INCLUDES acute myocardial infarction occurring within four weeks (28 days) of a previous acute myocardial infarction, regardless of site cardiac infarction

coronary (artery) embolism

coronary (artery) occlusion

coronary (artery) rupture

coronary (artery) thrombosis

infarction of heart, myocardium, or ventricle

recurrent myocardial infarction reinfarction of myocardium

rupture of heart, myocardium, or ventricle subsequent type 1 myocardial infarction

Use additional code, if applicable, to identify.

exposure to environmental tobacco smoke (Z77.22) history of tobacco dependence (Z87.891)

occupational exposure to environmental tobacco smoke (Z57.31)

status post administration of tPA (rtPA) in a different facility within the last 24 hours prior to admission to current facility

tobacco dependence (F17.-) tobacco use (Z72.0)

**EXCLUDES 1** subsequent myocardial infarction, type 2  $(12\hat{1}.A1)$ 

subsequent myocardial infarction of other type (type 3) (type 4) (type 5) (I21.A9)

GUIDELINES Section I.C.9.e.4)

If a subsequent myocardial infarction of one type occurs within 4 weeks of a myocardial infarction of a different type, assign the appropriate codes from category I21 to identify each type. Do not assign a code from I22. Codes from category I22 should only be assigned if both the initial and subsequent myocardial infarctions are type 1 or unspecified.

## GUIDELINES Section I.C.9.e.4)

A code from category I22, Subsequent ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction, is to be used when a patient who has suffered a type 1 or unspecified AMI has a new AMI within the 4 week time frame of the initial AMI. A code from category I22 must be used in conjunction with a code from category I21.

CODING TIP ✓ A code from category I22 must be used in conjunction with a code from category I21. The sequencing of the codes will depend on the circumstances of the

CODING TIP✓ A code from category I22 should not be used for subsequent MIs other than type I or unspecified. For subsequent type 2 AMIs, assign code I21.A1. For subsequent type 4 or 5 AMIs, assign code I21.A9. When assigning I21.A1, you must code first the underlying cause. AHA: 4Q 2012, 97, 103-104

AHA: 1Q 2013, 25

### Subsequent ST elevation (STEMI) myocardial MCCHCC infarction of anterior wall

Subsequent acute transmural myocardial infarction of anterior

Subsequent transmural (Q wave) infarction (acute)(of) anterior (wall) NOS

Subsequent anteroapical transmural (Q wave) infarction

Subsequent anterolateral transmural (Q wave) infarction (acute)

Subsequent anteroseptal transmural (Q wave) infarction

CC Ex: See Appendix

### Subsequent ST elevation (STEMI) myocardial I22.1 infarction of inferior wall

Subsequent acute transmural myocardial infarction of inferior wall

Subsequent transmural (Q wave) infarction (acute)(of) diaphragmatic wall

Subsequent transmural (Q wave) infarction (acute)(of) inferior (wall) NOS

Subsequent inferolateral transmural (Q wave) infarction (acute)

Subsequent inferoposterior transmural (Q wave) infarction (acute)

AHA: 4Q 2012, 97, 102, 103-104

CC Ex: See Appendix

### I22.2 Subsequent non-ST elevation (NSTEMI) mvocardial infarction

MCCIHCO

Subsequent acute subendocardial myocardial infarction Subsequent non-O wave myocardial infarction NOS Subsequent nontransmural myocardial infarction NOS CC Ex: See Appendix

122.8 Subsequent ST elevation (STEMI) myocardial MCCIHCC infarction of other sites

Subsequent acute transmural myocardial infarction of other

Subsequent apical-lateral transmural (Q wave) myocardial infarction (acute)

Subsequent basal-lateral transmural (Q wave) myocardial infarction (acute)

Subsequent high lateral transmural (Q wave) myocardial infarction (acute)

Subsequent transmural (Q wave) myocardial infarction (acute)(of) lateral (wall) NOS

Subsequent posterior (true) transmural (Q wave) myocardial infarction (acute)

Subsequent posterobasal transmural (Q wave) myocardial infarction (acute)

Subsequent posterolateral transmural (Q wave) myocardial infarction (acute)

Subsequent posteroseptal transmural (Q wave) myocardial infarction (acute)

Subsequent septal NOS transmural (Q wave) myocardial infarction (acute)

CC Ex: See Appendix

### 122.9 Subsequent ST elevation (STEMI) myocardial infarction of unspecified site

Subsequent acute myocardial infarction of unspecified site Subsequent myocardial infarction (acute) NOS CC Ex: See Appendix

### 4 I23 Certain current complications following ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction (within the 28 day period)

CODING TIP✓ When assigning a code from category I23.-, also assign a code from category I21.-, and I22.-, as appropriate, if the encounter is within 4 weeks of the AMI. Use of codes from category I23.- may be appropriate after the 4 week period has lapsed. "Within the 28 day period" is a non-essential modifier in the category title. (AHA: 2Q 2017)

Hemopericardium as current complication CCHCCA I23.0 following acute myocardial infarction

**EXCLUDES 1** hemopericardium not specified as current complication following acute myocardial infarction (I31.2)

CODING TIP ✓ Documentation: Hemopericardium is frequently documented with cardiac wall rupture, including ventricular rupture, following MI, and results in pooling of blood in the pericardial space. leading to tamponade. This life-threatening condition may occur during or shortly after an MI.

CC Ex: See Appendix

I23.1 CCHCCIA Atrial septal defect as current complication following acute myocardial infarction

**EXCLUDES 1** acquired atrial septal defect not specified as current complication following acute myocardial infarction (I51.0)

CC Ex: See Appendix

**I23.2** Ventricular septal defect as current complication following acute myocardial infarction

CCHCCIA

**EXCLUDES 1** acquired ventricular septal defect not specified as current complication following acute myocardial infarction (151.0)

CC Ex: See Appendix

I23.3 Rupture of cardiac wall without CC HCC A hemopericardium as current complication following acute myocardial infarction AHA: 2Q 2017, 11

CC Ex: See Appendix

Rupture of chordae tendineae as current complication following acute myocardial MCCIHCC

EXCLUDES 1 rupture of chordae tendineae not specified as current complication following acute myocardial infarction (I51.1)

122

123.5

Tear in the fibrous, cord-like tissue DEFINITION connecting the papillary muscles to the valves, holding the valve flaps in place to prevent their eversion. CC Ex: See Appendix Rupture of papillary muscle as current complication following acute myocardial infarction **EXCLUDES 1** rupture of papillary muscle not specified as

current complication following acute myocardial infarction (151.2)

CC Ex: See Appendix

Thrombosis of atrium, auricular appendage 123.6 CCHCCIA and ventricle as current complications following acute myocardial infarction

**EXCLUDES 1** thrombosis of atrium, auricular appendage, and ventricle not specified as current complication following acute myocardial infarction (I51.3)

CC Ex: See Appendix

123.7 Postinfarction angina CCHCCA

CCIHCC

CCHCC

CCIHCC

CODING TIP ✓ Post-infarction angina includes a syndrome of ischemic chest pain occurring either at rest or during minimal activity 24 hours or more following an acute MI. It is more common after NSTEMI. Post infarction angina is considered a complication (not simply angina after an MI) and must be documented by the physician.

AHA: 2Q 2015, 16-17 CC Ex: See Appendix

Other current complications following acute CC HCC A myocardial infarction

CC Ex: See Appendix

124 Other acute ischemic heart diseases

**EXCLUDES 1** angina pectoris (120.-)

transient myocardial ischemia in newborn (P29.4)

non-ischemic myocardial injury (I5A) EXCLUDES 2

I24.0 Acute coronary thrombosis not resulting in myocardial infarction

Acute coronary (artery) (vein) embolism not resulting in myocardial infarction

Acute coronary (artery) (vein) occlusion not resulting in myocardial infarction

Acute coronary (artery) (vein) thromboembolism not resulting in myocardial infarction

**EXCLUDES 1** atherosclerotic heart disease (I25.1-)

AHA: 1Q 2013, 24 CC Ex: See Appendix Dressler's syndrome

I24.1 Postmyocardial infarction syndrome

**EXCLUDES 1** postinfarction angina (I23.7)

DEFINITION Fever, chest pain, pleuritis, and pericarditis weeks or months after heart injury caused by surgery or myocardial infarction.

CC Ex: See Appendix

124.8 Other forms of acute ischemic heart disease

**EXCLUDES 1** myocardial infarction due to demand ischemia (I21.A1)

CC Ex: See Appendix

124.9 Acute ischemic heart disease, unspecified

> EXCLUDES 1 ischemic heart disease (chronic) NOS (125.9)

CC Ex: See Appendix

**4** I25 Chronic ischemic heart disease

Use additional code to identify:

chronic total occlusion of coronary artery (I25.82) exposure to environmental tobacco smoke (Z77.22) history of tobacco dependence (Z87.891)

occupational exposure to environmental tobacco smoke (Z57.31)

tobacco dependence (F17.-) tobacco use (Z72.0)

EXCLUDES 2 non-ischemic myocardial injury (I5A)

GUIDELINES Section I.C.9.b

ICD-10-CM has combination codes for atherosclerotic heart disease with angina pectoris. The subcategories for these codes are I25.11, Atherosclerotic heart disease of native coronary artery with angina pectoris, and I25.7 Atherosclerosis of coronary artery bypass graft(s) and coronary artery of transplanted heart with angina pectoris.

When using one of these combination codes it is not necessary to use an additional code for angina pectoris. A causal relationship can be assumed in a patient with both atherosclerosis and angina pectoris, unless the documentation indicates the angina is due to something other than the atherosclerosis.

DEFINITION Refractory angina pectoris (RAP) is defined as the occurrence of frequent angina attacks uncontrolled by maximal drug therapy, significantly limiting patients daily activities. This type of angina can be referred to as "no options" since the patient has exhausted revascularization options but still has disabling symptoms.

## Atherosclerotic heart disease of native coronary artery

Atherosclerotic cardiovascular disease

Coronary (artery) atheroma

Coronary (artery) atherosclerosis

Coronary (artery) disease

Coronary (artery) sclerosis

Use additional code, if applicable, to identify: coronary atherosclerosis due to calcified coronary lesion

coronary atherosclerosis due to lipid rich plaque (I25.83)

EXCLUDES 2 atheroembolism (175.-)

atherosclerosis of coronary artery bypass graft (s) and transplanted heart (125.7-)

### Atherosclerotic heart disease of native coronary 125.10 artery without angina pectoris

Atherosclerotic heart disease NOS

DEFINITION Clogging of coronary arteries with fatty plaque build-up, restricting blood flow and hardening the arteries.

AHA: 4Q 2012, 92

AHA: 4Q 2013, 128

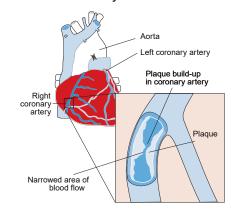
AHA: 2Q 2015, 17

AHA: 3Q 2021, 5

AHA: 3Q 2021, 5

AHA: 3Q 2021, 6

## Coronary atherosclerosis



**6** I25.11 Atherosclerotic heart disease of native coronary artery with angina pectoris

CODING TIP When a patient presents with both coronary artery disease (CAD) / atherosclerotic heart disease and angina, a code from I25.11should be assigned. If the specific type of angina is not specified in the clinical record, assign code 125.119.

New Revised

Digit Indicators

Laterality **AHA Coding Clinic**  Adult

Maternity

HIV Related Conditions

Newborn Newborn Pediatric

of Male

Female

CODING TIP✓ Chronic bronchitis not specified as

"obstructive" should be coded to J41.0-J42. Chronic

bronchitis that is specified as obstructive is coded to

exposure to environmental tobacco smoke (Z77.22)

EXCLUDES 1 compensatory emphysema (J98.3)

history of tobacco dependence (Z87.891)

**Emphysema** 

 $(\hat{Z}57.31)$ 

EXCLUDES 2

tobacco use (Z72.0)

Use additional code to identify:

tobacco dependence (F17.-)

Emphysema is a type of COPD.

J43.0 Unilateral pulmonary emphysema [MacLeod's syndrome] Swyer-James syndrome

Unilateral hyperlucent lung

Panlobular emphysema

Centrilobular emphysema

Emphysema, unspecified

Bullous emphysema (lung)(pulmonary) Emphysema (lung)(pulmonary) NOS

Vesicular emphysema (lung)(pulmonary)

Panacinar emphysema

Other emphysema

Emphysematous bleb

Unilateral transparency of lung

Unilateral emphysema

J43.1

J43.2

J43.8

J43.9

4 J43

category J44.-. Chronic indicates cough with mucus most

days of the month for at least 3 months out of the year.

occupational exposure to environmental tobacco smoke

fumes or vapors (J68.4)

interstitial emphysema (J98.2)

CODING TIP✓ Emphysema and COPD is coded to J43.

CODING TIP ✓ Do not assign a code from J43.- when the

provider's documentation reports emphysema with chronic obstructive bronchitis or emphysematous bronchitis. Emphysema with chronic obstructive bronchitis and emphysematous bronchitis should be coded to J44.- and

CODING TIP✓ When a diagnosis supports coding a more specific code for emphysema, such as interstitial

emphysema (J98.2), compensatory emphysema (J98.3), or subcutaneous emphysema due to trauma (T79.7), then do not assign J43.-, but assign the more specific code.

Unilateral pulmonary artery functional hypoplasia

cannot be coded on the same claim as J43.-.

mediastinal emphysema (J98.2)

neonatal interstitial emphysema (P25.0)

emphysema due to inhalation of chemicals, gases,

emphysema with chronic (obstructive) bronchitis

emphysematous (obstructive) bronchitis (J44.-)

surgical (subcutaneous) emphysema (T81.82) traumatic subcutaneous emphysema (T79.7)

#### J40 Bronchitis, not specified as acute or chronic

Bronchitis NOS Bronchitis with tracheitis NOS

Catarrhal bronchitis

Tracheobronchitis NOS

Use additional code to identify:

exposure to environmental tobacco smoke (Z77.22) exposure to tobacco smoke in the perinatal period (P96.81) history of tobacco dependence (Z87.891)

occupational exposure to environmental tobacco smoke (Z57.31)

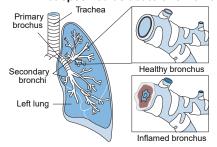
tobacco dependence (F17.-) tobacco use (Z72.0)

**EXCLUDES 1** acute bronchitis (J20.-) allergic bronchitis NOS (J45.909-) asthmatic bronchitis NOS (J45.9-) bronchitis due to chemicals, gases, fumes and vapors (J68.0)

CODING TIP ✓ Do not assign code J40 for chronic, chronic obstructive, or acute bronchitis. J40 should be assigned only when no diagnostic information is available to differentiate the type of bronchitis.

AHA: 1Q 2020, 27

## Bronchitis, not specified as acute or chronic



### 4 J41 Simple and mucopurulent chronic bronchitis

Use additional code to identify

exposure to environmental tobacco smoke (Z77.22) exposure to tobacco smoke in the perinatal period (P96.81) history of tobacco dependence (Z87.891)

occupational exposure to environmental tobacco smoke (7.57.31)

tobacco dependence (F17.-) tobacco use (Z72.0)

EXCLUDES 1 chronic bronchitis NOS (J42) chronic obstructive bronchitis (J44.-)

CODING TIP✓ Chronic bronchitis not specified as obstructive" should be coded to J41.0-J42. Chronic bronchitis that is specified as obstructive is coded to category J44.-. Chronic indicates cough with mucus most days of the month for at least 3 months out of the year.

J41.0 Simple chronic bronchitis

J41.1 Mucopurulent chronic bronchitis

Mixed simple and mucopurulent chronic bronchitis

# Unspecified chronic bronchitis

Chronic bronchitis NOS

Chronic tracheitis

Chronic tracheobronchitis

Use additional code to identify:

exposure to environmental tobacco smoke (Z77.22) exposure to tobacco smoke in the perinatal period (P96.81)

history of tobacco dependence (Z87.891) occupational exposure to environmental tobacco smoke

(Z57.31)tobacco dependence (F17.-) tobacco use (Z72.0)

EXCLUDES 1 chronic asthmatic bronchitis (J44.-)

chronic bronchitis with airways obstruction (J44.-)

chronic emphysematous bronchitis (J44.-) chronic obstructive pulmonary disease NOS

simple and mucopurulent chronic bronchitis (J41.-)

Digit Indicators

Laterality

HCC

Maternity

Pediatric

of Male Female

HIV Related Conditions

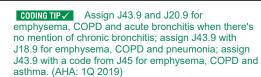
New Revised

Unspecified

**AHA Coding Clinic** 

Adult

Newborn Newborn



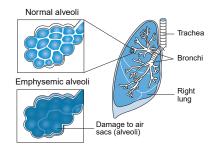
**DEFINITION** Abnormal enlargement of the air sacs in the lungs, which lose their elasticity, making breathing increasingly difficult.

AHA: 4Q 2017, 76 AHA: 4Q 2017, 77

AHA: 1Q 2019, 26

AHA: 1Q 2019, 26 AHA: 1Q 2019, 27 AHA: 1Q 2019, 27

## Emphysema, unspecified



#### **4** J44 Other chronic obstructive pulmonary disease

INCLUDES asthma with chronic obstructive pulmonary disease

chronic asthmatic (obstructive) bronchitis chronic bronchitis with airway obstruction chronic bronchitis with emphysema chronic emphysematous bronchitis chronic obstructive asthma chronic obstructive bronchitis chronic obstructive tracheobronchitis

### Code also:

type of asthma, if applicable (J45.-)

Use additional code to identify:

exposure to environmental tobacco smoke (Z77.22) history of tobacco dependence (Z87.891)

occupational exposure to environmental tobacco smoke (7.57.31)

tobacco dependence (F17.-) tobacco use (Z72.0)

EXCLUDES 1 bronchiectasis (J47.-) chronic bronchitis NOS (J42) chronic simple and mucopurulent bronchitis (J41 -)

chronic tracheitis (J42) chronic tracheobronchitis (J42)

emphysema without chronic bronchitis (J43.-)

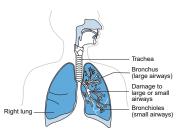
## GUIDELINES Section I.C.10.a

The codes in categories J44 and J45 distinguish between uncomplicated cases and those in acute exacerbation. An acute exacerbation is a worsening or a decompensation of a chronic condition. An acute exacerbation is not equivalent to an infection superimposed on a chronic condition, though an exacerbation may be triggered by an infection.

CODING TIP✓ When the physician reports chronic obstructive asthma or chronic asthmatic bronchitis, and the type of asthma is specified, an additional code from category J45.- should be reported.

AHA: 1Q 2017, 25 AHA: 2Q 2017, 30

### Chronic obstructive pulmonary disease



### J44.0 Chronic obstructive pulmonary disease with (acute) lower respiratory infection

CCIHCC

CCIHCC

Code also:

to identify the infection

CODING TIP Assign a code from J44.0 when a patient has both a condition classifiable to J44 and a diagnosis of a lower respiratory tract infection. An additional code should be assigned to report the infection. If the physician confirms both a diagnosis of a lower respiratory tract infection and exacerbation of the condition classifiable to J44, both J44.1 and J44.0 should be assigned, followed by a code for the specific lower respiratory infection. Lower respiratory infections include pneumonia, bronchitis and bronchiolitis.

AHA: 3Q 2016, 15-16 AHA: 1Q 2017, 26 AHA: 2Q 2017, 30 AHA: 4Q 2017, 75

## Chronic obstructive pulmonary disease with (acute) exacerbation

Decompensated COPD

CC Ex: See Appendix

Decompensated COPD with (acute) exacerbation

EXCLUDES 2 chronic obstructive pulmonary disease [COPD] with acute bronchitis (J44.0) lung diseases due to external agents (J60-J70)

CODING TIP ✓ Documentation: Do not assign J44.1 unless the physician has confirmed that the condition is exacerbated. An exacerbation may not be assumed without physician confirmation, and changes in treatment and medication regimen do not presume an exacerbation.

AHA: 1Q 2016, 36 AHA: 3Q 2016, 15-16 AHA: 1Q 2017, 26 AHA: 4Q 2017, 75 CC Ex: See Appendix

### J44.9 Chronic obstructive pulmonary disease, unspecified

Chronic obstructive airway disease NOS Chronic obstructive lung disease NOS

EXCLUDES 2 lung diseases due to external agents (J60-J70)

AHA: 4Q 2013, 109, 129 AHA: 4Q 2014, 21 AHA: 1Q 2016, 36-37 AHA: 1Q 2017, 24 AHA: 1Q 2017, 25 AHA: 4Q 2017, 76

AHA: 4Q 2017, 76