**Supplemental Content 9. Total MME dispensed within days 0-6 of surgery\among patients prescribed an opioid, stratified by procedure type**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Total Morphine Equivalent Dose; Median (IQR) | | | | | | |
|  | **2013** | **2014** | **2015** | **2016** | **2017** | **2018** | **2019** |
| **Low Anticipated Paina** | | | | | | | |
| **Abdominal wall hernia repair** | 135 (112.5, 225) | 135 (112.5, 225) | 135 (112.5, 225) | 135 (112.5, 225) | 135 (90, 180) | 112.5 (75, 150) | 75 (48, 120) |
| **Appendectomy** | 135 (112.5, 225) | 135 (100, 200) | 135 (90, 187.5) | 135 (90, 160) | 112.5 (75, 150) | 80 (60, 120) | 67.5 (40, 90) |
| **Laparoscopic Cholecystectomy** | 135 (112.5, 200) | 135 (112.5, 225) | 135 (112.5, 225) | 135 (112.5, 187.5) | 120 (80, 150) | 100 (67.5, 135) | 67.5 (40, 112.5) |
| **Laparoscopic Colectomy** | 150 (120, 225) | 150 (112.5, 225) | 135 (100, 225) | 135 (112.5, 200) | 120 (80, 180) | 100 (75, 135) | 75 (40, 112.5) |
| **Partial mastectomy** | 135 (112.5, 180) | 135 (112.5, 180) | 135 (112.5, 180) | 135 (112.5, 180) | 112.5 (90, 157.5) | 108 (67.5, 135) | 67.5 (40, 112.5) |
| **Radical prostatectomy** | 135 (112.5, 225) | 135 (112.5, 225) | 135 (112.5, 225) | 135 (90, 225) | 112.5 (80, 150) | 112.5 (80, 135) | 80 (60, 120) |
| **Thyroidectomy** | 135 (112.5, 180) | 135 (112.5, 187.5) | 135 (112.5, 202.5) | 135 (112.5, 187.5) | 135 (90, 180) | 112.5 (75, 150) | 100 (60, 135) |
| **Moderate Anticipated Paina** | | | | | | | |
| **Abdominal Hysterectomy** | 150 (112.5, 225) | 135 (90, 200) | 135 (112.5, 225) | 120 (90, 187.5) | 120 (80, 160) | 80 (67.5, 150) | 60 (48, 100) |
| **Lap or Vaginal Hysterectomy** | 135 (90, 150) | 135 (100, 200) | 137.5 (112.5, 200) | 135 (90, 160) | 120 (80, 150) | 90 (67.5, 150) | 80 (40, 135) |
| **Open Cholecystectomy** | 160 (120, 225) | 135 (112.5, 225) | 135 (112.5, 225) | 135 (112.5, 225) | 135 (80, 160) | 106.25 (75, 157.5) | 80 (60, 100) |
| **Open Colectomy** | 135 (112.5, 225) | 150 (112.5, 225) | 135 (112.5, 225) | 135 (112.5, 225) | 112.5 (80, 180) | 93.75 (60, 120) | 75 (42.5, 120) |
| **Simple Mastectomy** | 150 (112.5, 225) | 135 (112.5, 180) | 135 (112.5, 225) | 127.5 (112.5, 162) | 120 (85, 212.5) | 127.5 (110.25, 168.75) | 112.5 (67.5, 135) |
| **High Anticipated Paina** | | | | | | | |
| **Coronary artery bypass graft (CABG)** | 160 (120, 300) | 160 (80, 300) | 187.5 (100, 240) | 160 (120, 240) | 160 (120, 225) | 160 (112.5, 225) | 142.5 (80, 200) |
| **Hip replacement** | 400 (270, 600) | 450 (270, 600) | 450 (280, 600) | 450 (300, 600) | 408 (270, 600) | 375 (240, 480) | 280 (200, 450) |
| **Knee joint replacement** | 375 (240, 562.5) | 400 (270, 600) | 420 (270, 600) | 450 (270, 600) | 450 (260, 600) | 400 (240, 580) | 320 (225, 480) |

**a**Defined using procedure-specific prescribing recommendations for patients without preoperative opioid use.9 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