

Table 2 Definitions of Comorbidities, Comorbidity Software version 3.3 / 2008	ICD9 CM Diagnosis Codes:	Discharge does not have these Pre-v25 DRGs:	Discharge does not have these v25 MSDRGs:
1. Congestive Heart Failure	398.91, 402.01, 402.11, 402.91, 404.01, 404.03, 404.11, 404.13, 404.91, 404.93, 428.0-428.9	Cardiac: 103-112, 115-118, 121-127, 129, 132, 133, 135- 143, 514-518, 525- 527, 535-536, 547- 558	Cardiac: 001-002, 215-238, 242-251, 253-254, 258-262, 280-293, 296-298, 302-303, 306-313
Changes from 3.2 to 3.3	None	Delete 524	New
2. Valvular disease	093.20-093.24, 394.0-397.1, 397.9, 424.0-424.99, 746.3- 746.6, V42.2, V43.3	Cardiac: 103-112, 115-118, 121-127, 129, 132, 133, 135- 143, 514-518, 525- 527, 535-536, 547- 558	001-002, 215-238, 242-251, 253-254, 258-262, 280-293, 296-298, 302-303, 306-313
Changes from 3.2 to 3.3	None	Delete 524	New
3. Pulmonary Circulation disorders	415.11-415.19, 416.0-416.9, 417.9	Cardiac: 103-112, 115-118, 121-127, 129, 132,133, 135- 143, 514-518, 525- 527, 535-536, 547- 558 or COPD asthma: 88, 96-98	Cardiac: 001-002, 215-238, 242-251, 253-254, 258-262, 280-293, 296-298, 302-303, 306-313 or COPD asthma 190- 192, 202-203
Changes from 3.2 to 3.3	Add 415.11-415.19	Delete 524	New
4. Peripheral vascular disease	440-440.9, 441.00- 441.9, 442.0-442.9, 443.1-443.9, 444.21- 444.22, 447.1,449, 557.1, 557.9, V43.4	Peripheral vascular: 130, 131	Peripheral vascular: 299-301
Changes from 3.2 to 3.3	Added 444.21- 444.22, 449	None	New
5. Hypertension (combine uncomplicated and complicated)	Hypertension, uncomplicated: 401.1, 401.9, 642.00- 642.04	Hypertension: 22, 134	Hypertension: 077- 079, 304-305
	Hypertension, complicated: 401.0, 402.00-405.99, 437.2, 642.10- 642.24, 642.70- 642.94	Cardiac:103-122, 115-118, 121-127, 129, 132,133,135- 143, 518, 525-527, 535-536, 549-558 or Renal 302-305, 315- 333, or Hypertension 22, 134	Cardiac: 001-002, 215-238, 242-251, 253-254, 258-262, 280-293, 296-298, 302-303, 306-313 or Renal: 652, 656-661, 673-675, 682-700 or Hypertension: 077- 079, 304-305
Changes from 3.2 to 3.3	None	Delete 524	New
6. Paralysis	342.0-344.9, 438.20- 438.53	Cerebrovascular: 5, 14-17, 524, 528, 533- 534, 577	Cerebrovascular: 020-022, 034-038, 064-072
Changes from 3.2 to 3.3	None	None	New
7. Other neurological disorders	330.1-331.9, 332.0, 333.4, 333.5, 333.71- 333.79, 333.85, 333.94, 334.0-335.9, 338.0, 340, 341.1- 341.9, 345.00- 345.11, 345.2-345.3, 345.40-345.91, 347.00-347.01, 347.10-347.11, 649.40-649.44, 768.7, 780.3, 780.31, 780.32, 780.39, 780.97, 784.3	Nervous system: 1- 35, 524, 528-534, 543, 559-564, 577	Nervous system: 020-042, 052-103
Changes from 3.2 to 3.3	None	None	New

8. Chronic pulmonary disease	490-492.8, 493.00-493.92, 494-494.1, 495.0-505, 506.4,	COPD asthma: 88, 96-98	COPD asthma: 190-192, 202-203
Changes from 3.2 to 3.3	None	None	New
9. Diabetes without chronic complications	250.00-250.33, 648.00-648.04	Diabetes: 294, 295	Diabetes: 637-639
Changes from 3.2 to 3.3	None	None	New
10. Diabetes with chronic complications	250.40-250.93, 775.1	Diabetes: 294, 295	Diabetes: 637-639
Changes from 3.2 to 3.3	None	None	New
11. Hypothyroidism	243-244.2, 244.8, 244.9	Thyroid endocrine: 290, 300, 301	Thyroid endocrine: 625-627, 643-645
Changes from 3.2 to 3.3	None	None	New
12. Renal failure	403.01, 403.11, 403.91, 404.02, 404.03, 404.12, 404.13, 404.92, 404.93, 585.3, 585.4, 585.5, 585.6, 585.9, 586, V42.0, V45.1, V56.0-V56.32, V56.8	Kidney transplant, Renal failure/dialysis: 302, 316, 317	Kidney transplant, Renal failure/dialysis: 652, 682-685
Changes from 3.2 to 3.3	None	None	New
13. Liver disease	070.22, 070.23, 070.33, 070.44, 070.54, 456.0, 456.1, 456.20, 456.21, 571.0, 571.2, 571.3, 571.40-571.49, 571.5, 571.6, 571.8, 571.9, 572.3, 572.8, V42.7	Liver: 199-202, 205-208	Liver: 420-425, 432-434, 441-446
Changes from 3.2 to 3.3	None	None	New
14. Chronic Peptic ulcer disease (includes bleeding only if obstruction is also present)	531.41, 531.51, 531.61, 531.70, 531.71, 531.91, 532.41, 532.51, 532.61, 532.70, 532.71, 532.91, 533.41, 533.51, 533.61, 533.70, 533.71, 533.91, 534.41, 534.51, 534.61, 534.70, 534.71, 534.91	GI Hemorrhage or ulcer: 174-178	GI Hemorrhage or ulcer: 377-384
Changes from 3.2 to 3.3	None	None	New
15. HIV and AIDS (Acquired immune deficiency syndrome)	042-044.9	HIV: 488, 489, 490	HIV: 969-970, 974-977
Changes from 3.2 to 3.3	None	None	New
16. Lymphoma	200.00-202.38, 202.50-203.01, 203.8-203.81, 238.6, 273.3	Leukemia/lymphoma: 400-414, 473, 492, 539-540	Leukemia/lymphoma: 820-830, 834-849
Changes from 3.2 to 3.3	None	None	New
17. Metastatic cancer	196.0-199.1, 789.51	Cancer, Lymphoma: 10, 11, 64, 82, 172, 173, 199, 203, 239, 257-260, 274, 275, 303, 318, 319, 338, 344, 346, 347, 354, 355, 357, 363, 366, 367, 406-414	Cancer, Lymphoma: 054, 055, 146-148, 180-182, 374-376, 435-437, 542-544, 582-583, 597-599, 656-658, 686-688, 715-716, 722-724, 736-741, 754-756, 826-830, 843-849
Changes from 3.2 to 3.3	Added 789.51	None	New
18. Solid tumor without metastasis	140.0-172.9, 174.0-175.9, 179-195.8, 258.01-258.03	Cancer, Lymphoma: 10, 11, 64, 82, 172, 173, 199, 203, 239, 257-260, 274, 275, 303, 318, 319, 338, 344, 346, 347, 354,	Cancer, Lymphoma: 054, 055, 146-148, 180-182, 374-376, 435-437, 542-544, 582-583, 597-599, 656-658, 686-688,

		355, 357, 363, 366, 367, 406-414	715-716, 722-724, 736-741, 754-756, 826-830, 843-849
Changes from 3.2 to 3.3	Added 258.01-258.03	None	New
19. Rheumatoid arthritis/collagen vascular diseases	701.0, 710.0-710.9, 714.0-714.9, 720.0-720.9, 725	Connective tissue: 240, 241	Connective tissue: 545-547
Changes from 3.2 to 3.3	None	None	New
20. Coagulation deficiency	286.0-286.9, 287.1, 287.3-287.5, 649.30-649.34	Coagulation disorders: 397	Coagulation disorders: 813
Changes from 3.2 to 3.3	None	None	New
21. Obesity	278.0, 278.00, 278.01, 649.10-649.14, 793.91, V85.30-V85.4, V85.54	Nutrition/metabolic: 296-298 or Obesity Proc: 288	Nutrition/metabolic: 619-621, 640-641
Changes from 3.2 to 3.3	None	None	New
22. Weight loss	260-263.9, 783.21, 783.22	Nutrition/metabolic: 296-298	Nutrition/metabolic: 640-641
Changes from 3.2 to 3.3	None	None	New
23. Fluid and electrolyte disorders	276.0-276.9	Nutrition/metabolic: 296-298	Nutrition/metabolic: 640-641
Changes from 3.2 to 3.3	None	None	New
24. Blood loss anemia	280.0, 648.20-648.24	Anemia: 395, 396, 574	Anemia: 808-812
Changes from 3.2 to 3.3	None	None	New
25. Deficiency anemias	280.1-280.9, 285.21-285.29, 285.9	Anemia: 395, 396, 574	Anemia: 808-812
Changes from 3.2 to 3.3	None	None	New
26. Alcohol abuse	291.0-291.3, 291.5, 291.8, 291.81, 281.82, 291.89, 291.9, 303.00-303.93, 305.00-305.03	Alcohol or drug: 433-437, 521-523,	Alcohol or drug: 894-897
Changes from 3.2 to 3.3	None	None	New
27. Drug abuse	292.0, 292.82-292.89, 292.9, 304.00-304.93, 305.20-305.93, 648.30-648.34	Alcohol or drug: 433-437, 521-523	Alcohol or drug: 894-897
Changes from 3.2 to 3.3	None	None	New
28. Psychoses	295.00-298.9, 299.10, 299.11	Psychoses: 430	Psychoses: 885
Changes from 3.2 to 3.3	None	None	New
29. Depression	300.4, 301.12, 309.00, 309.1, 311	Depressive neuroses: 426	Depressive neurosis: 881
Changes from 3.2 to 3.3	None	None	New
Comments: The following DRGs had been deleted prior to 2007 and renumbered to a different DRG; they did not have a corresponding V25 MSDRG value, but the renumbered DRGs were included in the 2007 update and has been represented by the equivalent v25 MSDRGs: 004-005, 020, 024-025, 107, 109, 112, 115,-116, 298, 363, 400, 414, 434-437, 514, 516-517, 522, 526-527			