

Clinical Policy: Pulmonary Function Testing

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Description

Pulmonary function tests (PFTs), also known as lung function tests, include a variety of tests to check how well the lungs are working. This policy describes the medical necessity guidelines for pulmonary function testing.

Policy/Criteria

- I. It is the policy of health plans affiliated with Centene Corporation[®] that pulmonary function testing (PFT) is **medically necessary** for members/enrollees aged three years and above when meeting the criteria for one of the following tests:
 - A. Spirometry, one of the following:
 1. Detection of the presence or absence of lung dysfunction suggested by history or clinically significant physical signs and symptoms;
 2. Detection of the presence or absence of lung dysfunction suggested by other abnormal diagnostic tests (e.g., radiography, arterial blood gas analysis);
 3. Quantifying the severity of known lung disease;
 4. Assessment of the change in lung function over time;
 5. Assessment of the change in lung function following administration of or a change in therapy;
 6. Assessment of the risk for surgical procedures known to affect lung function;
 7. Post-bronchodilator spirometry studies when at least one of the following conditions is present and documented in the medical record:
 - a. Signs or symptoms consistent with bronchospasm;
 - b. Spirometry without bronchodilator is abnormal;
 - c. Reversibility or nonreversibility of bronchospasm has not been demonstrated;
Note: Repeat studies are covered only with clinically significant change, necessitating adjustment/augmentation of therapy with appropriate documentation;
 - B. Lung volume tests for any of the following:
 1. Evaluation of the type and degree of pulmonary dysfunction;
 2. Evaluation of dyspnea, cough, and other symptoms;
 3. Early detection of lung dysfunction;
 4. Assessment and follow-up of response to therapy;
 5. Preoperative evaluation;
 6. Tracking of pulmonary disease progression;
 7. Assessment of the effectiveness of therapy for pulmonary conditions;
 8. Preoperative and postoperative evaluations for lung volume reduction surgery (LVRS);
Note: Repeat testing of total lung volume is not typically clinically necessary.
 - C. Diffusion capacity of the lungs for carbon monoxide (DLCO) tests for any of the following⁴:

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1. Evaluation and follow up of parenchymal lung diseases associated with dusts or drug reactions or sarcoidosis;
 2. Evaluation and follow up of emphysema and cystic fibrosis;
 3. Differentiating between chronic bronchitis, emphysema, and asthma in members/enrollees with obstructive patterns;
 4. Evaluation of the pulmonary involvement in systemic diseases (e.g., rheumatoid arthritis, systemic lupus);
 5. Assisting in the evaluation of some types of cardiovascular disease (e.g., primary pulmonary hypertension, pulmonary edema, acute or recurrent thromboembolism);
 6. Prediction of arterial desaturation during exercise in chronic obstructive pulmonary disease (COPD);
 7. Evaluation and quantification of the disability associated with interstitial lung disease;
 8. Evaluation of the effects of chemotherapy agents or other drugs known to induce pulmonary dysfunction;
 9. Evaluation of hemorrhagic disorders;
- D. Lung compliance studies when all other PFTs give equivocal results or results which must be confirmed by additional lung compliance testing;
- E. Pulmonary studies during exercise testing, one of the following⁴:
1. Simple pulmonary stress testing for one of the following:
 - a. Measuring the degree of hypoxemia or desaturation that occurs with exertion;
 - b. Optimizing titration of supplemental oxygen for the correction of hypoxemia;
 2. Complex pulmonary studies during exercise testing protocol for any of the following:
 - a. Distinguishing between cardiac and pulmonary causes for dyspnea;
 - b. Determination of the need for and dose of ambulatory oxygen;
 - c. Assisting in developing a safe exercise prescription for members/enrollees with cardiovascular or pulmonary disease;
 - d. Predicting the morbidity of lung resection;
 - e. Titration of optimal settings in selected patients who have physiologic pacemakers.

Background

Pulmonary function tests (PFTs) are indicated for evaluation of respiratory symptoms such as cough, wheezing, dyspnea, and chest pain, response to bronchodilator therapy, effect of workplace exposure to dust or chemicals, and pulmonary disability. They can also be used to assess severity and progression of lung diseases, such as asthma, and chronic obstructive lung disease.² PFTs can measure obstructive, restrictive, and diffusion defects and respiratory muscle function as well as aid in preoperative assessment or monitoring of disease progression and prognosis.³ Normal test values are calculated based on age, height and gender.¹

Common terminology pertaining to PFTs includes the following²:

- Vital capacity (VC): The maximum volume of air exhaled after maximum inspiration. VC can be measured during forced exhalation (FVC) or slow exhalation (SVC);
- Functional residual capacity (FRC): The volume of air remaining in chest at the end of a tidal volume breath;
- Residual volume (RV): The volume of air remaining in chest after maximal exhalation.

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- Expiratory reserve volume (ERV): The volume of air exhaled from end-tidal volume (FRC) to point of maximal exhalation (RV), thus RV plus ERV equals FRC;
- Inspiratory capacity (IC): The maximum inspiration from end-tidal volume (FRC) to total lung capacity;
- Inspiratory reserve volume (IRV): The volume of air inhaled during tidal breathing from end-inhalation to total lung capacity;
- Total lung capacity (TLC): volume of air in lungs at end of maximal inspiration (usually calculated by RV plus VC or FRC plus IC).

The main types of pulmonary function tests include spirometry, spirometry before and after bronchodilator, lung volumes, and diffusing capacity. Additional tests include flow-volume loops, lung compliance tests, and pulmonary studies during exercise testing.⁴

Spirometry

Spirometry is the most readily available pulmonary function test. It measures lung volumes by measuring the amount of exhaled air at specific time points during forceful and complete exhalation and is a key determinant when diagnosing and monitoring asthma, COPD, chronic cough, neuromuscular diseases affecting breathing, and other causes of airflow obstruction.²

Spirometry can be performed before and after bronchodilator use to determine the degree of reversibility of airflow restriction. Administration of albuterol by a metered-dose inhaler is indicated if baseline spirometry demonstrates airway obstruction or if asthma or COPD is suspected.²

Lung volume tests

Lung volume tests are more precise than spirometry as they are able to measure the total amount of air in the lungs, including the air that remains at the end of a normal breath.¹ Body plethysmography is considered the gold standard for lung volumes measurements, particularly in the setting of significant airflow obstruction. Additional testing methods include helium dilution, nitrogen washout, and measurements based on chest imaging.²

Diffusion capacity tests

A diffusing capacity of the lungs for carbon monoxide (DLCO) test measures how easily oxygen enters the bloodstream.¹ This test is useful in the evaluation of restrictive and obstructive lung disease, as well as pulmonary vascular disease.²

Flow volume loops

A flow-volume loop is a plot of inspiratory and expiratory flow (on the Y-axis) against volume (on the X-axis) during the performance of maximally forced inspiratory and expiratory maneuvers.⁷ This test is useful in the presence of stridor and when evaluating unexplained dyspnea. Airway obstruction located in the pharynx, larynx, or trachea can be difficult to detect from standard FVC maneuvers, and changes in the contour of the test's loop can aid in the diagnosis and localization of airway obstruction.^{2,7}

Pulmonary studies during exercise testing

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Pulmonary studies during exercise testing help to evaluate the causes of shortness of breath. Testing is often conducted in a pulmonary function laboratory and does not require the resources needed for a maximal cardiopulmonary exercise test. Three commonly used tests are the six-minute walk test, the incremental shuttle walk test, and the endurance shuttle walk test.²

Coding Implications

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CPT Codes^{4,5,12}	Description
94010	Spirometry, including graphic record, total and timed vital capacity, expiratory flow rate measurement(s), with or without maximal voluntary ventilation
94060	Bronchodilation responsiveness, spirometry as in 94010, pre- and post-bronchodilator administration
94070	Bronchospasm provocation evaluation, multiple spirometric determinations as in 94010, with administered agents (e.g., antigen[s], cold air, methacholine)
94150	Vital capacity, total (separate procedure)
94200	Maximum breathing capacity, maximal voluntary ventilation
94375	Respiratory flow volume loop
94450	Breathing response to hypoxia (hypoxia response curve)
94617	Exercise test for bronchospasm, including pre- and post-spirometry and pulse oximetry; with electrocardiographic recording(s)
94618	Pulmonary stress testing (e.g., 6-minute walk test) including measurement of heart rate, oximetry, and oxygen titration, when performed
94619	Exercise test for bronchospasm, including pre- and post-spirometry and pulse oximetry; without electrocardiographic recording(s)
94621	Cardiopulmonary exercise testing, including measurements of minute ventilation, CO ₂ production, O ₂ uptake, and electrocardiographic recordings
94680	Oxygen uptake, expired gas analysis; rest and exercise, direct, simple
94681	Oxygen uptake, expired gas analysis; including CO ₂ output, percentage oxygen extracted
94690	Oxygen uptake, expired gas analysis; rest, indirect (separate procedure)
94726	Plethysmography for determination of lung volumes and, when performed, airway resistance
94727	Gas dilution or washout for determination of lung volumes and, when performed, distribution of ventilation and closing volumes
94728	Airway resistance by oscillometry
+94729	Diffusing capacity (e.g., carbon monoxide, membrane)

ICD-10-CM Diagnosis Codes that Support Coverage Criteria

ICD-10 Table 1 The following ICD-10-CM codes support medical necessity for CPT codes: 94010, 94060, 94200, 94375, 94450, 94617, 94618, 94619, 94621, 94680, 94681, 94690, 94726, 94727, 94728 and 94729:

ICD-10-CM Code	Description
A15.0	Tuberculosis of lung
A15.4	Tuberculosis of intrathoracic lymph nodes
A15.5	Tuberculosis of larynx, trachea and bronchus
A15.6	Tuberculous pleurisy
A15.7	Primary respiratory tuberculosis
A15.8	Other respiratory tuberculosis
A18.01	Tuberculosis of spine
A19.0	Acute miliary tuberculosis of a single specified site
A19.1	Acute miliary tuberculosis of multiple sites
A19.8	Other miliary tuberculosis
A20.2	Pneumonic plague
A20.7	Septicemic plague
A22.1	Pulmonary anthrax
A31.0	Pulmonary mycobacterial infection
A36.2	Laryngeal diphtheria
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
A42.0	Pulmonary actinomycosis
A43.0	Pulmonary nocardiosis
A52.72	Syphilis of lung and bronchus
A75.3	Typhus fever due to Rickettsia tsutsugamushi
A78	Q fever
A80.39	Other acute paralytic poliomyelitis
B01.2	Varicella pneumonia
B05.2	Measles complicated by pneumonia
B20	Human immunodeficiency virus [HIV] disease
B25.0	Cytomegaloviral pneumonitis
B37.1	Pulmonary candidiasis
B38.0	Acute pulmonary coccidioidomycosis
B38.1	Chronic pulmonary coccidioidomycosis
B39.0	Acute pulmonary histoplasmosis capsulati

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B39.1	Chronic pulmonary histoplasmosis capsulati
B40.0	Acute pulmonary blastomycosis
B40.1	Chronic pulmonary blastomycosis
B40.7	Disseminated blastomycosis
B40.81	Blastomycotic meningoencephalitis
B40.89	Other forms of blastomycosis
B42.0	Pulmonary sporotrichosis
B42.7	Disseminated sporotrichosis
B42.81	Cerebral sporotrichosis
B42.82	Sporotrichosis arthritis
B42.89	Other forms of sporotrichosis
B44.0	Invasive pulmonary aspergillosis
B44.1	Other pulmonary aspergillosis
B44.2	Tonsillar aspergillosis
B44.7	Disseminated aspergillosis
B44.81	Allergic bronchopulmonary aspergillosis
B44.89	Other forms of aspergillosis
B45.0	Pulmonary cryptococcosis
B45.1	Cerebral cryptococcosis
B45.3	Osseous cryptococcosis
B45.7	Disseminated cryptococcosis
B45.8	Other forms of cryptococcosis
B48.4	Penicillosis
B58.3	Pulmonary toxoplasmosis
B59	Pneumocystosis
B77.81	Ascariasis pneumonia
B91	Sequelae of poliomyelitis
C33	Malignant neoplasm of trachea
C34.01	Malignant neoplasm of right main bronchus
C34.02	Malignant neoplasm of left main bronchus
C34.11	Malignant neoplasm of upper lobe, right bronchus or lung
C34.12	Malignant neoplasm of upper lobe, left bronchus or lung
C34.2	Malignant neoplasm of middle lobe, bronchus or lung
C34.31	Malignant neoplasm of lower lobe, right bronchus or lung
C34.32	Malignant neoplasm of lower lobe, left bronchus or lung
C34.81	Malignant neoplasm of overlapping sites of right bronchus and lung
C34.82	Malignant neoplasm of overlapping sites of left bronchus and lung
C37	Malignant neoplasm of thymus
C38.1	Malignant neoplasm of anterior mediastinum
C38.2	Malignant neoplasm of posterior mediastinum

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C38.4	Malignant neoplasm of pleura
C38.8	Malignant neoplasm of overlapping sites of heart, mediastinum and pleura
C45.0	Mesothelioma of pleura
C45.2	Mesothelioma of pericardium
C45.7	Mesothelioma of other sites
C46.51	Kaposi's sarcoma of right lung
C46.52	Kaposi's sarcoma of left lung
C78.01	Secondary malignant neoplasm of right lung
C78.02	Secondary malignant neoplasm of left lung
C78.1	Secondary malignant neoplasm of mediastinum
C78.2	Secondary malignant neoplasm of pleura
C78.39	Secondary malignant neoplasm of other respiratory organs
C96.5	Multifocal and unisystemic Langerhans-cell histiocytosis
C96.6	Unifocal Langerhans-cell histiocytosis
D02.21	Carcinoma in situ of right bronchus and lung
D02.22	Carcinoma in situ of left bronchus and lung
D02.3	Carcinoma in situ of other parts of respiratory system
D14.1	Benign neoplasm of larynx
D14.2	Benign neoplasm of trachea
D14.31	Benign neoplasm of right bronchus and lung
D14.32	Benign neoplasm of left bronchus and lung
D15.2	Benign neoplasm of mediastinum
D18.1	Lymphangioma, any site
D19.0	Benign neoplasm of mesothelial tissue of pleura
D37.1	Neoplasm of uncertain behavior of stomach
D37.2	Neoplasm of uncertain behavior of small intestine
D37.3	Neoplasm of uncertain behavior of appendix
D37.4	Neoplasm of uncertain behavior of colon
D37.5	Neoplasm of uncertain behavior of rectum
D38.1	Neoplasm of uncertain behavior of trachea, bronchus and lung
D38.2	Neoplasm of uncertain behavior of pleura
D38.3	Neoplasm of uncertain behavior of mediastinum
D38.4	Neoplasm of uncertain behavior of thymus
D38.5	Neoplasm of uncertain behavior of other respiratory organs
D45	Polycythemia vera
D57.01	Hb-SS disease with acute chest syndrome
D57.04	Hb-SS disease with dactylitis
D57.211	Sickle-cell/Hb-C disease with acute chest syndrome
D57.214	Sickle-cell/Hb-C disease with dactylitis

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D57.411	Sickle-cell thalassemia, unspecified, with acute chest syndrome
D57.414	Sickle-cell thalassemia, unspecified, with dactylitis
D57.431	Sickle-cell thalassemia beta zero with acute chest syndrome
D57.434	Sickle-cell thalassemia beta zero with dactylitis
D57.451	Sickle-cell thalassemia beta plus with acute chest syndrome
D57.454	Sickle-cell thalassemia beta plus with dactylitis
D57.811	Other sickle-cell disorders with acute chest syndrome
D57.814	Other sickle-cell disorders with dactylitis
D75.1	Secondary polycythemia
D81.810	Biotinidase deficiency
D84.1	Defects in the complement system
D86.0	Sarcoidosis of lung
D86.1	Sarcoidosis of lymph nodes
D86.2	Sarcoidosis of lung with sarcoidosis of lymph nodes
D86.81	Sarcoid meningitis
D86.82	Multiple cranial nerve palsies in sarcoidosis
D86.85	Sarcoid myocarditis
D86.86	Sarcoid arthropathy
D86.87	Sarcoid myositis
D86.89	Sarcoidosis of other sites
E66.2	Morbid (severe) obesity with alveolar hypoventilation
E84.0	Cystic fibrosis with pulmonary manifestations
E84.11	Meconium ileus in cystic fibrosis
E84.19	Cystic fibrosis with other intestinal manifestations
E84.8	Cystic fibrosis with other manifestations
E85.0	Non-neuropathic heredofamilial amyloidosis
E85.1	Neuropathic heredofamilial amyloidosis
E85.3	Secondary systemic amyloidosis
E85.4	Organ-limited amyloidosis
E85.81	Light chain (AL) amyloidosis
E85.82	Wild-type transthyretin-related (ATTR) amyloidosis
E85.89	Other amyloidosis
E87.20	Acidosis, unspecified
E87.21	Acute metabolic acidosis
E87.22	Chronic metabolic acidosis
E87.29	Other acidosis
E87.3	Alkalosis
E88.01	Alpha-1-antitrypsin deficiency
E88.02	Plasminogen deficiency
E88.3	Tumor lysis syndrome

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E88.41	MELAS syndrome
E88.42	MERRF syndrome
E88.49	Other mitochondrial metabolism disorders
E88.82	Obesity due to disruption of MC4R pathway
E88.89	Other specified metabolic disorders
G12.21	Amyotrophic lateral sclerosis
G12.22	Progressive bulbar palsy
G14	Postpolio syndrome
G47.33	Obstructive sleep apnea (adult) (pediatric)
G61.0	Guillain-Barre syndrome
G70.00	Myasthenia gravis without (acute) exacerbation
G70.01	Myasthenia gravis with (acute) exacerbation
G70.81	Lambert-Eaton syndrome in disease classified elsewhere
G71.00	Muscular dystrophy, unspecified
G71.01	Duchenne or Becker muscular dystrophy
G71.02	Facioscapulohumeral muscular dystrophy
G71.036	Limb girdle muscular dystrophy due to fukutin related protein dysfunction
G71.09	Other specified muscular dystrophies
G71.11	Myotonic muscular dystrophy
G71.12	Myotonia congenita
G71.13	Myotonic chondrodystrophy
G71.14	Drug induced myotonia
G71.19	Other specified myotonic disorders
G72.41	Inclusion body myositis [IBM]
G72.49	Other inflammatory and immune myopathies, not elsewhere classified
G73.1	Lambert-Eaton syndrome in neoplastic disease
I26.01	Septic pulmonary embolism with acute cor pulmonale
I26.02	Saddle embolus of pulmonary artery with acute cor pulmonale
I26.03	Cement embolism of pulmonary artery with acute cor pulmonale
I26.04	Fat embolism of pulmonary artery with acute cor pulmonale
I26.09	Other pulmonary embolism with acute cor pulmonale
I26.90	Septic pulmonary embolism without acute cor pulmonale
I26.92	Saddle embolus of pulmonary artery without acute cor pulmonale
I26.93	Single subsegmental thrombotic pulmonary embolism without acute cor pulmonale
I26.94	Multiple subsegmental thrombotic pulmonary emboli without acute cor pulmonale
I26.95	Cement embolism of pulmonary artery without acute cor pulmonale
I26.96	Fat embolism of pulmonary artery without acute cor pulmonale
I26.99	Other pulmonary embolism without acute cor pulmonale

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I27.0	Primary pulmonary hypertension
I27.1	Kyphoscoliotic heart disease
I27.20	Pulmonary hypertension, unspecified
I27.21	Secondary pulmonary arterial hypertension
I27.22	Pulmonary hypertension due to left heart disease
I27.23	Pulmonary hypertension due to lung diseases and hypoxia
I27.24	Chronic thromboembolic pulmonary hypertension
I27.29	Other secondary pulmonary hypertension
I27.81	Cor pulmonale (chronic)
I27.82	Chronic pulmonary embolism
I27.83	Eisenmenger's syndrome
I27.841	Fontan-associated lymphatic dysfunction
I27.848	Other Fontan-associated condition
I27.849	Fontan related circulation, unspecified
I27.89	Other specified pulmonary heart diseases
I28.0	Arteriovenous fistula of pulmonary vessels
I28.8	Other diseases of pulmonary vessels
I37.0	Nonrheumatic pulmonary valve stenosis
I37.1	Nonrheumatic pulmonary valve insufficiency
I37.2	Nonrheumatic pulmonary valve stenosis with insufficiency
I37.8	Other nonrheumatic pulmonary valve disorders
I42.0	Dilated cardiomyopathy
I42.1	Obstructive hypertrophic cardiomyopathy
I42.2	Other hypertrophic cardiomyopathy
I42.3	Endomyocardial (eosinophilic) disease
I42.4	Endocardial fibroelastosis
I42.5	Other restrictive cardiomyopathy
I42.6	Alcoholic cardiomyopathy
I42.7	Cardiomyopathy due to drug and external agent
I42.8	Other cardiomyopathies
I42.9	Cardiomyopathy, unspecified
I46.2	Cardiac arrest due to underlying cardiac condition
I46.8	Cardiac arrest due to other underlying condition
I50.1	Left ventricular failure, unspecified
I50.21	Acute systolic (congestive) heart failure
I50.22	Chronic systolic (congestive) heart failure
I50.23	Acute on chronic systolic (congestive) heart failure
I50.31	Acute diastolic (congestive) heart failure
I50.32	Chronic diastolic (congestive) heart failure
I50.33	Acute on chronic diastolic (congestive) heart failure

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I50.41	Acute combined systolic (congestive) and diastolic (congestive) heart failure
I50.42	Chronic combined systolic (congestive) and diastolic (congestive) heart failure
I50.43	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure
I50.810	Right heart failure, unspecified
I50.811	Acute right heart failure
I50.812	Chronic right heart failure
I50.813	Acute on chronic right heart failure
I50.814	Right heart failure due to left heart failure
I50.82	Biventricular heart failure
I50.84	End stage heart failure
I50.89	Other heart failure
J04.10	Acute tracheitis without obstruction
J04.11	Acute tracheitis with obstruction
J04.2	Acute laryngotracheitis
J05.0	Acute obstructive laryngitis [croup]
J05.10	Acute epiglottitis without obstruction
J05.11	Acute epiglottitis with obstruction
J06.0	Acute laryngopharyngitis
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 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 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
J11.08	Influenza due to unidentified influenza virus with specified pneumonia
J11.1	Influenza due to unidentified influenza virus with other respiratory manifestations
J12.0	Adenoviral pneumonia
J12.1	Respiratory syncytial virus pneumonia
J12.82	Pneumonia due to coronavirus disease 2019
J13	Pneumonia due to Streptococcus pneumoniae
J15.211	Pneumonia due to Methicillin susceptible Staphylococcus aureus
J15.212	Pneumonia due to Methicillin resistant Staphylococcus aureus

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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
J15.7	Pneumonia due to Mycoplasma pneumoniae
J16.0	Chlamydial pneumonia
J17	Pneumonia in diseases classified elsewhere
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
J20.7	Acute bronchitis due to echovirus
J20.8	Acute bronchitis due to other specified organisms
J21.0	Acute bronchiolitis due to respiratory syncytial virus
J21.1	Acute bronchiolitis due to human metapneumovirus
J21.8	Acute bronchiolitis due to other specified organisms
J37.1	Chronic laryngotracheitis
J38.01	Paralysis of vocal cords and larynx, unilateral
J38.02	Paralysis of vocal cords and larynx, bilateral
J38.4	Edema of larynx
J38.5	Laryngeal spasm
J38.6	Stenosis of larynx
J38.7	Other diseases of larynx
J39.8	Other specified diseases of upper respiratory tract
J40	Bronchitis, not specified as acute or chronic
J41.0	Simple chronic bronchitis
J41.1	Mucopurulent chronic bronchitis
J41.8	Mixed simple and mucopurulent chronic bronchitis
J42	Unspecified chronic bronchitis
J43.0	Unilateral pulmonary emphysema [MacLeod's syndrome]
J43.1	Panlobular emphysema
J43.2	Centrilobular emphysema
J43.8	Other emphysema
J43.9	Emphysema, unspecified
J44.0	Chronic obstructive pulmonary disease with (acute) lower respiratory infection
J44.1	Chronic obstructive pulmonary disease with (acute) exacerbation

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J44.81	Bronchiolitis obliterans and bronchiolitis obliterans syndrome
J44.89	Other specified chronic obstructive pulmonary disease
J44.9	Chronic obstructive pulmonary disease, unspecified
J45.20	Mild intermittent asthma, uncomplicated
J45.21	Mild intermittent asthma with (acute) exacerbation
J45.22	Mild intermittent asthma with status asthmaticus
J45.30	Mild persistent asthma, uncomplicated
J45.31	Mild persistent asthma with (acute) exacerbation
J45.32	Mild persistent asthma with status asthmaticus
J45.40	Moderate persistent asthma, uncomplicated
J45.41	Moderate persistent asthma with (acute) exacerbation
J45.42	Moderate persistent asthma with status asthmaticus
J45.50	Severe persistent asthma, uncomplicated
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
J45.909	Unspecified asthma, uncomplicated
J45.990	Exercise induced bronchospasm
J45.991	Cough variant asthma
J45.998	Other asthma
J47.0	Bronchiectasis with acute lower respiratory infection
J47.1	Bronchiectasis with (acute) exacerbation
J47.9	Bronchiectasis, uncomplicated
J60	Coalworker's pneumoconiosis
J61	Pneumoconiosis due to asbestos and other mineral fibers
J62.0	Pneumoconiosis due to talc dust
J62.8	Pneumoconiosis due to other dust containing silica
J63.0	Aluminosis (of lung)
J63.1	Bauxite fibrosis (of lung)
J63.2	Berylliosis
J63.3	Graphite fibrosis (of lung)
J63.4	Siderosis
J63.5	Stannosis
J63.6	Pneumoconiosis due to other specified inorganic dusts
J64	Unspecified pneumoconiosis
J65	Pneumoconiosis associated with tuberculosis
J66.0	Byssinosis
J66.1	Flax-dressers' disease
J66.2	Cannabinosis

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J66.8	Airway disease due to other specific organic dusts
J67.0	Farmer's lung
J67.1	Bagassosis
J67.2	Bird fancier's lung
J67.3	Suberosis
J67.4	Maltworker's lung
J67.5	Mushroom-worker's lung
J67.6	Maple-bark-stripper's lung
J67.7	Air conditioner and humidifier lung
J67.8	Hypersensitivity pneumonitis due to other organic dusts
J67.9	Hypersensitivity pneumonitis due to unspecified organic dust
J68.0	Bronchitis and pneumonitis due to chemicals, gases, fumes and vapors
J68.1	Pulmonary edema due to chemicals, gases, fumes and vapors
J68.2	Upper respiratory inflammation due to chemicals, gases, fumes and vapors, not elsewhere classified
J68.3	Other acute and subacute respiratory conditions due to chemicals, gases, fumes and vapors
J68.4	Chronic respiratory conditions due to chemicals, gases, fumes and vapors
J68.8	Other respiratory conditions due to chemicals, gases, fumes and vapors
J69.0	Pneumonitis due to inhalation of food and vomit
J69.1	Pneumonitis due to inhalation of oils and essences
J69.8	Pneumonitis due to inhalation of other solids and liquids
J70.0	Acute pulmonary manifestations due to radiation
J70.1	Chronic and other pulmonary manifestations due to radiation
J70.2	Acute drug-induced interstitial lung disorders
J70.3	Chronic drug-induced interstitial lung disorders
J70.5	Respiratory conditions due to smoke inhalation
J70.8	Respiratory conditions due to other specified external agents
J70.9	Respiratory conditions due to unspecified external agent
J80	Acute respiratory distress syndrome
J81.0	Acute pulmonary edema
J81.1	Chronic pulmonary edema
J82.81	Chronic eosinophilic pneumonia
J82.82	Acute eosinophilic pneumonia
J82.83	Eosinophilic asthma
J82.89	Other pulmonary eosinophilia, not elsewhere classified
J84.01	Alveolar proteinosis
J84.02	Pulmonary alveolar microlithiasis
J84.03	Idiopathic pulmonary hemosiderosis
J84.09	Other alveolar and parieto-alveolar conditions
J84.10	Pulmonary fibrosis, unspecified

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J84.111	Idiopathic interstitial pneumonia, not otherwise specified
J84.112	Idiopathic pulmonary fibrosis
J84.113	Idiopathic non-specific interstitial pneumonitis
J84.114	Acute interstitial pneumonitis
J84.115	Respiratory bronchiolitis interstitial lung disease
J84.116	Cryptogenic organizing pneumonia
J84.117	Desquamative interstitial pneumonia
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
J84.2	Lymphoid interstitial pneumonia
J84.81	Lymphangiomyomatosis
J84.82	Adult pulmonary Langerhans cell histiocytosis
J84.83	Surfactant mutations of the lung
J84.841	Neuroendocrine cell hyperplasia of infancy
J84.842	Pulmonary interstitial glycogenosis
J84.843	Alveolar capillary dysplasia with vein misalignment
J84.848	Other interstitial lung diseases of childhood
J84.89	Other specified interstitial pulmonary diseases
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
J86.0	Pyothorax with fistula
J86.9	Pyothorax without fistula
J90	Pleural effusion, not elsewhere classified
J91.0	Malignant pleural effusion
J91.8	Pleural effusion in other conditions classified elsewhere
J92.0	Pleural plaque with presence of asbestos
J92.9	Pleural plaque without asbestos
J93.0	Spontaneous tension pneumothorax
J93.11	Primary spontaneous pneumothorax
J93.12	Secondary spontaneous pneumothorax
J93.81	Chronic pneumothorax
J93.82	Other air leak
J93.83	Other pneumothorax
J94.0	Chylous effusion
J94.1	Fibrothorax
J94.2	Hemothorax
J94.8	Other specified pleural conditions

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J95.01	Hemorrhage from tracheostomy stoma
J95.02	Infection of tracheostomy stoma
J95.03	Malfunction of tracheostomy stoma
J95.04	Tracheo-esophageal fistula following tracheostomy
J95.09	Other tracheostomy complication
J95.1	Acute pulmonary insufficiency following thoracic surgery
J95.2	Acute pulmonary insufficiency following nonthoracic surgery
J95.3	Chronic pulmonary insufficiency following surgery
J95.811	Postprocedural pneumothorax
J95.812	Postprocedural air leak
J95.821	Acute postprocedural respiratory failure
J95.822	Acute and chronic postprocedural respiratory failure
J95.84	Transfusion-related acute lung injury (TRALI)
J95.850	Mechanical complication of respirator
J95.860	Postprocedural hematoma of a respiratory system organ or structure following a respiratory system procedure
J95.861	Postprocedural hematoma of a respiratory system organ or structure following other procedure
J95.862	Postprocedural seroma of a respiratory system organ or structure following a respiratory system procedure
J95.863	Postprocedural seroma of a respiratory system organ or structure following other procedure
J95.89	Other postprocedural complications and disorders of respiratory system, not elsewhere classified
J96.01	Acute respiratory failure with hypoxia
J96.02	Acute respiratory failure with hypercapnia
J96.10	Chronic respiratory failure, unspecified whether with hypoxia or hypercapnia
J96.11	Chronic respiratory failure with hypoxia
J96.12	Chronic respiratory failure with hypercapnia
J96.21	Acute and chronic respiratory failure with hypoxia
J96.22	Acute and chronic respiratory failure with hypercapnia
J96.90	Respiratory failure, unspecified, unspecified whether with hypoxia or hypercapnia
J96.91	Respiratory failure, unspecified with hypoxia
J96.92	Respiratory failure, unspecified with hypercapnia
J98.01	Acute bronchospasm
J98.09	Other diseases of bronchus, not elsewhere classified
J98.11	Atelectasis
J98.19	Other pulmonary collapse
J98.2	Interstitial emphysema
J98.3	Compensatory emphysema

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J98.4	Other disorders of lung
J98.51	Mediastinitis
J98.59	Other diseases of mediastinum, not elsewhere classified
J98.6	Disorders of diaphragm
J98.8	Other specified respiratory disorders
J99	Respiratory disorders in diseases classified elsewhere
K76.81	Hepatopulmonary syndrome
M05.111	Rheumatoid lung disease with rheumatoid arthritis of right shoulder
M05.112	Rheumatoid lung disease with rheumatoid arthritis of left shoulder
M05.121	Rheumatoid lung disease with rheumatoid arthritis of right elbow
M05.122	Rheumatoid lung disease with rheumatoid arthritis of left elbow
M05.131	Rheumatoid lung disease with rheumatoid arthritis of right wrist
M05.132	Rheumatoid lung disease with rheumatoid arthritis of left wrist
M05.141	Rheumatoid lung disease with rheumatoid arthritis of right hand
M05.142	Rheumatoid lung disease with rheumatoid arthritis of left hand
M05.151	Rheumatoid lung disease with rheumatoid arthritis of right hip
M05.152	Rheumatoid lung disease with rheumatoid arthritis of left hip
M05.161	Rheumatoid lung disease with rheumatoid arthritis of right knee
M05.162	Rheumatoid lung disease with rheumatoid arthritis of left knee
M05.171	Rheumatoid lung disease with rheumatoid arthritis of right ankle and foot
M05.172	Rheumatoid lung disease with rheumatoid arthritis of left ankle and foot
M05.19	Rheumatoid lung disease with rheumatoid arthritis of multiple sites
M31.0	Hypersensitivity angiitis
M32.13	Lung involvement in systemic lupus erythematosus
M33.01	Juvenile dermatomyositis with respiratory involvement
M33.11	Other dermatomyositis with respiratory involvement
M33.21	Polymyositis with respiratory involvement
M33.91	Dermatopolymyositis, unspecified with respiratory involvement
M34.81	Systemic sclerosis with lung involvement
M35.02	Sjogren syndrome with lung involvement
M41.112	Juvenile idiopathic scoliosis, cervical region
M41.113	Juvenile idiopathic scoliosis, cervicothoracic region
M41.114	Juvenile idiopathic scoliosis, thoracic region
M41.115	Juvenile idiopathic scoliosis, thoracolumbar region
M41.116	Juvenile idiopathic scoliosis, lumbar region
M41.117	Juvenile idiopathic scoliosis, lumbosacral region
M41.122	Adolescent idiopathic scoliosis, cervical region
M41.123	Adolescent idiopathic scoliosis, cervicothoracic region
M41.124	Adolescent idiopathic scoliosis, thoracic region
M41.125	Adolescent idiopathic scoliosis, thoracolumbar region

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M41.126	Adolescent idiopathic scoliosis, lumbar region
M41.127	Adolescent idiopathic scoliosis, lumbosacral region
M41.22	Other idiopathic scoliosis, cervical region
M41.23	Other idiopathic scoliosis, cervicothoracic region
M41.24	Other idiopathic scoliosis, thoracic region
M41.25	Other idiopathic scoliosis, thoracolumbar region
M41.26	Other idiopathic scoliosis, lumbar region
M41.27	Other idiopathic scoliosis, lumbosacral region
O08.2	Embolism following ectopic and molar pregnancy
O74.0	Aspiration pneumonitis due to anesthesia during labor and delivery
O74.1	Other pulmonary complications of anesthesia during labor and delivery
O89.01	Aspiration pneumonitis due to anesthesia during the puerperium
O89.09	Other pulmonary complications of anesthesia during the puerperium
R04.2	Hemoptysis
R04.81	Acute idiopathic pulmonary hemorrhage in infants
R04.89	Hemorrhage from other sites in respiratory passages
R05.1	Acute cough
R05.2	Subacute cough
R05.3	Chronic cough
R05.4	Cough syncope
R05.8	Other specified cough
R05.9	Cough, unspecified
R06.00	Dyspnea, unspecified
R06.01	Orthopnea
R06.02	Shortness of breath
R06.03	Acute respiratory distress
R06.09	Other forms of dyspnea
R06.1	Stridor
R06.2	Wheezing
R06.3	Periodic breathing
R06.4	Hyperventilation
R06.81	Apnea, not elsewhere classified
R06.82	Tachypnea, not elsewhere classified
R06.83	Snoring
R06.89	Other abnormalities of breathing
R07.1	Chest pain on breathing
R07.81	Pleurodynia
R09.01	Asphyxia
R09.02	Hypoxemia
R09.1	Pleurisy

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R09.2	Respiratory arrest
R09.89	Other specified symptoms and signs involving the circulatory and respiratory systems
R23.0	Cyanosis
R78.81	Bacteremia
R79.81	Abnormal blood-gas level
R91.1	Solitary pulmonary nodule
R91.8	Other nonspecific abnormal finding of lung field
R94.2	Abnormal results of pulmonary function studies
S21.311A	Laceration without foreign body of right front wall of thorax with penetration into thoracic cavity, initial encounter
S21.311D	Laceration without foreign body of right front wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.311S	Laceration without foreign body of right front wall of thorax with penetration into thoracic cavity, sequela
S21.312A	Laceration without foreign body of left front wall of thorax with penetration into thoracic cavity, initial encounter
S21.312D	Laceration without foreign body of left front wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.312S	Laceration without foreign body of left front wall of thorax with penetration into thoracic cavity, sequela
S21.321A	Laceration with foreign body of right front wall of thorax with penetration into thoracic cavity, initial encounter
S21.321D	Laceration with foreign body of right front wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.321S	Laceration with foreign body of right front wall of thorax with penetration into thoracic cavity, sequela
S21.322A	Laceration with foreign body of left front wall of thorax with penetration into thoracic cavity, initial encounter
S21.322D	Laceration with foreign body of left front wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.322S	Laceration with foreign body of left front wall of thorax with penetration into thoracic cavity, sequela
S21.331A	Puncture wound without foreign body of right front wall of thorax with penetration into thoracic cavity, initial encounter
S21.331D	Puncture wound without foreign body of right front wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.331S	Puncture wound without foreign body of right front wall of thorax with penetration into thoracic cavity, sequela
S21.332A	Puncture wound without foreign body of left front wall of thorax with penetration into thoracic cavity, initial encounter
S21.332D	Puncture wound without foreign body of left front wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.332S	Puncture wound without foreign body of left front wall of thorax with penetration into thoracic cavity, sequela

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S21.341A	Puncture wound with foreign body of right front wall of thorax with penetration into thoracic cavity, initial encounter
S21.341D	Puncture wound with foreign body of right front wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.341S	Puncture wound with foreign body of right front wall of thorax with penetration into thoracic cavity, sequela
S21.342A	Puncture wound with foreign body of left front wall of thorax with penetration into thoracic cavity, initial encounter
S21.342D	Puncture wound with foreign body of left front wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.342S	Puncture wound with foreign body of left front wall of thorax with penetration into thoracic cavity, sequela
S21.351A	Open bite of right front wall of thorax with penetration into thoracic cavity, initial encounter
S21.351D	Open bite of right front wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.351S	Open bite of right front wall of thorax with penetration into thoracic cavity, sequela
S21.352A	Open bite of left front wall of thorax with penetration into thoracic cavity, initial encounter
S21.352D	Open bite of left front wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.352S	Open bite of left front wall of thorax with penetration into thoracic cavity, sequela
S21.411A	Laceration without foreign body of right back wall of thorax with penetration into thoracic cavity, initial encounter
S21.411D	Laceration without foreign body of right back wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.411S	Laceration without foreign body of right back wall of thorax with penetration into thoracic cavity, sequela
S21.412A	Laceration without foreign body of left back wall of thorax with penetration into thoracic cavity, initial encounter
S21.412D	Laceration without foreign body of left back wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.412S	Laceration without foreign body of left back wall of thorax with penetration into thoracic cavity, sequela
S21.421A	Laceration with foreign body of right back wall of thorax with penetration into thoracic cavity, initial encounter
S21.421D	Laceration with foreign body of right back wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.421S	Laceration with foreign body of right back wall of thorax with penetration into thoracic cavity, sequela
S21.422A	Laceration with foreign body of left back wall of thorax with penetration into thoracic cavity, initial encounter
S21.422D	Laceration with foreign body of left back wall of thorax with penetration into thoracic cavity, subsequent encounter

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S21.422S	Laceration with foreign body of left back wall of thorax with penetration into thoracic cavity, sequela
S21.431A	Puncture wound without foreign body of right back wall of thorax with penetration into thoracic cavity, initial encounter
S21.431D	Puncture wound without foreign body of right back wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.431S	Puncture wound without foreign body of right back wall of thorax with penetration into thoracic cavity, sequela
S21.432A	Puncture wound without foreign body of left back wall of thorax with penetration into thoracic cavity, initial encounter
S21.432D	Puncture wound without foreign body of left back wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.432S	Puncture wound without foreign body of left back wall of thorax with penetration into thoracic cavity, sequela
S21.441A	Puncture wound with foreign body of right back wall of thorax with penetration into thoracic cavity, initial encounter
S21.441D	Puncture wound with foreign body of right back wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.441S	Puncture wound with foreign body of right back wall of thorax with penetration into thoracic cavity, sequela
S21.442A	Puncture wound with foreign body of left back wall of thorax with penetration into thoracic cavity, initial encounter
S21.442D	Puncture wound with foreign body of left back wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.442S	Puncture wound with foreign body of left back wall of thorax with penetration into thoracic cavity, sequela
S21.451A	Open bite of right back wall of thorax with penetration into thoracic cavity, initial encounter
S21.451D	Open bite of right back wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.451S	Open bite of right back wall of thorax with penetration into thoracic cavity, sequela
S21.452A	Open bite of left back wall of thorax with penetration into thoracic cavity, initial encounter
S21.452D	Open bite of left back wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.452S	Open bite of left back wall of thorax with penetration into thoracic cavity, sequela
S26.01XA	Contusion of heart with hemopericardium, initial encounter
S26.01XD	Contusion of heart with hemopericardium, subsequent encounter
S26.01XS	Contusion of heart with hemopericardium, sequela
S26.020A	Mild laceration of heart with hemopericardium, initial encounter
S26.020D	Mild laceration of heart with hemopericardium, subsequent encounter
S26.020S	Mild laceration of heart with hemopericardium, sequela
S26.021A	Moderate laceration of heart with hemopericardium, initial encounter

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S26.021D	Moderate laceration of heart with hemopericardium, subsequent encounter
S26.021S	Moderate laceration of heart with hemopericardium, sequela
S26.022A	Major laceration of heart with hemopericardium, initial encounter
S26.022D	Major laceration of heart with hemopericardium, subsequent encounter
S26.022S	Major laceration of heart with hemopericardium, sequela
S26.09XA	Other injury of heart with hemopericardium, initial encounter
S26.09XD	Other injury of heart with hemopericardium, subsequent encounter
S26.09XS	Other injury of heart with hemopericardium, sequela
S26.11XA	Contusion of heart without hemopericardium, initial encounter
S26.11XD	Contusion of heart without hemopericardium, subsequent encounter
S26.11XS	Contusion of heart without hemopericardium, sequela
S26.12XA	Laceration of heart without hemopericardium, initial encounter
S26.12XD	Laceration of heart without hemopericardium, subsequent encounter
S26.12XS	Laceration of heart without hemopericardium, sequela
S26.19XA	Other injury of heart without hemopericardium, initial encounter
S26.19XD	Other injury of heart without hemopericardium, subsequent encounter
S26.19XS	Other injury of heart without hemopericardium, sequela
S27.0XXA	Traumatic pneumothorax, initial encounter
S27.0XXD	Traumatic pneumothorax, subsequent encounter
S27.0XXS	Traumatic pneumothorax, sequela
S27.1XXA	Traumatic hemothorax, initial encounter
S27.1XXD	Traumatic hemothorax, subsequent encounter
S27.1XXS	Traumatic hemothorax, sequela
S27.2XXA	Traumatic hemopneumothorax, initial encounter
S27.2XXD	Traumatic hemopneumothorax, subsequent encounter
S27.2XXS	Traumatic hemopneumothorax, sequela
S27.311A	Primary blast injury of lung, unilateral, initial encounter
S27.311D	Primary blast injury of lung, unilateral, subsequent encounter
S27.311S	Primary blast injury of lung, unilateral, sequela
S27.312A	Primary blast injury of lung, bilateral, initial encounter
S27.312D	Primary blast injury of lung, bilateral, subsequent encounter
S27.312S	Primary blast injury of lung, bilateral, sequela
S27.321A	Contusion of lung, unilateral, initial encounter
S27.321D	Contusion of lung, unilateral, subsequent encounter
S27.321S	Contusion of lung, unilateral, sequela
S27.322A	Contusion of lung, bilateral, initial encounter
S27.322D	Contusion of lung, bilateral, subsequent encounter
S27.322S	Contusion of lung, bilateral, sequela
S27.331A	Laceration of lung, unilateral, initial encounter

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S27.331D	Laceration of lung, unilateral, subsequent encounter
S27.331S	Laceration of lung, unilateral, sequela
S27.332A	Laceration of lung, bilateral, initial encounter
S27.332D	Laceration of lung, bilateral, subsequent encounter
S27.332S	Laceration of lung, bilateral, sequela
S27.391A	Other injuries of lung, unilateral, initial encounter
S27.391D	Other injuries of lung, unilateral, subsequent encounter
S27.391S	Other injuries of lung, unilateral, sequela
S27.392A	Other injuries of lung, bilateral, initial encounter
S27.392D	Other injuries of lung, bilateral, subsequent encounter
S27.392S	Other injuries of lung, bilateral, sequela
S27.411A	Primary blast injury of bronchus, unilateral, initial encounter
S27.411D	Primary blast injury of bronchus, unilateral, subsequent encounter
S27.411S	Primary blast injury of bronchus, unilateral, sequela
S27.412A	Primary blast injury of bronchus, bilateral, initial encounter
S27.412D	Primary blast injury of bronchus, bilateral, subsequent encounter
S27.412S	Primary blast injury of bronchus, bilateral, sequela
S27.421A	Contusion of bronchus, unilateral, initial encounter
S27.421D	Contusion of bronchus, unilateral, subsequent encounter
S27.421S	Contusion of bronchus, unilateral, sequela
S27.422A	Contusion of bronchus, bilateral, initial encounter
S27.422D	Contusion of bronchus, bilateral, subsequent encounter
S27.422S	Contusion of bronchus, bilateral, sequela
S27.431A	Laceration of bronchus, unilateral, initial encounter
S27.431D	Laceration of bronchus, unilateral, subsequent encounter
S27.431S	Laceration of bronchus, unilateral, sequela
S27.432A	Laceration of bronchus, bilateral, initial encounter
S27.432D	Laceration of bronchus, bilateral, subsequent encounter
S27.432S	Laceration of bronchus, bilateral, sequela
S27.491A	Other injury of bronchus, unilateral, initial encounter
S27.491D	Other injury of bronchus, unilateral, subsequent encounter
S27.491S	Other injury of bronchus, unilateral, sequela
S27.492A	Other injury of bronchus, bilateral, initial encounter
S27.492D	Other injury of bronchus, bilateral, subsequent encounter
S27.492S	Other injury of bronchus, bilateral, sequela
S27.51XA	Primary blast injury of thoracic trachea, initial encounter
S27.51XD	Primary blast injury of thoracic trachea, subsequent encounter
S27.51XS	Primary blast injury of thoracic trachea, sequela
S27.52XA	Contusion of thoracic trachea, initial encounter
S27.52XD	Contusion of thoracic trachea, subsequent encounter

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S27.52XS	Contusion of thoracic trachea, sequela
S27.53XA	Laceration of thoracic trachea, initial encounter
S27.53XD	Laceration of thoracic trachea, subsequent encounter
S27.53XS	Laceration of thoracic trachea, sequela
S27.59XA	Other injury of thoracic trachea, initial encounter
S27.59XD	Other injury of thoracic trachea, subsequent encounter
S27.59XS	Other injury of thoracic trachea, sequela
S27.63XA	Laceration of pleura, initial encounter
S27.63XD	Laceration of pleura, subsequent encounter
S27.63XS	Laceration of pleura, sequela
S27.69XA	Other injury of pleura, initial encounter
S27.69XD	Other injury of pleura, subsequent encounter
S27.69XS	Other injury of pleura, sequela
S27.802A	Contusion of diaphragm, initial encounter
S27.802D	Contusion of diaphragm, subsequent encounter
S27.802S	Contusion of diaphragm, sequela
S27.803A	Laceration of diaphragm, initial encounter
S27.803D	Laceration of diaphragm, subsequent encounter
S27.803S	Laceration of diaphragm, sequela
S27.808A	Other injury of diaphragm, initial encounter
S27.808D	Other injury of diaphragm, subsequent encounter
S27.808S	Other injury of diaphragm, sequela
S27.812A	Contusion of esophagus (thoracic part), initial encounter
S27.812D	Contusion of esophagus (thoracic part), subsequent encounter
S27.812S	Contusion of esophagus (thoracic part), sequela
S27.813A	Laceration of esophagus (thoracic part), initial encounter
S27.813D	Laceration of esophagus (thoracic part), subsequent encounter
S27.813S	Laceration of esophagus (thoracic part), sequela
S27.818A	Other injury of esophagus (thoracic part), initial encounter
S27.818D	Other injury of esophagus (thoracic part), subsequent encounter
S27.818S	Other injury of esophagus (thoracic part), sequela
S27.892A	Contusion of other specified intrathoracic organs, initial encounter
S27.892D	Contusion of other specified intrathoracic organs, subsequent encounter
S27.892S	Contusion of other specified intrathoracic organs, sequela
S27.893A	Laceration of other specified intrathoracic organs, initial encounter
S27.893D	Laceration of other specified intrathoracic organs, subsequent encounter
S27.893S	Laceration of other specified intrathoracic organs, sequela
S27.898A	Other injury of other specified intrathoracic organs, initial encounter
S27.898D	Other injury of other specified intrathoracic organs, subsequent encounter

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S27.898S	Other injury of other specified intrathoracic organs, sequela
S32.411S	Displaced fracture of anterior wall of right acetabulum, sequela
T53.5X1A	Toxic effect of chlorofluorocarbons, accidental (unintentional), initial encounter
T53.5X1D	Toxic effect of chlorofluorocarbons, accidental (unintentional), subsequent encounter
T53.5X1S	Toxic effect of chlorofluorocarbons, accidental (unintentional), sequela
T53.5X2A	Toxic effect of chlorofluorocarbons, intentional self-harm, initial encounter
T53.5X2D	Toxic effect of chlorofluorocarbons, intentional self-harm, subsequent encounter
T53.5X2S	Toxic effect of chlorofluorocarbons, intentional self-harm, sequela
T53.5X3A	Toxic effect of chlorofluorocarbons, assault, initial encounter
T53.5X3D	Toxic effect of chlorofluorocarbons, assault, subsequent encounter
T53.5X3S	Toxic effect of chlorofluorocarbons, assault, sequela
T53.5X4A	Toxic effect of chlorofluorocarbons, undetermined, initial encounter
T53.5X4D	Toxic effect of chlorofluorocarbons, undetermined, subsequent encounter
T53.5X4S	Toxic effect of chlorofluorocarbons, undetermined, sequela
T56.821A	Toxic effect of gadolinium, accidental (unintentional), initial encounter
T56.821D	Toxic effect of gadolinium, accidental (unintentional), subsequent encounter
T56.821S	Toxic effect of gadolinium, accidental (unintentional), sequela
T56.822A	Toxic effect of gadolinium, intentional self-harm, initial encounter
T56.822D	Toxic effect of gadolinium, intentional self-harm, subsequent encounter
T56.822S	Toxic effect of gadolinium, intentional self-harm, sequela
T56.823A	Toxic effect of gadolinium, assault, initial encounter
T56.823D	Toxic effect of gadolinium, assault, subsequent encounter
T56.823S	Toxic effect of gadolinium, assault, sequela
T56.824A	Toxic effect of gadolinium, undetermined, initial encounter
T56.824D	Toxic effect of gadolinium, undetermined, subsequent encounter
T56.824S	Toxic effect of gadolinium, undetermined, sequela
T57.3X1A	Toxic effect of hydrogen cyanide, accidental (unintentional), initial encounter
T57.3X1D	Toxic effect of hydrogen cyanide, accidental (unintentional), subsequent encounter
T57.3X1S	Toxic effect of hydrogen cyanide, accidental (unintentional), sequela
T57.3X2A	Toxic effect of hydrogen cyanide, intentional self-harm, initial encounter
T57.3X2D	Toxic effect of hydrogen cyanide, intentional self-harm, subsequent encounter
T57.3X2S	Toxic effect of hydrogen cyanide, intentional self-harm, sequela
T57.3X3A	Toxic effect of hydrogen cyanide, assault, initial encounter
T57.3X3D	Toxic effect of hydrogen cyanide, assault, subsequent encounter

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T57.3X3S	Toxic effect of hydrogen cyanide, assault, sequela
T57.3X4A	Toxic effect of hydrogen cyanide, undetermined, initial encounter
T57.3X4D	Toxic effect of hydrogen cyanide, undetermined, subsequent encounter
T57.3X4S	Toxic effect of hydrogen cyanide, undetermined, sequela
T59.0X1A	Toxic effect of nitrogen oxides, accidental (unintentional), initial encounter
T59.0X1D	Toxic effect of nitrogen oxides, accidental (unintentional), subsequent encounter
T59.0X1S	Toxic effect of nitrogen oxides, accidental (unintentional), sequela
T59.0X2A	Toxic effect of nitrogen oxides, intentional self-harm, initial encounter
T59.0X2D	Toxic effect of nitrogen oxides, intentional self-harm, subsequent encounter
T59.0X2S	Toxic effect of nitrogen oxides, intentional self-harm, sequela
T59.0X3A	Toxic effect of nitrogen oxides, assault, initial encounter
T59.0X3D	Toxic effect of nitrogen oxides, assault, subsequent encounter
T59.0X3S	Toxic effect of nitrogen oxides, assault, sequela
T59.0X4A	Toxic effect of nitrogen oxides, undetermined, initial encounter
T59.0X4D	Toxic effect of nitrogen oxides, undetermined, subsequent encounter
T59.0X4S	Toxic effect of nitrogen oxides, undetermined, sequela
T59.1X1A	Toxic effect of sulfur dioxide, accidental (unintentional), initial encounter
T59.1X1D	Toxic effect of sulfur dioxide, accidental (unintentional), subsequent encounter
T59.1X1S	Toxic effect of sulfur dioxide, accidental (unintentional), sequela
T59.1X2A	Toxic effect of sulfur dioxide, intentional self-harm, initial encounter
T59.1X2D	Toxic effect of sulfur dioxide, intentional self-harm, subsequent encounter
T59.1X2S	Toxic effect of sulfur dioxide, intentional self-harm, sequela
T59.1X3A	Toxic effect of sulfur dioxide, assault, initial encounter
T59.1X3D	Toxic effect of sulfur dioxide, assault, subsequent encounter
T59.1X3S	Toxic effect of sulfur dioxide, assault, sequela
T59.1X4A	Toxic effect of sulfur dioxide, undetermined, initial encounter
T59.1X4D	Toxic effect of sulfur dioxide, undetermined, subsequent encounter
T59.1X4S	Toxic effect of sulfur dioxide, undetermined, sequela
T59.2X1A	Toxic effect of formaldehyde, accidental (unintentional), initial encounter
T59.2X1D	Toxic effect of formaldehyde, accidental (unintentional), subsequent encounter
T59.2X1S	Toxic effect of formaldehyde, accidental (unintentional), sequela
T59.2X2A	Toxic effect of formaldehyde, intentional self-harm, initial encounter
T59.2X2D	Toxic effect of formaldehyde, intentional self-harm, subsequent encounter

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T59.2X2S	Toxic effect of formaldehyde, intentional self-harm, sequela
T59.2X3A	Toxic effect of formaldehyde, assault, initial encounter
T59.2X3D	Toxic effect of formaldehyde, assault, subsequent encounter
T59.2X3S	Toxic effect of formaldehyde, assault, sequela
T59.2X4A	Toxic effect of formaldehyde, undetermined, initial encounter
T59.2X4D	Toxic effect of formaldehyde, undetermined, subsequent encounter
T59.2X4S	Toxic effect of formaldehyde, undetermined, sequela
T59.3X1A	Toxic effect of lacrimogenic gas, accidental (unintentional), initial encounter
T59.3X1D	Toxic effect of lacrimogenic gas, accidental (unintentional), subsequent encounter
T59.3X1S	Toxic effect of lacrimogenic gas, accidental (unintentional), sequela
T59.3X2A	Toxic effect of lacrimogenic gas, intentional self-harm, initial encounter
T59.3X2D	Toxic effect of lacrimogenic gas, intentional self-harm, subsequent encounter
T59.3X2S	Toxic effect of lacrimogenic gas, intentional self-harm, sequela
T59.3X3A	Toxic effect of lacrimogenic gas, assault, initial encounter
T59.3X3D	Toxic effect of lacrimogenic gas, assault, subsequent encounter
T59.3X3S	Toxic effect of lacrimogenic gas, assault, sequela
T59.3X4A	Toxic effect of lacrimogenic gas, undetermined, initial encounter
T59.3X4D	Toxic effect of lacrimogenic gas, undetermined, subsequent encounter
T59.3X4S	Toxic effect of lacrimogenic gas, undetermined, sequela
T59.4X1A	Toxic effect of chlorine gas, accidental (unintentional), initial encounter
T59.4X1D	Toxic effect of chlorine gas, accidental (unintentional), subsequent encounter
T59.4X1S	Toxic effect of chlorine gas, accidental (unintentional), sequela
T59.4X2A	Toxic effect of chlorine gas, intentional self-harm, initial encounter
T59.4X2D	Toxic effect of chlorine gas, intentional self-harm, subsequent encounter
T59.4X2S	Toxic effect of chlorine gas, intentional self-harm, sequela
T59.4X3A	Toxic effect of chlorine gas, assault, initial encounter
T59.4X3D	Toxic effect of chlorine gas, assault, subsequent encounter
T59.4X3S	Toxic effect of chlorine gas, assault, sequela
T59.4X4A	Toxic effect of chlorine gas, undetermined, initial encounter
T59.4X4D	Toxic effect of chlorine gas, undetermined, subsequent encounter
T59.4X4S	Toxic effect of chlorine gas, undetermined, sequela
T59.5X1A	Toxic effect of fluorine gas and hydrogen fluoride, accidental (unintentional), initial encounter
T59.5X1D	Toxic effect of fluorine gas and hydrogen fluoride, accidental (unintentional), subsequent encounter
T59.5X1S	Toxic effect of fluorine gas and hydrogen fluoride, accidental (unintentional), sequela

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T59.5X2A	Toxic effect of fluorine gas and hydrogen fluoride, intentional self-harm, initial encounter
T59.5X2D	Toxic effect of fluorine gas and hydrogen fluoride, intentional self-harm, subsequent encounter
T59.5X2S	Toxic effect of fluorine gas and hydrogen fluoride, intentional self-harm, sequela
T59.5X3A	Toxic effect of fluorine gas and hydrogen fluoride, assault, initial encounter
T59.5X3D	Toxic effect of fluorine gas and hydrogen fluoride, assault, subsequent encounter
T59.5X3S	Toxic effect of fluorine gas and hydrogen fluoride, assault, sequela
T59.5X4A	Toxic effect of fluorine gas and hydrogen fluoride, undetermined, initial encounter
T59.5X4D	Toxic effect of fluorine gas and hydrogen fluoride, undetermined, subsequent encounter
T59.5X4S	Toxic effect of fluorine gas and hydrogen fluoride, undetermined, sequela
T59.6X1A	Toxic effect of hydrogen sulfide, accidental (unintentional), initial encounter
T59.6X1D	Toxic effect of hydrogen sulfide, accidental (unintentional), subsequent encounter
T59.6X1S	Toxic effect of hydrogen sulfide, accidental (unintentional), sequela
T59.6X2A	Toxic effect of hydrogen sulfide, intentional self-harm, initial encounter
T59.6X2D	Toxic effect of hydrogen sulfide, intentional self-harm, subsequent encounter
T59.6X2S	Toxic effect of hydrogen sulfide, intentional self-harm, sequela
T59.6X3A	Toxic effect of hydrogen sulfide, assault, initial encounter
T59.6X3D	Toxic effect of hydrogen sulfide, assault, subsequent encounter
T59.6X3S	Toxic effect of hydrogen sulfide, assault, sequela
T59.6X4A	Toxic effect of hydrogen sulfide, undetermined, initial encounter
T59.6X4D	Toxic effect of hydrogen sulfide, undetermined, subsequent encounter
T59.6X4S	Toxic effect of hydrogen sulfide, undetermined, sequela
T59.7X1A	Toxic effect of carbon dioxide, accidental (unintentional), initial encounter
T59.7X1D	Toxic effect of carbon dioxide, accidental (unintentional), subsequent encounter
T59.7X1S	Toxic effect of carbon dioxide, accidental (unintentional), sequela
T59.7X2A	Toxic effect of carbon dioxide, intentional self-harm, initial encounter
T59.7X2D	Toxic effect of carbon dioxide, intentional self-harm, subsequent encounter
T59.7X2S	Toxic effect of carbon dioxide, intentional self-harm, sequela
T59.7X3A	Toxic effect of carbon dioxide, assault, initial encounter
T59.7X3D	Toxic effect of carbon dioxide, assault, subsequent encounter

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T59.7X3S	Toxic effect of carbon dioxide, assault, sequela
T59.7X4A	Toxic effect of carbon dioxide, undetermined, initial encounter
T59.7X4D	Toxic effect of carbon dioxide, undetermined, subsequent encounter
T59.7X4S	Toxic effect of carbon dioxide, undetermined, sequela
T59.811A	Toxic effect of smoke, accidental (unintentional), initial encounter
T59.811D	Toxic effect of smoke, accidental (unintentional), subsequent encounter
T59.811S	Toxic effect of smoke, accidental (unintentional), sequela
T59.812A	Toxic effect of smoke, intentional self-harm, initial encounter
T59.812D	Toxic effect of smoke, intentional self-harm, subsequent encounter
T59.812S	Toxic effect of smoke, intentional self-harm, sequela
T59.813A	Toxic effect of smoke, assault, initial encounter
T59.813D	Toxic effect of smoke, assault, subsequent encounter
T59.813S	Toxic effect of smoke, assault, sequela
T59.814A	Toxic effect of smoke, undetermined, initial encounter
T59.814D	Toxic effect of smoke, undetermined, subsequent encounter
T59.814S	Toxic effect of smoke, undetermined, sequela
T59.891A	Toxic effect of other specified gases, fumes and vapors, accidental (unintentional), initial encounter
T59.891D	Toxic effect of other specified gases, fumes and vapors, accidental (unintentional), subsequent encounter
T59.891S	Toxic effect of other specified gases, fumes and vapors, accidental (unintentional), sequela
T59.892A	Toxic effect of other specified gases, fumes and vapors, intentional self-harm, initial encounter
T59.892D	Toxic effect of other specified gases, fumes and vapors, intentional self-harm, subsequent encounter
T59.892S	Toxic effect of other specified gases, fumes and vapors, intentional self-harm, sequela
T59.893A	Toxic effect of other specified gases, fumes and vapors, assault, initial encounter
T59.893D	Toxic effect of other specified gases, fumes and vapors, assault, subsequent encounter
T59.893S	Toxic effect of other specified gases, fumes and vapors, assault, sequela
T59.894A	Toxic effect of other specified gases, fumes and vapors, undetermined, initial encounter
T59.894D	Toxic effect of other specified gases, fumes and vapors, undetermined, subsequent encounter
T59.894S	Toxic effect of other specified gases, fumes and vapors, undetermined, sequela
T65.211A	Toxic effect of chewing tobacco, accidental (unintentional), initial encounter
T65.211D	Toxic effect of chewing tobacco, accidental (unintentional), subsequent encounter

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T65.211S	Toxic effect of chewing tobacco, accidental (unintentional), sequela
T65.212A	Toxic effect of chewing tobacco, intentional self-harm, initial encounter
T65.212D	Toxic effect of chewing tobacco, intentional self-harm, subsequent encounter
T65.212S	Toxic effect of chewing tobacco, intentional self-harm, sequela
T65.213A	Toxic effect of chewing tobacco, assault, initial encounter
T65.213D	Toxic effect of chewing tobacco, assault, subsequent encounter
T65.213S	Toxic effect of chewing tobacco, assault, sequela
T65.214A	Toxic effect of chewing tobacco, undetermined, initial encounter
T65.214D	Toxic effect of chewing tobacco, undetermined, subsequent encounter
T65.214S	Toxic effect of chewing tobacco, undetermined, sequela
T65.221A	Toxic effect of tobacco cigarettes, accidental (unintentional), initial encounter
T65.221D	Toxic effect of tobacco cigarettes, accidental (unintentional), subsequent encounter
T65.221S	Toxic effect of tobacco cigarettes, accidental (unintentional), sequela
T65.222A	Toxic effect of tobacco cigarettes, intentional self-harm, initial encounter
T65.222D	Toxic effect of tobacco cigarettes, intentional self-harm, subsequent encounter
T65.222S	Toxic effect of tobacco cigarettes, intentional self-harm, sequela
T65.223A	Toxic effect of tobacco cigarettes, assault, initial encounter
T65.223D	Toxic effect of tobacco cigarettes, assault, subsequent encounter
T65.223S	Toxic effect of tobacco cigarettes, assault, sequela
T65.224A	Toxic effect of tobacco cigarettes, undetermined, initial encounter
T65.224D	Toxic effect of tobacco cigarettes, undetermined, subsequent encounter
T65.224S	Toxic effect of tobacco cigarettes, undetermined, sequela
T65.291A	Toxic effect of other tobacco and nicotine, accidental (unintentional), initial encounter
T65.291D	Toxic effect of other tobacco and nicotine, accidental (unintentional), subsequent encounter
T65.291S	Toxic effect of other tobacco and nicotine, accidental (unintentional), sequela
T65.292A	Toxic effect of other tobacco and nicotine, intentional self-harm, initial encounter
T65.292D	Toxic effect of other tobacco and nicotine, intentional self-harm, subsequent encounter
T65.292S	Toxic effect of other tobacco and nicotine, intentional self-harm, sequela
T65.293A	Toxic effect of other tobacco and nicotine, assault, initial encounter
T65.293D	Toxic effect of other tobacco and nicotine, assault, subsequent encounter
T65.293S	Toxic effect of other tobacco and nicotine, assault, sequela
T65.294A	Toxic effect of other tobacco and nicotine, undetermined, initial encounter

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T65.294D	Toxic effect of other tobacco and nicotine, undetermined, subsequent encounter
T65.294S	Toxic effect of other tobacco and nicotine, undetermined, sequela
Z09	Encounter for follow-up examination after completed treatment for conditions other than malignant neoplasm
Z43.0	Encounter for attention to tracheostomy
Z48.21	Encounter for aftercare following heart transplant
Z48.24	Encounter for aftercare following lung transplant
Z48.280	Encounter for aftercare following heart-lung transplant
Z48.290	Encounter for aftercare following bone marrow transplant
Z76.82	Awaiting organ transplant status
Z79.899	Other long term (current) drug therapy
Z86.11	Personal history of tuberculosis
Z86.12	Personal history of poliomyelitis
Z86.15	Personal history of latent tuberculosis infection
Z86.16	Personal history of COVID-19
Z87.01	Personal history of pneumonia (recurrent)
Z87.09	Personal history of other diseases of the respiratory system
Z93.0	Tracheostomy status
Z94.2	Lung transplant status
Z94.3	Heart and lungs transplant status
Z94.81	Bone marrow transplant status
Z94.84	Stem cells transplant status
Z99.11	Dependence on respirator [ventilator] status

ICD-10 Table 2 The following ICD-10-CM codes support medical necessity for CPT codes 94617, 94618, 94619 and 94621 in addition to the codes in ICD-10 Table 1:

ICD-10-CM Code	Description
E66.2	Morbid (severe) obesity with alveolar hypoventilation
R06.02	Shortness of breath
R06.09	Other forms of dyspnea
R06.2	Wheezing
R06.82	Tachypnea, not elsewhere classified
R06.83	Snoring
R06.89	Other abnormalities of breathing
Z79.899	Other long term (current) drug therapy

ICD-10 Table 3 The following ICD-10-CM codes support medical necessity for CPT code: 94070:

ICD-10-CM Code	Description
J44.9	Chronic obstructive pulmonary disease, unspecified
J45.20	Mild intermittent asthma, uncomplicated
J45.21	Mild intermittent asthma with (acute) exacerbation

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ICD-10-CM Code	Description
J45.22	Mild intermittent asthma with status asthmaticus
J45.30	Mild persistent asthma, uncomplicated
J45.31	Mild persistent asthma with (acute) exacerbation
J45.32	Mild persistent asthma with status asthmaticus
J45.40	Moderate persistent asthma, uncomplicated
J45.41	Moderate persistent asthma with (acute) exacerbation
J45.42	Moderate persistent asthma with status asthmaticus
J45.50	Severe persistent asthma, uncomplicated
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
J45.909	Unspecified asthma, uncomplicated
J45.991	Cough variant asthma
J45.998	Other asthma
J98.4	Other disorders of lung
R05.1	Acute cough
R05.2	Subacute cough
R05.3	Chronic cough
R05.4	Cough syncope
R05.8	Other specified cough
R05.9	Cough, unspecified

ICD-10 Table 4 The following ICD-10-CM codes support medical necessity for CPT codes: 94070, 94617, 94618, 94619, 94621:

ICD-10-CM Code	Description
J12.82	Pneumonia due to coronavirus disease 2019
J45.990	Exercise induced bronchospasm
Z86.16	Personal history of COVID-19

Reviews, Revisions, and Approvals	Revision Date	Approval Date
Policy developed	03/22	03/22
Added to the medical necessity statement in I. that PFTs are medically necessary for members/enrollees 3 years of age and above. Removed demarcation of spirometry indications as diagnostic or for monitoring purposes. In B.2, noted that the indication also includes assessing for concurrent restrictive and obstructive disease. Minor rewording of other criteria with no clinical significance. Added multiple additional codes as medically necessary in ICD-10 Table 1. Added 96417-96419 and 96421 as applicable to ICD-10 Table 1. Changed order of ICD-10 Tables 2 and 3 so that Table 3 now applies to 94070. Removed codes duplicative with ICD-10 Table 1 in ICD-10 Table 2. Removed R06.83 in Table 2.	06/22	06/22

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Removed reference to “coverage” from all ICD-10 coding tables. Updated with additional references. Reviewed by multiple specialists.		
Changed I28.88 to I28.8 in ICD-10 Table 1.	07/22	
Added the following codes to ICD-10 Table 1: B44.81, D86.81, I42.0-I42.8, J84.842, J84.843, M41.116, M41.117, M41.126, M41.127, M41.26, M41.27, Z48.21 and Z48.280. Added LCA A56784 to references accordingly.	10/22	
Annual review. Updated Criteria I.B.1. to include type and degree of pulmonary dysfunction. Minor rewording to Criteria I.B.2. and I.B.4. without clinical significance. Minor rewording to Criteria C. Background updated with no impact on criteria. References reviewed and updated.	03/23	03/23
Added the following codes to ICD-10 Table 1: J15.61, J15.69, J44.81, J44.89, J4A.0, J4A.8, and J4A.9.	02/24	
Annual review. Updated description and background with no clinical significance. Coding reviewed. References reviewed and updated. Reviewed by external specialist.	03/24	03/24
Annual review. Updated Criteria I. for clarity. Updated Criteria I.A.1. and I.A.2. regarding the presence or absence of lung dysfunction... Updated Criteria I.A.3., I.A.4., I.A.5., and I.A.6. regarding assessment of severity of known lung disease, assessment of the change in lung function...and assessment of the risk for surgical procedures...Updated Criteria I.A.7.a. and I.A.7.c. for clarity and to include nonreversibility in Criteria I.A.7.c. Added Note under Criteria I.A.7.c. about repeat studies...Updated Criteria I.B.1., I.B.2., and I.B.3. regarding evaluation and early detection of pulmonary dysfunction and symptoms...Updated Criteria I.B.4., I.B.5., I.B.6., I.B.7., and I.B.8. regarding assessment and response to therapy...preoperative and postoperative evaluations...tracking of pulmonary disease progression, and assessment of effectiveness...Note added under Criteria I.B.8. regarding repeat testing...Updated Criteria I.C.1. through I.C.9. regarding evaluation and follow up of parenchymal lung diseases...emphysema and cystic fibrosis...differentiating between chronic bronchitis, emphysema, and asthma...evaluation of pulmonary involvement in systemic diseases...some types of cardiovascular disease...prediction of arterial desaturation...evaluation and quantification of the disability associated with interstitial lung disease, evaluation of the effects of chemotherapy agents or other drugs...and evaluation of hemorrhagic disorders. Added clarifying language to Criteria I.E.2.c. Background updated with no impact to criteria. Codes were brought into alignment with A57224 and A57225 LCAs, both revised on January 01, 2025, and with A56717 and A56784 LCAs, both revised on October 01, 2024. Added 94150 to CPT Code Table. Added the following to ICD-10 Table 1: A18.01, A19.0, A19.1, A19.8, A20.2, A20.7, A22.1, A36.2, A37.00, A37.01, A37.10, A37.11, A37.80, A37.81, A52.72, A75.3, A78, B01.2, B05.2, B20,	03/25	03/25

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<p>B25.0, B39.0, B40.81, B42.81, B42.82, B44.0, B44.1, B44.2, B44.7, B44.89, B45.1, B45.3, B48.4, C45.7, D02.3, D14.1, D37.1 through D37.5, D45, D57.01, D57.04, D57.211, D57.214, D57.411, D57.414, D57.431, D57.434, D57.451, D57.454, D57.811, D57.814, D81.810, D84.1, D86.86, E84.11, E85.0, E85.1, E85.3, E85.81, E85.82, E85.89, E87.20, E87.21, E87.22, E87.29, E87.3, E88.01, E88.02, E88.3, E88.41, E88.42, E88.49, E88.82, G47.33, G71.00, G71.12, G71.13, G71.14, G71.19, G72.41, G72.49, I26.03, I26.04, I26.93, I26.95, I26.96, I28.0, I28.8, I46.2, I46.8, J04.10, J04.11, J04.2, J05.0, J05.10, J05.11, J06.0, J09.X1 through J09.X9, J10.01, J10.08, J10.1, J11.08, J11.1, J12.0, J12.1, J15.211, J15.212, J15.29, J15.3, J15.4, J17, J37.1, J38.01, J38.02, J38.4, J38.5, J38.6, J38.7, J45.42, J84.841, J93.0, J93.11, J93.12, J93.81, J93.82, J93.83, J95.01, J95.03, J95.04, J95.09, J95.811, J95.812, J95.821, J95.822, J95.850, J95.860, J95.861, J95.862, J95.863, J95.89, J98.51, K76.81, O08.2, O74.0, O74.1, O89.01, O89.09, R04.81, R05.9, R06.81, R06.83, R07.81, R09.2, R78.81, S21.311A through S21.312S, S21.321A through S21.322S, S21.331A through S21.332S, S21.341A through S21.342S, S21.351A through S21.352S, S21.411A through S21.412S, S21.421A through S21.422S, S21.431A through S21.432S, S21.441A through S21.442S, S21.451A through S21.452S, S26.01XA through S26.022S, S26.09XA, S26.09XD, S26.09XS, S26.11XA through S26.12XS, S26.19XA, S26.19XD, S26.19XS, S27.0XXA through S27.2XXS, S27.311A through S27.312S, S27.321A through S27.322S, S27.331A through S27.332S, S27.391A through S27.392S, S27.411A through S27.412S, S27.421A through S27.422S, S27.431A through S27.432S, S27.491A through S27.492S, S27.51XA through S27.53XS, S27.59XA, S27.59XD, S27.59XS, S27.63XA, S27.63XD, S27.63XS, S27.69XA, S27.69XD, S27.69XS, S27.802A through S27.803S, S27.808A, S27.808D, S27.808S, S27.812A through S27.813S, S27.818A, S27.818D, S27.818S, S27.892A through S27.893S, S27.898A, S27.898D, S27.898S, S32.411S, T56.821A through T56.824S, T65.211A through T65.214S, T65.221A through T65.224S, T65.291A through T65.294S, Z09, Z43.0, Z48.290, Z86.11, Z86.12, Z86.15, Z93.0, Z94.81, Z94.84, Z99.11. Added the following to ICD-10 Table 2: E66.2, R06.02, R06.09, R06.2, R06.82, R06.83, R06.89, and Z79.899. Added R05.9 to ICD-10 Table 3. ICD-10 Table 4 added to include coverage for codes J12.82, J45.990, and Z86.16 for CPT codes 94070, 94617, 94618, 94619, and 94621. Removed the following from ICD-10 Table 1: A15.9, B38.2, B39.2, B40.2, B46.0, B46.4, B47.1, B67.1, B90.9, B95.3, B96.0, C34.00, C34.10, C34.30, C34.80, C34.90, C34.91, C34.92, C38.0, C38.3, C39.0, C39.9, C45.9, C7A.090, C7A.091, C78.00, C81.12, C81.22, C81.32, C81.42, C81.72, C81.92, C82.02, C82.12, C82.22, C82.32, C82.42, C82.52, C82.62, C82.82, C82.92, C83.02, C83.12, C83.32, C83.52, C83.82, C83.92, C84.02,</p>		

Reviews, Revisions, and Approvals	Revision Date	Approval Date
<p>C84.12, C84.42, C84.62, C84.72, C84.A2, C84.Z2, C85.12, C85.22, C85.82, C85.92, C88.0, D02.20, D14.30, D15.0, D49.1, D57.1, D68.61, D86.3, D86.9, E66.01, E74.02, E84.9, F51.8, G12.0, G12.1, G12.20, G12.23, G12.24, G12.25, G12.29, G12.8, G12.9, G65.0, G70.80, G71.29, G80.9, G82.51 through G82.54, G83.81 through G83.84, G83.89, I27.9, I28.1, I28.88, I34.0, I34.2, I35.0, I35.1, I35.8, I36.1, I37.9, I50.20, I50.30, I50.40, I50.83, I50.9, J12.81, J12.89, J12.9, J15.1, J15.8, J15.9, J16.8, J18.0, J18.1, J18.2, J18.8, J18.9, J20.9, J21.9, J22, J39.9, J4A.0, J4A.8, J4A.9, J68.9, J70.4, J84.9, J94.9, J95.4, J95.5, J96.00, J96.20, M05.10, M06.1, M06.39, M08.1, M30.0, M30.1, M31.2, M31.30, M31.31, M31.8, M31.9, M32.0, M32.10, M32.8, M32.9, M33.00, M33.20, M34.1, M34.9, M35.00, M35.1, M35.89, M35.9, M36.0, M40.03, M40.04, M40.05, M40.292 through M40.295, M40.30, M40.35, M40.45, M41.34, M41.35, M45.0, M45.2 through M45.5, M47.12 through M47.15, O29.011, O29.012, O29.013, O29.019, O29.021, O29.022, O29.023, O29.029, O29.091, O29.092, O29.093, O29.099, O99.511, O99.512, O99.513, O99.519, Q22.0 through Q22.3, Q24.8, Q24.89, Q25.6, Q25.71, Q25.72, Q25.79, Q31.5, Q32.0 through Q32.4, Q33.0, Q33.1, Q33.3 through Q33.9, Q34.0, Q34.1, Q34.8, Q34.9, Q67.5, Q67.6, Q67.8, Q76.3, Q76.412 through Q76.415, Q76.425, Q76.8, Q76.9, R06.9, T50.0X1A through T50.0X5S, T50.1X1A through T50.1X5S, T50.2X1A through T50.2X5S, T50.3X1A through T50.3X5S, T50.905A through T50.905S, T53.0X1A through T53.4X4S, T53.6X1A through T53.7X4S, T58.01XA through T58.2X4S, T59.91XA through T59.94XS, T86.810 through T86.819, Z22.7, Z79.3, Z79.51, Z79.891, Z85.118, Z86.711, Z90.2, Z94.1. Removed the following from ICD-10 Table 2: I43, Q21.0 through Q21.9, Q22.0 through Q22.9, Q23.0 through Q23.9, Q24.0 through Q24.9, Q25.0 through Q25.9, Q26.0 through Q26.9, Q27.0 through Q27.9, and Q28.0 through 28.9. Removed the following from ICD-10 Table 3: J44.0, J44.89, J45.990, J95.84, R06.02, R06.1, R06.2. References reviewed and updated.</p>		
<p>Updated 03/25 revision log with specific codes added and removed; removed portion of 03/25 revision log that stated in error that the age limit of three was removed from policy statement I.</p>	09/25	
<p>Annual review. Coding and descriptions reviewed and updated. Added the following to ICD-10 Table 1: G71.036, I27.841, I27.848, I27.849. References reviewed and updated. Reviewed by external specialist.</p>	03/26	03/26

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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.

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

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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 Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. 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. The Health Plan 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.

Providers referred to in this clinical policy are independent contractors who exercise independent judgment and over whom the Health Plan has no control or right of control. Providers are not agents or employees of the Health Plan.

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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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