

Virology Testing Changes



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On October 24, 2018 the Microbiology Laboratory will be update the PCR platforms for detection of viruses in patient samples. This will require changes to how viral testing is ordered.

The viral PCR testing platforms available will be:

- Hologic Panther Fusion used for Influenza A, B, and RSV PCR testing for all inpatients and outpatient nasopharyngeal swab and respiratory fluid samples. In addition, it will be used for an expanded respiratory viral panel PCR which includes parainfluenza types 1- 4, adenovirus, human metapneumovirus, and rhinovirus for both nasopharyngeal swabs and respiratory fluids that should only be used for patients that are immunocompromised or extremely ill inpatients.
- Cepheid GeneXpert Xpress Flu/RSV assay will be available for performing influenza A, B, and RSV on nasopharyngeal swabs from the Emergency Department and Urgent Care at the Fanny Allen Campus.
- Cepheid GeneXpert be used for enterovirus PCR testing from CSF specimens.
- Luminex Aries will be the platform used for both herpes simplex virus and varicella zoster virus PCR detection for mucocutaneous and CSF specimens.

CMV qualitative samples from various anatomic specimens will now be sent to Mayo Medical Laboratories and will no longer be performed at UVMCC laboratory.

Influenza and RSV results will be available in Epic and no longer be called to inpatient and emergency department providers.

Tests to be inactivated: 10/24/18

Lab Test Code	Epic Test Code	Test Name
CSFPCR	LAB3276	CSF Virus Detection
CUTVD	LAB3275	Mucocutaneous Virus Detection
RESVD	LAB3274	Resp Virus Detection
UCMVP	LAB3278	Urine CMV Virus Detection
EYEVD	LAB3277	Ocular Virus Detection

NEW VIROLOGY TESTS AVAILABLE OCTOBER 24, 2018

Test Name	Lab Code	Instrument	Specimen Stability Info	Sample Information	CPT Code(s)	Test Schedule / Analytic Time / Test Priority
Inpatient/ Outpatient Influenza, RSV PCR*	IOFLUR	Hologic Panther Fusion	Refrigerate, stable 4 days	Collect a nasopharyngeal specimen using a Viral Collection Kit (M6), refrigerate. Respiratory fluids should be collected in a sterile container, 1 ml minimum volume, refrigerate.	Influenza A/B/ RSV: 87631 x1	Daily/One day/ Not available STAT
ED, Urgent Care Influenza, RSV PCR	EDFLUR	Cepheid GeneXpert	Refrigerate, stable 7 days	Collect a nasopharyngeal specimen using a Viral Collection Kit (M6), refrigerate.	Influenza A/B/ RSV 87631 x1	Daily/One day/ Available STAT
Expanded Respiratory Viral Panel, PCR	RESEXP	Hologic Panther Fusion	Refrigerate, stable 4 days	Collect a nasopharyngeal specimen using a Viral Collection Kit (M6), refrigerate. Respiratory fluids should be collected in a sterile container, 1 ml minimum volume, refrigerate.	Respiratory Virus: 87632 x1	Daily/One day/ Not available STAT
Enterovirus PCR, CSF	ENVGE	Cepheid GeneXpert	Refrigerate, stable 3 days or frozen, 7 days	1 ml CSF submitted in sterile container, refrigerate	Enterovirus: 87498 X1	Daily/One day/ Available STAT
Herpes Simplex Vi- rus, PCR	HSV LUM	Luminex Aries	CSF Samples: Refrigerate. stable 7 days Mucocutaneous sites: refrigerate, stable 15 days	Collect a swab using a Viral Collection Kit (M6), refrigerate. CSF should be collected in a sterile container, 1 ml minimum volume, refrigerate.	Herpes Simplex Virus 1 & 2: 87529 x1, 87529.59 x1	Daily for CSF specimens, Monday-Friday for Mucocutane- ous specimens/ Same Day/ Not available STAT
Varicella zoster Virus, PCR	VZVLUM	Luminex Aries	Refrigerate stable: 7 days Frozen, stable 7 days	Collect a swab specimen using a Viral Collection Kit (M6), refrigerate. CSF should be collected in a sterile container, 1 ml minimum volume, refrigerate.	Varicella zoster Virus : 87798 x1	CSF Specimens Daily Mucocutaneous specimens. Monday-Friday Same Day/ Not available STAT
CMV, Molecular Detection, PCR	NBCMV	MML	MML	Varies, refer to Mayo Medical Laboratories (MML) specimen requirements for details	87496 x1 Testing performed at Mayo Medical Laboratory	Sent to MML Sunday – Friday, TAT varies, Not available STAT

If Testing is clinically indicated that is not listed here, please call customer service (847-5121 or 1-800-991-2799) to see if send out testing is available.

***Flu Testing on Outpatients:** Per CDC guidance, testing for influenza does not need to be performed on all patients with sign and symptoms of influenza to make antiviral treatment decisions. A clinical diagnosis can be made for outpatients with suspected influenza, especially during times of peak activity in the community (usually late December – March in the Northeast). If treatment is clinically indicated, antiviral treatment should **NOT** be withheld from a patient with suspected influenza waiting test results as antiviral treatment is most efficacious if given as soon as possible. Patients who should be treated empirically in an outpatient setting include patient >65 years or <2 years of age, pregnant women, people with comorbidities that place them at high risk (chronic lung disease, heart disease, renal disease, metabolic disease, hematologic disease, and neurologic disease), immunosuppression, morbid obesity, American Indians or Alaskan Natives, and residents of chronic care facilities. Molecular testing is the most appropriate for hospitalized patients for isolation and treatment purposes. Some rapid antigen tests have been reclassified by the FDA as of February 2017, so current testing may not meet regulations. Based on CDC guidelines the Pathology and Laboratory Medicine group does not support point of care influenza testing.

REFERENCE

<https://www.cdc.gov/flu/professionals/diagnosis/consider-influenza-testing.htm>

FOR MORE INFORMATION

Contact Laboratory Customer Service or email the Lab Ambassadors for clinical questions.

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