THE University of Vermont MEDICAL CENTER

Pathology & Laboratory Medicine

IN THIS ISSUE

New Blood Collection Site Hours

Location	Weekdays Monday - Friday	Weekend Saturday & Sunday
Walk-in Site **Main Campus** ACC Burlington	8:30 am to 5:00 pm	7:00 AM – 3:30 PM
Walk-in Site **UHC Campus** 1 South Prospect Burlington	8:00 am to 4:30 pm	Closed
By Appointment (802) 847-8864 **Fanny Allen Campus** MOB Colchester	7:00 am to 3:30 pm	Closed

Winter in Vermont

Vermont was ranked as having the 6th coldest winters in the country.

The average snowfall is 91.4 inches/year, while the average for the country is 25 inches/year.

It's best to just assume no one else has ever driven in snow before. It's a lot easier that way.

Winter lasts for half the year. There may be four seasons, but no one said they were divided evenly!

It may be cold, but it sure is pretty. Until you see winter in Vermont first hand, you really have no idea how beautiful it can be.

Laboratory Operations

Pediatric Pain Management Tools for Lab Specimen Collection

It is not uncommon for providers to request application of topical anesthetic, or other pediatric pain management tools, prior to performing blood draws on pediatric patients. Please note that UVMMC Laboratory staff cannot provide or apply topical anesthetic directly. Patients will either:

- Need to have their own prescription for topical anesthetic from the requesting physician filled, and apply the anesthetic themselves prior to visiting the Lab
- Need to contact a UVMMC Child Life Specialist, who can supply information and guidance for obtaining topical anesthetic. Please contact Ann Fogel, Child Life Specialist, at 802-847-5879 prior to arrival at the Lab

Important: Pediatric pain management tools for blood draws are only available at the **UVMMC Main Campus Lab**
111 Colchester Avenue Burlington, ACC Orange Level, 2nd Floor
Pediatric pain management tools listed below are available between 8:00 am - 2:20 pm weekdays only.

Babies 6 Months and Younger

- Breast Feeding
- Sweet Ease (24% Sucrose) – Available from nursing staff at The Comfort Zone (ACC West Pavilion, Level 3)

Babies 3 Months and Older

- EMLA Cream (Lidocaine) – Available from nursing staff at The Comfort Zone (ACC West Pavilion, Level 3)

After application of EMLA Cream patients must wait 45-60 minutes before the anesthetic is fully effective. It has caused frustration for pediatric patients who were not expecting this additional wait time. It is important that providers and nursing staff inform patients/ parents/guardians that such a wait is required.

All Ages

Buzzy The Bee: "Vibrating" Bee that is placed "Between the Brain and the Pain." A heel stick warmer can be placed below buzzy to heighten effectiveness. For other procedures the wings can be frozen to numb the area further prior to the draw - Available upon request from Child Life Specialist in the Lab.

Expected Date for Lab Orders Policy

For future lab orders, using the Expected Date is a great way to prompt the patient on when they need to come and have the testing done. UVMMC policy is that future orders are valid 30 days prior to the Expected Date and 90 days after the Expected Date. These limits were set to ensure patients are receiving the testing they need, when they need it.

Having the testing done too early may mean that they have not stabilized after starting a new medication, and having the testing over 90 days after the Expected Date can often mean the testing is no longer necessary and doesn't meet the need for medical necessity.

If a patient arrives at the lab for their sample to be collected outside of this 120 day window, by policy, we will call the ordering provider's office to ensure that the testing should be collected, either earlier or later than the Expected Date window.

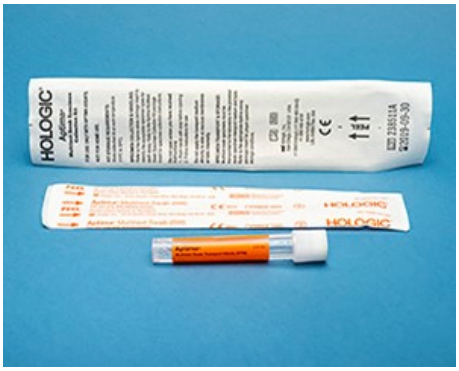
Thank you in advance for your attention to this important lab requirement.

Laboratory Operations

Self-collected Vaginal Samples for Chlamydia and Gonorrhea Testing by PCR

The UVMMC lab will now accept self-collected samples from vaginal sources for Chlamydia/Gonorrhea testing. These samples are collected by the patient following the directions below. This collection is done in a clinic setting only.

These samples should be collected using an Aptima multi-test collection kit pictured below.



Instructions for Using the Aptima® Multitest Swab Specimen Collection Kit for Patient-Collected Specimens:

Patient Information Regarding Self-Collected Specimens

- A self-collected swab is one way to test for sexually transmitted infections (STIs). Other options are available. If you have questions about the self-collected swab, other sample collection options, or about STIs, consult your health care provider.
- Self-collection is an option in clinical settings if you agree to perform the procedure. Counseling from your health-care provider is available for the self-collection procedure.
- Carefully read the swab self-collection instructions below. If you feel you can perform this self-collection procedure and wish to use this method of testing for STIs, inform your health-care provider.
- **Do not take the collection kit or your self-collected specimen out of the clinic.**

General Instructions for All Collection Methods

Carefully follow procedures for reliable results. If you have any questions about any procedure, ask your health-care provider.

- Wash your hands before starting.
- In the privacy of the examination room or restroom, you will need to undress, as necessary. You will need to comfortably position yourself to maintain balance during the collection procedure.
- Open kit package. Remove the swab and the tube. Set the tube aside before beginning instructions below to collect the specimen or specimens requested by your health-care provider.

WARNING: If at any time the contents of the tube are spilled on your skin, wash the affected area with soap and water. If the contents of the tube are splashed in your eyes, immediately flush your eyes with water. Notify your health-care provider if irritation develops. If the contents of the tube are spilled, request a new Aptima Multitest Swab Specimen Collection Kit. Do not take internally.

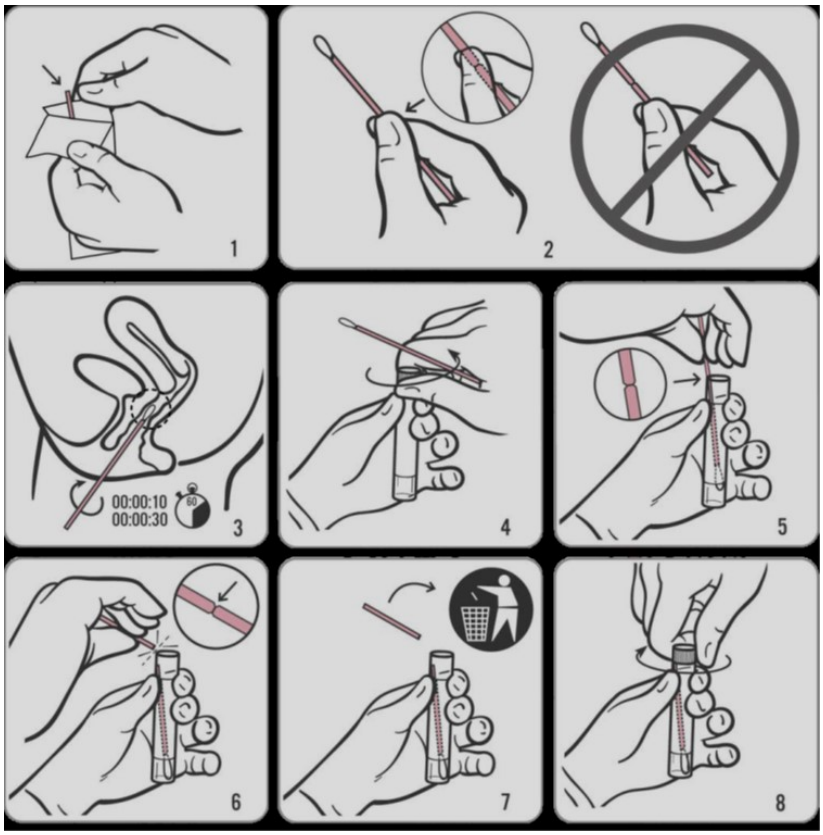
Self-collected Vaginal Samples (Cont.)

Laboratory Operations

Self-collected Vaginal Samples for Chlamydia and Gonorrhea Testing by PCR *(cont.)*

Vaginal Swab Specimen Collection

- **Before proceeding, read the patient information and general instructions above.**
- Partially peel open the swab package as shown in Diagram 1. Remove the swab. *Do not touch the soft tip or lay the swab down. If the soft tip is touched, the swab is laid down, or the swab is dropped, request a new Aptima Multitest Swab Specimen Collection Kit.*
- Hold the swab in your hand as shown in Diagram 2, placing your thumb and forefinger in the middle of the swab shaft covering the score line (black line). *Do not hold the swab shaft below the score line (black line).*
- Carefully insert the swab into your vagina about 2 inches (5 cm) inside the opening of the vagina (as shown in Diagram 3) and **gently rotate the swab clockwise** for 10 to 30 seconds. Make sure the swab touches the walls of the vagina so that moisture is absorbed by the swab and then withdraw the swab without touching the skin.
- While holding the swab in the same hand, unscrew the cap from the tube as shown in Diagram 4. *Do not spill the contents of the tube. If the contents of the tube are spilled, request a new Aptima Multitest Swab Specimen Collection Kit.*
- Immediately place the swab into the transport tube so that the score line (black line) is at the top of the tube as shown in Diagram 5.
- Carefully break the swab shaft at the score line (black line) against the side of the tube as shown in Diagram 6.
- Immediately discard the top portion of the swab shaft as shown in Diagram 7.
- Tightly screw the cap onto the tube as shown in Diagram 8. Return the tube as instructed by your health



Important Information to Consider

- IF YOU ARE PREGNANT, PLEASE INFORM YOUR HEALTH-CARE PROVIDER.
- Before you collect a vaginal swab specimen, inform your health-care provider if you have:
- recent pelvic pain
- pain with sexual intercourse
- unusual vaginal discharge or bad odor

These symptoms can be due to pelvic inflammatory disease (PID). Prompt diagnosis and treatment of PID can help prevent infertility and ectopic pregnancy associated with PID.

Laboratory Operations

Isolator Tubes to be Discontinued as Culture Collection Vials

Due to our manufacturer discontinuing isolator tubes, we are transitioning to a Sodium Heparin tube (Green top) for the collection of Fungal and AFB blood cultures. Sodium Heparin tubes have been added as a valid collection vial for these tests in Epic and in our Joint Test Catalog (JTC). Please collect separate tubes for each test ordered (i.e. 1 tube for blood fungal and 1 tube for blood AFB, if needed). Existing isolator tubes may be used until they expire. Once they have expired, discard and begin using the Sodium Heparin tubes to collect these tests.

Affected Orderable	Epic Code	Atlas Code	Mayo Access ID	Order LOINC
Fungus Culture, Blood	LAB2535	BFC	FAH5266	601-5
AFB Culture, Blood	LAB246	BTC	FAH5267	533-0

Please reach out to the UVMMC Microbiology lab, (802)847-2339, with any questions.

Compliance

Disclosure of Medicare Regulations

Annually, the Laboratory is required by the Office of Inspector General to provide a copy of our "Disclosure of Medicare Regulations" statement to our clients. This disclosure explains Medicare regulations as they pertain to ordering and billing of laboratory tests. Included in the statement is a list of the National and Local Coverage Decision policies as well as Preventive Services Policies. Links to the individual policies can be found on the UVMMC Pathology and Laboratory Medicine webpage under the Compliance Updates header.

Here is the direct link to the "Disclosure of Medicare Regulations":

https://www.medialab.com/dv/dl.aspx?d=2236731&dh=80d98&u=87107&uh=d502f

Please contact Laboratory Compliance Staff with any questions (802) 847-5121.

EXTRA EXTRA*ORDINARY*

CAR-T Cell Therapy is here!

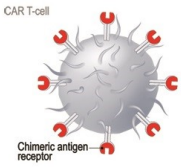
Chimeric antigen receptor (CAR)-T cell therapy uses genetically modified versions of a patient's own T-cells to seek out and attack cancer cells. It can be used to treat certain types of lymphomas, leukemia, and multiple myeloma when chemotherapy or other current treatments fail.

This treatment was approved by the FDA in 2017 and, as of November 2022, there were six FDA approved therapies.

Beginning this spring, the cancer center at UVMMC, which is home to the only cancer program in Vermont and northern New York, will roll out this innovative, new treatment!

Find out more about CAR-T Cell therapy at UVMMC here:
UVMMC and Cancer Center unveil CAR-T cell therapy cancer treatment (mynbc5.com)

UVM Cancer Center rolls out custom-made immunotherapy - VTDigger



Annual Note to Pap Test Providers

Accredited laboratories are required to remind providers at least annually of the screening nature of the Pap Test. The University of Vermont Medical Center's Department of Cytopathology has elected to send an advisory in the form of this single communication, rather than an educational note appended to every negative Pap report emanating from the laboratory. As such, we would like to remind you that:

The Pap Test is a screening test with an inherent but low false negative rate. Regardless of the result, patients should consult you immediately if they have any suspicious signs or symptoms.

PAP AND HPV TESTING

In order to appropriately test and charge for Pap testing, our laboratory requires that **all** Pap test orders be identified as screening or diagnostic. This is to help ensure your patients do not receive bills for covered services.

- Screening: Routine exam, no current symptoms, no previous abnormal findings
- Diagnostic: Previous abnormal Pap findings, signs or symptoms, or has significant complaints related to the female reproductive system

High Risk (HR) HPV Testing

Our high risk HPV reflex algorithm is based on the ASCCP guidelines found at https://www.asccp.org/guidelines

Current HPV Testing Pathways:

For **screening and diagnostic testing**, HPV testing options are:

- **Regardless of Diagnosis (Co-Test)**
  - ◊ HR HPV screen will always be performed
- **Regardless of Diagnosis (Co-Test) reflex to Genotype if HPV positive**
  - ◊ HR HPV screen will always be performed and will reflex to genotyping for HPV 16 & HPV18-45 if the HR screen is positive
- **If ASCUS Pap Diagnosis No Genotyping**
  - ◊ HR HPV screen will be performed if the Pap test diagnosis is Atypical Squamous Cells
- **If ASCUS Pap Diagnosis Reflex to Genotyping if HPV Positive**
  - ◊ HR HPV screen will be performed if the Pap test diagnosis is Atypical Squamous Cells and will reflex to genotyping for HPV 16 & HPV18-45 if the HR screen is positive
- **None**

Please note that HPV testing options listed above may be outside of recommended ASCCP guidelines

- HPV testing for ASCUS diagnoses is intend for patients 25-29 and genotyping is not recommended.
- Medicare patients 65 years or older are NOT eligible for HPV testing on screening Pap tests.
- HPV Regardless of Diagnosis (Co-Test) is intend for patients 30 to 65

There are other indications for HPV testing that are not covered by these reflex criteria. To add on an HPV order, please fax the request to 802-847-3632.

If the sample source is Vaginal and HPV testing is ordered, the sample will be sent to Mayo Clinical Laboratories, as UVMMC has not validated HPV testing on this specimen type. If the sample source is Anus, HPV testing will not be performed in accordance with the FDA.

Please contact Scott Anderson, MD, Medical Director, Cytopathology (802) 847-5136 with questions.

New Test Updates

Update to Unusual Fecal Pathogen Culture

Important information has been added to the UVMMC Joint Test Catalog (JTC) regarding requests for the Unusual Fecal Pathogen Culture, which states: “The vast majority of causes of bacterial gastroenteritis in our region will be detected using the Fecal Bacterial Pathogens by PCR test. Culture for unusual pathogens is only appropriate if there is concern for Aeromonas, Plesiomonas, Yersinia, or Vibrio species.” Requests for an unusual pathogens culture *will not be performed* without a prior PCR test for bacterial pathogens that is *negative for all targets within the last 7 days*.

Initial testing to be performed:

Orderable Test Name	Epic Code	Atlas Code	Mayo Access ID
Fecal Bacterial Pathogens by PCR	LAB3625	FECBD	FAH5693

FECAL BACTERIAL PATHOGENS BY PCR - University of Vermont Medical Center Laboratory Test Catalog

Follow-up testing:

Orderable Test Name	Epic Code	Atlas Code	Mayo Access ID
Unusual Fecal Pathogen Culture	LAB3626	FECCX	FAH5698

UNUSUAL FECAL PATHOGEN CULTURE - University of Vermont Medical Center Laboratory Test Catalog

Mayo Test Changes for UVMMC

Effective 1/31/23, the following defined Mayo tests were updated to reflect changes at Mayo:
The resultable, "Reflex Added", was removed from this battery and the new resultable, "IFA Notes", was added.

Orderable Edited	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code
Paraneoplastic Autoantibody Eval, S	LAB2367	PAES	PAVAL	43104-9	83519, 86596, 86255x9
Result Component Name	**Epic Code**	**Atlas Code**	**Mayo Test ID**	**LOINC**	**Notes**
Interpretive Comments	12301006623	M29347	29347	57771-8	already defined
IFA Notes	12301020017	M618905	618905	in process	**New**
Amphiphysin Ab, S	12301000680	M81722	81722	94340-7	already defined
AGNA-1, S	12301000676	M89080	89080	94341-5	already defined
ANNA-1, S	12301000672	M80150	80150	94342-3	already defined
ANNA-2, S	12301000674	M80776	80776	94343-1	already defined
ANNA-3, S	12301000675	M83137	83137	94344-9	already defined
CRMP-5 IgG, S	12301000685	M83077	83077	94815-8	already defined
Neuronal (V-G) K+ Channel Ab, S	12301000666	89165	89165	94816-6	already defined
P/Q Type Calcium Channel Ab	12301000682	M81185	81185	94349-8	already defined
PCA-1, S	12301000677	M9477	9477	94350-6	already defined
PCA-2, S	12301000678	M83138	83138	94351-4	already defined
PCA-Tr, S	12301000679	M83076	83076	94352-2	already defined
Reflex Added	12301000673	M36349	36349	77202-0	**Removed**

Mayo Test Changes for UVMMC (cont.)

New Test Updates

Mayo Test Changes for UVMMC (cont.)

The resultable, "Reflex Added", was removed from this battery and the new resultable, "IFA Notes", was added.

Orderable Edited	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code
Paraneoplastic Autoantibody Eval, CSF	LAB3239	PAEC1	PAC1	94818-2	86255x9
Result Component Name	**Epic Code**	**Atlas Code**	**Mayo Test ID**	**LOINC**	**Notes**
Paraneoplastic Interpretation, CSF	123010065527	M34271	34271	69048-7	already defined
IFA Notes	12301020016	M619519	619519	48767-8	**New**
Amphiphysin Ab, CSF	12301001062	M5906	5906	94354-8	already defined
AGNA-1, CSF	12301001058	M89079	89079	94355-5	already defined
ANNA-1, CSF	12301001054	M3852	3852	94356-3	already defined
ANNA-2, CSF	12301001056	M7472	7472	94357-1	already defined
ANNA-3, CSF	12301001057	M21633	21633	94358-9	already defined
CRMP-5 IgG, CSF	12301001063	M21650	21650	94706-9	already defined
PCA-Tr, CSF	12301001061	M21631	21631	94362-1	already defined
PCA-1, CSF	12301001059	M3988	3988	94363-9	already defined
PCA-2, CSF	12301001060	M21632	21632	94364-7	already defined

Reflex Added	12301000673	M36429	36429	77202-0	**Removed**

Reflex-Only Tests Inactivated	Epic Code	Atlas Code	Mayo Test ID
AMPA-R Ab, CBA, CSF	LAB14023	N/A	AMPCC
CASPR2 IGG, CBA, CSF	LAB10839	N/A	CS2CC
MGLUR1 Ab IFA, CBA, CSF	LAB14079	N/A	GL1IC
LGI1 IGG, CBA, CSF	LAB10838	N/A	LG1CC
NMDA-R Ab, CBA, CSF	LAB14018	N/A	NMDCC

PATIENT INSTRUCTION BROCHURES

We have several brochures for patients that need to collect samples at home. The following are available on online by visiting UVMHealth.org/MedCenterLabServices or you can contact Lab Customer Service to receive some via mail.

- Feces Sample Collection
- Fecal Occult Blood Collection
- Sputum Sample Collection
- Urine Sample Collection

New Test Updates

Mayo Test Changes for UVMMC (cont.)

The resultable. "Reflex Added", was removed from this battery. In addition, 3 new resultables were added: "IFA Notes", "Neurochondrin IFA, S.", and "Septin-7 IFA, S."
The CPT codes were also updated from 86341 and 86255x19 to **86341 and 86255x21**.

Orderable Edited	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code
Encephalopathy Autoimmune Eval, S.	LAB3694	ENAES2	ENS2	94697-0	**86341, 86255x21**
Result Component Name	**Epic Code**	**Atlas Code**	**Mayo Test ID**	**LOINC**	**Notes**
Encephalopathy Interpretation, S	12301000664	M34257	34257	69048-7	already defined
IFA Notes	12301019975	M618896	618896	48767-8	**New**
AMPA-R Ab, CBA, S	12301000671	M61518	61518	93489-3	already defined
Amphiphysin Ab, S	12301000680	M81722	81722	94340-7	already defined
AGNA-1, S	12301000676	M89080	89080	94341-5	already defined
ANNA-1, S	12301000672	M80150	80150	94342-3	already defined
ANNA-2, S	12301000674	M80776	80776	94343-1	already defined
ANNA-3, S	12301000675	M83137	83137	94344-9	already defined
CASPR2 IgG CBA, S	12301000668	M64281	64281	94285-4	already defined
CRMP-5 IgG, S	12301000685	M83077	83077	94815-8	already defined
DPPX Ab IFA, S	12301006900	M64930	64930	82976-2	already defined
GABA B R Ab CBA, S	12301000670	M61519	61519	93428-1	already defined
GAD65 Ab Assay, S	12301000669	81596	81596	94345-6	already defined
GFAP IFA, S	123010006901	MGFAPS	605155	94346-4	already defined
IgLON5 IFA, S	123010011241	M606946	606946	96476-7	already defined
LGI1 IgG CBA, S	12301000667	M64279	64279	94287-0	already defined
mGluR1 Ab IFA, S	12301006902	M64928	64928	94347-2	already defined
Neurochondrin IFA, S	12301019976	M615867	615867	in process	**New**
NIF IFA, S	123010011242	M606964	606964	96486-6	already defined
NMDA-R Ab CBA, S	12301000665	M61516	61516	93503-1	already defined
PCA-1, S	12301000677	M9477	9477	94350-6	already defined
PCA-2, S	12301000678	M83138	83138	94351-4	already defined
PCA-Tr, S	12301000679	M83076	83076	94352-2	already defined
Septin-7 IFA, S	12301019977	M615875	615875	in process	**New**

Reflex Added	12301000673	M36349	36349	77202-0	**Removed**

New Test Updates

Mayo Test Changes for UVMMC (cont.)

The resultable. "Reflex Added", was removed from this battery. In addition, 3 new resultables were added: "IFA Notes", "Neurochondrin IFA, CSF", and "Septin-7 IFA, CSF"
The CPT codes were also updated from 86341 and 86255x19 to **86341 and 86255x21**.

Orderable Edited	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code
Encephalopathy Autoimmune Eval, CSF	LAB3710	ENAEC2	ENC2	94708-5	**86341, 86255x21**
Result Component Name	**Epic Code**	**Atlas Code**	**Mayo Test ID**	**LOINC**	**Notes**
Encephalopathy Interpretation, CSF	12301001046	M34256	34256	69048-7	already defined
IFA Notes	12301020013	M618895	618895	48767-8	**New**
AMPA-R Ab, CBA, CSF	12301001053	M61514	61514	93491-9	already defined
Amphiphysin Ab, CSF	12301001062	M5906	5906	94354-8	already defined
AGNA-1, CSF	12301001058	M89079	89079	94355-5	already defined
ANNA-1, CSF	12301001054	M3852	3852	94356-3	already defined
ANNA-2, CSF	12301001056	M7472	7472	94357-1	already defined
ANNA-3, CSF	12301001057	M21633	21633	94358-9	already defined
CASPR2 IgG CBA, CSF	12301001050	M64282	64282	94286-2	already defined
CRMP-5 IgG, CSF	12301001063	M21650	21650	94706-9	already defined
DPPX Ab IFA, CSF	7191	M64929	64929	82989-5	already defined
GABA B R Ab CBA, CSF	12301001052	M61515	61515	93426-5	already defined
GAD65 Ab Assay, CSF	12301001051	M21702	21702	94359-7	already defined
GFAP IFA, CSF	7192	M605156	605156	94360-5	already defined
IgLON5 IFA, CSF	123010011246	M606947	606947	96479-1	already defined
LGI1 IgG CBA, CSF	12301001049	M64280	64280	94288-8	already defined
mGluR1 Ab IFA, CSF	7193	M64927	64927	94361-3	already defined
Neurochondrin IFA, CSF	12301020014	M615866	615866	in process	**New**
NIF IFA, CSF	123010011247	M606965	606965	96490-8	already defined
NMDA-R Ab CBA, CSF	12301001047	M31513	61513	93502-3	already defined
PCA-Tr, CSF	12301001061	M21631	21631	94362-1	already defined
PCA-1, CSF	12301001059	M3988	3988	94363-9	already defined
PCA-2, CSF	12301001060	M21632	21632	94364-7	already defined
Septin-7 IFA, CSF	12301020015	M615874	615874	in process	**New**

Reflex Added	12301000673	M36429	36429	77202-0	**Removed**

For questions or concerns, please contact UVMMC Lab Outreach at laboutreach@uvmhealth.org.

Previously Distributed Test Updates

Chemistry

Specimen Stability Change for Therapeutic Drug Monitoring Tests

Effective December 5, 2022. UVMMC's Chemistry Laboratory updated the refrigerated sample stability ***from 7 days to 2 days*** for the following tests: Carbamazepine, Phenobarbital, Phenytoin, and Theophylline.

Orderable Name	Epic Code	Atlas Code	Mayo Test ID	Order LOINC
Carbamazepine	LAB21	CARBAM	FAH5780	3432-2
Phenobarbital	LAB30	PHNOB2	FAH5783	3948-7
Phenytoin	LAB176	PHENY2	FAH5782	3968-5
Theophylline	LAB35	THEOP	FAH5784	4049-3

This is due to a necessary change of manufacturer for gel-separation blood tubes due to supply chain challenges. UVMMC performed an in-house sample stability study on the new gel-separation blood tubes and determined that 2 days (48 hours) was optimal.

If you have any questions or concerns, please reach out to the medical director of clinical chemistry, Dr. Clayton Wilburn, at (clayton.wilburn@uvmhealth.org).

Flow Cytometry

UVMMC CD19 CD20 Panel is NYS Approved

Effective 11/3/22, the UVMMC Flow Cytometry Laboratory began accepting CD19 CD20 Panel (LAB329) testing originating from New York. This means that these flow cytometry samples no longer need to be sent to Mayo Medical Laboratories to be performed.

Orderable Name	Epic Code
CD19 CD20 Panel	LAB329

For more information regarding this testing, please refer to our Joint Test catalog: CD19 CD20 PANEL - University of Vermont Medical Center Laboratory Test Catalog.

Mayo Test to be replaced by UVMMC's CD19 CD20 Panel:

Mayo Test ID	Mayo Test Name
CD20B	CD20 on B Cells, Blood

Please reach out to the Medical Director of Flow Cytometry at Katherine.Devitt@uvmhealth.org with questions or concerns about this change.

Previously Distributed Test Updates

Flow Cytometry

UVMMC Leukemia/Lymphoma Panel is NYS Approved

Effective 9/28/22, the UVMMC Flow Cytometry Laboratory began accepting Leukemia/Lymphoma Panel (LAB9911) testing originating from New York. This means that these flow cytometry samples no longer need to be sent to Mayo Medical Laboratories to be performed.

Orderable Name	Epic Code
Leukemia/Lymphoma Panel by Flow Cytometry	LAB9911

For more information regarding this testing, please refer to our Joint Test catalog:

LEUKEMIA/LYMPHOMA PANEL BY FLOW CYTOMETRY - University of Vermont Medical Center Laboratory Test Catalog

Notable Specimen Stability differences:

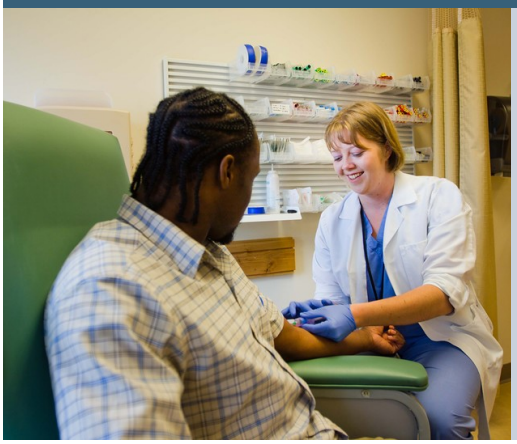
UVMMC			Mayo Medical Lab		
Specimen	**Media**	**Stability**	**Specimen**	**Media**	**Stability**
Fluids, Peripheral Blood, Marrow	EDTA	48 hours	Fluids	N/A	72 hours
Fluids, Peripheral Blood, Marrow	RPMI	72 hours	Peripheral Blood, Marrow	EDTA/NaHep	96 hours
Peripheral Blood, Bone Marrow	NaHep	72 hours	Bone Marrow	EDTA/NaHep	72 hours
Tissue, Lymph Node, Biopsy	RPMI	72 hours	Tissue	RPMI	96 hours
CSF	N/A	48 hours	CSF	N/A	48 hours

Mayo Tests to be replaced by UVMMC's Leukemia/Lymphoma Panel:

Mayo Test ID	Mayo Test Name	Specimen Type
LLPT	Leukemia/Lymphoma Immunophenotyping, Flow Cytometry, Tissue	Tissue
LCMS	Leukemia/Lymphoma Immunophenotyping, Flow Cytometry, Varies	Blood, Bone Marrow, Fluid
MYEFL	Myelodysplastic Syndrome by Flow Cytometry, Bone Marrow	Bone Marrow

Please reach out to the Medical Director of Flow Cytometry at Katherine.Devitt@uvmhealth.org with questions or concerns about this change.

LABORATORY PATIENT SERVICE CENTER



Main Campus
Main Pavilion, Level 2
111 Colchester Avenue
Burlington, VT

One South Prospect
1 South Prospect St
First Floor Lobby
Burlington, VT

Fanny Allen Campus
792 College Parkway
Colchester, VT

Visit UVMHealth.org/MedCenterDrawSites for patient service center hours and special test considerations.

All UVM Medical Center phlebotomists are nationally certified

Previously Distributed Test Updates

Hematology

Immature Platelet Fraction (IPF)

Effective **12/19/22**, UVMMC's Hematology Laboratory will begin offering testing for immature platelet fraction (IPF). IPF provides the immature fraction of platelets and can be used to aid in evaluating and monitoring thrombocytopenia. A platelet count and IPF will be provided. While there are no normal IPF reference ranges for patients less than 18 years old, the adult range is 1.2 to 8.6 %.

New Orderable	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code
Immature Platelet Fraction (IPF)	LAB17564	LAB17564	FAH6082	71693-6	85055
Result Component Name	**Epic Code**	**Atlas Code**	**Mayo Test ID**	**Result LOINC**	**Units**
Platelet	12301019850	1230101985	FAH6083	777-3	K/cmm
Immature Platelet Fraction (IPF)	12301019851	12301019851	FAH6084	71693-6	%
Container	**Specimen**	**Temperature**	**Collect/Submit Vol**	**Min Vol**	**Stability**
Lav Top (EDTA)	Whole Blood	Refrigerate	2.5 mL	0.2 mL	48 hrs

For questions, please contact the UVMMC Medical Director of Hematology, Dr. Joanna Conant, at Joanna.Conant@uvmhealth.org.

References:

Goel G, Semwal S, Khare A, et al. Immature platelet fraction: its clinical utility in thrombocytopenia patients. J Lab Physicians. 2021;13(3):214-218.

Reeves HM, Maitta RW. Immature platelet dynamics in immune-mediated thrombocytopenic states. Front Med (Lausanne). 2020;7:597734.

Newly Defined Mayo Tests for UVMMC.

Effective 12/1/22, the following newly defined Mayo tests will be available to order at UVMMC:

Lactoferrin, Quantitative, Stool

New Orderable	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code
Lactoferrin, QN, Stool	LAB17573	LAB17573	FLACQ	42924-1	83631
Result Component Name	**Epic Code**	**Atlas Code**	**Mayo Test ID**	**Result LOINC**	**Notes**
Lactoferrin, QN, Stool	12301019907	MFLACQ	FLACQ	42924-1	
Container	**Specimen**	**Temperature**	**Collect Vol**	**Submit Vol**	**Stability**
Sterile Stool Container	Fecal	Refrigerate	1 gm	1 gm	14 days
Collection Instructions					
Submit 1 gram fresh, unpreserved stool.					

PLA2R, Monitoring, ELISA, Serum

New Orderable	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code
PLA2R, Monitoring, ELISA, S.	LAB17558	LAB17558	PLA2M	73737-9	83520
Result Component Name	**Epic Code**	**Atlas Code**	**Mayo Test ID**	**Result LOINC**	**Notes**
PLA2R, Monitoring, ELISA, S.	12301019840	MPLA2M	PLA2M	73737-9	
Container	**Specimen**	**Temperature**	**Collect Vol**	**Submit Vol**	**Stability**
SST (preferred)	Serum	Refrigerate	2 mL	1 mL	14 days
Collection Information					
Red top tube is acceptable.					

Newly Defined Mayo Tests for UVMMC (cont.)

Previously Distributed Test Updates

Newly Defined Mayo Tests for UVMMC (cont.)

Effective 12/19/22, the following newly defined Mayo test are available to order at UVMMC:

Alzheimer's Disease Evaluation, CSF replaces LAB14512, Athena test #177:

For questions or concerns, please contact UVMMC Lab Outreach at laboutreach@uvmhealth.org.

New Orderable	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code
Alzheimer's Disease Evaluation, CSF	LAB17572	LAB17572	ADEVL	in process	83520x3
Result Component Name	**Epic Code**	**Atlas Code**	**Mayo Test ID**	**Result LOINC**	**Notes**
p-Tau/Abeta42	12301019881	MPTABR	PTABR	41027-4	
AD Interpretation	12301019882	MADINT	ADINT	69048-7	
Abeta42	12301019883	MAB42P	AB42P	33203-1	
Total-Tau	12301019884	MTTAUP	TTAUP	30160-6	
Phospho-Tau(181P)	12301019885	MPTAUP	PTAUP	72260-3	
Patient Preparation					
For 12 hours before specimen collection do not take multivitamins or dietary supplements containing biotin					
(vitamin B7), which is commonly found in hair, skin, and nail supplements and multivitamins.					
Container	**Specimen**	**Temperature**	**Collect Vol**	**Submit Vol**	**Stability**
Blue Top SARSTEDT	CSF	Refrigerate	1.5 - 2.0 mL	1.5 - 2.0 mL	14 days
Collection Instructions					
1. Perform lumbar puncture and discard the first 1 to 2 mL of CSF.					
2. Collect CSF directly into a collection tube until the tube is at least 50% full.					
3. Send CSF specimen in original collection tube. Do not aliquot.					
Note: Polystyrene collection tubes are not acceptable. Exposure of CSF to polystyrene tubes may result in falsely low Abeta42					
concentrations.					

Current Orderable to be Inactivated	Epic Code	Atlas Code	Athena Test ID	Order LOINC	CPT Code
ADMARK Phospho Tau/Total Tau/A Beta42, Analysis and Interp, CSF	LAB14512	N/A	#177	N/A	83520x3

Drug Screen, Prescription/OTC, Random Urine Update

Effective 3/9/23, the following defined Mayo test will be updated by removing a result code:

Updated Mayo Orderable	Epic Code	Atlas Code	Mayo Test ID	Order LOINC
Drug Screen, Prescription/OTC, Random, U.	LAB500	UDSCR1	PDSU	12286-1
Result Component(s)	**Epic Code**	**Atlas Code**	**Mayo Test ID**	**Result LOINC**
Drugs Detected	12301001223	M31260	31260	12286-1
Suspect Drug	12301001224	M45529	45529	N/A
Chain of Custody ***removed***	12301001225	M31262	31262	77202-0

For questions or concerns, please contact UVMMC Lab Outreach at laboutreach@uvmhealth.org.

Previously Distributed Test Updates

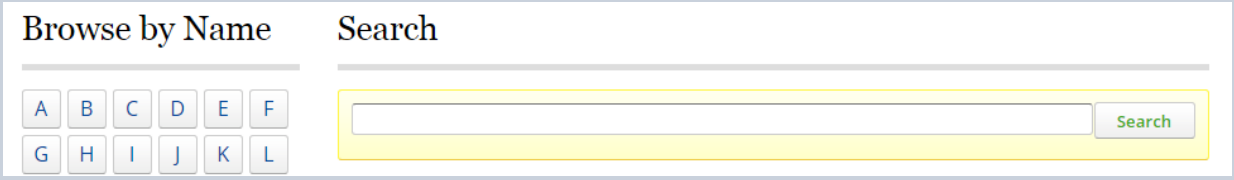
Supersaturation Profile, 24 Hour Urine Update

Effective 12/6/22, Mayo Test ID SUP24, LAB17575, replaced Mayo Test ID SAT24, LAB15332:

New Mayo Orderable	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code(s)
Supersaturation Profile, 24 hour, Urine	LAB17575	LAB17575	SUP24	in process	*See below
Result Component Name	**Epic Code**	**Atlas Code**	**Mayo Test ID**	**Result LOINC**	**Notes**
Calcium Oxalate Crystal	12301019909	M616217	616217	81623-1	
Brushite Crystal	12301019921	M616218	616218	in process	
Hydroxyapatite Crystal	12301019922	M616219	616219	81622-3	
Uric Acid Crystal	12301019923	M616220	616220	in process	
Collection Duration	12301019924	MSSDUR	SSDUR	13362-9	AOE
Volume	12301019925	MSSVOL	SSVOL	3167-4	AOE
Interpretation	12301013240	12301013240	21060	69051-1	
Sodium, 24 HR, U	12301019927	MNAU24	NAU24	2956-1	
Potassium, 24 HR, U	12301019928	MKU24	KU24	2829-0	
Calcium, 24 HR, U	12301019929	MCAU24	CAU24	6874-2	
Magnesium, 24 HR, U	12301019930	MMGU24	MGU24	24447-5	
Chloride, 24 HR, U	12301019931	MCLU24	CLU24	2079-2	
Phosphorus, 24 HR, U	12301019932	MPOU24	POU24	2779-7	
Sulfate, 24 HR, U	12301019933	MSUL24	SUL24	26889-6	
Citrate Excretion, 24 HR, U	12301019934	MCIT24	CIT24	6687-8	
Oxalate, 24 HR, U (mmol/24 HR)	12301019935	MOXM24	OXM24	14862-7	
Oxalate, 24 HR, U (mg/24 HR)	12301019936	MOXG24	OXG24	2701-1	
pH, 24 HR, U	12301019937	MUPHT	UPHT	27378-9	
Uric Acid, 24 HR, U	12301019938	MURC24	URC24	3087-4	
Creatinine, 24 HR, U	12301019939	MCRU24	CRU24	2162-6	
Osmolality, 24 HR, U	12301019940	MUOSMT	UOSMT	2694-8	
Ammonium, 24 HR, U	12301019941	MAMU24	AMU24	25308-8	
Urea Nitrogen, 24 HR, U	12301019942	MUNU24	UNU24	3096-5	
Protein Catabolic Rate, 24 HR, U	12301019943	MPCRUT	PCRUT	93746-6	
Patient Surface Area	12301019944	MBSA1	BSA1	8277-6	
Height (cm)	12301019945	MHT6	HT6	3137-7	AOE
Weight (kg)	12301019946	MWT6	WT6	29463-7	AOE

TEST CATALOG

To view a complete listing of tests available at the University of Vermont Medical Center, please visit UVMHealth.org/



Previously Distributed Test Updates

Newly Defined Mayo Tests for UVMMC

Effective 12/20/22, the following newly defined Mayo tests are available to order at UVMMC:

Mayo Test ID EPCRB, LAB17579, will replace Mayo Test ID EHRL, LAB3614, which will be obsolete.

New Orderable	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code
Ehrlichia/Anaplasma, PCR, B.	LAB17579	LAB17579	EPCRB	in process	87798x4
Result Component Name	**Epic Code**	**Atlas Code**	**Mayo Test ID**	**Result LOINC**	**Notes**
Anaplasma phagocytophilum	12301019968	12301019968	618323	87558-3	
Ehrlichia chaffeensis	12301019969	12301019969	618324	87559-1	
Ehrlichia ewingii/canis	12301019970	12301019970	618325	87560-9	
Ehrlichia muris eauclairensis	12301019971	12301019971	618326	87561-7	
Container	**Specimen**	**Temperature**	**Collect/Submit Vol**	**Min Vol**	**Stability**
Lavender Top (EDTA)	Whole Blood	Refrigerate	1 mL	0.3 mL	7 days
Collection Instructions					
Send blood in original tube. Do not aliquot.					

Current Orderable to be Inactivated	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code
Ehrlichia/Anaplasma, PCR, B.	LAB3614	EHRPCR	EHRL	87548-4	87798x4

Mayo Test ID JCPCR, LAB17584, will replace Mayo Test ID JCVD, LAB2303, which will be obsolete.

New Orderable	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code
JC Virus, PCR, CSF	LAB17584	LAB17584	JCPCR	33295-7	87798
Result Component Name	**Epic Code**	**Atlas Code**	**Mayo Test ID**	**Result LOINC**	**Notes**
JC Virus, PCR, CSF	12301019972	M618305	618305	33295-7	
Container	**Specimen**	**Temperature**	**Collect/Submit Vol**	**Min Vol**	**Stability**
Sarstedt Aliquot Tube	CSF	Refrigerate	0.5 mL	0.5 mL	7 days
Collection Instructions					
Do not centrifuge.					

Current Orderable to be Inactivated	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code
JC Virus, Molecular Detection, PCR, CSF	LAB2303	JCVD	LCJC	33295-7	87798

Newly Defined Mayo Tests for UVMMC (Cont.)

Previously Distributed Test Updates

Newly Defined Mayo Tests for UVMMC (cont.)

Mayo Test ID LYMPV, LAB17576, has been defined for Synovial Fluid specimens only.

New Orderable	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code
Lyme Disease, PCR, Synovial Fluid	LAB17576	LAB17576	LYMPV	in process	87476, 87798x2,
Result Component Name	**Epic Code**	**Atlas Code**	**Mayo Test ID**	**Result LOINC**	**Notes**
Specimen Source	12301019956	12301019956	LYMS	31208-2	AOE
B. burgdorferi PCR	12301019957	12301019957	618333	94250-8	
B. mayonii PCR	12301019958	12301019958	618334	94251-6	
B. garinii/B.afzelili PCR	12301019959	12301019959	618335	94252-4	
Lyme Fluid Comment	12301019960	12301019960	618336	59464-8	
Container	**Specimen**	**Temperature**	**Collect/Submit Vol**	**Min Vol**	**Stability**
Sterile Vial	Synovial Fluid	Refrigerate	1 mL	0.3 mL	7 days

*if appropriate for government payers

For questions or concerns, please contact UVMMC Lab Outreach at laboutreach@uvmhealth.org.

Mayo Test ID CMVPV, LAB17578, will replace Mayo Test ID LCMV, LAB3708, which will be obsolete.

New Orderable	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code
CMV, PCR, Varies	LAB17578	LAB17578	CMVPV	5000-5	87496
Result Component Name	**Epic Code**	**Atlas Code**	**Mayo Test ID**	**Result LOINC**	**Notes**
Specimen Source	12301019966	12301019966	CMVPS	31208-2	AOE
Cytomegalovirus PCR	12301019967	12301019967	618969	5000-5	
Container	**Specimen**	**Temperature**	**Collect/Submit Vol**	**Min Vol**	**Stability**
*Varies	*Varies	Refrigerate	0.5 mL	0.5 mL	7 days
Collection Instructions					
*Refer to UVMMC's Joint Test Catalog on 12/20/22 for acceptable specimen types.					

Current Orderable to be Inactivated	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code
CMV. Molecular Detection, PCR, V.	LAB3708	NBCMV	LCMV	5000-5	87496

Previously Distributed Test Updates

Microbiology

Testing for Influenza-Like Illness

This document is for insuring appropriate testing for patients with respiratory viral illnesses and focuses on testing of ***symptomatic patients only***. ***Asymptomatic patients should not be tested for influenza or RSV.***

SARS-CoV-2:

Indications: All symptomatic patients with ILI, symptoms concerning for COVID-19 (fever, cough, shortness of breath, acute loss of taste and smell, myalgias, fatigue, diarrhea, runny nose, congestion); and asymptomatic patients with high risk exposure.

Specimen Collection:

1. Nasopharyngeal swab for sample of posterior nasopharynx, collected by health care worker (HCW). This specimen can also be tested for influenza, RSV (without a second collection) **if indicated** (see below).
2. ***Anterior nares swab, collected by HCW. CANNOT be tested for influenza*** (requires second collection).
3. Anterior nares swab, collected by patient, HCW observer. CANNOT be tested for influenza (requires second collection).

Influenza, RSV:

Indications: Testing for influenza and RSV in healthy outpatients without risk for severe disease ***should not occur unless*** there are compelling clinical reasons. All people for whom influenza testing is indicated should be tested for **both** influenza and SARS-CoV-2.

Specific testing for Influenza, RSV ***should occur*** for the following:

1. Symptomatic people at higher risk for serious complications from influenza:
    - Adults 65 and older
    - Children under the age of 5, especially those under the age of 2
    - Native Americans and Alaska Natives
    - People who are pregnant and up to 2 weeks postpartum
    - People with underlying medical conditions (chronic lung disease, heart disease, kidney disease, liver disease, neurologic disease, hematologic disease, DM, metabolic disorders, obesity, immunosuppression, under age of 19 receiving chronic aspirin therapy)
2. Symptomatic household contacts of people at higher risk of severe complications
3. Symptomatic ILI requiring hospitalization for any indication
4. Symptomatic residents of long term care facilities

Specimen Collection:

1. Nasopharyngeal swab for sample of posterior nasopharynx, collected by HCW.

Testing for Influenza-Like Illness (cont.)

Previously Distributed Test Updates

Microbiology

Testing for Influenza-Like Illness (cont.)

Expanded Respiratory Viral Panel (metapneumovirus, parainfluenza, adenovirus, rhinovirus):

Indications: This testing ***is not indicated unless*** SARS-CoV-2, influenza, and RSV tests are negative and the patient has severe illness or a compromised immune status.

Specimen Collection:

Nasopharyngeal swab for sample of posterior nasopharynx, collected by HCW.

Additional recommendations:

If the patient has severe disease, testing above can be performed on lower respiratory tract samples.

Empiric antiviral treatment is recommended for patients with suspected influenza who are hospitalized or at higher risk for severe disease ***and should not be delayed while awaiting diagnostic testing***.

Calling Positive Flu RSV

Effective Immediately:

Due to client feedback, positive test results for Influenza and RSV will no longer be automatically called to the ordering provider's location by Lab Customer Service, as they are not considered to be critical values.

- All positive Influenza results are reported to the Vermont Department of Health
- All positive Influenza and RSV results are reported in real time to UVM Health Network's secure patient portal, MyChart

For questions, please email Dr. Christina Wojewoda (Christina.Wojewoda@uvmhealth.org) or call 802-847-5121 to be directed to a Microbiology supervisor.

SYRINGE DISPOSAL

The University of Vermont Medical Center does not accept sharps for disposal from patients!

Chittenden Solid Waste District (CSWD) will accept needles that are packaged according to the instructions outlined in their pamphlet "GET THE POINT: Be safe with syringes and other sharps". CSWD also has bright orange stickers to attach to a syringe container to warn handlers to be careful. These items are available at any CSWD location. You can also order them so that they are available for patients at your office 872-8111 or visit www.cswd.net