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| Supplementary digital content 3. Characteristics of patients undergoing colorectal cancer surgery 2004-2018 included in study compared with patients without anesthesia data available from the Danish Anesthesia Database |
|  | No anesthesia data | Anesthesia data available | Standardized mean difference |
| N | 15127 | 11634 |  |
| Median age, years (IQR) | 70 (63-78) | 70 (63-77) | 0.014 |
| Sex |  |  | 0.004 |
|  Female | 6979 (46.1) | 5347 (46.0) |  |
| Charlson Comorbidity Index |  |  | 0.064 |
|  0 | 10473 (69.2) | 7731 (66.5) |  |
|  1 | 2747 (18.2) | 2302 (19.8) |  |
|  2 | 1084 ( 7.2) | 858 ( 7.4) |  |
|  >2 | 823 ( 5.4) | 743 ( 6.4) |  |
| Filled prescriptions 3 months prior to surgery (ATC-code) |  |  |  |
| Proton pump inhibitors (A02BC) | 2623 (17.3) | 2078 (17.9) | 0.014 |
| Antidiabetics (A10) | 1285 ( 8.5) | 1129 ( 9.7) | 0.042 |
| Acetyl Salicylic acid (B01AC06) | 2506 (16.6) | 1754 (15.1) | 0.041 |
| Other platelet inhibitors (B01AC | 821 ( 5.4) | 616 ( 5.3) | 0.006 |
| Anticoagulants (B01A) | 916 ( 6.1) | 665 ( 5.7) | 0.014 |
| Digoxin (C01AA05) | 492 ( 3.3) | 328 ( 2.8) | 0.025 |
| Thiazides (C03) | 3134 (20.7) | 2089 (18.0) | 0.070 |
| Beta blockers (C07) | 2395 (15.8) | 1736 (14.9) | 0.025 |
| Calcium channel blockers (C08) | 1968 (13.0) | 1748 (15.0) | 0.058 |
| Drugs acting on renin angiotensin system (C09) | 3778 (25.0) | 3024 (26.0) | 0.023 |
| Lipid lowering drugs (C10) | 2873 (19.0) | 2532 (21.8) | 0.069 |
| Estrogen hormone replacement (G03C) | 599 ( 4.0) | 484 ( 4.2) | 0.010 |
| Corticosteroids for systemic use (H02) | 482 ( 3.2) | 320 ( 2.8) | 0.026 |
| Non-steroid anti-inflammatory drugs (M01A) | 1153 ( 7.6) | 830 ( 7.1) | 0.019 |
| Urate lowering drugs (M04) | 294 ( 1.9) | 226 ( 1.9) | <0.001 |
| Bisphosphonates (M05BA,M05BB) | 439 ( 2.9) | 347 ( 3.0) | 0.005 |
| Opioids (N02A) | 1674 (11.1) | 1275 (11.0) | 0.003 |
| Benzodiazepines (N05CD,N05CF) | 1737 (11.5) | 1107 ( 9.5) | 0.064 |
| Antidepressants (N06A) | 1255 ( 8.3) | 853 ( 7.3) | 0.036 |
| Drugs for obstructive airway diseases (R03) | 1296 ( 8.6) | 978 ( 8.4) | 0.006 |
| Number of different prescriptions |  |  | 0.028 |
|  0-4 | 10004 (66.1) | 7793 (67.0) |  |
|  5-9 | 4160 (27.5) | 3173 (27.3) |  |
|  ≥10 | 963 ( 6.4) | 668 ( 5.7) |  |
| Tumor localization |  |  | 0.037 |
|  Right hemicolon | 4870 (32.2) | 3893 (33.5) |  |
|  Left hemicolon | 5439 (36.0) | 4008 (34.5) |  |
|  Rectum | 4816 (31.8) | 3729 (32.1) |  |
|  Unspecified | <5 ( 0.0) | <5 ( 0.0) |  |
| Preoperative metastases |  |  | 0.073 |
|  Yes | 339 ( 2.2) | 385 ( 3.3) |  |
|  No | 14685 (97.1) | 11135 (95.7) |  |
|  Missing | 103 ( 0.7) | 114 ( 1.0) |  |
| Cancer Stage\* |  |  | 0.115 |
|  I |  3056 (20.2)  |  2496 (21.5)  |  |
|  II |  6444 (42.6)  |  4685 (40.3)  |  |
|  III |  4929 (32.6)  |  3634 (31.2)  |  |
|  IV |  377 ( 2.5)  |  478 ( 4.1)  |  |
|  Missing |  321 ( 2.1)  |  341 ( 2.9)  |  |
| Neoadjuvant oncologic treatment |  |  | 0.005 |
|  Yes | 1588 (10.5) | 1203 (10.3) |  |
| Urgency |  |  | 0.084 |
|  Elective | 13674 (90.4) | 10783 (92.7) |  |
|  Acute | 1451 ( 9.6) | 847 ( 7.3) |  |
|  Missing | <5 ( 0.0) | <5 ( 0.0) |  |
| Intended surgical approach |  |  | 0.405 |
|  Laparoscopy | 6471 (42.8) | 7283 (62.6) |  |
| Year |  |  | 0.656 |
|  2004-2008 | 7553 (49.9) | 2503 (21.5) |  |
|  2009-2012 | 4310 (28.5) | 4046 (34.8) |  |
|  2013-2018 | 3264 (21.6) | 5085 (43.7) |  |
| \* Union for International Cancer Control classification. IQR = inter-quartile range, ATC = Anatomical Therapeutic Chemical (ATC) Classification System. |