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| **Supplemental Table 1: Demographics and Mortality of Derivation, Validation, and Implementation Populations** |
| **Demographic** | **Derivation Population** (n=161,262) | **Validation Population**(n=10,448) | **Implementation Population**(n=54,464) |
| Age, mean, yr  | 57.9 | 59.0 | 58.6 |
| Female, % | 50.4 | 50.2 | 48.9 |
| BMI, mean | 28.7 | 28.7 | 28.8 |
| Race/Ethnicity, n (%) |  |  |  |
|  | White | 88,391 (54.5) | 5,761 (55.1) | 28,789 (52.9) |
|  | Black | 60,650 (37.4) | 3,867 (37.0) | 20,898 (38.4) |
|  | Other | 3,870 (2.4) | 214 (2.0) | 1,171 (2.2) |
|  | Unknown | 7,005 (4.3) | 480 (4.6) | 3,606 (6.6) |
| Hospital, n (%) |  |  |  |
|  | HUP | 85,248 (52.6) | 5,097 (48.8) | 33,908 (62.3) |
|  | PPMC | 37,234 (23.0) | 2,905 (27.8) | 20,556 (37.7) |
|  | PAH | 39,444 (24.3) | 2,427 (23.2) | 0 (0.0) |
| Admission Type, n (%) |  |  |  |
|  | Elective | 48,931 (30.2) | 3,696 (35.4) | 20,646 (37.9) |
|  | Emergency | 75,250 (46.4) | 4,059 (38.8) | 23,333 (42.8) |
|  | Transfer | 37,529 (23.1) | 1,354 (13.0) | 10,299 (18.9) |
| Hosp LOS, median (IQR), d | 4 (2-7) | 4 (2-7) | 4 (2-7) |
| DRG Weight, median (IQR) | 1.28 (0.92-2.07) | 1.48 (0.97-2.19) | 1.47 (0.97-2.23) |
| Mortality, % | 1.90 | 2.40 | 2.40 |
| BMI = body mass index, d = days, DRG = diagnosis related group, HUP = Hospital of the University of Pennsylvania, IQR = interquartile range, Hosp LOS = hospital length of stay, PAH = Pennsylvania Hospital, PPMC = Penn Presbyterian Medical Center, yr = years. |