**Supplemental Content 7**

**Table S4.** Level of agreement between most commonly cited definitions of persistent opioid use.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Filled Prescription in -30 to 14 days perioperatively, and between 90-180 days post operatively (n=5685)** | **Filled an Opioid Prescription in 90-180 days Post Op (n=7616)** | **90 Days Consecutive or 120 Non-Consecutive filled prescriptions in 90-365days postoperatively (n=461)** | **10 more more prescriptions or 120 Non-Consecutive in 90-365days (n=509)** | **Opioid prescription overlaps 180 days after discharge (n=1061)** |
| **Filled Prescription in -30 to 14 days perioperatively, and between 90-180 days post operatively (n=5,685)** | 5685 (100) | 5685 (100)  Kappa 84.8 (0.84-0.85) | 307 (5.5)  Kappa 0.09 (0.08-0.10) | 345 (6.1)  Kappa 0.10 (0.09 – 0.10) | 800 (14.7)  Kappa 0.23 (0.21-0.24) |
| **Filled an Opioid Prescription in 90-180 days Post Op (n=7616)** |  | 7616 (100) | 385 (5.1)  Kappa 0.09 (0.08-0.10) | 424 (5.6)  Kappa 0.10 (0.09-0.11) | 1056 (13.9)  Kappa 0.23 (0.22-0.25) |
| **90 Days Consecutive or 120 Non-Consecutive filled prescriptions in 90-365days postoperatively (n=461)** |  |  | 461 (100) | 413 (89.6)  Kappa 0.84 (0.82-0.87) | 309 (67.0)  Kappa 0.40 (0.36 – 0.44) |
| **10 more more prescriptions or 120 Non-Consecutive in 90-365days (n=509)** |  |  |  | 509 (100) | 307 (60.3)  Kappa 0.39 (0.35 – 0.42) |
| **Opioid prescription overlaps 180 days after discharge (n=1061)** |  |  |  |  | 1061 (100) |

All values in table are reported as n (%), where % represents a row percent. Simple Kappas demonstrate the level of agreement between 2 definitions and are reported as: kappa (95% confidence interval).