**Supplemental Digital Content 12.** Overall and TN-Related Opioid Use\*

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| --- | --- | --- | --- |
|  | **Total****N=3685** | **Commercial****n=2425** | **Medicare****n=1260** |
| Opioids (any use), n (%) | 2418 (65.6) | 1635 (67.4) | 783 (62.1) |
| ≥90 days of opioid use over 3 years, n (%) | 693 (18.8) | 470 (19.4) | 223 (17.7) |
| TN-related opioid use, n (%)\* | 1582 (42.9) | 1076 (44.4) | 506 (40.2) |
| ≥90 days of opioid use over 3 years, n (%) | 303 (8.2) | 223 (9.2) | 80 (6.3) |
| **TN-related opioid use\*** | **n=1582** | **n=1076** | **n=506** |
| Nonopioid pharmacological treatment episodes, n (%) |  |  |  |
| 0 | 165 (10.4) | 112 (10.4) | 53 (10.5) |
| 1 | 425 (26.9) | 290 (27.0) | 135 (26.7) |
| 2 | 285 (18.0) | 181 (16.8) | 104 (20.6) |
| ≥3 | 707 (44.7) | 493 (45.8) | 214 (42.3) |
| Opioid use initiation relative to pharmacological treatment episodes, n (%) |  |  |  |
| Did not receive pharmacological treatment | 165 (10.4) | 112 (10.4) | 53 (10.5) |
| Initiated opioids before first pharmacological treatment  | 171 (10.8) | 129 (12.0) | 42 (8.3) |
| Initiated opioids after last pharmacological treatment  | 68 (4.3) | 43 (4.0) | 25 (4.9) |
| Initiated opioids concurrently with pharmacological treatment | 1178 (74.5) | 792 (73.6) | 386 (76.3) |
|  | *Denominators vary* |
| Opioid use in patients who *did* receive surgery within 3 years, n (%) | 310 (68.3)n=454 | 206 (76.0)n=271 | 104 (56.8)n=183 |
| Opioid use in patients who *did not* receive surgery within 3 years, n (%) | 1272 (39.4)n=3231 | 870 (40.4)n=2154 | 402 (37.3)n=1n,077 |
| Opioid use >90 days after posterior fossa surgery, n (%)  | 44 (21.9)n=201 | 35 (22.3)n=157 | 9 (20.5)n=44) |
| Opioid use >90 days after radiosurgery, n (%) | 76 (30.0)n=253 | 40 (35.1)n=114 | 36 (25.9)n=139 |
| Opioid use in patients *without* OA, RA, and lower back pain  | 1039 (40.7)n=2553 | 757 (42.6)n=1779 | 282 (36.4)n=774 |
| Opioid use in patients *with* OA, RA, and lower back pain | 543 (48.0)n=1132 | 319 (49.4)n=646 | 224 (46.1)n=486 |
| Duration of opioid treatment by year (days) |  |  |  |
| Year 1 | Median  | 17 | 17 | 19 |
| Mean (SD) | 39 (51) | 40 (54) | 35 (42) |
|  | n=1309 | n=911 | n=398 |
| Year 2 | Median  | 22 | 24 | 20 |
| Mean (SD) | 44 (56) | 50 (63) | 33 (39) |
|  | n=517 | n=342 | n=175 |
| Year 3 | Median  | 25 | 30 | 20 |
| Mean (SD) | 48 (62) | 53 (68) | 37 (47) |
|  | n=451 | n=310 | n=141 |

\*Opioids with a TN claim −30 to +7 days.

OA, osteoarthritis; RA, rheumatoid arthritis; TN, trigeminal neuralgia.