

**Descriptions of health conditions for CR Registry Comorbidities section based on ICD-9 Codes  
(Adapted from D’Hoore, 1993)<sup>1</sup>**

The following comorbidity categories and relevant ICD-9 codes correspond to the list of comorbid conditions in the AACVPR Cardiac Rehabilitation Registry. The patient must be *actively managed for the condition* for it to be included as a comorbidity.

Condition	Weight	Relevant ICD-9 codes	Descriptor
AIDS	6	042	Symptomatic HIV infection or diagnosed AIDS
Cerebrovascular disease	1	430 431 432.x 433.x 435.x	Subarachnoid hemorrhage Intracerebral hemorrhage Intracranial hemorrhage Occlusion/stenosis of precerebral arteries (basilar, carotid, vertebral) Transient cerebral ischemia (TIA)
Connective tissue disease	1	710.x 714.x 725	Lupus, Sjögrens, dermatomyocitis, polymyocitis, unspecified connective tissue disease Rheumatoid arthritis or other inflammatory polyarthropathies Polymyalgia rheumatica
Dementia	1	290 291 294	Senile or vascular dementia Alcoholic psychoses Other organic psychotic conditions
Liver disease (moderate to severe)	3	070.x 570.x 572.x	Viral hepatitis Acute liver failure Sequelae of chronic liver disease such as coma
Malignancy (CURRENT, not past history)	2	140-195 204-208 200.x 202.x 203	Malignant primary neoplasm/tumor of any body part Leukemias Lymphosarcoma Other lymphoid neoplasms Multiple myeloma
Metastatic cancer (CURRENT, not past history)	6	196 197 198 199	Secondary malignant neoplasm of lymph nodes Secondary malignant neoplasm of respiratory and digestive systems Secondary malignant neoplasm of other unspecified sites Malignant neoplasm without specification of site
Pulmonary disease	1	491 492.x 493.x	Chronic bronchitis Emphysema Asthma
Renal disease (moderate to severe)	2	403, 404 580 581 582 583 584.x 585 586	Hypertensive renal disease Acute glomerulonephritis Nephrotic syndrome Chronic glomerulonephritis Nephritis and nephropathy Acute renal failure Chronic renal failure Renal failure, unspecified
Ulcer disease (does not include GERD)	1	531 532 533 534	Gastric ulcer Duodenal ulcer Peptic ulcer Gastrojejunal ulcer
Diabetes	2	250.x	Diabetes mellitus (Type 1 or Type 2)
Previous (or acute) myocardial infarction	1	410.x 411.x 412	Acute MI Other acute/subacute forms of myocardial ischemia Old MI

1. W. D’Hoore, C. Sicotte, C. Tilquin. Risk Adjustment in Outcome Assessment: The Charlson Comorbidity Index. *Meth Inform Med.* 1993;32:382-387.