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| **Supplemental Data File 2. Summary of demographics and baseline characteristics used for the propensity matching, between matched and unmatched patients.**  |
| **Variable** | **Nitrous** | **Non-Nitrous** |
| **Matched** | **Unmatched** | **D** | **Matched** | **Unmatched** | **D** |
| **N=10,746** | **N=6,215** |  | **N=10,746** | **N=9,902** |  |
| Gender (Male) – % | 4990 (46) | 2817 (45) | 0.02 | 4877 (45) | 4742 (48) | -0.05 |
| Age – yr | 56 ± 16 | 54 ± 16 | 0.13 | 56±16 | 57±16 | -0.09 |
| Body Mass Index – kg/m2 | 28 [24,32] | 28 [24,32] | 0.01 | 28 [24,32] | 28 [24,34] | -0.09 |
| Race – % |  |  | 0.11 |  |  | 0.02 |
|  Caucasian | 8864 (82) | 4871 (78) |  | 8878 (83) | 8243 (83) |  |
|  African American | 1186 (11) |  888 (14) |  | 1201 (11) | 1057 (11) |  |
| ASA physical status – % |  |  | 0.34 |  |  | 0.37 |
|  I |  466 ( 4) |  614 (10) |  |  686 ( 6) |  270 ( 3) |  |
|  II | 4906 (46) | 3393 (55) |  | 5053 (47) | 3395 (34) |  |
|  III | 4999 (47) | 2116 (34) |  | 4569 (43) | 5340 (54) |  |
|  IV |  375 ( 3) |  92 ( 1) |  |  438 ( 4) |  897 ( 9) |  |
| Charlson comorbidity score – % |  |  | 0.37 |  |  | 0.26 |
|  0 | 5267 (49) | 4018 (65) |  | 5581 (52) | 3971 (40) |  |
|  1 | 1672 (16) |  948 (15) |  | 1692 (16) | 1844 (19) |  |
|  2 | 2026 (19) |  773 (12) |  | 1965 (18) | 1966 (20) |  |
|  3 |  690 ( 6) |  172 ( 3) |  |  544 ( 5) |  775 ( 8) |  |
|  4 | 1091 (10) |  304 ( 5) |  |  964 ( 9) | 1346 (14) |  |
| Admission for complication, Yes - % |  499 ( 5) |  511 ( 8) | -0.15 |  581 ( 5) |  373 ( 4) | 0.08 |
| *Medical history* |  |  |  |  |  |  |
|  Cancer, Yes - % | 3740 (35) | 1546 (25) | 0.22 | 3560 (33) | 3251 (33) | 0.01 |
|  CVD, Yes - % | 5198 (48) | 2735 (44) | 0.09 | 5109 (48) | 5243 (53) | -0.11 |
|  Dementia, Yes - % |  54 ( 1) |  29 ( 0) | 0.00 |  52 ( 0) |  72 ( 1) | -0.03 |
|  Diabetes, Yes - % | 1444 (13) |  741 (12) | 0.05 | 1390 (13) | 1696 (17) | -0.12 |
|  Digestive disease, Yes - % | 3361 (31) | 1393 (22) | 0.20 | 2946 (27) | 3846 (39) | -0.24 |
|  Pulmonary disease, Yes - % | 1199 (11) |  503 ( 8) | 0.10 | 1096 (10) | 1359 (14) | -0.11 |
| Chronic renal failure, Yes - % |  439 ( 4) |  143 ( 2) | 0.10 |  376 ( 4) |  450 ( 5) | -0.05 |
| Malabsorption, Yes - % |  35 ( 0) |  7 ( 0) | 0.05 |  38 ( 0) |  36 ( 0) | -0.00 |
| Bone marrow failure, Yes - % |  15 ( 0) |  7 ( 0) | 0.01 |  30 ( 0) |  54 ( 1) | -0.04 |
| Year of surgery- % |  |  | 0.57 |  |  | 0.42 |
|  2005 | 1550 (14) | 1728 (28) |  | 1473 (14) |  839 ( 8) |  |
|  2006 | 3502 (33) | 2668 (43) |  | 3051 (28) | 1757 (18) |  |
|  2007 | 2680 (25) | 1185 (19) |  | 2884 (27) | 2452 (25) |  |
|  2008 | 2367 (22) | 541 (9) |  | 2658 (25) | 3519 (36) |  |
|  2009 | 647 (6) | 93 (2) |  |  680 ( 6) | 1335 (13) |  |
| Anesthesiologist ‡ - % |  |  | 0.83 |  |  | 0.73 |
|  637 | 362 (3) | 364 (6) |  |  393 ( 4) |  105 ( 1) |  |
|  W09 | 340 (3) | 164 (3) |  |  303 ( 3) |  276 ( 3) |  |
|  S33 | 282 (3) | 56 (1) |  |  265 ( 2) |  440 ( 4) |  |
|  O08 | 111 (1) | 10 (0) |  |  115 ( 1) |  675 ( 7) |  |
|  B69 | 263 (2) | 159 (3) |  |  303 ( 3) |  133 ( 1) |  |
| Summary statistics was presented as % of patients, mean ± SD, or median [Q1, Q3]\* D = Standardized differences (matched minus unmatched): difference in means or proportions divided by pooled standard deviation***;*** > 0.1 in absolute value indicates slightly imbalance. ‡ 5 most frequent Anesthesiologists are listed.Abbreviations: ASA= American Society of Anesthesiologists; CVD= cardiovascular disease |