INDICATIONS FOR COVID-19 DIAGNOSTIC TESTING
FOR PATIENTS IN ALL CLINICAL SETTINGS

1/11/22
This document supersedes prior documents regarding diagnostic criteria. Current criteria for testing vary by location of care and are subject to change. Ongoing limitations in testing capacity require prioritization based on symptoms and need for hospital admission or procedures.

1. Nasopharyngeal (NP) swabs remain the preferred specimen type for COVID-19 testing at Michigan Medicine.
   a. For patients with a medical contraindication to an NP swab (e.g., facial trauma, nasal septal or palate defects, or severe coagulopathy), an anterior nasal plus an oropharyngeal swab is recommended. Please call the ordering provider if there is uncertainty about whether an NP or nasal swab can be safely performed.

2. Alternative specimen sources:
   a. Midturbinate swabs, anterior nasal swabs, and saliva specimens may also be acceptable. See Table 1 below. Self-collected midturbinate or anterior nasal swabs are acceptable when collection is observed by a medical professional.

3. Non-Michigan Medicine tests:
   a. Documented negative COVID-19 nucleic acid tests (PCR, NAAT, etc.) from non-Michigan Medicine laboratories are acceptable depending on the specimen source and clinical scenario. See Table 1 below.
   b. Results from the Abbott ID NOW test are not acceptable as admission testing unless the report specifies that an NP swab was used to collect the specimen (note: the test results from some labs indicate the site the sample was taken from).

4. Antigen tests:
   a. Negative results from antigen-based tests (e.g., Quidel Sofia 2, BD Veritor, BinaxNow) are currently not acceptable.
   b. Positive results from antigen-based tests are acceptable.

5. In most cases, a single negative test will be sufficient to rule out COVID-19. In cases of high clinical suspicion and an initial negative test, a second COVID-19 PCR should be performed. Please see the COVID-19 de-escalation document for guidance on discontinuing Special Pathogens Precautions.

Table 1. Acceptable specimen types based on clinical scenario

<table>
<thead>
<tr>
<th>Clinical Scenario</th>
<th>Acceptable Specimen Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symptomatic</td>
<td>NP (preferred), midturbinate, anterior nasal, saliva</td>
</tr>
<tr>
<td>Asymptomatic, Pre-procedural</td>
<td>NP (preferred), midturbinate, anterior nasal, saliva</td>
</tr>
<tr>
<td>Asymptomatic, Admission</td>
<td>NP only (if medically contraindicated, then dual sample with anterior nasal and oropharyngeal)</td>
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<tr>
<td>Surveillance (e.g., frequent routine asymptomatic testing for certain workforce member and patient populations)</td>
<td>NP, midturbinate, anterior nasal, saliva</td>
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</tbody>
</table>

Testing guidance can be found below for the following patient populations:

A. INPATIENT AND EMERGENCY DEPARTMENT (updated 1/24/21)
B. OCCUPATIONAL HEALTH SERVICES (updated 1/11/22)
C. AMBULATORY CARE PATIENTS (updated 1/24/21)
D. OR AND PROCEDURAL AREAS
E. ASYMMPTOMATIC SPECIAL POPULATIONS (updated 11/15/20)
F. PATIENTS WITH CLINICAL RECOVERY OF COVID-19 (added 9/3/20)
A. INDICATIONS FOR COVID-19 TESTING FOR INPATIENT & EMERGENCY DEPARTMENT (updated 1/24/21)
Patients who qualify for testing through this algorithm will have an appropriate specimen obtained and sent for COVID-19 PCR or other molecular test (based on location). Flu/RSV PCR or RPAN can also be sent per provider discretion.

Patients must meet the following criteria to qualify for COVID-19 testing:
Any one of the following:
• Planned hospital admission
• Fever (T >100.4°F or 38°C) or chills
• New cough
• New shortness of breath or hypoxia
• Public health department recommended testing due to an exposure to COVID-19

Or any two of the following:
• New muscle aches
• New headache
• New URI symptoms (rhinorrhea, nasal congestion, sore throat)
• New loss of sense of smell or taste
• New nausea, vomiting or diarrhea
• New rash
• Close Contact Exposure* to someone with COVID-19

B. INDICATIONS FOR COVID-19 TESTING THROUGH OCCUPATIONAL HEALTH SERVICES (updated 1/24/21)
Patients who qualify for testing through this algorithm will have an appropriate specimen obtained and sent for COVID-19 PCR. Flu/RSV PCR or RPAN can also be sent per provider discretion.

Patients must meet the following criteria and be a University of Michigan employee to qualify for COVID-19 testing:
Any one of the following:
• Fever (T >100.4°F or 38°C) or chills
• New cough
• New shortness of breath or hypoxia

Or any two of the following:
• Chills
• New muscle aches
• New headache
• New rhinorrhea or nasal congestion
• New sore throat
• New loss of sense of smell or taste
• New nausea, vomiting or diarrhea
• New rash
C. INDICATIONS FOR COVID-19 TESTING FOR SYMPTOMATIC AMBULATORY CARE PATIENTS (updated 1/24/21)

Patients who qualify for testing through this algorithm will have an appropriate specimen obtained and sent for COVID-19 PCR. Flu/RSV PCR or RPAN can also be sent per provider discretion.

Patients must meet the following criteria to qualify for COVID-19 testing:

Any one of the following:
- Fever (T >100.4°F or 38°C) or chills
- New cough
- New shortness of breath or hypoxia
- Public health department recommended testing due to an exposure to COVID-19

Or any two of the following:
- New muscle aches
- New headache
- New URI symptoms (rhinorrhea, nasal congestion, sore throat)
- New loss of sense of smell or taste
- New nausea, vomiting or diarrhea
- New rash
- Close Contact Exposure* to someone with COVID-19

D. INDICATIONS FOR COVID-19 TESTING IN OR AND PROCEDURAL AREAS

(see http://www.med.umich.edu/i/ice/resources/coronavirus/ppe_pt_care.pdf):

1. Patients undergoing general anesthesia
2. Patients undergoing high/moderate-risk aerosol-generating procedures (AGPs)

E. INDICATIONS FOR COVID-19 SCREENING OF ASYMPTOMATIC SPECIAL POPULATIONS (updated 11/15/20)

1. Adult and pediatric patients with planned hematopoietic stem cell transplantation conditioning therapy within the following 48 hours
2. Adult and pediatric patients with planned imminent solid organ transplantation
3. Neonates born to COVID-19 positive mothers (see newborn testing guidelines)
4. University of Michigan employees following a high-risk occupational exposure or other close contact exposure to someone with confirmed COVID-19
5. All patients who are advised to get tested by a public health department due to an exposure to COVID-19

F. INDICATIONS FOR RETESTING PATIENTS FOLLOWING CLINICAL RECOVERY FROM COVID-19

1. COVID-19 testing is not indicated 21 days to 3 months since date of hospital discharge or date of positive test if no admission unless patient develops new symptoms concerning for infection
2. Resume standard COVID-19 testing protocols for all patients >3 months since date of hospital discharge or date of positive test if no admission
**Close Contact Exposure in a non-healthcare setting:** Greater than 15 minutes of cumulative close face to face contact over 24 hours with someone diagnosed with COVID-19 within 2 days prior to and 10 days after the COVID-19 positive person’s diagnosis (positive test).