# Appendix

Table A1. List of ICD-10 Codes for the Identification of the COPD Patient Population

| ICD-9 Code | Description | Excludes |
| --- | --- | --- |
| **491** | Chronic bronchitis | Excl.: chronic obstructive asthma (493.2) |
| **491.0** | Simple chronic bronchitisIncl.:Catarrhal bronchitis, chronicSmokers' cough |  |
| **491.1** | Mucopurulent chronic bronchitisIncl.:Bronchitis (chronic) (recurrent):FetidMucopurulentpurulent |  |
| **491.2** | Obstructive chronic bronchitisIncl.:Bronchitis:emphysematousobstructive (chronic) (diffuse)Bronchitis with:chronic airway obstructionemphysema | Excl.: asthmatic bronchitis (acute) (NOS) 493.9; chronic obstructive asthma 493.2 |
| **491.20** | Obstructive chronic bronchitis without exacerbationIncl.:Emphysema with chronic bronchitis |  |
| **491.21** | Obstructive chronic bronchitis with (acute) exacerbationIncl.:Acute exacerbation of chronic obstructive pulmonary disease [COPD]Decompensated chronic obstructive pulmonary disease [COPD]Decompensated chronic obstructive pulmonary disease [COPD] with exacerbation | Excl.: chronic obstructive asthma with acute exacerbation 493.22 |
| **491.22** | Obstructive chronic bronchitis with acute bronchitis |  |
| **491.8** | Other chronic bronchitisIncl.:Chronic:tracheitistracheobronchitis |  |
| **491.9** | Unspecified chronic bronchitis |  |
| **492** | Emphysema |  |
| **492.0** | Emphysematous blebIncl.:Giant bullous emphysemaRuptured emphysematous blebTension pneumatoceleVanishing lung |  |
| **492.8** | Other emphysemaIncl.:Emphysema (lung or pulmonary):NOScentriacinarcentrilobularobstructivepanacinarpanlobularunilateralvesicularMacLeod's syndromeSwyer-James syndromeUnilateral hyperlucent lung | Excl.: emphysema: with chronic bronchitis (491.20-491.22); compensatory (518.2); due to fumes and vapors (506.4); interstitial (518.1); newborn (770.2); mediastinal (518.1); surgical (subcutaneous) (998.81); traumatic (958.7) |
| **496** | Chronic airway obstruction, not elsewhere classifiedIncl.:Chronic:nonspecific lung diseaseobstructive lung diseaseobstructive pulmonary disease [COPD] NOS | Excl.: chronic obstructive lung disease [COPD] specified (as) (with): allergic alveolitis (495.0-495.9); asthma (493.2); bronchiectasis (494.0-494.1); bronchitis (491.20-491.22); with emphysema (491.20-491.22); decompensated (491.21); emphysema (492.0-492.8)  |

| ICD-10 code | Description | Excludes |
| --- | --- | --- |
| **J41** | Simple and mucopurulent chronic bronchitis | Excl.:chronic bronchitis:NOS (J42) obstructive (J44.-)  |
| **J41.0** | Simple chronic bronchitis |  |
| **J41.1** | Mucopurulent chronic bronchitis |  |
| **J41.8** | Mixed simple and mucopurulent chronic bronchitis |  |
| **J42** | Unspecified chronic bronchitisIncl.:Chronic:bronchitis NOStracheitistracheobronchitis | Excl.:chronic:asthmatic bronchitis (J44.-) bronchitis:simple and mucopurulent (J41.-) with airways obstruction (J44.-) emphysematous bronchitis (J44.-) obstructive pulmonary disease NOS (J44.9) |
| **J43** | Emphysema | Excl.:emphysema:compensatory (J98.3) due to inhalation of chemicals, gases, fumes or vapours (J68.4) interstitial (J98.2) interstitialneonatal (P25.0) mediastinal (J98.2) surgical (subcutaneous) (T81.8) traumatic subcutaneous (T79.7) with chronic (obstructive) bronchitis (J44.-) emphysematous (obstructive) bronchitis (J44.-) |
| **J43.1** | Panlobular emphysemaPanacinar emphysema |  |
| **J43.2** | Centrilobular emphysema |  |
| **J43.8** | Other emphysema |  |
| **J43.9** | Emphysema, unspecifiedEmphysema (lung)(pulmonary):NOSbullousvesicularEmphysematous bleb |  |
| **J44** | Other chronic obstructive pulmonary diseaseIncl.: chronic: bronchitis: asthmatic (obstructive) emphysematous with: airways obstruction emphysema obstructive: asthma bronchitis tracheobronchitis | Excl.: asthma (J45.-)  asthmatic bronchitis NOS (J45.9)  bronchiectasis (J47)  chronic: tracheitis (J42) tracheobronchitis (J42)  emphysema (J43.-)  lung diseases due to external agents (J60-J70)  |
| **J44.0** | Chronic obstructive pulmonary disease with acute lower respiratory infection | Excl.: with influenza (J09-J11)  |
| **J44.1** | Chronic obstructive pulmonary disease with acute exacerbation, unspecified |  |
| **J44.8** | Other specified chronic obstructive pulmonary disease Chronic bronchitis: asthmatic (obstructive) NOS emphysematous NOS obstructive NOS | Excl.: with acute exacerbation (J44.1)  with acute lower respiratory infection (J44.0)  |
| **J44.9** | Chronic obstructive pulmonary disease, unspecified Chronic obstructive: airway disease NOS lung disease NOS |  |