Clinical Policy: Polymerase Chain Reaction Respiratory Viral Panel Testing
Reference Number: CP.MP.181
Date of Last Revision: 03/22

See Important Reminder at the end of this policy for important regulatory and legal information.

Description
Medical necessity criteria for multiplex respiratory polymerase chain reaction (PCR) testing.

Note: For PCR testing for COVID-19, refer to CP.CPC.03 Preventive Health and Clinical Practice Guideline Policy

Policy/Criteria
I. It is the policy of Centene Corporation® that respiratory viral panels (RVPs) testing for five pathogens or fewer are considered medically necessary when meeting one of the following 1-7:
   A. Performed in the outpatient setting, will influence the plan of care, and any of the following:
      1. The member/enrollee is immunocompromised;
      2. The test is ordered by an infectious disease specialist, or an infectious disease specialist is not available;
   B. Performed in a healthcare setting that cares for critically-ill patients, such as the emergency department or inpatient hospital, and includes patients in observation status.

II. It is the policy of Centene Corporation that respiratory viral panels (RVPs) testing for six pathogens or more are considered medically necessary in a healthcare setting that cares for critically ill patients, such as the emergency department or inpatient hospital, and includes patients in observation status.

III. It is the policy of Centene Corporation that RVPs are considered not medically necessary for all other indications.

Background
Polymerase chain reaction (PCR) respiratory viral panels (RVP) may detect the RNA or DNA of multiple types of respiratory viruses as a single test, often through a nasal, nasopharyngeal, or oropharyngeal swab.6 Viral pathogens are the most common cause of respiratory tract infections.8 Rhinovirus, parainfluenza virus, coronavirus, adenovirus, respiratory syncytial virus (RSV), Coxsackie virus, human metapneumovirus, and influenza virus account for most cases of viral respiratory infections.1 Immunocompromised patients can develop severe lower respiratory tract infections from common respiratory viral pathogens that otherwise cause mild upper respiratory tract infections in healthy patients.9

PCR testing is generally effective for confirming respiratory viral infections with very high sensitivity and specificity.7,13 Respiratory viral infections often have nonspecific clinical presentations and, therefore, accurate and timely identification through PCR testing has the potential to optimize antiviral use when appropriate, decrease the spread of any viral infection, and to reduce the number of patients being treated with antibiotics unnecessarily.8,10-12,15 Multiplex PCR testing can detect a variety of respiratory viruses depending on the type and brand of testing being used.12 However, the diagnostic role and importance of these multi-pathogen panels in

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identifying specific viruses in the setting of a respiratory infection is quite limited because the care and management of the individual patient is rarely altered based upon the pathogen identified.14

Infectious Disease Society of America (IDSA)
The IDSA recommends that “clinicians should use multiplex RT-PCR assays targeting a panel of respiratory pathogens, including influenza viruses, in hospitalized immunocompromised patients.” Further, “clinicians can consider using multiplex RT-PCR assays targeting a panel of respiratory pathogens, including influenza viruses, in hospitalized patients who are not immunocompromised if it might influence care (e.g., aid in cohorting decisions, reduce testing, or decrease antibiotic use).”6(p898)

Coding Implications
This clinical policy references Current Procedural Terminology (CPT®). CPT® is a registered trademark of the American Medical Association. All CPT codes and descriptions are copyrighted 2020, American Medical Association. All rights reserved. CPT codes and CPT descriptions are from the current manuals and those included herein are not intended to be all-inclusive and are included for informational purposes only. Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

Table 1: CPT codes that support medical necessity in any place of service

<table>
<thead>
<tr>
<th>CPT Codes®</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>87631</td>
<td>Infectious agent detection by nucleic acid (DNA or RNA); respiratory virus (e.g., adenovirus, influenza virus, coronavirus, metapneumovirus, parainfluenza virus, respiratory syncytial virus, rhinovirus), includes multiplex reverse transcription, when performed, and multiplex amplified probe technique, multiple types or subtypes, 3-5 targets.</td>
</tr>
</tbody>
</table>

Table 2: CPT codes that support medical necessity when billed with place of service codes in table 3

<table>
<thead>
<tr>
<th>CPT Codes®</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0115U</td>
<td>Respiratory infectious agent detection by nucleic acid (DNA and RNA), 18 viral types and subtypes and 2 bacterial targets, amplified probe technique, including multiplex reverse transcription for RNA targets, each analyte reported as detected or not detected</td>
</tr>
<tr>
<td>87632</td>
<td>Infectious agent detection by nucleic acid (DNA or RNA); respiratory virus (eg, adenovirus, influenza virus, coronavirus, metapneumovirus, parainfluenza virus, respiratory syncytial virus, rhinovirus), includes multiplex reverse transcription, when performed, and multiplex amplified probe technique, multiple types or subtypes, 6-11 targets</td>
</tr>
<tr>
<td>87633</td>
<td>Infectious agent detection by nucleic acid (DNA or RNA); respiratory virus (eg, adenovirus, influenza virus, coronavirus, metapneumovirus, parainfluenza virus, respiratory syncytial virus, rhinovirus), includes multiplex reverse transcription, when performed, and multiplex amplified probe technique, multiple types or subtypes, 12-25 targets</td>
</tr>
</tbody>
</table>
### Table 3: Place of service codes supporting medical necessity for codes in table 2

<table>
<thead>
<tr>
<th>Place of Service Code</th>
<th>Place of Service Name</th>
<th>Place of Service Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>Inpatient Hospital</td>
<td>A facility other than psychiatric which primarily provides diagnostic, therapeutic (both surgical and nonsurgical), and rehabilitation services by, or under, the supervision of physicians to patients admitted for a variety of medical conditions.</td>
</tr>
<tr>
<td>22*</td>
<td>Outpatient Hospital (Observation)</td>
<td>A portion of a hospital which provides diagnostic, therapeutic (both surgical and nonsurgical), and rehabilitation services to sick or injured persons who do not require hospitalization or institutionalization.</td>
</tr>
<tr>
<td>23</td>
<td>Emergency Room – Hospital</td>
<td>A portion of a hospital where emergency diagnosis and treatment of illness or injury is provided.</td>
</tr>
</tbody>
</table>

*NOTE: PCR testing in an outpatient place of service is reimbursable only when performed as part of the diagnostic work-up for a patient admitted for Observation.*

### Reviews, Revisions, and Approvals

<table>
<thead>
<tr>
<th>Policies/Revisions</th>
<th>Revision Date</th>
<th>Approval Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Policy developed</td>
<td>12/19</td>
<td>01/20</td>
</tr>
<tr>
<td>Added a note to refer to CP.MP.183 for 2019-novel coronavirus testing.</td>
<td>03/20</td>
<td></td>
</tr>
<tr>
<td>Split medical necessity statements to address panels of 5 pathogens or less and panels of 6 or more separately. Added criteria for panels of 5 or fewer pathogens in the outpatient setting: specified that the test will influence the plan of care, and added the following as indications: testing for other pathogens when COVID-19 suspected and COVID-19 testing is not available soon enough to influence the plan of care, when immunocompromised, or when ordered by an ID or when an ID is not available. Moved codes 87632 and 87633 to a table of medically necessary codes when billed with POS codes in Table 3. Added codes 0098U, 0099U, 0100U, and 0115U as medically necessary when billed with POS codes in Table 3. References reviewed and updated.</td>
<td>08/20</td>
<td>08/20</td>
</tr>
<tr>
<td>References reviewed, updated and reformatted. CPT codes 0098U, 0099U and 0100U deleted 04/21. Changed “review date” in the header to “date of last revision” and “date” in the revision log header to “revision date.” Specialist review.</td>
<td>07/21</td>
<td></td>
</tr>
<tr>
<td>Removed criteria specific to Covid 19 testing in I.A.</td>
<td>08/21</td>
<td>08/21</td>
</tr>
<tr>
<td>Annual review. References reviewed and updated. Updated background with no clinical significance. Specialist reviewed.</td>
<td>03/22</td>
<td>03/22</td>
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### References

1. Local coverage determination. MolDX: multiplex nucleic acid amplified tests for


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Important Reminder
This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. “Health Plan” means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan’s affiliates, as applicable.

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Note: For Medicaid members/enrollees, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

Note: For Medicare members/enrollees, to ensure consistency with the Medicare National Coverage Determinations (NCD) and Local Coverage Determinations (LCD), all applicable NCDs, LCDs, and Medicare Coverage Articles should be reviewed prior to applying the criteria set forth in this clinical policy. Refer to the CMS website at http://www.cms.gov for additional information.

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