Coronavirus Disease 2019 (COVID-19), Influenza, and Respiratory Syncytial Virus Testing Algorithm*

Patient with flu-like illness within past 48 hours

**YES**

Does patient have risk factors for complications from respiratory syncytial virus (RSV) infections, such as:
- History of stem cell transplant or solid organ transplant
- Hematologic malignancy (leukemia or lymphoma) receiving chemotherapy
- All infants <6 months old
- Premature infants
- Children <2 years old with chronic lung disease of prematurity or chronic heart disease
- Children with neuromuscular disorders

**NO**

Is patient advised to undergo testing for public health, work, school, travel related reasons, or just wanted to be tested for COVID-19?

**YES**

Order COVOO / Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) RNA Detection, Varies

**NO**

Testing not indicated

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**YES**

Does the patient meet all of the following criteria?
- Temperature of 100.0°F (37.8°C) or greater
- Muscle aches or a headache
- Cough

**NO**

Is the patient high risk for influenza complications?**

**YES**

Order COFLU / Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) RNA and Influenza Virus Type A and Type B RNA Detection, PCR, Varies

**NO**

Start empiric antiviral therapy for influenza if clinically indicated.

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Order SCOFR / Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) RNA, Influenza Virus Type A and Type B RNA, and Respiratory Syncytial Virus RNA Detection, PCR, Varies

OR

Consider RP / Respiratory Panel, PCR, Nasopharyngeal

OR

If patient is negative for SARS-CoV-2 RNA and influenza A and B RNA, order RSVQL / Respiratory Syncytial Virus RNA Detection, PCR, Varies

Start empiric antiviral therapy for influenza if clinically indicated.

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**Risk factors for complications from influenza:**
- Age 65 years or older
- Chronic pulmonary disease including asthma or COPD
- Daily aspirin use in patients ≤18 years old
- Heart disease, eg. congestive heart failure, history of coronary artery disease or bypass, chronic anticoagulation due to heart arrhythmia (excluding hypertension)
- History of organ transplant
- Liver disease, eg. history of liver cirrhosis, chronic hepatitis
- History of renal disease with creatinine clearance less than or equal to 60 mL/minute
- Diabetes
- Neuromuscular disorder, eg. muscular dystrophy, multiple sclerosis, amyotrophic lateral sclerosis, myasthenia gravis
- Neurologic disorder, eg. seizure disorder, stroke, mental retardation, moderate to severe developmental delay, spinal cord injury
- Body mass index (BMI) 40 or unsure
- Compromised immune system including
  - HIV/AIDS
  - Currently having chemotherapy or radiation
  - Taking prednisone in excess of 20 mg daily (or equivalent) for >14 days
  - Taking immunosuppressive medications
  - Surgical removal of the spleen
- Sickle cell disease
- Resident of a nursing home or other long-term care facility
- Pregnancy or who thinks she may be pregnant
- Within first 14 days postpartum (includes pregnancy loss)

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*This algorithm is intended to be used for outpatients only.

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