

## A

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**Abnormal, abnormality, abnormalities** — see also Anomaly — continued  
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 specified finding NEC 796.79  
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 atypical squamous cells  
 cannot exclude high grade  
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 of undetermined significance  
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## 438.3–440.29

## CIRCULATORY SYSTEM

## Tabular List

- ✓5<sup>th</sup> 438.3 Monoplegia of upper limb  
DEF: Paralysis of one limb or one muscle group.
- 438.30 Monoplegia of upper limb affecting unspecified side
- 438.31 Monoplegia of upper limb affecting dominant side
- 438.32 Monoplegia of upper limb affecting nondominant side
- ✓5<sup>th</sup> 438.4 Monoplegia of lower limb
- 438.40 Monoplegia of lower limb affecting unspecified side
- 438.41 Monoplegia of lower limb affecting dominant side
- 438.42 Monoplegia of lower limb affecting nondominant side
- ✓5<sup>th</sup> 438.5 Other paralytic syndrome  
Use additional code to identify type of paralytic syndrome, such as:  
locked-in state (344.81)  
quadriplegia (344.00-344.09)
- EXCLUDES** late effects of cerebrovascular accident with:  
hemiplegia/hemiparesis (438.20-438.22)  
monoplegia of lower limb (438.40-438.42)  
monoplegia of upper limb (438.30-438.32)
- 438.50 Other paralytic syndrome affecting unspecified side
- 438.51 Other paralytic syndrome affecting dominant side
- 438.52 Other paralytic syndrome affecting nondominant side
- 438.53 Other paralytic syndrome, bilateral  
AHA: 4Q, '98, 39
- 438.6 Alterations of sensations  
Use additional code to identify the altered sensation
- 438.7 Disturbances of vision  
Use additional code to identify the visual disturbance  
AHA: 4Q, '02, 56
- ✓5<sup>th</sup> 438.8 Other late effects of cerebrovascular disease
- 438.81 Apraxia  
DEF: Inability to activate learned movements; no known sensory or motor impairment.
- 438.82 Dysphagia  
Use additional code to identify the type of dysphagia, if known (787.20-787.29)  
DEF: Inability or difficulty in swallowing.  
AHA: 4Q, '07, 94  
I69.991 Dysphagia following uns cerebrovascular disease I-10
- 438.83 Facial weakness  
Facial droop
- 438.84 Ataxia  
AHA: 4Q, '02, 56
- 438.85 Vertigo
- 438.89 Other late effects of cerebrovascular disease  
Use additional code to identify the late effect  
AHA: ▶2Q, '09, 10; ◀1Q, '05, 13; 4Q, '98, 39  
TIP: Assign 438.89 and 728.87 Muscle weakness, for residual weakness secondary to late effect of CVA.  
I69.998 Other sequelae flw uns cerebrovascular disease I-10
- 438.9 Unspecified late effects of cerebrovascular disease

## DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES (440-449)

- ✓4<sup>th</sup> 440 Atherosclerosis
- INCLUDES** arteriosclerosis  
arteriosclerosis (obliterans) (senile)  
arteriosclerotic vascular disease  
atheroma  
degeneration:  
arterial  
arteriovascular  
vascular  
endarteritis deformans or obliterans  
senile:  
arteritis  
endarteritis
- EXCLUDES** atheroembolism (445.01-445.89)  
atherosclerosis of bypass graft of the extremities (440.30-440.32)
- DEF: Stricture and reduced elasticity of artery; due to plaque deposits.
- 440.0 Of aorta A
- AHA: 2Q, '93, 7; 2Q, '93, 8; 4Q, '88, 8
- 440.1 Of renal artery A
- EXCLUDES** atherosclerosis of renal arterioles (403.00-403.91)
- ✓5<sup>th</sup> 440.2 Of native arteries of the extremities  
Use additional code, if applicable, to identify chronic total occlusion of artery of the extremities (440.4)
- EXCLUDES** atherosclerosis of bypass graft of the extremities (440.30-440.32)
- AHA: 4Q, '94, 49; 4Q, '93, 27; 4Q, '92, 25; 3Q, '90, 15; M-A, '87, 6  
TIP: Codes are listed in order of increasing severity; all patients who have gangrene (regardless of whether ulceration, rest pain, and/or intermittent claudication are present) are coded to 440.24. Patients without gangrene, but with ulceration (regardless of whether they also suffer from rest pain or intermittent claudication) are coded to 440.23.
- 440.20 Atherosclerosis of the extremities, unspecified A
- I70.209 Uns atherosclero natv art of extrem uns extrem I-10
- 440.21 Atherosclerosis of the extremities with intermittent claudication A
- DEF: Atherosclerosis; marked by pain, tension and weakness after walking; no symptoms while at rest.  
I70.219 Atherosclerosis native arteries ext interm claud uns ext I-10
- 440.22 Atherosclerosis of the extremities with rest pain A
- INCLUDES** any condition classifiable to 440.21  
DEF: Atherosclerosis, marked by pain, tension and weakness while at rest.
- 440.23 Atherosclerosis of the extremities with ulceration A
- INCLUDES** any condition classifiable to 440.21 and 440.22  
Use additional code for any associated ulceration (707.10-707.9)  
AHA: 4Q, '00, 44  
I70.249 Atherosclero natv art I leg ulceration uns site I-10
- 440.24 Atherosclerosis of the extremities with gangrene
- INCLUDES** any condition classifiable to 440.21, 440.22, and 440.23 with ischemic gangrene 785.4  
Use additional code for any associated ulceration (707.10-707.9)  
**EXCLUDES** gas gangrene (040.0)  
AHA: 4Q, '03, 109; 3Q, '03, 14; 4Q, '95, 54; 1Q, '95, 11
- 440.29 Other A

N Newborn Age: 0

P Pediatric Age: 0-17

M Maternity Age: 12-55

A Adult Age: 15-124

## 427-428.0

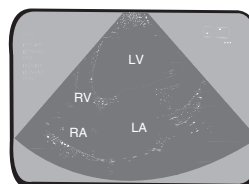
## CIRCULATORY SYSTEM

## Tabular List

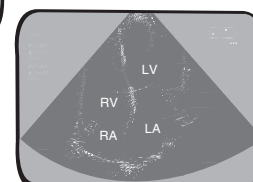
- 427 Cardiac dysrhythmias**
- EXCLUDES** that complicating:  
abortion (634-638 with .7, 639.8)  
ectopic or molar pregnancy (639.8)  
labor or delivery (668.1, 669.4)
- DEF:** Disruption or disturbance in the rhythm of heartbeats.  
**AHA:** J-A, '85, 15
- 427.0 Paroxysmal supraventricular tachycardia**  
Paroxysmal tachycardia:  
atrial [PAT]  
atrioventricular [AV]  
junctional  
nodal  
**DEF:** Rapid atrial rhythm.
- 427.1 Paroxysmal ventricular tachycardia**  
Ventricular tachycardia (paroxysmal)  
**DEF:** Rapid ventricular rhythm.  
**AHA:** ▶2Q, '09, 14; ◀1Q, '08, 14; 2Q, '06, 15-16; 3Q, '95, 9; M-A, '86, 11  
**TIP:** If a ventricular tachycardia is documented as sustained or nonsustained but is induced during an EP study, assign 427.1.  
**I47.2** Ventricular tachycardia **I-10**
- 427.2 Paroxysmal tachycardia, unspecified**  
Bouveret-Hoffmann syndrome  
Paroxysmal tachycardia:  
NOS  
essential
- 427.3 Atrial fibrillation and flutter**  
**TIP:** Assign V58.61 Long-term (current) use of anticoagulants, as a secondary diagnosis if the patient is maintained on Coumadin.
- 427.31 Atrial fibrillation**  
**DEF:** Irregular, rapid atrial contractions.  
**AHA:** 4Q, '08, 135; 3Q, '05, 8; 4Q, '04, 78, 121; 3Q, '04, 7; 4Q, '03, 95, 105; 1Q, '03, 8; 2Q, '99, 17; 3Q, '95, 8  
**I48.0** Atrial fibrillation **I-10**
- 427.32 Atrial flutter**  
**DEF:** Regular, rapid atrial contractions.  
**AHA:** 4Q, '03, 94  
**I48.1** Atrial flutter **I-10**
- 427.4 Ventricular fibrillation and flutter**
- 427.41 Ventricular fibrillation**  
**DEF:** Irregular, rapid ventricular contractions.  
**AHA:** ▶2Q, '09, 14-15; ◀3Q, '02, 5
- 427.42 Ventricular flutter**  
**DEF:** Regular, rapid, ventricular contractions.
- 427.5 Cardiac arrest**  
Cardiorespiratory arrest  
**AHA:** 3Q, '02, 5; 2Q, '00, 12; 3Q, '95, 8; 2Q, '88, 8  
**I46.9** Cardiac arrest cause unspecified **I-10**
- 427.6 Premature beats**
- 427.60 Premature beats, unspecified**  
Ectopic beats  
Extrasystoles  
Extrasystolic arrhythmia  
Premature contractions or systoles NOS
- 427.61 Supraventricular premature beats**  
Atrial premature beats, contractions, or systoles
- 427.69 Other**  
Ventricular premature beats, contractions, or systoles  
**AHA:** 4Q, '93, 42

- 427.8 Other specified cardiac dysrhythmias**
- 427.81 Sinoatrial node dysfunction**  
Sinus bradycardia:  
persistent  
severe  
Syndrome:  
sick sinus  
tachycardia-bradycardia  
**EXCLUDES** sinus bradycardia NOS (427.89)  
**DEF:** Complex cardiac arrhythmia; appears as severe sinus bradycardia, sinus bradycardia with tachycardia, or sinus bradycardia with atrioventricular block.  
**AHA:** 3Q, '00, 8  
**I49.5** Sick sinus syndrome **I-10**
- 427.89 Other**  
Rhythm disorder:  
coronary sinus  
ectopic  
nodal  
Wandering (atrial) pacemaker  
**EXCLUDES** carotid sinus syncope (337.0)  
neonatal bradycardia (779.81)  
neonatal tachycardia (779.82)  
reflex bradycardia (337.0)  
tachycardia NOS (785.0)  
**I49.8** Other specified cardiac arrhythmias **I-10**
- 427.9 Cardiac dysrhythmia, unspecified**  
Arrhythmia (cardiac) NOS  
**AHA:** 2Q, '89, 10
- 428 Heart failure**  
**TIP:** Code, if applicable, heart failure due to hypertension first (402.0-402.9, with fifth-digit 1 or 404.0-404.9 with fifth-digit 1 or 3)  
**EXCLUDES** following cardiac surgery (429.4)  
rheumatic (398.91)  
that complicating:  
abortion (634-638 with .7, 639.8)  
ectopic or molar pregnancy (639.8)  
labor or delivery (668.1, 669.4)  
**AHA:** 4Q, '02, 49; 3Q, '98, 5; 2Q, '90, 16; 2Q, '90, 19; 2Q, '89, 10; 3Q, '88, 3
- 428.0 Congestive heart failure, unspecified**  
Congestive heart disease  
Right heart failure (secondary to left heart failure)  
**EXCLUDES** fluid overload NOS (276.6)  
**DEF:** Mechanical inadequacy; caused by inability of heart to pump and circulate blood; results in fluid collection in lungs, hypertension, congestion and edema of tissue.  
**AHA:** ▶1Q, '09, 8, 18; ◀4Q, '08, 72, 180, 182; 3Q, '08, 12; 3Q, '07, 9; 1Q, '07, 20; 3Q, '06, 7; 4Q, '05, 120; 3Q, '05, 8; 1Q, '05, 5, 9; 1Q, '05, 5, 9; 4Q, '04, 140; 3Q, '04, 7; 4Q, '03, 109; 1Q, '03, 9; 4Q, '02, 52; 2Q, '01, 13; 4Q, '00, 48; 2Q, '00, 16; 1Q, '00, 22; 4Q, '99, 4; 1Q, '99, 11; 4Q, '97, 55; 3Q, '97, 10; 3Q, '96, 9; 3Q, '91, 18; 3Q, '91, 19; 2Q, '89, 12  
**TIP:** Assign additional code(s) from subcategory 428.2, 428.3, or 428.4 to specify the type of heart failure.  
**I50.9** Heart failure unspecified **I-10**

## Echocardiography of Heart Failure



Systolic dysfunction with dilated LV



Diastolic dysfunction with LV hypertrophy

Four-chamber echocardiograms, two-dimensional views.  
LV: Left ventricle  
RV: Right ventricle  
RA: Right atrium  
LA: Left atrium

N Newborn Age: 0

P Pediatric Age: 0-17

M Maternity Age: 12-55

A Adult Age: 15-124