# Table 1A. Baseline Characteristics by ABG Group

| **Variable** | **No ABG**  N = 31,7861 | **ABG\_NoHypercapnia**  N = 6,8671 | **ABG\_Hypercapnia**  N = 3,0211 |
| --- | --- | --- | --- |
| Age (years) | 57.1 ± 17.6 | 61.0 ± 17.0 | 61.9 ± 16.4 |
| Current BMI kg/m2 | 34.8 ± 8.7 | 28.5 ± 6.8 | 29.8 ± 7.8 |
| Female | 17,437 (55%) | 3,115 (45%) | 1,425 (47%) |
| Race |  |  |  |
| White | 20,405 (64%) | 4,515 (66%) | 2,150 (71%) |
| Black or African American | 5,352 (17%) | 1,031 (15%) | 409 (14%) |
| Unknown | 5,364 (17%) | 1,046 (15%) | 403 (13%) |
| Asian | 407 (1.3%) | 158 (2.3%) | 37 (1.2%) |
| American Indian | 221 (0.7%) | 112 (1.6%) | 19 (0.6%) |
| Pacific Islander | 37 (0.1%) | 5 (<0.1%) | 3 (<0.1%) |
| OSA | 7,550 (24%) | 942 (14%) | 605 (20%) |
| Asthma | 5,017 (16%) | 667 (9.7%) | 433 (14%) |
| COPD | 5,304 (17%) | 1,145 (17%) | 994 (33%) |
| CHF | 5,064 (16%) | 1,376 (20%) | 839 (28%) |
| Neuromuscular Disease | 1,251 (3.9%) | 302 (4.4%) | 118 (3.9%) |
| Pulmonary hypertension | 2,052 (6.5%) | 590 (8.6%) | 401 (13%) |
| CKD | 4,764 (15%) | 1,348 (20%) | 598 (20%) |
| Diabetes | 9,435 (30%) | 1,992 (29%) | 944 (31%) |
| VBG PCO2 | 45.4 ± 10.3 | 42.1 ± 11.2 | 57.8 ± 18.5 |
| Arterial PCO2 | NA ± NA | 35.5 ± 6.1 | 58.3 ± 19.4 |
| 1Mean ± SD; n (%) | | | |

# Table 1B. Baseline Characteristics by VBG Group

| **Variable** | **No VBG**  N = 33,9131 | **VBG\_NoHypercapnia**  N = 5,4801 | **VBG\_Hypercapnia**  N = 2,2811 |
| --- | --- | --- | --- |
| Age (years) | 57.9 ± 17.5 | 58.1 ± 17.7 | 61.2 ± 16.8 |
| Current BMI kg/m2 | 34.3 ± 8.7 | 28.5 ± 7.1 | 29.1 ± 8.0 |
| Female | 18,309 (54%) | 2,585 (47%) | 1,083 (47%) |
| Race |  |  |  |
| White | 22,792 (67%) | 2,945 (54%) | 1,333 (58%) |
| Black or African American | 5,375 (16%) | 994 (18%) | 423 (19%) |
| Unknown | 5,056 (15%) | 1,298 (24%) | 459 (20%) |
| Asian | 425 (1.3%) | 130 (2.4%) | 47 (2.1%) |
| American Indian | 227 (0.7%) | 107 (2.0%) | 18 (0.8%) |
| Pacific Islander | 38 (0.1%) | 6 (0.1%) | 1 (<0.1%) |
| OSA | 7,861 (23%) | 777 (14%) | 459 (20%) |
| Asthma | 5,092 (15%) | 678 (12%) | 347 (15%) |
| COPD | 5,956 (18%) | 786 (14%) | 701 (31%) |
| CHF | 5,589 (16%) | 1,031 (19%) | 659 (29%) |
| Neuromuscular Disease | 1,396 (4.1%) | 188 (3.4%) | 87 (3.8%) |
| Pulmonary hypertension | 2,330 (6.9%) | 429 (7.8%) | 284 (12%) |
| CKD | 5,095 (15%) | 1,147 (21%) | 468 (21%) |
| Diabetes | 9,931 (29%) | 1,709 (31%) | 731 (32%) |
| VBG PCO2 | NA ± NA | 40.2 ± 6.6 | 60.0 ± 12.5 |
| Arterial PCO2 | 42.4 ± 15.3 | 38.5 ± 14.6 | 52.1 ± 18.4 |
| 1Mean ± SD; n (%) | | | |