

Clinical Policy: Polymerase Chain Reaction Respiratory Viral Panel Testing
Reference Number: LA.CP.MP.181

Date of Last Revision: 1/24

Revision Log

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

Description

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

Policy/Criteria

- **I.** It is the policy of Louisiana Healthcare Connections that respiratory viral panels (RVPs) testing for five pathogens or fewer are considered **medically necessary** when meeting all of the following ¹⁻⁷:
 - A. The member/enrollee has one of the following clinical indications for infectious disease testing:
 - 1. The member/enrollee is immunocompetent, and the clinical indication includes a presumption of active infection or infection-associated complications (which may include exacerbation of underlying disease) that require the identification of a causative organism for appropriate management. Note: Atypical clinical presentations of disease are considered appropriate indications for special populations who may not present with classic symptoms of infection (i.e., the elderly);
 - 2. The member/enrollee is immunocompromised (i.e., those with weakened immune systems including those with human immunodeficiency virus (HIV) or acquired immunodeficiency syndrome (AIDS), those who are taking immunosuppressive medications (i.e., chemotherapy, biologics, transplant-related immunosuppressive drugs, high-dose systemic corticosteroids) and those with inherited diseases that affect the immune system (i.e., congenital immunoglobulin deficiencies). Note: atypical clinical presentations of disease are considered appropriate indications for testing. In this population, testing may be performed once as part of a pre-transplant evaluation, regardless of the presence of symptoms;
 - B. The results of testing will impact clinical management in a manner already demonstrated in the peer-reviewed published literature to improve outcomes;
 - C. Testing is performed according to the intended use of the test in the intended population for which the test was developed and validated;
 - D. Targeted testing is not appropriate (i.e., will not provide sufficient information for the appropriate clinical management);
 - E. The panel performed includes at least the minimum pathogens required for clinical decision making for its intended use that can be reasonably detected by the test;
 - F. The registered test demonstrates equivalent or superior test performance characteristics analytical validity (AV) and clinical validity (CV) to established standard-of-care (SOC) methods (i.e., culture, pathogen-specific PCR) for the majority of targets included on the panel;
 - G. Documentation of the following is clearly stated in the medical record:
 - 1. Specific clinical indications for testing (i.e., clinical suspicion of a pathogen as the cause of the medical condition);
 - 2. Specific reasons for performing panel testing;
 - 3. Provider type/specialty and Place of Service.
- **II.** It is the policy of Louisiana Healthcare Connections that RVPs testing for six pathogens or more are considered **medically necessary** when meeting the following:
 - A. The criteria in section I are met, and any of the following:

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- 1. Performed in a healthcare setting that cares for critically ill individuals, such as the emergency department or inpatient hospital, and includes those in observation status;
- 2. Member/enrollee is immunocompromised, as defined in section I.A.2.;
- 3. Member/enrollee is immunocompetent and both of the following:
 - a. A severe and established underlying respiratory pathology is present (i.e., severe asthma, chronic obstructive pulmonary disease (COPD), cystic fibrosis, pulmonary fibrosis, radiation therapy to the lung);
 - b. Treatment with antibiotics may be indicated according to established guidelines. 17, 18

Background

Polymerase chain reaction (PCR) respiratory viral panels (RVPs) may detect the RNA or DNA of multiple types of respiratory viruses as a single test, often through a nasal, nasopharyngeal, or oropharyngeal swab. Viral pathogens are the most common cause of respiratory tract infections. Rhinovirus, parainfluenza virus, coronavirus, adenovirus, respiratory syncytial virus (RSV), Coxsackie virus, human metapneumovirus, and influenza virus account for most cases of viral respiratory infections. 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.

PCR testing is generally effective for confirming respiratory viral infections with very high sensitivity and specificity. 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. Nultiplex PCR testing can detect a variety of respiratory viruses depending on the type and brand of testing being used. However, the diagnostic role and importance of these multi-pathogen panels in 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. However, the diagnostic role and importance of these multi-pathogen panels in 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.

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 2022, 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 and may not support medical necessity. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

NOTE: Coverage is subject to each requested code's inclusion on the corresponding LDH fee schedule. Non-covered codes are denoted (*) and are reviewed for Medical Necessity for members under 21 years of age on a

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per case basis.

Table 1: CPT codes that support medical necessity in any place of service, without diagnosis code requirements

CPT Codes®	Description
87631*	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.

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

in table 3, or a diagnosis code in both table 4 and table 5.

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CPT	Description		
Codes ®			
0115U*	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		
0202U	Infectious disease (bacterial or viral respiratory tract infection), pathogen- specific nucleic acid (DNA or RNA), 22 targets including severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), qualitative RT-PCR, nasopharyngeal swab, each pathogen reported as detected or not detected		
0223U	Infectious disease (bacterial or viral respiratory tract infection), pathogen- specific nucleic acid (DNA or RNA), 22 targets including severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), qualitative RT-PCR, nasopharyngeal swab, each pathogen reported as detected or not detected		
0225U	Infectious disease (bacterial or viral respiratory tract infection) pathogen- specific DNA and RNA, 21 targets, including severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), amplified probe technique, including multiplex reverse transcription for RNA targets, each analyte reported as detected or not detected		
87632*	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, 6-11 targets		
87633*	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, 12-25 targets		

Table 3: Place of service codes supporting medical necessity for codes in table 2

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Place of Service Code	Place of Service Name	Place of Service Description	
19	Off Campus- Outpatient Hospital	A portion of an off-campus hospital provider based department which provides diagnostic, therapeutic (both surgical and nonsurgical), and rehabilitation services to sick or injured persons who do not require hospitalization or institutionalization.	
21	Inpatient Hospital	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.	
22*	Outpatient Hospital (Observation)	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.	
23	Emergency Room – Hospital	A portion of a hospital where emergency diagnosis and treatment of illness or injury is provided.	

Table 4: ICD-10 Diagnosis Codes that Support Medical Necessity for CPT Codes in Table 2 when Billed with a Diagnosis Code in Table 5

ICD-10-CM	Description
Code	
A37.00	Whooping cough due to Bordetella pertussis without pneumonia
A37.01	Whooping cough due to Bordetella pertussis with pneumonia
A37.10	Whooping cough due to Bordetella parapertussis without pneumonia
A37.11	Whooping cough due to Bordetella parapertussis with pneumonia
A37.80	Whooping cough due to other Bordetella species without pneumonia
A37.81	Whooping cough due to other Bordetella species with pneumonia
A37.90	Whooping cough, unspecified species without pneumonia
A37.91	Whooping cough, unspecified species with pneumonia
A41.81	Sepsis due to Enterococcus
A41.89	Other specified sepsis
A41.9	Sepsis, unspecified organism
A48.1	Legionnaires' disease
A48.2	Nonpneumonic Legionnaires' disease [Pontiac fever]
B25.0	Cytomegaloviral pneumonitis
B33.23	Viral pericarditis
B33.24	Viral cardiomyopathy
B59	Pneumocystosis
B97.21	SARS-associated coronavirus as the cause of diseases classified elsewhere
B97.29	Other coronavirus as the cause of diseases classified elsewhere
J05.0	Acute obstructive laryngitis [croup]
J06.9	Acute upper respiratory infection, unspecified
J09.X1	Influenza due to identified novel influenza A virus with pneumonia



J09.X2	Influenza due to identified novel influenza A virus with other respiratory	
100 3/2	manifestations	
J09.X3	Influenza due to identified novel influenza A virus with gastrointestinal manifestations	
J09.X9	Influenza due to identified novel influenza A virus with other manifestations	
J10.01	Influenza due to other identified influenza virus with the same other	
J10.01	identified influenza virus pneumonia	
J10.08	Influenza due to other identified influenza virus with other specified pneumonia	
J10.1	Influenza due to other identified influenza virus with other respiratory manifestations	
J10.2	Influenza due to other identified influenza virus with gastrointestinal manifestations	
J10.81	Influenza due to other identified influenza virus with encephalopathy	
J10.81	Influenza due to other identified influenza virus with myocarditis	
J10.82	Influenza due to other identified influenza virus with myocardus Influenza due to other identified influenza virus with otitis media	
J10.89	Influenza due to other identified influenza virus with other manifestations	
J10.89 J11.08		
	Influenza due to unidentified influenza virus with specified pneumonia	
J11.1	Influenza due to unidentified influenza virus with other respiratory manifestations	
J11.2	Influenza due to unidentified influenza virus with gastrointestinal	
311.2	manifestations	
J11.81	Influenza due to unidentified influenza virus with encephalopathy	
J11.82	Influenza due to unidentified influenza virus with myocarditis	
J11.83	Influenza due to unidentified influenza virus with otitis media	
J11.89	Influenza due to unidentified influenza virus with other manifestations	
J12.0	Adenoviral pneumonia	
J12.1	Respiratory syncytial virus pneumonia	
J12.2	Parainfluenza virus pneumonia	
J12.3	Human metapneumovirus pneumonia	
J12.81	Pneumonia due to SARS-associated coronavirus	
J12.82	Pneumonia due to coronavirus disease 2019	
J12.89	Other viral pneumonia	
J12.9	Viral pneumonia, unspecified	
J13	Pneumonia due to Streptococcus pneumoniae	
J15.0	Pneumonia due to Klebsiella pneumoniae	
J15.1	Pneumonia due to Pseudomonas	
J15.20	Pneumonia due to staphylococcus, unspecified	
J15.211	Pneumonia due to Methicillin susceptible Staphylococcus aureus	
J15.212	Pneumonia due to Methicillin resistant Staphylococcus aureus	
J15.29	Pneumonia due to other staphylococcus	
J15.3	Pneumonia due to streptococcus, group B	
J15.4	Pneumonia due to other streptococci	
J15.61	Pneumonia due to Acinetobacter baumannii	
J15.69	Pneumonia due to other Gram-negative bacteria	
010.07	I hearnoing due to other Grani-negative bacteria	



J15.7	Pneumonia due to Mycoplasma pneumoniae
J15.8	Pneumonia due to other specified bacteria
J15.9	Unspecified bacterial pneumonia
J16.0	Chlamydial pneumonia
J16.8	Pneumonia due to other specified infectious organisms
J18.0	Bronchopneumonia, unspecified organism
J18.1	Lobar pneumonia, unspecified organism
J18.2	Hypostatic pneumonia, unspecified organism
J18.8	Other pneumonia, unspecified organism
J18.9	Pneumonia, unspecified organism
J20.0	Acute bronchitis due to Mycoplasma pneumoniae
J20.1	Acute bronchitis due to Hemophilus influenzae
J20.2	Acute bronchitis due to streptococcus
J20.3	Acute bronchitis due to coxsackievirus
J20.4	Acute bronchitis due to parainfluenza virus
J20.5	Acute bronchitis due to respiratory syncytial virus
J20.6	Acute bronchitis due to rhinovirus
J20.8	Acute bronchitis due to other specified organisms
J20.9	Acute bronchitis, unspecified
J21.9	Acute bronchiolitis, unspecified
J22	Unspecified acute lower respiratory infection
J44.0	Chronic obstructive pulmonary disease with (acute) lower respiratory
	infection
J44.1	Chronic obstructive pulmonary disease with (acute) exacerbation
J45.31	Mild persistent asthma with (acute) exacerbation
J45.32	Mild persistent asthma with status asthmaticus
J45.41	Moderate persistent asthma with (acute) exacerbation
J45.42	Moderate persistent asthma with status asthmaticus
J45.51	Severe persistent asthma with (acute) exacerbation
J45.52	Severe persistent asthma with status asthmaticus
J45.901	Unspecified asthma with (acute) exacerbation
J45.902	Unspecified asthma with status asthmaticus
J84.116	Cryptogenic organizing pneumonia
J84.117	Desquamative interstitial pneumonia
J84.2	Lymphoid interstitial pneumonia
J85.0	Gangrene and necrosis of lung
J85.1	Abscess of lung with pneumonia
J85.2	Abscess of lung without pneumonia
J85.3	Abscess of mediastinum
R05.1	Acute cough
R05.2	Subacute cough
R05.3	Chronic cough
R05.8	Other specified cough
R06.02	Shortness of breath
R06.03	Acute respiratory distress

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R06.2	Wheezing	
R50.9	Fever, unspecified	
R65.20	Severe sepsis without septic shock	
R65.21	Severe sepsis with septic shock	
R78.81	Bacteremia	
T86.33	Heart-lung transplant infection	
T86.812	Lung transplant infection	
Z03.818	Encounter for observation for suspected exposure to other biological	
	agents ruled out	
Z20.822	Contact with and (suspected) exposure to COVID-19	
Z20.828	Contact with and (suspected) exposure to other viral communicable	
	diseases	
U07.1	COVID-19	

Table 5: ICD-10 Diagnosis Codes that Support Medical Necessity for CPT codes in Table 2 when Billed with a Diagnosis Code in Table 4

ICD-10-CM	Description
Code	
B20	Human immunodeficiency virus [HIV] disease
C46.0	Kaposi's sarcoma of skin
C46.1	Kaposi's sarcoma of soft tissue
C46.2	Kaposi's sarcoma of palate
C46.3	Kaposi's sarcoma of lymph nodes
C46.4	Kaposi's sarcoma of gastrointestinal sites
C46.50	Kaposi's sarcoma of unspecified lung
C46.51	Kaposi's sarcoma of right lung
C46.52	Kaposi's sarcoma of left lung
C46.7	Kaposi's sarcoma of other sites
D57.01	Hb-SS disease with acute chest syndrome
D61.09	Other constitutional aplastic anemia
D61.1	Drug-induced aplastic anemia
D61.2	Aplastic anemia due to other external agents
D61.3	Idiopathic aplastic anemia
D61.810	Antineoplastic chemotherapy induced pancytopenia
D61.811	Other drug-induced pancytopenia
D61.818	Other pancytopenia
D61.82	Myelophthisis
D61.89	Other specified aplastic anemias and other bone marrow failure syndromes
D61.9	Aplastic anemia, unspecified
D64.81	Anemia due to antineoplastic chemotherapy
D64.89	Other specified anemias
D70.0	Congenital agranulocytosis
D70.1	Agranulocytosis secondary to cancer chemotherapy
D70.2	Other drug-induced agranulocytosis
D70.3	Neutropenia due to infection



D70.4	Cyclic neutropenia	
D70.9	Neutropenia, unspecified	
D80.0	Hereditary hypogammaglobulinemia	
D80.1	Nonfamilial hypogammaglobulinemia	
D80.2	Selective deficiency of immunoglobulin A [IgA]	
D80.2	Selective deficiency of immunoglobulin G [IgG] subclasses	
D80.3	Selective deficiency of immunoglobulin M [IgM]	
D80.5	Immunodeficiency with increased immunoglobulin M [IgM]	
D80.6	Antibody deficiency with near-normal immunoglobulins or with hyperimmunoglobulinemia	
D80.8	Other immunodeficiencies with predominantly antibody defects	
D80.9	Immunodeficiency with predominantly antibody defects, unspecified	
D81.0	Severe combined immunodeficiency [SCID] with reticular dysgenesis	
D81.1	Severe combined immunodeficiency [SCID] with low T- and B-cell numbers	
D81.2	Severe combined immunodeficiency [SCID] with low or normal B-cell	
	numbers	
D81.30	Adenosine deaminase deficiency, unspecified	
D81.31	Severe combined immunodeficiency due to adenosine deaminase	
	deficiency	
D81.32	Adenosine deaminase 2 deficiency	
D81.39	Other adenosine deaminase deficiency	
D81.4	Nezelof's syndrome	
D81.5	Purine nucleoside phosphorylase [PNP] deficiency	
D81.6	Major histocompatibility complex class I deficiency	
D81.7	Major histocompatibility complex class II deficiency	
D81.810	Biotinidase deficiency	
D81.818	Other biotin-dependent carboxylase deficiency	
D81.82	Activated Phosphoinositide 3-kinase Delta Syndrome [APDS]	
D81.89	Other combined immunodeficiencies	
D81.9	Combined immunodeficiency, unspecified	
D82.0	Wiskott-Aldrich syndrome	
D82.1	Di George's syndrome	
D82.2	Immunodeficiency with short-limbed stature	
D82.3	Immunodeficiency following hereditary defective response to Epstein-	
	Barr virus	
D82.4	Hyperimmunoglobulin E [IgE] syndrome	
D82.8	Immunodeficiency associated with other specified major defects	
D83.0	Common variable immunodeficiency with predominant abnormalities of	
	B-cell numbers and function	
D83.1	Common variable immunodeficiency with predominant	
	immunoregulatory T-cell disorders	
D83.2	immunoregulatory T-cell disorders Common variable immunodeficiency with autoantibodies to B- or T-cells	
D83.2 D83.8		
	Common variable immunodeficiency with autoantibodies to B- or T-cells	



D84.1	Defects in the complement system	
D84.821	Immunodeficiency due to drugs	
D84.822	Immunodeficiency due to external causes	
D84.89	Other immunodeficiencies	
D84.9	Immunodeficiency, unspecified	
D89.0	Polyclonal hypergammaglobulinemia	
D89.1	Cryoglobulinemia	
D89.3	Immune reconstitution syndrome	
D89.41	Monoclonal mast cell activation syndrome	
D89.42	Idiopathic mast cell activation syndrome	
D89.43	Secondary mast cell activation	
D89.44	Hereditary alpha tryptasemia	
D89.49	Other mast cell activation disorder	
D89.810	Acute graft-versus-host disease	
D89.811	Chronic graft-versus-host disease	
D89.811	Acute on chronic graft-versus-host disease	
D89.812	Graft-versus-host disease, unspecified	
D89.813	Autoimmune lymphoproliferative syndrome [ALPS]	
D89.89	Other specified disorders involving the immune mechanism, not	
D09.09	elsewhere classified	
E08.43	Diabetes mellitus due to underlying condition with diabetic autonomic	
L00.43	(poly)neuropathy	
E10.43	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy	
E11.43	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy	
E13.43	Other specified diabetes mellitus with diabetic autonomic	
	(poly)neuropathy	
E84.0	Cystic fibrosis with pulmonary manifestations	
J44.81	Bronchiolitis obliterans and bronchiolitis obliterans syndrome	
J44.89	Other specified chronic obstructive pulmonary disease	
J44.9	Chronic obstructive pulmonary disease, unspecified	
J45.991	Cough variant asthma	
J70.1	Chronic and other pulmonary manifestations due to radiation	
J84.01	Alveolar proteinosis	
J84.02	Pulmonary alveolar microlithiasis	
J84.03	Idiopathic pulmonary hemosiderosis	
J84.10	Pulmonary fibrosis, unspecified	
J84.112	Idiopathic pulmonary fibrosis	
J84.114	Acute interstitial pneumonitis	
J84.170	Interstitial lung disease with progressive fibrotic phenotype in diseases	
	classified elsewhere	
J84.178	Other interstitial pulmonary diseases with fibrosis in diseases classified	
	elsewhere	
J84.81	Lymphangioleiomyomatosis	
J84.82	Adult pulmonary Langerhans cell histiocytosis	
J84.89	Other specified interstitial pulmonary diseases	





O98.711	Human immunodeficiency virus [HIV] disease complicating pregnancy,	
076.711	first trimester	
O98.712	Human immunodeficiency virus [HIV] disease complicating pregnancy,	
076.712	second trimester	
O98.713		
096.713	Human immunodeficiency virus [HIV] disease complicating pregnancy, third trimester	
T80.82XS	Complication of immune effector cellular therapy, sequela	
Z51.11	Encounter for antineoplastic chemotherapy	
Z92.850	Personal history of Chimeric Antigen Receptor T-cell therapy	
Z92.858	Personal history of other cellular therapy	
Z92.86	Personal history of gene therapy	
Z94.0	Kidney transplant status	
Z94.1	Heart transplant status	
Z94.2	Lung transplant status	
Z94.3	Heart and lungs transplant status	
Z94.4	Liver transplant status	
Z94.5	Skin transplant status	
Z94.6	Bone transplant status	
Z94.81	Bone marrow transplant status	
Z94.82	Intestine transplant status	
Z94.83	Pancreas transplant status	
Z94.84	Stem cells transplant status	
Z94.89	Other transplanted organ and tissue status	

Reviews, Revisions, and Approvals	Revision Date	Approval Date
Converted corporate to local policy.	08/15/2020	
Annual review. References reviewed and updated. Updated	5/22	
background with no clinical significance. Specialist reviewed. Added		
and may not support medical necessity to Coding Implications section		
Replaced prior criteria in sections I. and II. with current criteria.	7/23	9/13/23
Removed policy statement III. Background updated with no impact on		
criteria. Updated verbiage in Table 2 description to include new		
diagnosis code requirements. Added Place of Service Code 19 in Table		
3. Added Table 4, Table 5, and Table 6 which include ICD-10		
diagnosis codes. References reviewed and updated. Removed note		
after the policy description referring to CP.CPC.03 Preventive Health		
and Clinical Practice Guidelines for PCR testing for COVID-19. Added		
0202U, 0223U and 0225U to CPT table 2.		
Updated description of Table 2 as Table 6 was removed. Added ICD-	1/24	3/25/24
10 codes J15.61 and J15.69 to Table 4. Added ICD-10 codes J44.81		
and J44.89 to Table 5. Deleted Table 6 from policy. Added note for		
non-covered codes.		

References

1. Local coverage article. Billing and coding: MolDX: molecular syndromic panels for infectious disease pathogen identification testing (A58710). Centers for Medicare and Medicaid Services Web site. http://www.cms.hhs.gov/mcd/search.asp. Published April 17,

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- 2022 (revised January 01, 2023). Accessed February 09, 2023.
- Local coverage article. Billing and coding: MolDX: molecular syndromic panels for infectious disease pathogen identification testing (A58720). Centers for Medicare and Medicaid Services Web site. http://www.cms.hhs.gov/mcd/search.asp. Published April 17, 2022 (revised January 01, 2023). Accessed February 09, 2023.
- Local coverage article. Billing and coding: MolDX: molecular syndromic panels for infectious disease pathogen identification testing (A58726). Centers for Medicare and Medicaid Services Web site. http://www.cms.hhs.gov/mcd/search.asp. Published April 17, 2022 (revised January 01, 2023). Accessed February 09, 2023.
- 4. Local coverage article. Billing and coding: MolDX: molecular syndromic panels for infectious disease pathogen identification testing (A58747). Centers for Medicare and Medicaid Services Web site. http://www.cms.hhs.gov/mcd/search.asp. Published April 17, 2022 (revised January 01, 2023). Accessed February 10, 2023.
- Local coverage article. Billing and coding: MolDX: molecular syndromic panels for infectious disease pathogen identification testing (A58761). Centers for Medicare and Medicaid Services Web site. http://www.cms.hhs.gov/mcd/search.asp. Published April 17, 2022 (revised January 01, 2023). Accessed February 10, 2023.
- 6. Uyeki TM, Bernstein HH, Bradley JS, et al. Clinical Practice Guidelines by the Infectious Diseases Society of America: 2018 Update on Diagnosis, Treatment, Chemoprophylaxis, and Institutional Outbreak Management of Seasonal Influenzaa. *Clin Infect Dis*. 2019;68(6):895 to 902. doi:10.1093/cid/ciy874
- 7. Esposito S, Mencacci A, Cenci E, Camilloni B, Silvestri E, Principi N. Multiplex Platforms for the Identification of Respiratory Pathogens: Are They Useful in Pediatric Clinical Practice?. *Front Cell Infect Microbiol*. 2019;9:196. Published 2019 Jun 4. doi:10.3389/fcimb.2019.00196
- 8. Echavarría M, Marcone DN, Querci M, et al. Clinical impact of rapid molecular detection of respiratory pathogens in patients with acute respiratory infection. *J Clin Virol*. 2018;108:90 to 95. doi:10.1016/j.jcv.2018.09.009
- 9. Weston S, Frieman MB. Respiratory Viruses. *Encyclopedia of Microbiology*. 2019;85 to -101. doi:10.1016/B978-0-12-801238-3.66161-5
- 10. Ramirez JA, Musher DM, Evans SE, et al. Treatment of Community-Acquired Pneumonia in Immunocompromised Adults: A Consensus Statement Regarding Initial Strategies. *Chest*. 2020;158(5):1896 to 1911. doi:10.1016/j.chest.2020.05.598
- 11. Busson L, Bartiaux M, Brahim S, et al. Contribution of the FilmArray Respiratory Panel in the management of adult and pediatric patients attending the emergency room during 2015 to 2016 influenza epidemics: An interventional study. *Int J Infect Dis.* 2019;83:32 to 39. doi:10.1016/j.ijid.2019.03.027
- 12. Hill AT, Gold PM, El Solh AA, et al. Adult Outpatients with Acute Cough Due to Suspected Pneumonia or Influenza: CHEST Guideline and Expert Panel Report. *Chest*. 2019;155(1):155 to 167. doi:10.1016/j.chest.2018.09.016
- 13. Molecular Test Assessment. FilmArray respiratory panel (BioFire Diagnostics LLC). Hayes. www.hayesinc.com. Published May 21, 2020 (annual review May 31, 2022). Accessed February 22, 2023.
- 14. Molecular Test Assessment. FilmArray respiratory panel 2 (BioFire Diagnostics LLC). Hayes. www.hayesinc.com. Published March 10, 2020 (annual review February 24, 2021). Accessed February 22, 2023.

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- 15. Wils J, Saegeman V, Schuermans A. Impact of multiplexed respiratory viral panels on infection control measures and antimicrobial stewardship: a review of the literature. *Eur J Clin Microbiol Infect Dis.* 2022;41(2):187 to 202. doi:10.1007/s10096-021-04375-3
- 16. Ralston SL, Lieberthal AS, Meissner HC, et al. Clinical practice guideline: the diagnosis, management, and prevention of bronchiolitis [published correction appears in Pediatrics. 2015 Oct;136(4):782]. *Pediatrics*. 2014;134(5):e1474 to e1502. doi:10.1542/peds.2014-2742
- 17. Metlay JP, Waterer GW, Long AC, et al. Diagnosis and treatment of adults with community-acquired pneumonia. An official clinical practice guideline of the American Thoracic Society and Infectious Diseases Society of America. *Am J Respir Crit Care Med.* 2019;200(7):e45-e67.
- 18. Global Initiative for Asthma®. Global strategy for asthma management and prevention. https://ginasthma.org/wp-content/uploads/2018/04/wms-GINA-2018-report-tracked_v1.3.pdf . Published 2015. Updated 2018.

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. LHCC 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.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable LHCC administrative policies and procedures.

This clinical policy is effective as of the date determined by LHCC. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. LHCC retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care and are solely responsible for the medical advice and treatment of members/enrollees. This clinical policy is not intended to recommend treatment for members/enrollees. Members/enrollees should consult with their treating physician in connection with diagnosis and treatment decisions.



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