Appendix

1. Appendix Table 1: HCUP Diagnostic Categories

2. Appendix Table 2: Consolidated HCUP Diagnostic Categories

Appendix Table 1: HCUP Diagnostic Categories

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| Primary Condition Name | HCUP Single-Level Diagnosis Clinical Classification Software Category Number(s) |
| Sepsis | 2 |
| Fluid and electrolyte disorders | 55 |
| Coma; stupor; and brain damage | 85 |
| AMI | 100 |
| Cardiac arrest | 107 |
| CHF | 108 |
| Acute CVD | 109 |
| CAP | 122 |
| GI bleed | 153 |
| UTI | 159 |
| Hip fracture | 226 |
| Residual codes | 259 |
| Renal failure (all) | 156, 157, 158 |
| Less severe cancer | 11-16, 18, 20-26, 28-32, 34, 36, 37, 44-47, 207 |
| Endocrine & related conditions | 48-51, 53, 54, 56, 57, 200, 202, 210, 211 |
| Miscellaneous GI conditions | 137-140, 155, 214 |
| Other cardiac conditions | 96-99, 103-105, 114, 116, 117, 213, 217 |
| HCUP Hyper Group 1 | 101, 102, 106 |
| HCUP Hyper Group 2 | 0, 10, 141, 144-146, 147, 154, 160-166, 168-196, 201, 215, 218-224, 241-243, 255, 256, 258, 650-652, 654-663, 670, 999, 2601-2621 |
| HCUP Hyper Group 3 | 115, 129, 131, 249 |
| HCUP Hyper Group 4 | 127, 128, 130, 132, 133 |
| Hematologic conditions | 59-64 |
| Ill-defined signs and symptoms | 250-253 |
| Liver and pancreatic disorders | 151, 152 |
| Highly malignant cancer | 17, 19, 27, 33, 35, 38-43 |
| Miscellaneous neurological conditions | 79-84, 93-95, 110-113, 216, 245, 653 |
| Problems with nutrition | 52, 58 |
| Other infectious conditions | 1, 3-9, 76-78, 90, 92, 123-126, 134, 135, 148, 197-199, 201, 246-248 |
| Miscellaneous surgical conditions | 86-89, 91, 118-121, 136, 142, 143, 167, 203, 204, 206, 208, 209, 212, 237, 238, 254, 257 |
| Trauma | 205, 225, 227-236, 239, 240, 244 |

Thirty disease categories as defined by the Healthcare Cost and Utilization Project (HCUP) single-level diagnosis clinical classification software, representing a standardized consolidation of ICD-9 codes into clinically relevant categories. The initial 30 categories (Appendix Table 1) were consolidated by illness type into 13 categories (Appendix Table 2) to limit the number of variables within the multivariable model. Similarly, Hyper Groups represent the combination of similar diagnoses (for example, Hyper Group 1 brings together cardiac disease diagnoses distinct from the other stated cardiac groups).

Appendix Table 2: Consolidated HCUP Diagnostic Categories

|  |  |
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| Consolidated Condition Categories  | HCUP Single-Level Diagnosis Clinical Classification Software Category Number(s) |
| Acute Infection | 2, 122, 159, 76, 77, 78 |
| Renal and electrolyte disorders | 55, 156, 157, 158 |
| Neurologic and Psychiatric disorders | 85, 79-84, 93-95, 109, 110-113, 216, 245, 653, 650-652, 654-663 |
| Acute cardiac disease | 100, 107, 108 |
| Hip fracture | 226 |
| Endocrine & related conditions | 48-51, 53, 54, 56, 57, 200, 202, 210, 211, 52, 58 |
| GI disorders | 151, 152, 153 |
| Cancer | 17, 19, 27, 33, 35, 38-43, 11-16, 18, 20-26, 28-32, 34, 36, 37, 44-47, 207 |
| Other infections | 1, 3-9, 90, 92, 124-126, 134, 135, 148, 197-199, 201, 246-248 |
| Low acuity conditions, residual codes | 137-140, 155, 214, 96-99, 103-105, 114, 116, 117, 213, 217, 250-253, 259, 101, 102, 106, 0, 10, 141, 144-146, 147, 154, 160-166, 168-196, 201, 215, 218-224, 241-243, 255, 256, 258, 670, 999, 2601-2621, 59-64 |
| Surgical conditions | 86-89, 91, 115, 118-121, 136, 142, 143, 167, 203, 204, 205, 206, 208, 209, 212, 237, 238, 254, 257 |
| Trauma | 225, 227-236, 239, 240, 244 |
| Acute pulmonary disease | 123, 129, 131, 249, 127, 128, 130, 132, 133 |