

**Supplemental Materials****ICD9 Acute myocardial infarction**

410, 410.01, 410.02, 410.1, 410.11, 410.12, 4410.2, 410.21, 410.22, 410.3, 410.31, 410.32, 410.4, 410.41, 410.42, 410.5, 410.51, 410.52, 410.6, 410.61, 410.62, 410.7, 410.71, 410.72, 410.8, 410.81, 410.82, 410.9, 410.91, 410.92

**ICD10 Acute myocardial infarction**

I21.02, I21.09, I21.1, I21.11, I21.19, I21.2, I21.21, I21.29, I21.3, I21.4, I21.9, I21.A, I21.A1, I21.A9, I22, I22.0, I22.1, I22.2, I22.8, I22.9

**ICD9 CABG**

36.1, 36.12, 36.13, 36.14, 36.15, 36.16, 36.17, 36.19, 36.91, 36.99

**ICD 10 – PCS/CPT codes CABG**

0210083	0211083	0212083	0213083	02100Z3
0210088	0211088	0212088	0213088	02100Z8
0210089	0211089	0212089	0213089	02100Z9
021008C	021108C	021208C	021308C	02100ZC
021008F	021108F	021208F	021308F	02100ZF
021008W	021108W	021208W	021308W	02110Z3
0210093	0211093	0212093	0213093	02110Z8
0210098	0211098	0212098	0213098	02110Z9
0210099	0211099	0212099	0213099	02110ZC
021009C	021109C	021209C	021309C	02110ZF
021009F	021109F	021209F	021309F	02120Z3
021009W	021109W	021209W	021309W	02120Z8
02100A3	02110A3	02120A3	02130A3	02120Z9
02100A8	02110A8	02120A8	02130A8	02120ZC
02100A9	02110A9	02120A9	02130A9	02120ZF
02100Ac	02110Ac	02120Ac	02130Ac	02120Z3
02100AF	02110AF	02120AF	02130AF	02120Z8
02100AW	02110AW	02120AW	02130AW	02130Z3
02100J3	02110J3	02120J3	02130J3	02130Z8
02100J8	02110J8	02120J8	02130J8	02130Z9
02100J9	02110J9	02120J9	02130J9	02130ZC
02100JC	02110JC	02120JC	02130JC	02130ZF
02100Jf	02110Jf	02120Jf	02130Jf	
02100JW	02110JW	02120JW	02130JW	
02100K3	02110K3	02120K3	02130K3	
02100K8	02110K8	02120K8	02130K8	
02100K9	02110K9	02120K9	02130K9	
02100KC	02110KC	02120KC	02130KC	
02100KF	02110KF	02120KF	02130KF	
02100KW	02110KW	02120KW	02130KW	

**ICD9- pneumonia**

003.22, 073.0, 052.1, 021.2, 083.0, 083.9, 022.1, 011.6, 078.5, 039.1, 112.4, 114.0, 130.4, 136.3, 136.9, 480.0, 480.1, 480.2, 480.3, 480.31, 480.8, 480.9, 481, 482, 482.1, 482.2, 482.2, 482.3, 482.31, 482.32, 482.39, 482.4, 482.41, 482.42, 482.49, 482.81, 482.82, 482.83, 482.89, 482.9, 483, 483.1, 483.8, 484.1, 484.3, 484.5, 484.6, 484.7, 484.8, 485, 486, 487.0, 488.01, 488.11, 488.81, 770.18, 516.8, 516.36, 513, 770.18, 510

**ICD 10- Pneumonia**

J12.0, J12.1, J12.2, J12.3, J12.8, J12.81, J12.82, J12.89, J12.9, J15.0, J15.1, J15.2, J15.21, J15.211, J15.212, J15.29, J15.3, J15.4, J15.6, J15.7, J15.8, J15.9, J16.0, J16.8, J16.9, J17, J18, J18.1, J18.2, J18.8, J18.9

**ICD 9 – Acute CHF**

428.21, 428.23, 428.31, 428.33, 428.41, 428.43

**ICD 10 Acute CHF**

I50.21, I50.23, I50.31, I50.33, I50.41

**ICD 9- Acute COPD exacerbation**

491.21, 491.22, 493.22

**ICD10- Acute COPD exacerbation**

J44.0, J44.1, J45.21, J45.22, J45.3, J45.31, J45.32

**ICD9- Primary total hip arthroplasty**

81.51

**ICD10- Primary total hip arthroplasty**

0SRB019, 0SR9019, 0SRB01A, 0SR901A, 0SRB029, 0SR9029, 0SRB02A, 0SR902A, 0SRB039, 0SR9039, 0SRB03A, 0SR903A, 0SRB049, 0SR9049, 0SRB04A, 0SR904A, 0SUB0BZ, 0SU90BZ

**ICD9-Primary Total Knee Arthroplasty**

81.54

**ICD10 Primary Total Knee Arthroplasty**

0SRD0J9, 0SRC0J9, 0SRC0JA, 0SRD0JA