**Supplemental Content 5. Percentage of patients filling a non-opioid analgesic prescription, stratified by surgical type, and grouped by anticipated paina from surgery (N, (%))**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **2013** | **2014** | **2015** | **2016** | **2017** | **2018** | **2019** |
| **Overall** | 2119 (9) | 3434 (10) | 4063 (11) | 4911 (12) | 6448 (15) | 9310 (20) | 13090 (28) |
| **Low Anticipated Pain** | 302 (3) | 451 (3) | 472 (3) | 580 (3) | 987 (5) | 2001 (11) | 2832 (15) |
| **Abdominal wall hernia repair** | 172 (3) | 215 (3) | 244 (3) | 319 (4) | 481 (6) | 978 (11) | 1334 (15) |
| **Appendectomy** | 14 (4) | 11 (2) | 19 (3) | 18 (2) | 42 (5) | 102 (11) | 163 (17) |
| **Laparoscopic Cholecystectomy** | 34 (2) | 69 (2) | 98 (3) | 98 (3) | 198 (6) | 435 (12) | 635 (17) |
| **Laparoscopic Colectomy** | 10 (3) | 17 (4) | 13 (3) | 9 (3) | 33 (9) | 38 (9) | 41 (10) |
| **Partial mastectomy** | 53 (3) | 98 (4) | 73 (3) | 111 (4) | 174 (5) | 383 (12) | 546 (16) |
| **Radical prostatectomy** | 11 (2) | 26 (4) | 17 (2) | 11 (1) | 42 (5) | 32 (4) | 63 (9) |
| **Thyroidectomy** | 8 (2) | 15 (2) | 8 (1) | 14 (2) | 17 (2) | 33 (4) | 50 (7) |
| **Moderate Anticipated Pain** | 322 (21) | 412 (19) | 449 (19) | 488 (19) | 541 (21) | 604 (23) | 608 (24) |
| **Abdominal Hysterectomy** | 89 (30) | 100 (25) | 102 (24) | 113 (22) | 107 (23) | 127 (30) | 135 (33) |
| **Lap or Vaginal Hysterectomy** | 210 (25) | 284 (24) | 317 (23) | 354 (23) | 398 (25) | 421 (27) | 396 (26) |
| **Open Cholecystectomy** | 0 (0) | 6 (5) | 8 (6) | 4 (4) | 5 (4) | 14 (13) | 10 (11) |
| **Open Colectomy** | 15 (6) | 15 (4) | 15 (4) | 12 (3) | 23 (5) | 34 (8) | 54 (12) |
| **Simple Mastectomy** | 8 (11) | 7 (9) | 7 (14) | 5 (10) | 8 (17) | 8 (15) | 13 (25) |
| **High Anticipated Pain** | 1495 (12) | 2571 (14) | 3142 (16) | 3843 (17) | 4920 (21) | 6705 (26) | 9650 (37) |
| **Coronary artery bypass graft (CABG)** | 81 (23) | 113 (22) | 139 (27) | 147 (24) | 182 (27) | 208 (31) | 262 (41) |
| **Hip replacement** | 421 (11) | 719 (13) | 973 (16) | 1202 (18) | 1556 (21) | 2308 (28) | 3509 (41) |
| **Knee joint replacement** | 993 (12) | 1739 (14) | 2030 (15) | 2494 (17) | 3182 (20) | 4189 (25) | 5879 (35) |

**a**Defined using procedure-specific prescribing recommendations for patients without preoperative opioid use. Procedures were classified as “Low”, “Medium” or “High” expected pain if 5-10, 15-20, or 25-50 oxycodone immediate-release 5mg tablets were recommended, respectively