Supplementary Table 4: Alternative Identification Algorithm

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|  | Patients Excluded | Patients Remaining |
| Inclusion |  |  |
| ICD-9=359.1 |  | 3430 |
| Exclusions |  |  |
| Female | 576 | 2854 |
| Changed to another 359.x code | 266 | 2588 |
| Mortality age<5 | 12 | 2576 |
| Ventilation <5 years of age (tracheostomy or  CPAP/BIPAPa) | 29 | 2547 |
| AICDb <10 years of age | 1 | 2546 |
| Arrhythmia <5 years of age | 17 | 2529 |
| Cardiovascular disease <5 years of age | 6 | 2523 |
| Age <1 year at time of only encounter | 25 | 2498 |
| G-tubec | 424 | 2074 |
| Ophthalmoplegia | 2 | 2072 |
| Pigmentary retinopathy | 0 | 2072 |
| Myoneural disorders (358.x) | 66 | 2006 |
| Autonomic disorder (337.x) | 3 | 2003 |
| Extrapyramidal disease and movement disorders  (333.x) | 8 | 1995 |
| Cerebral degenerations (330.x) | 1 | 1994 |
| Spinocerebellar disease (334.x) | 3 | 1991 |
| Anterior horn cell disease (335.x) | 127 | 1864 |
| Hereditary and idiopathic peripheral neuropathy (356.x) | 11 | 1853 |
| Congenital anomalies of nervous system (742.8) | 0 | 1853 |
| Gout (274) | 0 | 1853 |

aContinuous positive airway pressure (CPAP), bilevel positive airway pressure (BiPAP)

bAutomatic implantable cardioverter-defibrillator (AICD)

cgastrostomy tube (G-tube)