

| Table 2 Definitions of Comorbidities, Comorbidity Software version 3.5 / 2010 | ICD9 CM Diagnosis Codes: | V27 DRGs |
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| 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: 001-002, 215-238, 242-251, 253- 254, 258-262, 265, 280-293, 296-298, 302- 303, 306-313 |
| 2. Valvular disease | 093.20-093.24, 394.0-397.1, 397.9, 424.0-424.99, 746.3-746.6, V42.2, V43.4 | Cardiac: 001-002, 215-238, 242-251, 253- 254, 258-262, 265, 280-293, 296-298, 302- 303, 306-313 |
| 3. Pulmonary Circulation disorders | 415.11-415.19, 416.0-416.9, 417.9 | Cardiac: 001-002, 215-238, 242-251, 253- 254, 258-262, 265, 280-293, 296-298, 302- 303, 306-313 or COPD asthma 190-192, 202-203 |
| <i>Changes from 3.4 to 3.5</i> | <i>FY 2010 code 416.2 included in range above</i> | |
| 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, V43.5 | Peripheral vascular: 299-301 |
| 5. Hypertension (combine uncomplicated and complicated) | Hypertension, uncomplicated: 401.1, 401.9, 642.00-642.04 | Hypertension: 077-079, 304-305 |
| | Hypertension, complicated: 401.0, 402.00-405.99, 437.2, 642.10-642.24, 642.70-642.94 | 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 |
| 6. Paralysis | 342.0-344.9, 438.20-438.53, 780.72 | Cerebrovascular: 020-022, 034-038, 064-072 |
| 7. Other neurological disorders | 330.1-331.9, 332.0, 333.5, 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, 768.70, 768.71, 768.72, 768.73, 780.3, 780.31, 780.32, 780.39, 780.97, 784.3 | Nervous system: 020-042, 052-103 |
| <i>Changes from 3.4 to 3.5</i> | <i>Added 768.70, 768.71, 768.72, 768.73</i> | |
| 8. Chronic pulmonary disease | 490-492.8, 493.00-493.92, 494-494.1, 495.0-505, 506.4, | COPD asthma: 190-192, 202-203 |
| 9. Diabetes without chronic complications | 249.00-249.31 250.00-250.33, 648.00- 648.04 | Diabetes: 637-639 |
| 10. Diabetes with chronic complications | 249.40-249.91 250.40-250.93, 775.1 | |
| 11. Hypothyroidism | 243-244.2, 244.8, 244.9 | Thyroid endocrine: 625-627, 643-645 |
| 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, V45.11, V45.12, V56.0-V56.32, V56.8 | Kidney transplant, Renal failure/dialysis: 652, 682-685 |
| 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: 420-425, 432-434, 441-446 |
| 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, 533.51, 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: 377-384 |
| 15. HIV and AIDS (Acquired immune deficiency syndrome) | 042-044.9 | HIV: 969-970, 974-977 |
| 16. Lymphoma | 200.00-202.38, 202.50-203.01, 203.02- 203.82, 203.8-203.81, 238.6, 273.4 | Leukemia/lymphoma: 820-830, 834-849 |
| 17. Metastatic cancer | 196.0-199.1, 789.51, 209.70, 209.71, 209.72, 209.73, 209.74, 209.75, 209.79, 789.51 | 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 |

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| <i>Changes from 3.4 to 3.5</i> | Added 209.70, 209.71, 209.72, 209.73, 209.74, 209.75, 209.79 | |
| 18. Solid tumor without metastasis | 140.0-172.9, 174.0-175.9, 179-195.8, 209.00-209.24, 209.25-209.3, 209.31, 209.32, 209.33, 209.34, 209.35, 209.36, 258.01-258.03 | 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 |
| <i>Changes from 3.4 to 3.5</i> | Added 209.31-209.36 | |
| 19. Rheumatoid arthritis/collagen vascular diseases | 701.0, 710.0-710.9, 714.0-714.9, 720.0-720.9, 725 | Connective tissue: 545-547 |
| 20. Coagulation deficiency | 286.0-286.9, 287.1, 287.3-287.5, 289.84, 649.30-649.34 | Coagulation disorders: 813 |
| 21. Obesity | 278.0, 278.00, 278.01, 649.10-649.14, 793.91, V85.30-V85.4, V85.54 | |
| 22. Weight loss | 260-263.9, 783.21, 783.22 | Nutrition/metabolic: 640-641 |
| 23. Fluid and electrolyte disorders | 276.0-276.9 | Nutrition/metabolic: 640-641 |
| 24. Blood loss anemia | 280.0, 648.20-648.24 | Anemia: 808-812 |
| 25. Deficiency anemias | 280.1-280.9, 285.21-285.29, 285.9 | Anemia: 808-812 |
| 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: 894-897 |
| 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: 894-897 |
| 28. Psychoses | 295.00-298.9, 299.10, 299.11 | Psychoses: 885 |
| 29. Depression | 300.4, 301.12, 309.00, 309.1, 311 | Depressive neurosis: 881 |
| 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 | | |