer Service Center at (313) 916-LABS (5227)**, if you need assistance. In the event of a Downtime, test regulations can be found here.

Blood/Body Fluids Specimens	Tissue/Cytology Specimens	Phlebotomy Instructions
<ul style="list-style-type: none"> Specimen Collection Instructions Add-On Table Critical Values HFHS Lab Formulary (CETAC) Reference Ranges-Core & Micro Labs Commonly Ordered Genetic CPT and Test Code Chart Test Catalog 	<ul style="list-style-type: none"> Specimen Collection Instructions HFHS Lab Formulary (CETAC) Autopsy Info - Adult Autopsy Info - Fetal Commonly Ordered Genetic CPT and Test Code Chart Test Catalog 	<ul style="list-style-type: none"> Order of Draw Venipuncture New! Proper Label Placement on Sample Tubes Neurolept Processing Instructions Blood Collection Sites for 12yrs and Under CPT Blood Draw Sites Non HFH Blood Draw Sites New! Lab ORDER RULES CHART

Skip the LAB Wait! New available test orders for busy test sites at Henry Ford and its affiliates. Review the order completion time and select an order to complete the wait time on the website.

To order cards for patient area

- Visit the Digital Print store and sign in with Corgid here
- Search "Lab Services" in the upper right corner.
- Click on the card, select CONFIRM.
- Enter your quantity and cost center and finalize your order.

Recent Test Catalog Changes

April 2025	Feb 2025	Mar 2025
Jan 2025	November 2024	December 2024
October 2024	August 2024	September 2024
July 2024		

HEALTH FAIRVIEW Home | History | Help | Sign In

Find a test by name, number, synonym, or CPT

M Health Fairview Laboratory Test Directory

Welcome to the M Health Fairview Laboratory Test Directory. Please find available tests by using the search bar or navigating via the search categories on the right side of the screen.

The laboratories of M Health Fairview serve as M Health Fairview Reference Laboratory (MRL) which support the Fairview Health System and its partners as a premier integrated laboratory system by providing:

- High quality, accessible, cost effective, comprehensive services
- Innovative clinical laboratory practice
- Educational resources for its healthcare practitioners
- Accessible diagnostic information in response to customer needs

Recognized regionally and nationally, the laboratory offers a full range of testing services, from acute care support to unique reference diagnostic testing, with a strong emphasis on quality, accuracy and timeliness.

Services include: routine and complex testing, 24-hour clinical pathology and technical consultation, cost competitive pricing, cutting-edge technologies, educational opportunities, and special project assistance.

M Health Fairview Reference Laboratory (MRL):
 For client questions, contact MRL Laboratory Solution Center at 651-232-3500; fax 651-232-3370
 1700 University Ave W, 7th Floor West, St. Paul, MN 55104

Patent Pricing Inquiries:

Requester	Contact Information
Patient and UMP/FV Care Team	Fairview Consumer Line at 612-672-1048
MRL Outreach Client	dept-mri-business-assessment@fairview.org
Research	research@fairview.org

New(0) Updated(2466)

Anatomic Pathology(22)
 Autology(10)
 Blood Bank(16)
 Chemistry(228)
 Coagulation(18)
 Cytogenetics(25)
 Cytology(20)
 Cytology(16)
 Flow Cytometry(11)
 Hematology(27)
 Immunology(40)
 Infectious Diseases
 Diagnostic Laboratory(76)
 Molecular Diagnostics(232)
 Point of Care(17)
 Reference Laboratory(1325)
 Special Chemistry(264)
 Special Coagulation(38)
 Special Drug/Biochemical Genetics(32)
 Special Hematopathology(11)
 Urinalysis(22)

YaleNewHavenHealth Lab Manual Report a Missing Test Full List of Tests References Change Site

Home | TEST CATALOG

Enter Search Phrase

Test Code	Test Name	Performing Lab	System	Cpt Code
LAB0005	BUN (urea) (Lab Approved Request)(TUE)	YNSH MAIN LAB		800000
LAB0006	Empyria and related plus reporting panel with CNV Antigen (TUE)	YNSH NON INTERFERED REFERENCE LAB	Phenoxia 707	81479
LAB0010	Security serology/serumtype (LMI YHS)	YNSH NON INTERFERED REFERENCE LAB		8320a16
LAB0012	NTCCA antibody (LQ)(YHS)	YNSH NON INTERFERED REFERENCE LAB		8655
LAB0013	BNP/CRP antibody (LQ)(LMI YHS)	YNSH NON INTERFERED REFERENCE LAB		8300
LAB0014	Cytoker panel (BH)(GH)(LAW Q YHS)	YNSH MAIN LAB	ABELP001104	8302a17
LAB0014	Cytoker panel (BH)(GH)(LAW Q YHS)	YNSH ABEL LAB	ABELP001104	8302a1820
LAB0015	Disseminated serology (LMI YHS)	YNSH NON INTERFERED REFERENCE LAB	DEMIY1	8300a19
LAB0019	Disseminated serology with auto antibody antibody antibody (YHS)	YNSH MAIN LAB	NS01010101	0540
LAB0020	Acute serology (LMI YHS)	YNSH NON INTERFERED REFERENCE LAB		8302a12
LAB0021	Hepatic C used RNA genotypic (YNSH) drug abuse lab	YNSH MAIN LAB	BCV-00000000-000	000000

QuestDiagnostics Test Directory

Welcome to the Quest Diagnostics Test Directory

Search for tests and educational resources with confidence. Filter by specialty or test category, and compare tests side-by-side.

[WATCH THE VIDEO](#) | [LEARN MORE](#) | [FREQUENTLY ASKED QUESTIONS](#) | [SPECIMEN COLLECTION & TRANSPORT GUIDE](#) | [TEST GUIDES](#)

We'd love your feedback! [Take a brief survey.](#)

Search for Tests, Diseases, or Conditions

All Specialties

Our Test Directory includes detailed information, guides and references for many of our tests. This includes test and result codes, specimen collection requirements, specimen transport considerations, and methodology.

Recently Viewed

Electron Microscopy **Apolipoprotein B** This test is used to assess risk for **Increase the strength of your search!** [Take a brief survey.](#)

Children's Healthcare of Atlanta Home | History | Help | Sign In

Find a test by name, number, synonym, CPT or LOINC

CHOA Laboratory Test Directory

News from Children's Healthcare of Atlanta Laboratories

It is Children's policy, approved by the system-wide Lab Stewardship Committee, that "free" testing, defined as a test for which the performing referral lab does not charge the hospital, patient's insurance, or patient, CANNOT be sent out on CHOA inpatients, unless the test is:

- a clinical test performed in a laboratory under its CLIA license, AND
- not available elsewhere, AND
- equally and readily available to ALL CHOA patients under an institutional account.

Orders for tests that do not meet these criteria must be collected in the outpatient setting in which CHOA lab serves as a "pass-through" to the receiving referral lab. CHOA will charge a standard phlebotomy processing fee if a CHOA phlebotomist collects the specimen. Please direct any questions to Dr. Elizabeth Weinzierl at 404-785-4552 or elizabeth.weinzierl2@choa.org. The policy can be found here on the Careforce website:

[Laboratory Policy 23079.5108: Reference Lab Testing Rules, Exceptions and Algorithms](#)

March 2025 Lab Updates:
 See One Epic Update

Careforce Connection
 Pathology & Laboratory Services
 Laboratory Turnaround Times and Priorities for Inpatients

Children's Healthcare of Atlanta
 © 2025 ARUP Laboratories. All rights reserved.

labcorp Test Menu

Test Menu

Explore our test menu

Our comprehensive test menu includes both specialty and general laboratory testing services.

Use a keyword, test name or test number

Lab test catalog application market survey

ARUP Gateway



UW Medicine Laboratory Test x +

testguide.labmed.uw.edu

Home Laboratory Medicine & Pathology UW Medicine

text or code Search

UW Medicine Laboratory Test Guide

Search text or code within other orders

Search clinical laboratory tests offered by the Department of Laboratory Medicine at the University of Washington

(OLTG)

- History
- Design philosophy
- Implementation
- Workflows and Features

Department Home
Licenses & Accreditation
Specialty Testing
Genetics & Solid Tumors
Molecular
Hematopathology
Flow Cytometry
Immunology
Molecular
Microbiology
Red Cell Disorders
Virology
Specimen Collection
Critical Values
Notifiable Conditions

Staff Links

Staff Only Test Guide

Departmental Website Integration

The screenshot displays the website for the Department of Laboratory Medicine & Pathology at UW Medicine. The browser address bar shows the URL `dimp.uw.edu`. The page features a navigation menu with categories such as ABOUT, JOBS, FACULTY & STAFF, FIND TESTS, DIAGNOSTIC SERVICES, EDUCATION, RESEARCH, EVENTS, NEWS, and CONTACT. A search bar is present, with a red box highlighting the 'Find a laboratory test' input field. Below the navigation, there is a hero section with a laboratory image and a call to action: 'VIEW OUR VIROLOGY LAB'S COVID-19 DASHBOARD'. To the right of the hero section are four prominent buttons: 'Academic Programs', 'Find Tests', 'Pay Your Bill', and 'Make a Gift'. The main content area is titled 'About the Department of Laboratory Medicine & Pathology' and provides a brief overview of the department's services and regional focus. At the bottom, there are sections for 'Department Highlights' and 'Upcoming Events', with a 'Read More' button under the 'About' section.

UW Medicine
LABORATORY MEDICINE
& PATHOLOGY

Search this site
Find a laboratory test

ABOUT ▾ JOBS FACULTY & STAFF ▾ FIND TESTS ▾ DIAGNOSTIC SERVICES ▾ EDUCATION ▾ RESEARCH ▾ EVENTS ▾ NEWS ▾ CONTACT

VIEW OUR VIROLOGY LAB'S COVID-19 DASHBOARD
Researchers in the Virology Lab process tests for coronavirus

Academic Programs
Find Tests
Pay Your Bill
Make a Gift

About the Department of Laboratory Medicine & Pathology

The Department of Laboratory Medicine & Pathology is a regional resource for clinical laboratory services required for innovative patient care, research and educational programs. We combine the sophisticated testing and informatics capabilities of fully accredited laboratories with the resources of an academic institution in its delivery of clinical and anatomical pathology services. Recognized for excellence in clinical training, world-class research initiatives, and a commitment to community service, we serve the five-state WWAMI region: WA, WY, AK, MT, and ID.

Read More

IN THE NEWS

Department Highlights

NEWS ▾

CELEBRATING MEDICAL LABORATORY PROFESSIONALS WEEKS APRIL 20 – 26, 2025!

The Department of Laboratory Medicine & Pathology would like to recognize and thank all of our staff during Medical Laboratory Professionals Week!

Upcoming Events

EVENTS & SEMINARS ▾

Lab Med Clinical Research Conference: Emily Helm - Investigating Unexpected Results Upon Implementation of a Newer GP1bM Assay
Wed, May 7, 2:30 p.m.
Magnuson Health Sciences Center Rr (HSRR)

DLMP website integration

The screenshot shows the DLMP website search results for the query 'cbc'. The page title is 'Find a Laboratory Test' and the URL is 'dlmp.uw.edu/test-guide?query=cbc'. The search results table lists 32 results, with the first few rows visible:

Code	Name	Specimen	Comments
CBD	Complete Blood Count w/Differential	Blood	
CBC	Complete Blood Count	Blood	
CBANC	CBC w/absolute Neutrophil	Blood	
TRAUM6	Trauma Panel	Blood	
LVOPD1	Liver Transplant, Outpatient Panel with Differential	Blood	
LVPO6	Liver Transplant Post-Op Panel 6	Blood	
ESP3	Emergency Stroke Panel	Citrated Whole Blood	
LUPOX1	Lung Transplant, Post-Op Extended Panel	Blood	
LVLF2	Liver transplant, Long Term Follow-up	Blood	
LVOPP1	Liver Transplant, Outpatient Panel	Blood	
CBCT	CBC, T Cell Subsets	Blood	
HLPRS	Heart/ Lung Transplant (Pre): Recipient - Stat	Blood	
TRAUP6	Trauma Panel, Pediatric	Blood	

The screenshot shows the detailed view of the 'Complete Blood Count w/Differential' test. The page title is 'Complete Blood Count w/Differential' and the URL is 'dlmp.uw.edu/test-guide/view/CBD'. The page includes a search bar, a navigation menu, and a table of components:

Code	Name
WBC	WBC
RBC	RBC
HB	Hemoglobin
HCT	Hematocrit
MCV	MCV
MCH	MCH

Links to test-specific pages from EHR

CBC with Diff ✓ Accept ✗ Cancel

Reference Links:

- [UW Medicine Lab Test Guide](#)

Frequency:

Starting

For

First Occurrence

Laboratory test catalog features



Obligatory iceberg cliché

Search
Public Test Information

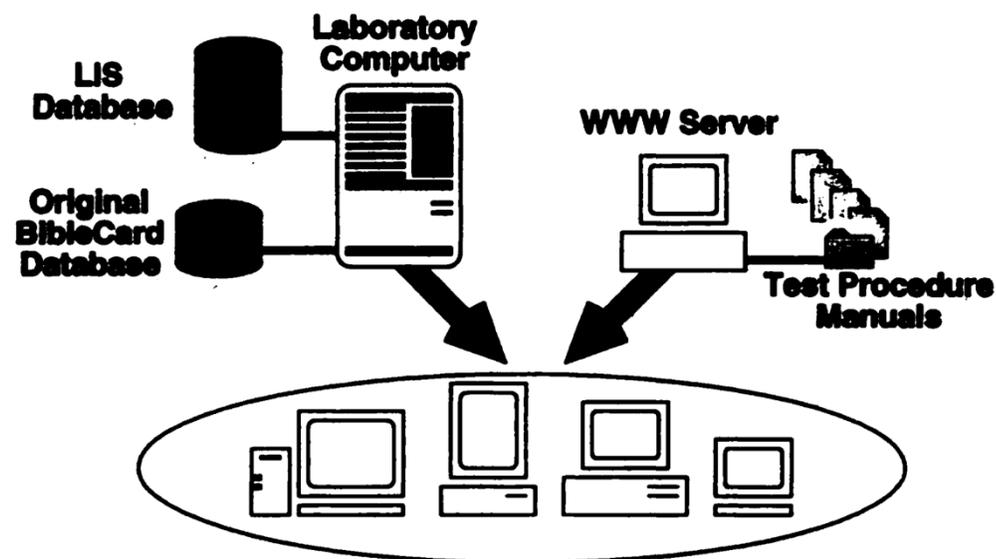
Everything else

Activity or workflow	ordering providers	nursing	reference lab clients	lab directors	lab/path residents	processing/ phlebotomy	client support services	lab staff
Discovery, selection	<input checked="" type="checkbox"/>							
Interpretation	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Customer support					<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ordering instructions, forms	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Specimen collection, handling		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Receiving, stability, processing						<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Interface configuration			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	

History

BibleCard: Network-Based Virtual Database for Laboratory Information

James S. Fine,¹ Aaron K. Ching, Joe B. Schneider, Darcy Pollum, Michael L. Astion



The LIS is from SunQuest Information Systems (Tucson, AZ). Again, all programs are written in MUMPS, and this system operates on a VAX 4000. Data elements appropriate to the BibleCard system residing in the test definition file include test name, test mnemonic, units, collection-tube type, and reference ranges (age- and sex-defined). The database in this system is maintained by the department's programming staff.

X Window. Macintosh. Microsoft Window. Character-based

Fig. 1. BibleCard architecture: three databases with access from four distinct display devices.

Then and now

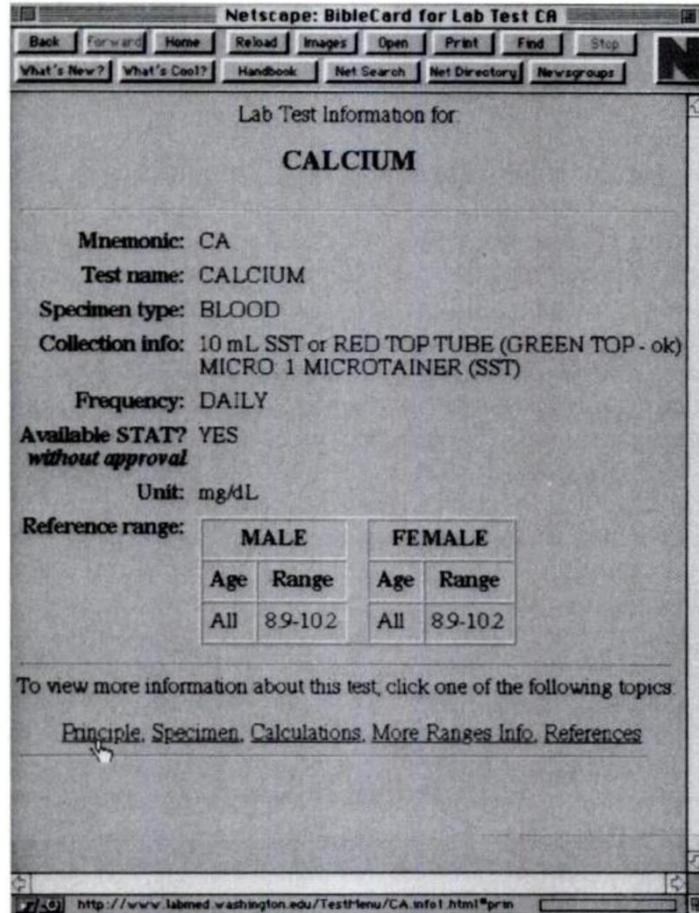


Fig. 4. Laboratory test information concerning calcium as seen through BibleCard.

Calcium

tabbed view

General Information

Lab Name Calcium
Lab Code CA
Epic Name Calcium
Components

Interpretation

Method Spectrophotometric
Reference Units: mg/dL

Range	Female		Male	
	Age	Range	Age	Range
	0-	8.9-10.2	0-	8.9-10.2

Effective date: 03/01/2015

Ordering & Collection

Specimen Type Blood

Collection HMC and UWMC Onsite Locations

- **Preferred:** 4 mL blood in LIME GREEN PST tube
- **Also Acceptable:** 4 mL blood in ORANGE RST, GOLD SST, RED TOP or GREEN TOP tube
- **Pediatric:** 1 Full LIME GREEN MICROTAINER
- **Unacceptable:** GRAY TOP

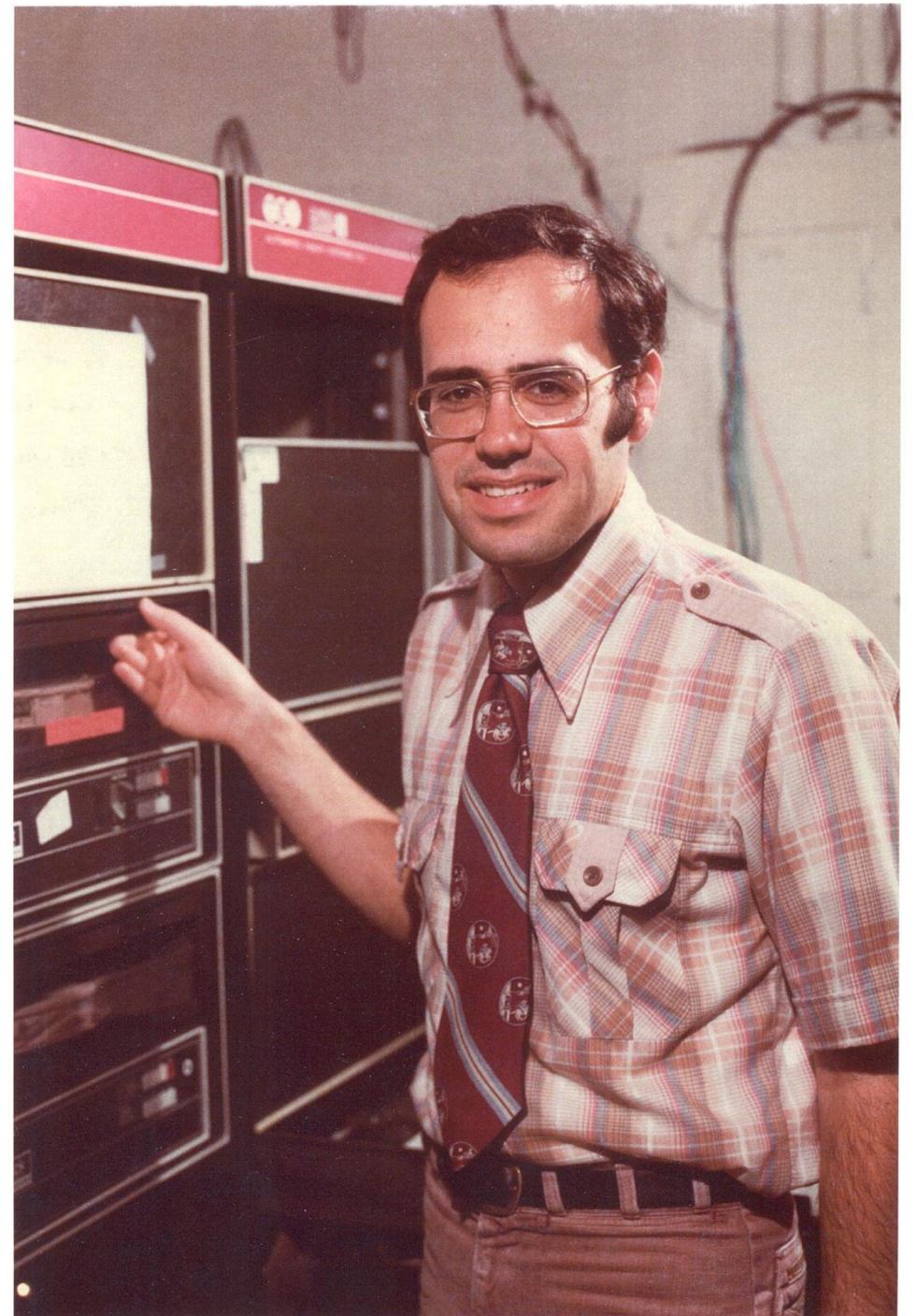
Offsite Clinic or Other Locations

- **Preferred:** 4 mL blood in GOLD SST tube
- **Also Acceptable:** 4 mL blood in ORANGE RST or LIME GREEN PST, RED TOP or GREEN TOP tube
- **Pediatric:** 1 Full LIME GREEN MICROTAINER
- **Unacceptable:** GRAY TOP

An enduring philosophy

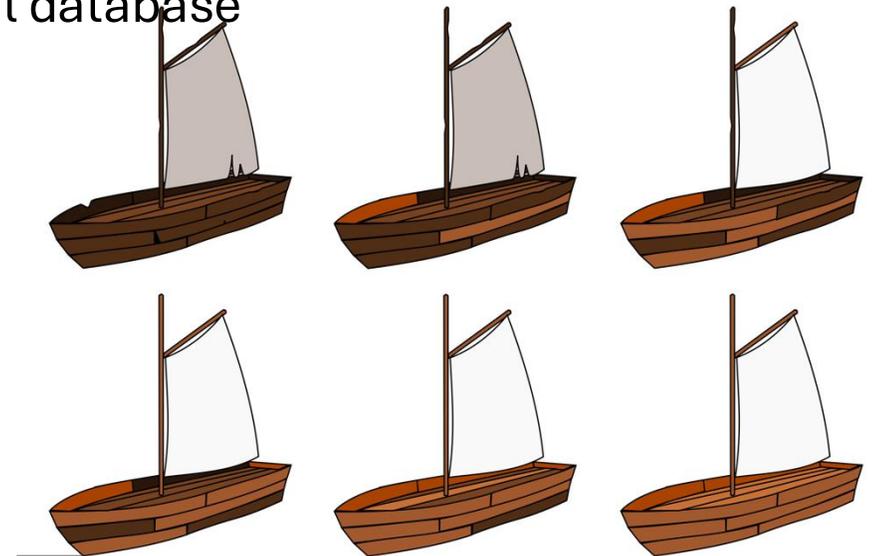
- Address operational needs not supported by the LIS
- Serve both laboratory and external users
- Provide an intuitive search interface
- Avoid duplication of data by aggregating from multiple systems
- Operationalize content management
- Emphasize user experience

James Fine with a PDP-11



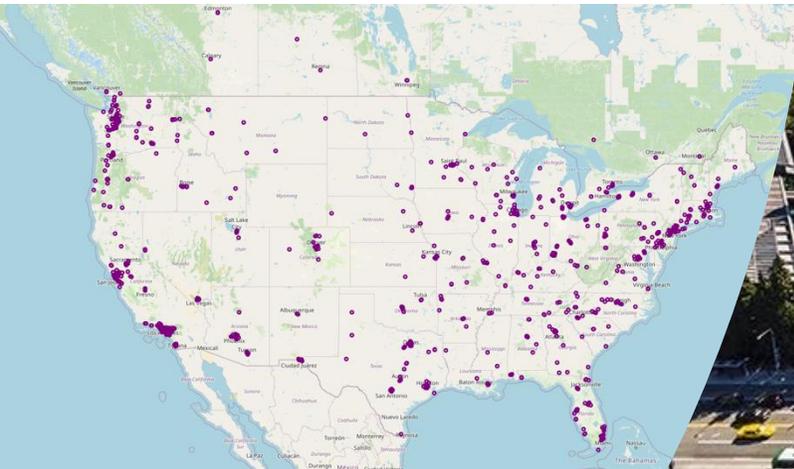
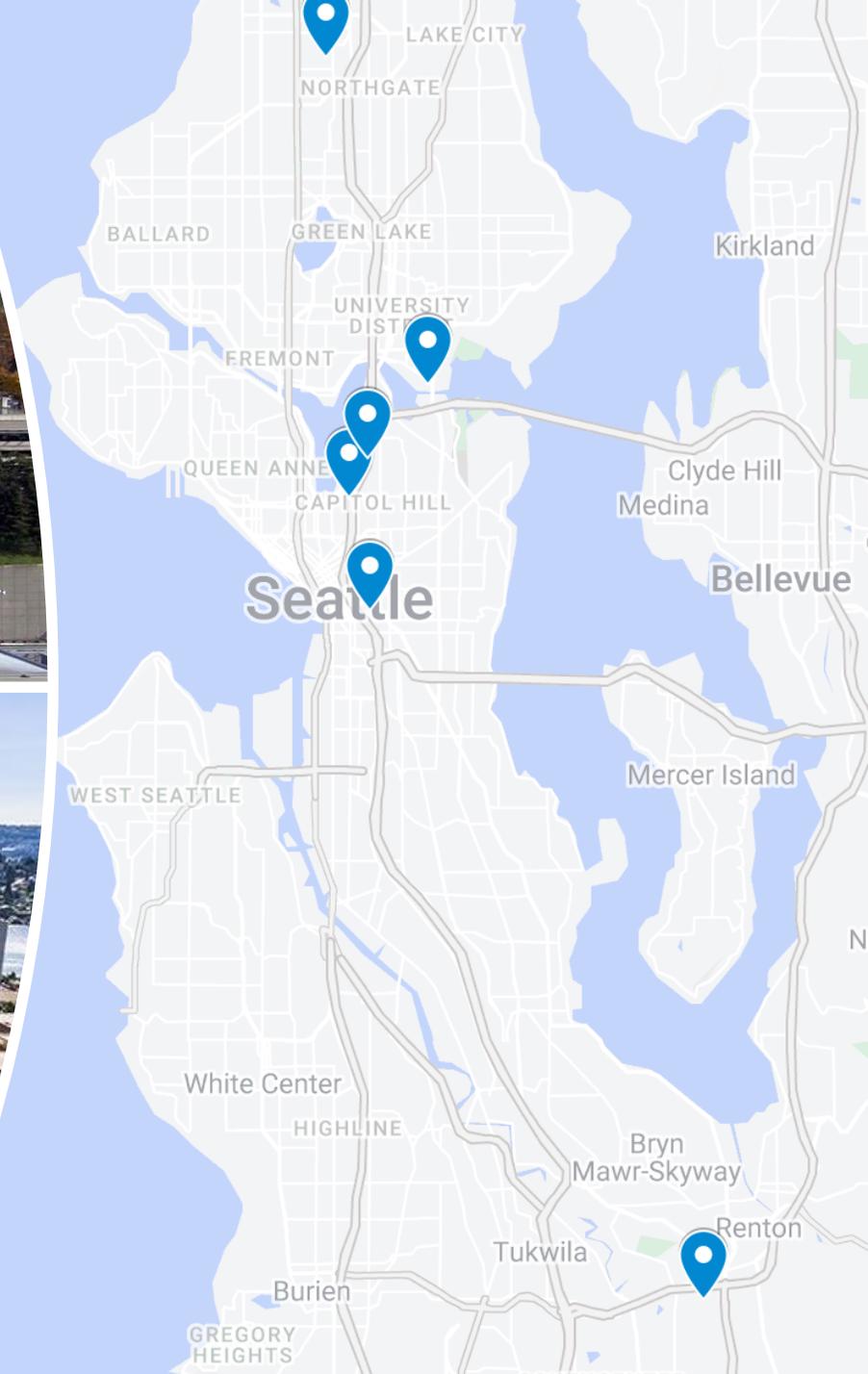
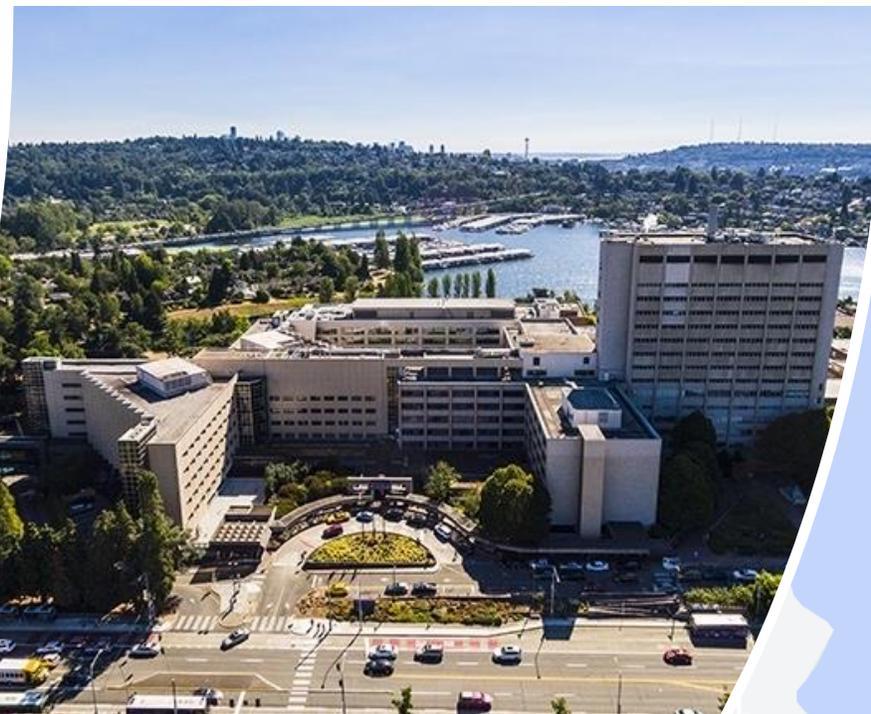
30 years of Online Test Guide (OLTG) History

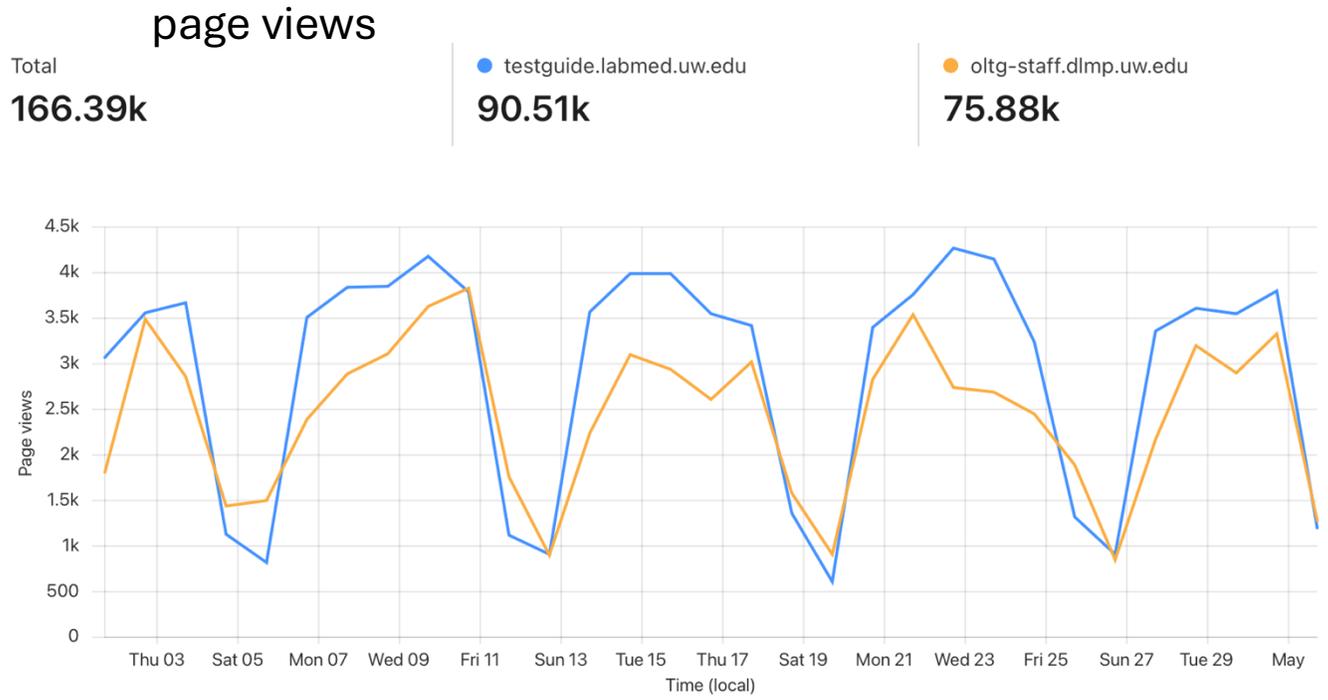
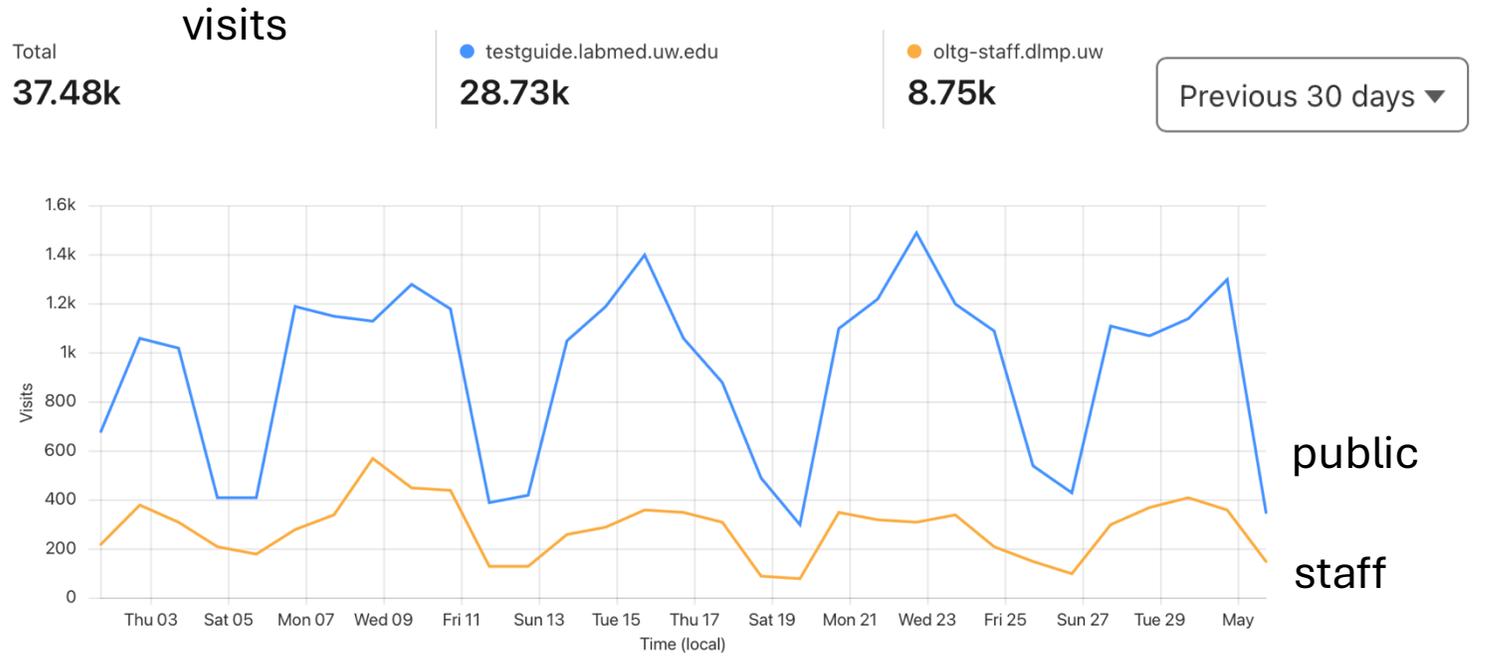
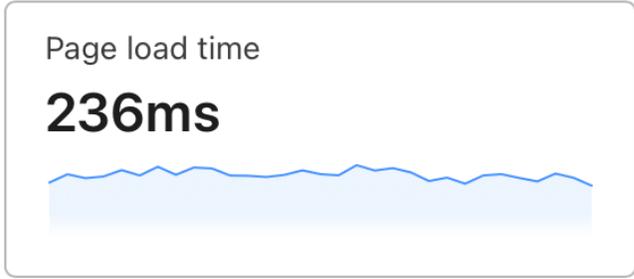
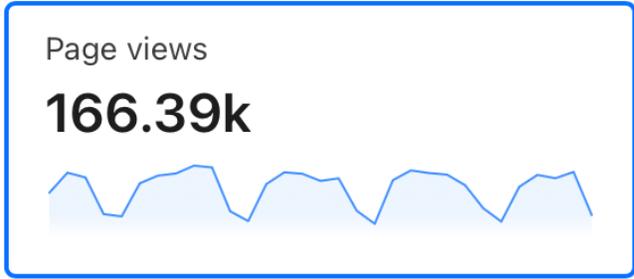
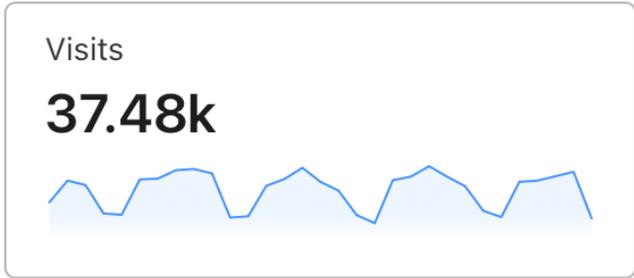
- Central Processing Area (CPA) Bible (ca 1969)
 - Consolidation of processing services and test information
 - Circular file of 5x8 index cards
- “BibleCard” (ca. 1994)
 - “Network-Based Virtual Database for Laboratory Information”
 - Written in MUMPS for Mosaic and Netscape browsers
 - Data shared from Sunquest database
- First modern web application (Dave Chou and Jerry Davis, ca 2002)
 - Consolidation into a single, well-defined schema in a relational database
 - MS-SQL database, IIS/ASP web application
 - Content management process controls
 - Daily import from Sunquest
- LAMP stack rewrite (Tom Ekberg, ca 2011)
 - Python wsgi application, Postgresql
 - Expanded database schema
- Current version (2016 - present)
 - Updated schema with an emphasis on change management



UW Clinical Laboratory Footprint

- **UW Medicine** is the primary academic healthcare system in the 5-state WWAMI region
- 3 hospitals
- Hospital-based and primary care clinic sites throughout Puget Sound
- Fred Hutchinson Cancer Center
- Regional and national outreach testing





Implementation

Language and stack

- Back end

- Python
- Flask web framework
- Postgresql database

- Front end

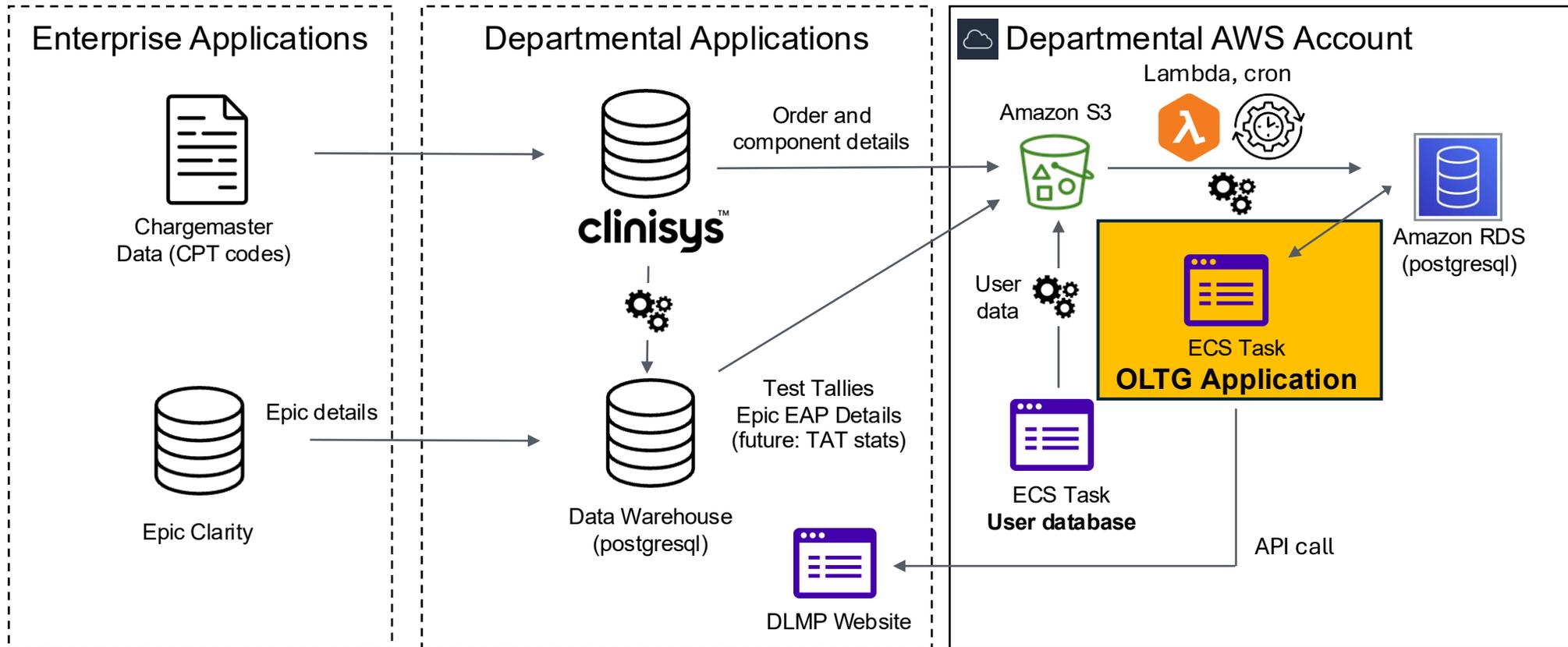
- Bootstrap 5 CSS
- HTMX
- Sprinkles of vanilla javascript

- Hosting

- AWS ECS (Elastic Container Service), RDS (database), S3 (file storage)
- AWS Cognito integration with enterprise SSO (SAML2)



OLTG System Architecture

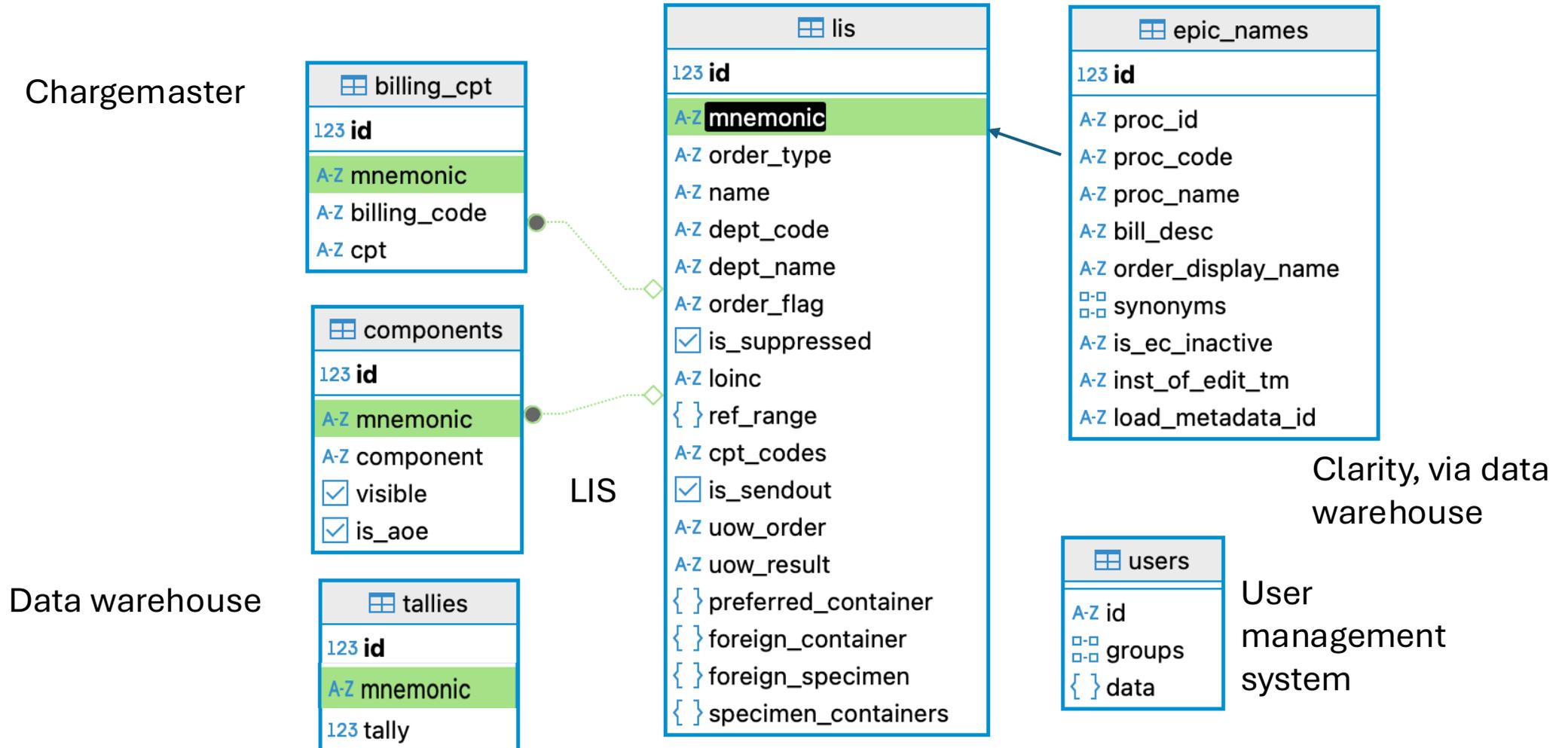


Initially on local infrastructure

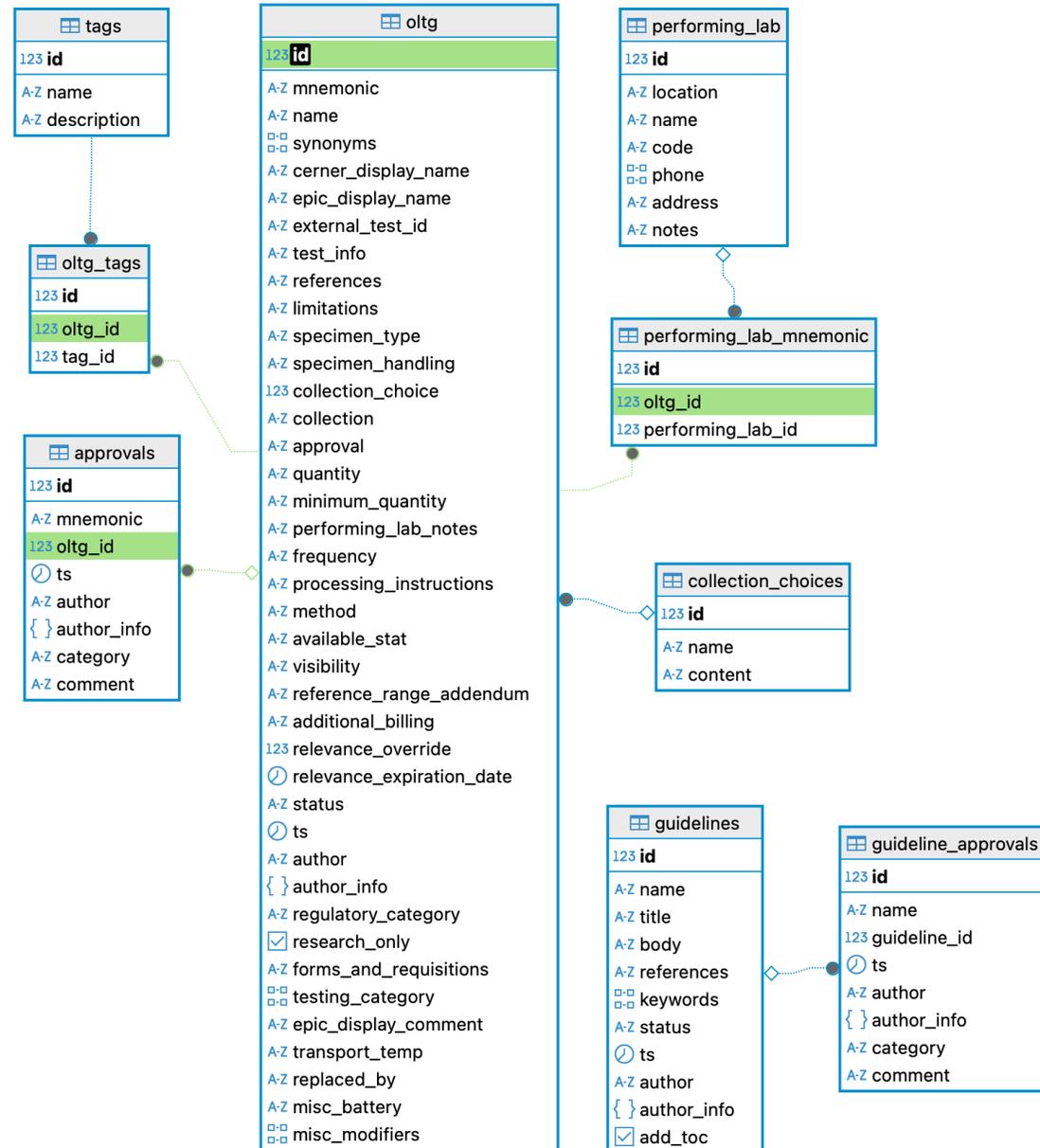
First departmental app migrated to AWS 2018

Move to AWS ECS stack 2022

Data imported from external sources of truth



Manually maintained schema



Our menu extends beyond the LIS

- “Defined” tests
 - correspond to batteries and components defined in the LIS
 - identified by an alphanumeric code
 - May be in-house or sendout
- “Numbered” tests
 - no corresponding record in LIS
 - numeric code (by convention)
 - “undefined” sendouts
 - Portions of the AP catalog
- Guidelines
 - Free-form content
 - Can be linked to one or more test records

Guideline pages provide unstructured content



- [Department Home](#)
- [Licenses & Accreditation](#)
- [Specialty Testing](#)
- [Genetics & Solid Tumors](#)
- [Molecular Hematopathology](#)
- [Flow Cytometry](#)
- [Immunology](#)
- [Molecular Microbiology](#)
- [Red Cell Disorders](#)
- [Virology](#)
- [Specimen Collection](#)
- [Critical Values](#)
- [Notifiable Conditions](#)

Staff Links

- [Staff Only Test Guide](#)

Specialty Testing in Immunology

The Clinical Immunology Laboratory at the University of Washington is a CLIA-certified and CAP-accredited laboratory with more than 40 years of experience performing both routine and esoteric serologic testing. The laboratory is overseen by two board-certified clinical pathologists and two board-certified rheumatologists, who also provide clinical interpretation of test results. The laboratory is staffed by highly trained Medical Laboratory Scientists that are credentialed by the American Society for Clinical Pathology. The laboratory performs a wide range of assays to aid in the diagnosis, management, and monitoring of problems associated with immunological disorders.

Detection of Anti-Merkel Cell Polyomavirus Antibodies

We perform a multiplexed immunoassay that detects and quantifies Merkel cell polyomavirus small T (SmT) oncoprotein antibodies. SmT antibodies are present in the blood of 50% of patients when they have clinically detectable Merkel cell carcinoma (MCC). In patients who make oncoprotein antibodies, titers are expected to decrease significantly within 3 months of successful treatment of MCC. A significant rise in titer or stabilization above 2000 STU may be associated with persistent or recurrent MCC. Select the test below to learn more.

- [Anti Merkel Cell Panel \[AMERK\]](#)

Monoclonal Gammopathy Diagnosis and Monitoring

We offer serum and urine gel electrophoresis and immunofixation to detect, monitor, and quantitate monoclonal gammopathies. We also can perform an immunoshift assay to remove the interference from the therapeutic monoclonal antibody daratumumab when it comigrates with a patient's monoclonal component. Additionally, we offer testing for serum free light chains, total IgA, total IgM, total IgG, and blood/serum/plasma viscosity. Select a test type below to learn more.

- [Protein Electrophoresis Reflexive Panel \[ELPP\]](#)
- [Myeloma, Minimal Residual Protein Detection Panel \[ELPMCP\]](#)
- [Protein Electrophoresis Reflexive Panel, 24hr Urine \[UELPP\]](#)
- [Free Light Chains \[FLC\]](#)
- [Immunoglobulin G \[IGG\]](#)
- [Immunoglobulin A \[IGA\]](#)
- [Immunoglobulin M \[IGM\]](#)
- [Viscosity, Whole Blood \[WBVSG\]](#)
- [Viscosity, Plasma \[PLVISG\]](#)
- [Viscosity, Serum \[SRVISG\]](#)

Autoimmune Testing

Autoimmune Encephalitis Testing Recommendations

Autoimmune encephalitis

Acute and subacute encephalitis are a debilitating group of inflammatory disorders of the brain with a complex differential diagnosis. They often develop as a rapidly progressive encephalopathy, usually in less than 6 weeks, with memory deficits or altered mental status. In the past 10 years, an increasing number of non-infectious, mostly autoimmune, encephalitis cases have been identified. Termed "autoimmune encephalitis", these conditions have a wide variety of clinical manifestations including behavioral and psychiatric symptoms, autonomic disturbances, movement disorders and seizures.

Within the autoimmune encephalitis category, certain subcategories have been associated with specific antibodies, although identification of the specific antibody is not a requirement for diagnosis.

Conventional neurological evaluation and standard diagnostic tests (MRI, CSF, EEG studies) prevail in the initial assessment of autoimmune encephalitis. The presence of CSF pleocytosis (>5 cells per mm³) can also lend support to the diagnosis. Per most recent guidelines, this must be coupled with exclusion of other causes (i.e. toxicology, metabolic, infectious) for a diagnosis of autoimmune encephalitis to be made. The preliminary diagnosis and decision for initiating treatment of autoimmune encephalitis cases are often not dependent on antibody status. The detection of specific autoantibodies aids in the establishment of a definitive diagnosis of autoimmune encephalitis (versus "possible" or "probable" categories).

Tests available

The University of Washington Laboratory Formulary Committee in combination with the Department of Neurology has recommended starting with focused testing strategies (i.e. specific antibodies) if considering these diagnoses.

[NMDA Receptor IgG Antibody with Reflex, CSF \(Sendout\) \[RCNMDA\]](#) is the preferred first-line test for autoimmune encephalitis.

The most common (40-60%) of these disorders is NMDA-receptor autoimmune encephalitis. Anti-NMDA receptor encephalitis is associated with CSF IgG antibodies against the GluN1 subunits of the glutamate NMDA receptor. The disease predominantly affects young individuals (95% younger than 45 years) with a female sex predominance of 4:1. Approximately half of women older than 18 years had an underlying tumor, usually an ovarian teratoma.

[NMDA Receptor IgG Antibody with Reflex, Serum \(Sendout\) \[RNMDAG\]](#) is offered if CSF is unavailable. Serum testing for NMDA-receptor antibodies can have clinical false positives. CSF testing is preferred over serum.

Search

myeloma

within other orders

Guidelines and Recommendations

[Specialty Testing in Immunology](#)
[Thoracic Oncology Reflex \(THOR\) Panel](#)

12 tests matching query "myeloma"

Code	Name	Specimen
ELPP	Protein Electrophoresis Reflexive Panel	Blood
FLC	Free Light Chains	Serum
IFIX	Immunofixation	Blood
ELPMCP	Myeloma, Minimal Residual Protein Detection Panel	Serum
UELPP	Protein Electrophoresis Reflexive Panel, 24hr Urine	Urine
UELPPR	Protein Electrophoresis Reflexive Panel, Random Urine	Urine
UIFXGR	Immunofixation, Random Urine	Urine
UIFIXG	Immunofixation, Urine	Urine
DASHFT	Daratumumab Specific Immunofixation	Serum
423	Neoplasia IFISH [UWMC Cytogenetics and Genomics]	Bone Core, Bone Marrow, Cerebral Spina
543	Neoplasia G-banded Chromosome Analysis and Karyotyping [UWMC Cytogenetics and Genomics]	Bone Core, Bone Marrow, Cerebrospinal I
IFIXNR	Immunofixation, No MD Review	Blood

Guidelines

Defined tests

“Numbered”
mnemonics

Search fields

UW Medicine Laboratory Test Guide

Search

text or code



within other orders

- Order Name
- Order code (mnemonic)
- External test ID (for sendouts)
- Synonyms
- LOINC
- CPT
- Chargemaster billing codes
- UW client interface order and result codes

UW Medicine Laboratory Test Guide

Search within other orders

Guidelines and Recommendations

Red Cell Disorders Laboratory

32 tests matching query "cbc"

Code	Name
CBD	Complete Blood Count w/Differential
CBC	Complete Blood Count
CBANC	CBC w/absolute Neutrophil
TRAUM6	Trauma Panel
LVOPD1	Liver Transplant, Outpatient Panel with Differential
LVPO6	Liver Transplant Post_Op Panel 6
ESP3	Emergency Stroke Panel
LUPOX1	Lung Transplant, Post-Op Extended Panel
LVLTF2	Liver transplant, Long Term Follow-up
LVOPP1	Liver Transplant, Outpatient Panel
CBCT	CBC, T Cell Subsets
HLPRS	Heart/ Lung Transplant (Pre): Recipient - Stat
TRAUP6	Trauma Panel, Pediatric
PEP	Post Exposure Prophylaxis
TR6EHP	Trauma Hemorrhage Panel
CBCDT	CBC, Differential, Smear Evaluation and T Cell Subsets
KBP1	Kidney Transplant, Basic Panel 1
PPRE1	Pancreas Transplant, Pre Recipient Panel 1
HBTHLI	Hb Disorder Thalassemia Reflex Pnl w/CBC
HPO	Heart Transplant, Post_Op Procedure Panel
HPOC1	Heart Transplant (Post_Op Clinic) Panel 1
HPOCO	Heart Transplant, Post_Op Biopsy Panel
IOSHCT	Intraosseous Hematocrit and Hemoglobin
IPO	Intestine Transplant, Post_Op Panel

- Department Home
- Licenses & Accreditation
- Specialty Testing
 - Genetics & Solid Tumors
 - Molecular Hematopathology
 - Flow Cytometry
 - Immunology
 - Molecular Microbiology
 - Red Cell Disorders
 - Virology
- Specimen Collection
- Critical Values
- Notifiable Conditions

Staff Links

Staff Only Test Guide

Display a menu

UW Medicine Laboratory Test Guide

Search within other orders

Search as Show all codes

Guidelines and Recommendations

Red Cell Disorders Laboratory

143 tests matching query "cbc"

Code	Name
CBD	Complete Blood Count w/Differential
CBC	Complete Blood Count
CBANC	CBC w/absolute Neutrophil
TRAUM6	Trauma Panel
LVOPD1	Liver Transplant, Outpatient Panel with Differential
PRIMH	Primate Center Hematology Panel [Orders from Primate Center ONLY]
LVPO6	Liver Transplant Post_Op Panel 6
ESP3	Emergency Stroke Panel
LUPOX1	Lung Transplant, Post-Op Extended Panel
LVLTF2	Liver transplant, Long Term Follow-up
CBCEHP	CBC Hemorrhage Panel
LVOPP1	Liver Transplant, Outpatient Panel
CBCT	CBC, T Cell Subsets
HLPRS	Heart/ Lung Transplant (Pre): Recipient - Stat
TRAUP6	Trauma Panel, Pediatric
CR1004	CR1004_ACTU
PEP	Post Exposure Prophylaxis
VE86	VEU Study Panel 86
TR6EHP	Trauma Hemorrhage Panel
CR5279	Research Corey Panel 5279
VE77	VEU Study Panel 77
CBCDT	CBC, Differential, Smear Evaluation and T Cell Subsets

- Department Home
- Licenses & Accreditation
- Specialty Testing
 - Genetics & Solid Tumors
 - Molecular Hematopathology
 - Flow Cytometry
 - Immunology
 - Molecular Microbiology
 - Red Cell Disorders
 - Virology
- Specimen Collection
- Critical Values
- Notifiable Conditions
- Approved Kit Tests

Staff Links

- Public Test Guide
- Staff Only Search (preview)**
- Guidelines
- Recent Changes
- Canned Queries
- Compendium
- Drafts
- OLTG Instructions
- Performing Labs
- Collection Instructions
- Format References
- URL Report
- Tags
- Review Tests
- New Mnemonic
- Download: [public](#) | [staff](#)

Display a menu

Search results are sorted by order volume

Search

cbc

within other orders

Guidelines and Recommendations

Red Cell Disorders Laboratory

32 tests matching query "cbc"

<u>Tally</u>	Code	Name	Specimen
217761	CBD	Complete Blood Count w/Differential	Blood
144164	CBC	Complete Blood Count	Blood
23891	CBANC	CBC w/absolute Neutrophil	Blood
3321	TRAUM6	Trauma Panel	Blood
2423	LVOPD1	Liver Transplant, Outpatient Panel with Differential	Blood
863	LVPO6	Liver Transplant Post_Op Panel 6	Blood
727	ESP3	Emergency Stroke Panel	Citrated Whole Blood
582	LUPOX1	Lung Transplant, Post-Op Extended Panel	Blood
135	LVLTF2	Liver transplant, Long Term Follow-up	Blood
62	LVOPP1	Liver Transplant, Outpatient Panel	Blood

Content management

CAP requirements for content management

COM.10000 Policy and Procedure Manual

- All Common (edition date 2024-12-26)
- Phase: 2
- Policy/procedure: yes

Requirement

A complete policy and procedure manual is available in a paper-based, electronic, or web-based format at the workbench or in the work area.

▶ expand

GEN.20375 Document Control

- Laboratory General (edition date 2024-12-26)
- Phase: 2
- Policy/procedure: yes

Requirement

The laboratory has a document control system to manage policies, procedures, and forms that are subject to CAP accreditation.

▶ expand

GEN.40050 Distribution of Specimen Collection Manuals

- Laboratory General (edition date 2024-12-26)
- Phase: 1
- Policy/procedure: no

Requirement

The specimen collection manual is available at all locations where specimens are collected.

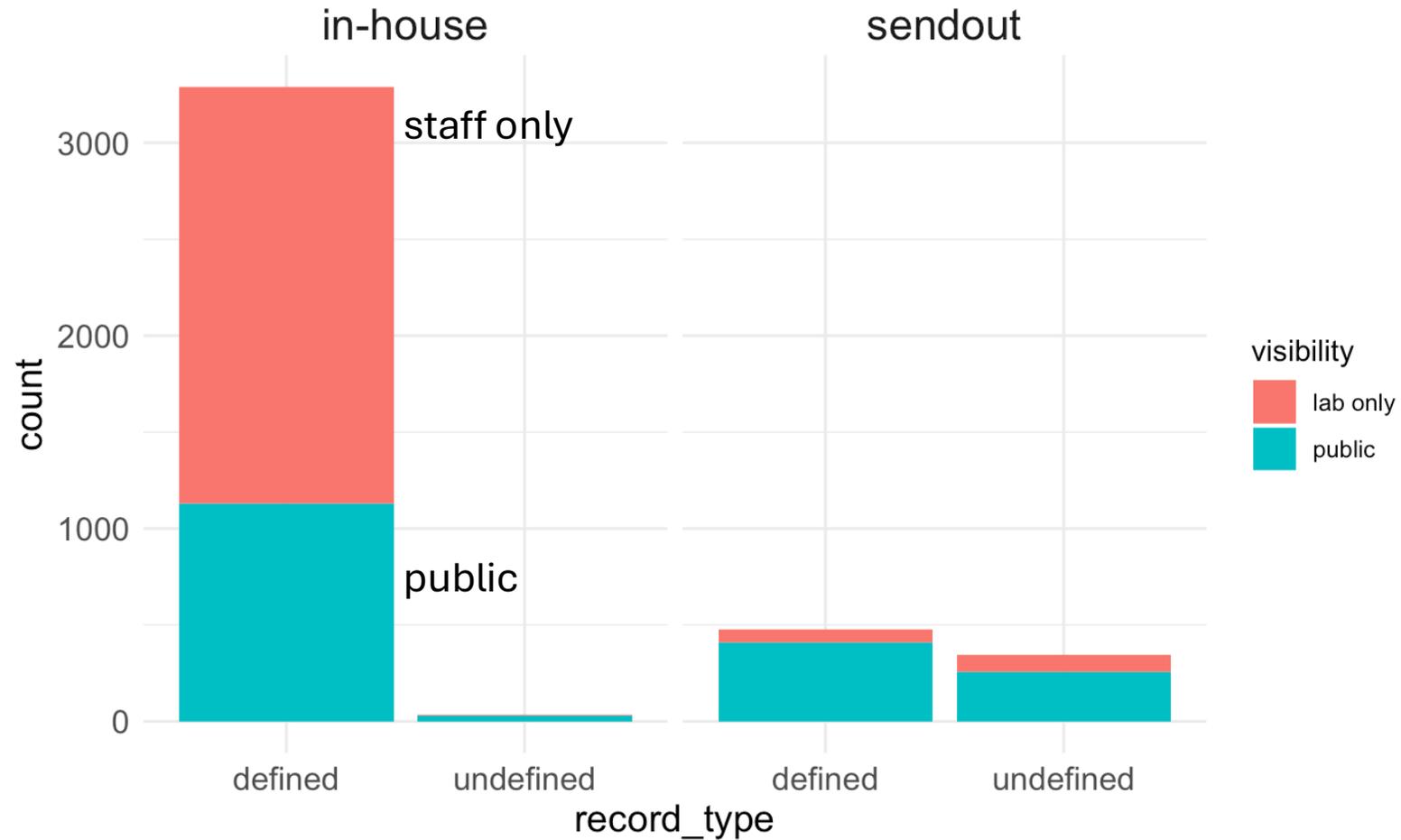
▼ expand

Note

Locations include areas within the hospital (phlebotomy draw stations, nursing stations, operating room, emergency room, endoscopy and interventional radiology, and out-patient areas) and to areas outside of the hospital (eg, physician offices or other laboratories).

It is acceptable for this information to be electronically available to users rather than in print format; there is no requirement for a paper-based specimen collection manual. Electronic manuals have the advantage of more accurately reflecting current requirements.

Mo tests, no problems



(limited to active, orderable tests)

Content management

- Data aggregation from multiple sources
- “Document Control”
 - Authorship, approval, publication workflows
 - Periodic review, content audits
- Structured data
 - Collection instructions
 - Performing labs
 - Tags

Content management actions

UW OncoPlex Cancer Gene Panel

Version 28334 - This is the currently published version - last saved Sep 30, 2024 at 17:46 by greenwj

view other version ▾

compare other version ▾

edit

edit pre-analytical data

publish

delete

approve, review or comment

tabbed view

General Information

Lab Name UW OncoPlex Cancer Gene Panel

Lab Code OPX

Epic Name Order using "UW Genetics and Solid Tumor Test Request"
See [tip sheet](#) for more information (internal link).

Comparison of versions

UW OncoPlex Cancer Gene Panel

Version 28334 - This is the current version

view other version | compare other version | edit | edit pre-analytical data

General Information

- archive: Dec 18, 2017 at 02:04 by unknown (4441)
- draft: Jan 22, 2019 at 08:45 by lwilliam (8972)
- draft: Feb 14, 2019 at 13:09 by asmcfadd (9083)
- archive: Sep 06, 2019 at 09:21 by cpritch (10655)
- archive: Jun 26, 2020 at 11:20 by lwilliam (13942)
- draft: Jul 16, 2020 at 09:22 by lwilliam (14140)
- archive: Jul 16, 2020 at 10:20 by lwilliam (14146)
- archive: Oct 01, 2020 at 16:14 by lwilliam (14787)
- archive: Jan 12, 2022 at 12:30 by konnick (17997)
- archive: Mar 21, 2022 at 19:57 by rkwon2 (18467)
- archive: Mar 22, 2022 at 18:08 by rkwon2 (18493)
- archive: Apr 05, 2022 at 18:08 by rkwon2 (18597)
- archive: Apr 19, 2022 at 13:25 by rgaulin (18670)
- archive: May 31, 2022 at 14:03 by tinalock (18964)
- archive: Nov 01, 2023 at 22:24 by ngh2 (23980)
- archive: Dec 01, 2023 at 15:31 by nkrumm (24414)
- archive: Jun 04, 2024 at 11:40 by tinalock (26793)
- archive: Jun 12, 2024 at 11:12 by tinalock (26850) 
- ★ published: Sep 30, 2024 at 17:46 by greenwj (28334)

Synonyms ABCAT1, ABCAT2, ABCCS, ABLE1, ABLE2, ABRAXAS1, ASXL2, ATM, ATR, ATRX, AURKA, AURKB, AXIN2, A

OPX version 26850 (archive) vs 28334 (published)

version 26850 (archive)	difference	version 28334 (published)
Results within 4-6 weeks, from sample receipt in laboratory.	<p>frequency</p> <p>Typical Turnaround: 4 weeks *Turn around times may vary based on factors such as tissue acquisition and insurance preauthorization.</p> <p>Results within 4-6 weeks, from sample receipt in laboratory.</p>	Typical Turnaround: 4 weeks *Turn around times may vary based on factors such as tissue acquisition and insurance preauthorization.
	ts	
2024-06-12 18:12:15.826329		2024-10-01 00:46:18.487503
	author	
tinalock	greenwj tinalock	greenwj

Modification and approval

Drafts

The most recent drafts saved since the most recently published version are shown below.

OLTG entries

- The **most recent draft** for each page is listed below, in addition to any drafts with approvals or comments.
- Select one or more checkboxes and submit using the button below to publish the **most recent draft** version of each.

Publish Selected

Filter by Performing Lab

Microbiology - HMC [10]

Approved Only

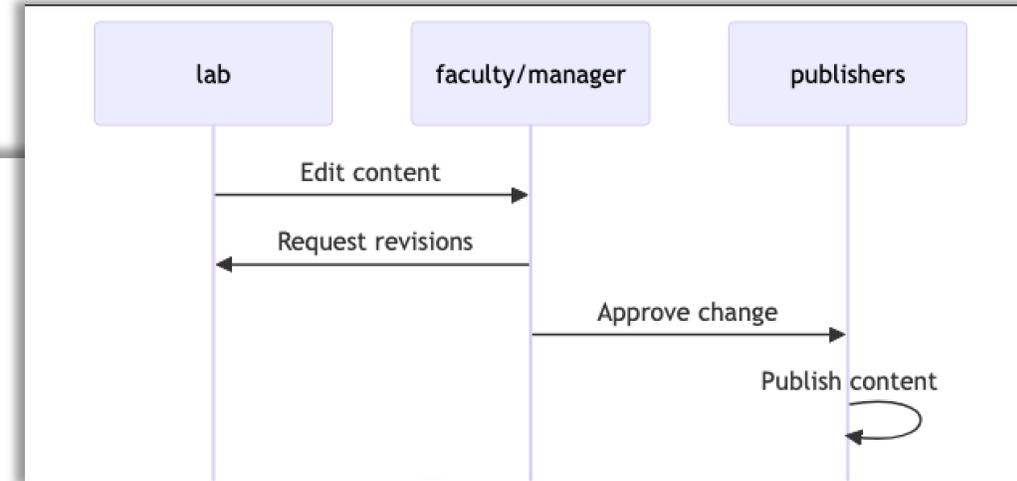
- [NCVRPD | SARS CoV 2 \(COVID 19\) Qualitative Rapid PCR \(ED & Inpatients only\)](#) | Main Lab - UW-NW, Microbiology - UW-MT, Fred Hutch Alliance Lab - FHCC, Microbiology - HMC
 - Version last edited Mar 20, 2025 at 16:31 by **Sarah J Jensen** (sjensen) manager in micro
- [MTBP | Respiratory TB PCR](#) | Microbiology - HMC
 - Version last edited Apr 21, 2025 at 09:57 by **Anju Thomas** (anjuk) mls2 in central_admin
- [MTBPC | Respiratory MTB Complex PCR](#) | Microbiology - HMC
 - Version last edited Apr 21, 2025 at 11:11 by **Anju Thomas** (anjuk) mls2 in central_admin
 - ✓ Apr 22, 2025 at 11:36 **Ferric C Fang** (fcfang) faculty in micro
Comment: *None*
- [RIFPC | \(no title\)](#) | Microbiology - HMC
 - Version last edited Apr 21, 2025 at 12:18 by **Anju Thomas** (anjuk) mls2 in central_admin
 - ✓ Apr 22, 2025 at 11:37 **Ferric C Fang** (fcfang) faculty in micro
Comment: *None*
- [SKINF | Skin, Hair, Nail or Vesicle Fungal Culture with KOH Exam](#) | Microbiology - HMC, Microbiology - UW-MT
 - Version last edited Apr 24, 2025 at 11:58 by **Lynda N Bui** (lyndabui) mls_lead in micro

Guidelines

Approved Only

[blood_collection_tubes](#) | Blood Collection Tubes

- Version [953](#) last edited Apr 02, 2025 at 09:46 by **Anju Thomas** (anjuk) mls2 in central_admin



Approvals

UW OncoPlex Cancer Gene Panel

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[General Information](#) [Interpretation](#) [Ordering & Collection](#) [Processing](#) [Performance](#) [Billing & Coding](#) [Staff Only](#) **Approvals**

Approvals

revision (status)	date	author	role	divisions	category	comment
8972 (draft)	Jan 22, 2019 at 15:57	Lara G Williamson (lwilliam)	compstaff	central_admin, informatics	①	LW: my reviews are complete.
9083 (draft)	Feb 25, 2019 at 10:25	Andrew S McFaddin (asmcfadd)	genetic_counselor	genetics	①	Edits complete and ready for director review
10655 (archive)	Sep 06, 2019 at 09:22	Colin C Pritchard (cpritch)	faculty	genetics	✓	
14140 (draft)	Jul 16, 2020 at 09:22	Lara G Williamson (lwilliam)	compstaff	central_admin, informatics	①	Rewrote bill-only table file's hyperlink to file in MediaLab.
14146 (archive)	Jul 16, 2020 at 10:20	Lara G Williamson (lwilliam)	compstaff	central_admin, informatics	①	Converted inline text instances of "UW-OncoPlex" with UW-OncoPlex™, as approved by email from genetic counselor Angela Jacobson
14787 (archive)	Oct 01, 2020 at 16:14	Lara G Williamson (lwilliam)	compstaff	central_admin, informatics	①	Added GYNPTH, Gynecological Oncology Pathway to synonyms.
17997 (archive)	Jan 12, 2022 at 12:30	Eric Q Konnick (konnick)	faculty	genetics	✓	
17997 (archive)	Mar 02, 2022 at 15:18	Christina M Lockwood (Tina) (tinalock)	faculty	genetics	✓	
18467 (archive)	Mar 22, 2022 at 11:20	Eric Q Konnick (konnick)	faculty	genetics	✓	
18670 (archive)	Apr 19, 2022 at 13:26	Rebecca S Gaulin (rgaulin)	manager	genetics	✓	updated gene names: ZFTA/c11orf95 , H3-3A (aka H3F3A), H3-3B (aka H3F3B), and H3C2 (aka HIST1H3B).
18670 (archive)	May 03, 2022 at 14:39	Christina M Lockwood (Tina) (tinalock)	faculty	genetics	✓	
18964 (archive)	May 31, 2022 at 14:03	Christina M Lockwood (Tina) (tinalock)	faculty	genetics	✓	
26793 (archive)	Jun 04, 2024 at 11:40	Christina M Lockwood (Tina) (tinalock)	faculty	genetics	✓	
26850 (archive)	Jun 12, 2024 at 11:12	Christina M Lockwood (Tina) (tinalock)	faculty	genetics	✓	Updated nomenclature
★ 28334 (published)	Oct 09, 2024 at 16:15	Christina M Lockwood (Tina) (tinalock)	faculty	genetics	✓	Updated TAT

Review Tests

This page may be used to identify records for tests that are in need of review. One or more departments, testing cat selection, place the mouse over the selection, press and hold the Ctrl key then click the left mouse button (and rele

Visibility:

external
internal
hidden
obsolete

Visibility

The Visibility field is maintained by CAST. Each test has only one visibility. The meanings are as follows:

- external - visible to the public
- internal - visible only to staff
- hidden - not normally searchable except by OLTG admins and CAST
- obsolete - tests that are not available.

Only Numbered Tests:

The "Numbered" Tests are defined in the OLTG only and are maintained by CAST. A numbered test has a mnemonic consisting entirely of the digits 0-9.

Choose one or more of the options below: the search will return results meeting any of the selected criteria.

Sunquest Department:

Ambulatory Lab Testing
Blood Bank
Blood Bank -OLD
Central Lab Virology

Lab department

The departments names and corresponding codes originate from Sunquest. The Sunquest 'data dictionary' specifies these in LBI(5) and calls these the department name and the laboratory department code, respectively.

Testing Category:

Chemistry
Coagulation
Genetics
Genetics (Biochemical)

Testing category

Generate a list of tests by category for periodic review

Status	Mnemonic	Name	Dept Name	Lab Name	Category	External Test ID	Reviewed	Reviewer
current	AMBPCR	Acanthamoeba and Balamuthia species PCR	Micro Molecular Diag	Microbiology, Molecular Diagnostics	Phlebotomy		2025-03-26	Stephen J Salipante
current	ASEQID	AFB ID by Sequence Analysis	Micro Molecular Diag	Microbiology, Molecular Diagnostics			2024-10-11	Stephen J Salipante
current	ASPDNA	Aspergillus fumigatus DNA detection by PCR	Micro Molecular Diag	Microbiology, Molecular Diagnostics			2025-03-26	Stephen J Salipante
elapsed	BCTDNA	Bacterial PCR reflex NGS	Micro Molecular Diag	Microbiology, Molecular Diagnostics			2025-03-26	Stephen J Salipante
current	BRTDNA	Bartonella DNA detection by PCR	Micro Molecular Diag	Microbiology, Molecular Diagnostics	Microbiology		2025-03-26	Stephen J Salipante
current	BSEQID	Bacteria ID by Sequence Analysis	Micro Molecular Diag	Microbiology, Molecular Diagnostics			2024-10-11	Stephen J Salipante
current	BWGSID	Bacterial ID by Whole Genome Sequencing	Micro Molecular Diag	Microbiology, Molecular Diagnostics	Microbiology		2024-09-19	Stephen J Salipante
current	COCDNA	Coccidioides DNA detection by PCR	Micro Molecular Diag	Microbiology, Molecular Diagnostics	Immunology		2025-03-26	Stephen J Salipante
current	CRYDNA	Cryptococcus DNA detection by PCR	Micro Molecular Diag	Microbiology, Molecular Diagnostics	Microbiology		2025-03-26	Stephen J Salipante
current	ENBDNA	Enterobacteriales DNA Detection	Micro Molecular Diag	Microbiology, Molecular Diagnostics			2025-03-26	Stephen J Salipante
current	FUNDNA	Fungal PCR reflex NGS	Micro Molecular Diag	Microbiology, Molecular Diagnostics	Microbiology		2025-03-27	Stephen J Salipante
current	HISDNA	Histoplasma DNA detection by PCR	Micro Molecular Diag	Microbiology, Molecular Diagnostics	Microbiology		2025-03-26	Stephen J Salipante
current	LEGDNA	Legionella DNA detection by PCR	Micro Molecular Diag	Microbiology, Molecular Diagnostics	Microbiology		2025-03-26	Stephen J Salipante
current	LSHDNA	Leishmania species DNA detection by PCR	Micro Molecular Diag	Microbiology, Molecular Diagnostics	Microbiology		2025-03-26	Stephen J Salipante
current	MAVDNA	Mycobacterium avium complex DNA Detection	Micro Molecular Diag	Microbiology, Molecular Diagnostics	Microbiology		2025-03-27	Stephen J Salipante
current	MCHDNA	Mycobacterium chimaera DNA detection by PCR	Micro Molecular Diag	Microbiology, Molecular Diagnostics	Microbiology		2025-03-27	Stephen J Salipante
current	MECPCR	mecA by PCR	Micro Molecular Diag	Microbiology, Molecular Diagnostics			2024-09-19	Stephen J Salipante
current	MPLDNA	Mycoplasma and Ureaplasma DNA Detection by PCR	Micro Molecular Diag	Microbiology, Molecular Diagnostics	Microbiology		2025-03-26	Stephen J Salipante
current	MSEQID	Mold ID by Sequence Analysis	Micro Molecular Diag	Microbiology, Molecular Diagnostics			2024-10-11	Stephen J Salipante
current	MTBWGR	MTB Resistance by Whole Genome Sequencing	Micro Molecular Diag	Microbiology, Molecular Diagnostics	Microbiology		2024-09-19	Stephen J Salipante
current	MUCDNA	Mucorales DNA detection by PCR	Micro Molecular Diag	Microbiology, Molecular Diagnostics	Microbiology		2025-03-26	Stephen J Salipante
current	NGS16S	Bacterial detection by 16S NGS	Micro Molecular Diag	Microbiology, Molecular Diagnostics	Microbiology		2025-03-27	Stephen J Salipante
elapsed	NGSENB	Enterobacteriales DNA Detection by Next Gen Seq	Micro Molecular Diag	Microbiology, Molecular Diagnostics	Microbiology		2022-11-22	Stephen J Salipante
elapsed	NGSHSP	hsp65 DNA Detection by Next Gen Seq	Micro Molecular Diag	Microbiology, Molecular Diagnostics			2022-11-23	Stephen J Salipante

Tests requiring review are highlighted

UI for editing includes detailed inline instructions

Save as draft Save and Publish Cancel

Quantity

0.5 mL serum

Minimum Quantity

0.4 mL serum

Transport Temp

Refrigerated

Specimen Handling

B *I*       *I_x* <>

Outside Laboratories: Centrifuge sample and transfer serum to a separate plastic vial. Refrigerate serum.

Stability: Refrigerated (preferred): 10 days; Frozen: 30 days; Ambient: Unacceptable.

Reject Due To: Gross hemolysis, gross lipemia, heat-inactivated specimen.

press shift+return to enter line break

Quantity

Free text

Field shows in *Ordering & Collection* section. ***quantity* field in editing view = *Quantity* field in public view (same in both views).**

Minimum Quantity

Free text.

Field shows in *Ordering & Collection* section. ***minimum_quantity* field in editing view = *Minimum* field in public view.**

Transport Temp

Transport temperature for **outside clients**. This field is used to provide instructions to reference lab clients using the Atlas web portal and is not displayed in the public OLTG.

Specimen Handling

Information for the person sending specimen. Instructions for orders, transport, etc (text, unlimited).

Field shows in *Ordering & Collection* section. ***specimen_handling* field in editing view = *Handling Instructions* field in public view.**

Reducing reliance on free-text content

Home | UW Lab Medicine & Pathology Staff Only

Basic Metabolic Panel

[General Information](#) [Interpretation](#) [Ordering & Collection](#) [Processing](#) [Performance](#) [Billing & Coding](#)

Ordering & Collection

Specimen Type Blood

Collection **HMC and UW-MT Onsite Locations**

- **Preferred:** 4 mL blood in LIME GREEN PST tube
- **Also Acceptable:** 4 mL blood in ORANGE RST, GOLD SST, RED TOP or GREEN TOP (Lithium Heparin)
- **Pediatric:** 1 Full LIME GREEN MICROTAINER
- **Unacceptable:** GRAY TOP or GREEN TOP (Sodium Heparin)

Offsite Clinic or Other Locations

- **Preferred:** 4 mL blood in GOLD SST tube
- **Also Acceptable:** 4 mL blood in ORANGE RST or LIME GREEN PST, RED TOP or GREEN TOP (Lithium Heparin)
- **Pediatric:** 1 Full LIME GREEN MICROTAINER
- **Unacceptable:** GRAY TOP or GREEN TOP (Sodium Heparin)

Handling Instructions **Note:** This battery cannot be added onto a specimen that was received more than 8 hours ago since it contains a CO2 test.

Quantity **requested:** 0.5 mL plasma/serum
minimum: 0.3 mL plasma/serum

Collection

B *I* *I*_x <>

HMC and UW-MT Onsite Locations

- **Preferred:** 4 mL blood in LIME GREEN PST tube
- **Also Acceptable:** 4 mL blood in ORANGE RST, GOLD SST, RED TOP or GREEN TOP (Lithium Heparin)
- **Pediatric:** 1 Full LIME GREEN MICROTAINER
- **Unacceptable:** GRAY TOP or GREEN TOP (Sodium Heparin)

Offsite Clinic or Other Locations

- **Preferred:** 4 mL blood in GOLD SST tube
- **Also Acceptable:** 4 mL blood in ORANGE RST or LIME GREEN PST, RED TOP or GREEN TOP (Lithium Heparin)
- **Pediatric:** 1 Full LIME GREEN MICROTAINER
- **Unacceptable:** GRAY TOP or GREEN TOP (Sodium Heparin)

press shift+return to enter line break

20842	NAK	Sodium & Potassium	Chemistry, Automated Panels	<p>HMC and UW-MT Onsite Locations: Preferred: 4 mL blood in LIME GREEN PST tube Also Acceptable: 4 mL blood in ORANGE RST, GOLD SST, RED TOP or GREEN TOP tube Pediatric: 1 Full LIME GREEN MICROTAINER Unacceptable: GRAY TOP or GREEN TOP (Sodium Heparin)</p> <p>Offsite Clinic or Other Locations: Preferred: 4 mL blood in GOLD SST tube Also Acceptable: 4 mL blood in ORANGE RST or LIME GREEN PST, RED TOP or GREEN TOP tube Pediatric: 1 Full LIME GREEN MICROTAINER Unacceptable: GRAY TOP or GREEN TOP (Sodium Heparin)</p>
23331	BMP	Basic Metabolic Panel	Chemistry, Automated Panels	<p>HMC and UW-MT Onsite Locations</p> <ul style="list-style-type: none"> • Preferred: 4 mL blood in LIME GREEN PST tube • Also Acceptable: 4 mL blood in ORANGE RST, GOLD SST, RED TOP or GREEN TOP (Lithium Heparin) • Pediatric: 1 Full LIME GREEN MICROTAINER • Unacceptable: GRAY TOP or GREEN TOP (Sodium Heparin) <p>Offsite Clinic or Other Locations</p> <ul style="list-style-type: none"> • Preferred: 4 mL blood in GOLD SST tube • Also Acceptable: 4 mL blood in ORANGE RST or LIME GREEN PST, RED TOP or GREEN TOP (Lithium Heparin) • Pediatric: 1 Full LIME GREEN MICROTAINER • Unacceptable: GRAY TOP or GREEN TOP (Sodium Heparin)
22535	BMPICR	Basic Metabolic Panel with Reflexive Ionized Calcium	Chemistry, Automated Panels	<p>HMC, UW-NW, and UW-MT Onsite Locations:</p> <p>Preferred: 4 mL blood in LIME GREEN PST tube Also Acceptable: 4 mL blood in ORANGE RST, GOLD SST, RED TOP or GREEN TOP (Lithium Heparin) tube Pediatric: 1 Full LIME GREEN MICROTAINER Unacceptable: GRAY TOP or GREEN TOP (Sodium Heparin)</p> <p>Offsite Clinic or Other Locations:</p> <p>Preferred: 4 mL blood in GOLD SST tube Also Acceptable: 4 mL blood in ORANGE RST or LIME GREEN PST, RED TOP or GREEN TOP (Lithium Heparin) tube Pediatric: 1 Full LIME GREEN MICROTAINER Unacceptable: GRAY TOP or GREEN TOP (Sodium Heparin)</p> <p><i>Note: Microtainer tubes are acceptable for the BMP only. If an Ionized Calcium is reflexively ordered on a sample from a microtainer, the ionized calcium test will be cancelled and credited. See Microtainer section in Processing section below.</i></p>

Standardized collection instructions can be shared by tests with similar requirements

Collection Choices

New Entry

Click links to view the content of each entry

Search...

- [Automated Chemistry, serum or plasma](#)
- [General Genetics](#)
- [General Genetics_HD_SCA](#)
- [Genetics, cancer tissue, slides or block](#)
- [Genetics gene capture collection](#)
- [GLT, germline testing samples_Genetics](#)
- [Molecular Microbiology - direct specimens](#)

Automated Chemistry, serum or plasma

HMC and UWMC Onsite Locations

- **Preferred:** 4 mL blood in LIME GREEN PST tube
- **Also Acceptable:** 4 mL blood in ORANGE RST, GOLD SST, RED TOP or GREEN TOP tube
- **Pediatric:** 1 Full LIME GREEN MICRO
- **Unacceptable:** GRAY TOP or GREEN Heparin)

Offsite Clinic or Other Locations

- **Preferred:** 4 mL blood in GOLD SST
- **Also Acceptable:** 4 mL blood in ORANGE RST, LIME GREEN PST, RED TOP or GREEN TOP tube
- **Pediatric:** 1 Full LIME GREEN MICRO
- **Unacceptable:** GRAY TOP or GREEN Heparin)

Search...

ALB	Albumin
ALK	Alkaline Phosphatase
ALT	ALT (GPT)

-- no selection --

✓ Automated Chemistry, serum or plasma

General Genetics

General Genetics_HD_SCA

Genetics, cancer tissue, slides or block

Genetics gene capture collection

GLT, germline testing samples_Genetics

Molecular Microbiology - direct specimens

Heparin)

Performing lab database

Performing Labs

[New Performing Lab](#)

Click on name to edit

id	location	name	code	phone	address	notes
15	HMC	Sendout				
16	HMC	Sendout, Cast				
225	Sendout	Adaptive Biotechnologies Laboratory	ADAPTV	888-552-8988	1165 Eastlake Ave E. Seattle, WA 98109	
64	Sendout	Adaptive Biotechnologies [OFFLINE]	ADAPT	888-552-8988	1551 Eastlake Ave E. Ste 200 Seattle, WA 98102	Obsolete 10/2023 due to k
187	Sendout	Altius Institute for Biomedical Sciences		206-267-1096	2211 Elliott Ave Ste 410 Seattle, WA 98121	Email: info@altius.org
65	Sendout	Ambry Genetics	AMBRY	866-262-7943	15 Argonaut Alisa Viejo, CA 92656	
204	Sendout	American Red Cross Immunohematology Reference Laboratory	REDCRS	909-859-7410	100 Red Cross Circle Pomona, CA 91768	Fax: 909-859-7718 Email: PomonalRL@redcro
66	Sendout	Ariosa Diagnostics, Inc. [OFFLINE]	ARIOSAS	855-927-4672	5945 Optical Court San Jose, CA 95138	Now known as BioReferen
212	Sendout	ARUP forwards to Allermatrix Inc.	ARPALL	800-522-2787	400 Sugartree Lane, Suite 510 Franklin, TN 37064	

performed_sendout

- Sendout - Adaptive Biotechnologies Laboratory
- Sendout - Adaptive Biotechnologies [OFFLINE]
- Sendout - Altius Institute for Biomedical Sciences
- Sendout - Ambry Genetics
- Sendout - American Red Cross Immunohematology Reference Laboratory
- Sendout - Ariosa Diagnostics, Inc. [OFFLINE]
- Sendout - ARUP forwards to Allermatrix Inc.
- Sendout - ARUP Forwards to CD Laboratories, Inc. [OFFLINE]
- Sendout - ARUP forwards to Eurofins Viracor
- Sendout - ARUP forwards to NMS Labs
- Sendout - ARUP forwards to Quest Diagnostics Nichols Institute
- Sendout - ARUP forwards to University of Utah Immunodermatology Laboratory
- Sendout - ARUP Inc. at University Hospital
- Sendout - ARUP Laboratories forwards to Quest Diagnostics Infectious Disease
- Sendout - ARUP Laboratories, Inc.
- Sendout - Asuragen, Inc.
- Sendout - Athena Diagnostics
- Sendout - Baylor Miraca Genetics Laboratories, LLC
- Sendout - Billion to One, Inc.
- Sendout - Biochemical Genetics Laboratory, Duke University Medical Center
- Sendout - BloodCenter of Wisconsin Diagnostic Laboratories [OFFLINE]
- Sendout - Bloodworks Northwest
- Sendout - Bloodworks Northwest Central TSL/Immunohematology Reference Laboratory
- Sendout - Bloodworks Northwest Donor Testing Laboratory
- Sendout - Bloodworks Northwest Eastlake Genomics Laboratory

A few features...

Tags

New Tag

Filter..

id (edit)	name (show mnemonics)	description
7	micro.platerounds-include	Mnemonics to always include in plate rounds app
2	mkrpt.category-exclude_pdf	Prevent messages from being routed to pdf-reports from the 1202 interface
8	mkrpt.category-keep_line_breaks	Do not use (replaced by mkrpt.format-keep_line_breaks)
6	mkrpt.category-molmicro_ngs	Molmicro NGS Tests
4	mkrpt.category-no_trim_pfx	Do not trim a common prefix from component names in mkrpt
9	mkrpt.format-keep_line_breaks	Preserve line breaks in result text. Applies to components.
1	mkrpt.template-genetics_ngs	Use the report_genetics_ngs template in mkrpt
3	mkrpt.template-genetics_other	Use the report_genetics_other template in mkrpt
5	pdfreport.cgat-queue	Queues reports for CGAT distribution

“Tags” can be used as groupers for use with external applications

Problem: applications require arbitrary groupers to define testing categories

```
{  
  "pdfreport.cgat-queue": [  
    "BRCA12",  
    "SGN",  
    "CSQTP",  
    "CSQP",  
    "MEGPX",  
    "COSEQ",  
    "KMU",  
    "BROCOP",  
    "BROCA",  
    "BRCAAJ",  
    "CSQTS"  
  ]  
}
```

Tests with tag pdfreport.cgat-queue

Search to select tests to add...

	Code	Name	Specimen
remove	BRCA12	BRCA1&2 Analysis	Peripheral Blood, cultured cells from sk...
remove	BRCAAJ	BRCA1&2 Ashkenazi Mutations	Peripheral Blood, cultured cells from sk...
remove	BROCA	BROCA Cancer Risk Panel	Peripheral Blood, saliva, or purified DN...
remove	BROCOP	BROCA Paired Tumor Panel	Formalin-Fixed Paraffin Embedded Tumor T...
remove	COSEQ	ColoSeq - Lynch and Polyposis Panel	Peripheral Blood or purified DNA from pe...
remove	CSQP	ColoSeq Polyposis	Formalin-Fixed Paraffin Embedded Tumor T...
remove	CSQTP	ColoSeq Tumor Panel	Formalin-Fixed Paraffin Embedded Tumor T...
remove	CSQTS	ColoSeq Tumor Single Gene	Formalin-Fixed Paraffin Embedded Tumor T...
remove	KMU	Known Mutation Testing	Accepted: peripheral blood, saliva, puri...
remove	MEGPX	Megalencephaly Panel	Skin biopsy/Cultured fibroblasts, FFPE T...
remove	SGN	Single Gene Analysis	Peripheral Blood, saliva, or purified DN...

Context-specific processing instructions

- Problem: Many low-volume sendouts are not defined in the LIS. Processing needs very explicit instructions on how to order these. Instructions differ based on specimen type.
- Solution: interactive decision support in the OLTG (ARUP sendouts)

General Information

Lab Name	ARUP Miscellaneous Refrigerated Test (Sendout)
Lab Code	RARUPR
Epic Name	ARUP Miscellaneous Refrigerated Test (Sendout)
External Test Id	0098556
Description	Test Information: Miscellaneous sendout code for ARUP tests sent at refrigerated temperature. This code cannot be used for allergen testing. Ordering Requirements: Laboratory Medicine Resident (LMR) approval is required unless the test is specifically listed in the online test guide.
Synonyms	0098556

Components	Code	Name	Order Type	Notes
	RARURS	Refrigerated Specimen Type, ARUP Miscellaneous	test	
	RARURN	Refrigerated Test Name, ARUP Miscellaneous	test	
	RARURT	Refrigerated Test Code, ARUP Miscellaneous	test	
	RARURR	Refrigerated Result, ARUP Miscellaneous	test	

Ordering a miscellaneous sendout

KIT (D816V) Mutation by ddPCR, Quantitative (Sendout)

single page view

General Information

Interpretation

Ordering & Collection

Processing

Performance

Billing & Coding

Processing

Receiving Instructions Refrigerate whole blood or bone marrow specimen.

Sendouts:

- Order ARUP Test: **3002956**
- Interfaced: **Yes** [Interface: 602, Department: ARPR]

Stability: Refrigerated (preferred): 7 days; Frozen: Unacceptable.

Unacceptable Conditions: Plasma, serum, FFPE tissue blocks/slides, or fresh or frozen tissue. Specimens collected in anticoagulants other than EDTA or sodium heparin. Clotted or grossly hemolyzed specimens.

Misc Sendout Select a specimen type (others not allowed):

- LWBRF - LAV WB, REFRIG
- BMRF - BONE MARROW, REFRIG
- GWBRF - NA GREEN TOP, REFRIG

select specimen type

Misc Sendout

Select a specimen type (others not allowed):

- LWBRF - LAV WB, REFRIG
- BMRF - BONE MARROW, REFRIG
- GWBRF - NA GREEN TOP, REFRIG

Login:

Test Code	Modifier	Description
RARUPR	BMRF	BONE MARROW, REFRIG

Result-at-entry:

detailed instructions for order entry

Component	Enter
RARURN (Test Name)	 copy ;KIT (D816V) Mutation by ddPCR, Quantitative (Sendout)
RARURS (Specimen Type)	 copy BNM
RARURT (ARUP Test Code)	 copy 3002956

Problem: availability during application or network downtime

COM.10000 Policy and Procedure Manual

- All Common (edition date 2024-12-26)
- Phase: 2
- Policy/procedure: yes

Requirement

A complete policy and procedure manual is available in a paper-based, electronic, or web-based format at the workbench or in the work area.

NOTE 6: Procedure manuals must be available to laboratory personnel when the electronic versions are inaccessible (eg, during laboratory information system or network downtime); thus, the laboratory must maintain paper copies, electronic copies on CD or other digital media, or have an approved alternative mechanism to access web-based files during network downtimes. All policies and procedures, in either electronic or paper form, must be readily available for review by the inspector at the time of the CAP inspection.

Staff Links

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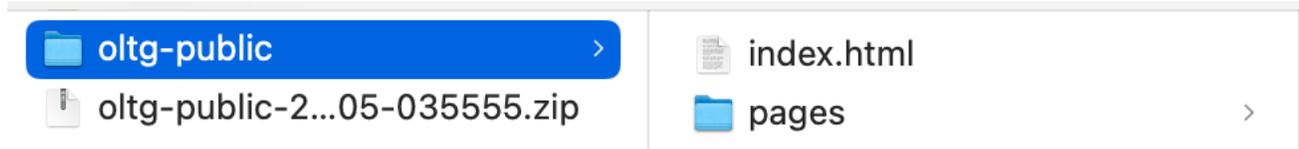
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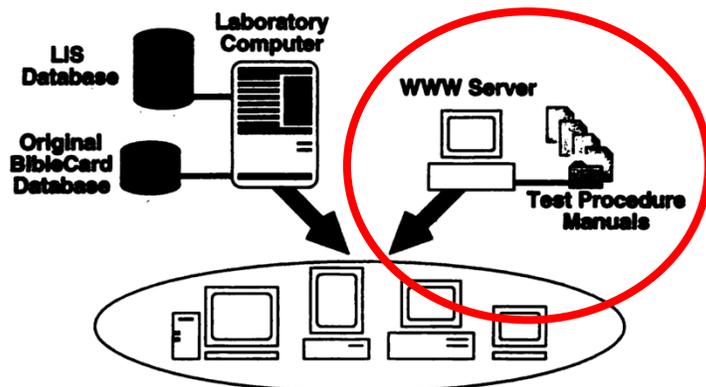
Search Offline Public Test Guide Page created May 05, 2025 at 03:55

Public Test Catalog

This is an offline version of the Online Test Guide created May 05, 2025 at 03:55.

Code	Name	Synonyms
260	Borrelia Species by PCR (Sendout)	0055570, B. burgdorferi DNA detection, Borrelia burgdorferi, Lyme Disease, Lyme Disease PCR, Tick Borne Disease
892	Lyme CNS Infection IgG with reflex to Antibody Index (Sendout)	Borrelia species, LNBAB, Lyme CNS Disease, Neuroborreliosis, Neuroinvasive Lyme Disease
ARNAP3	Anti RNA Polymerase III	RNAP, RNAP3
RLYMES	Lyme Disease Serology w/ Conf (Sendout)	B. burgdorferi, Borrelia burgdorferi, LYME, Lyme C6 Peptide Assay, Lymes, RLYM, Tick, Tick-borne, VlsE1/pepC10 Assay
RLYMIB	Lyme Disease Antibody, Immunoblot (Sendout)	Borrelia burgdorferi, Lyme Disease Antibody, Lyme Disease Antibody Western Blot, Lyme Disease ImmunoBlot Assay, Lyme ImmunoBlot, Lyme Western Blot, Western Blot Assay

Future: integration with procedure manuals



X Window. Macintosh. Microsoft Window. Character-based
Fig. 1. BibleCard architecture: three databases with access from four distinct display devices.

- Content is extracted from procedure manuals
- Selected documents are used as inputs to an LLM along with a prompt.
- Ideas:
 - Generate content for the test catalog from procedure manuals.
 - Provide access to content from procedure manuals directly from OLTG
 - Compare content from both sources for verification.

“Docsearch” Application

Ask a Question or Search Documents

protein electrophoresis

Immunology

• Advanced search options

Search

Feedback

Clear

Performed a keyword search. Please rephrase your query if you would like to ask a question. Hover over links for info.

H/S/K

+/- 11 / 0 / 11

+/- 5 / 0 / 5

+/- 4 / 0 / 4

+/- 4 / 0 / 4

[IMM_42_Protein Electrophoresis by Sebia Procedure](#)

[IMM_174_Electrophoresis and Immunofixation Coded Comments](#)

[IMM_506_HYDRASHIFT 2 4 Daratumumab Immunofixation Electrophoresis by Sebia](#)

[IMM_43_Immunofixation \(IFix\) by Sebia Procedure](#)

Ask a question using the selected documents.

Write a brief description of the indications and interpretation of serum protein electrophoresis for physicians and medical professionals to help guide test selection. Indicate in which circumstances immunofixation will be performed.

Model

gpt-4.1

Combine Documents

Use Entire Document

Answer

Feedback

Serum protein electrophoresis (SPEP) is indicated for the evaluation of suspected monoclonal gammopathies (such as multiple myeloma, Waldenström macroglobulinemia, or amyloidosis), unexplained hyperglobulinemia or hypogammaglobulinemia, monitoring known monoclonal proteins, or investigation of abnormal serum protein levels.

Interpretation:

- In healthy individuals, the serum separates into five regions: albumin, alpha-1, alpha-2, beta, and gamma globulins.
- A normal pattern shows appropriate proportions of each fraction; increased gamma globulin may indicate polyclonal gammopathy (e.g., chronic inflammation), while a sharply defined band (“M spike”) in the gamma or beta region suggests a monoclonal immunoglobulin (M protein).
- Diminished fractions may indicate immune deficiency or protein-losing states.

Reflex to immunofixation:

Immunofixation electrophoresis (IFE) will be performed when a monoclonal protein (“M spike”) is detected or suspected on protein electrophoresis, to determine the immunoglobulin heavy and light chain type (e.g., IgG kappa, IgA lambda). IFE may also be used when SPEP findings are equivocal but clinical suspicion of monoclonal gammopathy remains high.

Key points

- A great deal of operational and technical complexity lies behind a deceptively simple public-facing user interface.
- Maintainability is a central challenge.
- Content management is a core capability.
- Connectivity with external sources of truth is critical for data reliability.

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