Supplemental Table 1. Migraine medications used by Pavlovic et al. (2019) and the current study (17).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Acute Migraine Medications | |  | Prophylactic Migraine Medications | |
| Pavlovic et al. (2019) | Current Study |  | Pavlovic et al. (2019) | Current Study |
| Analgesic  acetaminophen | Analgesic  none |  | Antidepressants  amitriptyline  venlafaxine | Antidepressants  amitriptyline  nortiptyline  desvenlafaxine  venlafaxine |
| Antiemetics  chlorpromazine | Antiemetics  domperidone  metoclopramide |  | Antiepileptics  divalproex sodium / sodium valproate  topiramate | Antiepileptics  divalproex sodium / sodium valproate  gabapentine  lamotrigine  topiramate |
| Ergot alkaloids  dihydroergotamine  ergotamine and caffeine | Ergot  dihydroergotamine |  | Antihistamines  none | Antihistamines  pizotifen |
| NSAIDs  acetylsalicylic acid  diclofenac  ibuprofen  ketorolac  naproxen  naproxen and sumatriptan | NSAIDs  diclofenac  ibuprofen  ketorolac  naproxen |  | Antihypertensives  atenolol  metoprolol  nadolol  propranolol  timolol | Antihypertensives  atenolol  metoprolol  nadolol  propranolol  timolol  verapamil  candesartan |
| Triptans  almotriptan  eletriptan  frovatriptan  naratriptan  rizatriptan  sumatriptan  zolmitriptan | Triptans  almotriptan  eletriptan  frovatriptan  naratriptan  rizatriptan  sumatriptan  zolmitriptan |  | Calcium antagonists  none | Calcium antagonists  flunarizine |
| Other  isometheptene | Other  none |  | NSAIDs  fenoprofen  ketorolac  naproxen | NSAIDs  none |
| Opioids  any | Opioids  any |  |  |  |

Abbreviations: NSAID: non-steroidal anti-inflammatory drug

Supplemental Table 2. Acute migraine prescription medication dispensations during the 1-year post-index period.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | Chronic  Migraine | | Episodic  Migraine | | Point estimate  [95% CI] |
| Overall dispensations | |  |  |  |  |  |
|  | number of dispensations, mean (SD; 95% CI) | 10.9 | (29.4; 10.4,11.4) | 2.9 | (8.9; 2.8, 3.0) | 8.0 [7.7, 8.3] |
|  | subjects with ≥1 dispensation, % (count) | 80.6% | (10230) | 63.4% | (34656) | 0.17 [0.16, 0.18] |
|  | number of dispensations, mean (SD; 95% CI) | 13.6 | (32.2; 13.0,14.2) | 4.6 | (10.9; 4.5,4.7) | 9.0 [8.6, 9.4] |
| Triptan dispensations | |  |  |  |  |  |
|  | number of dispensations, mean (SD; 95% CI) | 2.4 | (5.4; 2.3,2.5) | 1.3 | (2.7; 1.3, 1.3) | 1.1 [1.0, 1.2] |
|  | subjects with ≥1 dispensation, % (count) | 41.9% | (5320) | 37.9% | (20713) | 0.04 [0.03, 0.05] |
|  | number of dispensations, mean (SD; 95% CI) | 5.8 | (7.1; 5.6,6.0) | 3.3 | (3.6; 3.3,3.4) | 2.47 [2.33, 2.61] |
| NSAID dispensations | |  |  |  |  |  |
|  | number of dispensations, mean (SD; 95% CI) | 1.2 | (6.5; 1.1,1.3) | 0.5 | (1.2; 0.5,0.5) | 0.70 [0.64, 0.76] |
|  | subjects with ≥1 dispensation, % (count) | 37.9% | (4813) | 25.7% | (14076) | 0.12 [0.11, 0.13] |
|  | number of dispensations, mean (SD; 95% CI) | 3.3 | (10.2; 3.0,3.6) | 1.8 | (1.8; 1.8,1.8) | 1.5 [1.3, 1.7] |
| Antiemetic dispensations | |  |  |  |  |  |
|  | number of dispensations, mean (SD; 95% CI) | 0.4 | (4.1; 0.3,0.5) | 0.1 | (0.5; 0.1, 0.1) | 0.3 [0.3, 0.3] |
|  | subjects with ≥1 dispensation, % (count) | 13.5% | (1719) | 6.1% | (3355) | 0.07 [0.07, 0.08] |
|  | number of dispensations, mean (SD; 95% CI) | 3.2 | (10.8; 2.7,3.7) | 1.5 | (1.7; 1.4,1.6) | 1.8 [1.4, 2.1] |
| Ergot dispensations | |  |  |  |  |  |
|  | number of dispensations, mean (SD; 95% CI) | 0.03 | (1.1; 0.01, 0.05) | 0.01 | (0.2; 0.003,0.007) | 0.03 [0.02, 0.03] |
|  | subjects with ≥1 dispensation, % (count) | 0.7% | (83) | 0.2% | (122) | 0.005 [0.003, 0.006] |
|  | number of dispensations, mean (SD; 95% CI) | 4.5 | (13.1; 1.6,7.4) | 2.2 | (2.4; 1.8, 2.6) | 2.4 [-0.02, 4.8] |
| Opioid dispensations | |  |  |  |  |  |
|  | number of dispensations, mean (SD; 95% CI) | 6.8 | (24.3; 6.4,7.2) | 1.1 | (8.1; 1.0,1.2) | 5.7 [5.5, 6.0] |
|  | subjects with ≥1 dispensation, % (count) | 53.1% | (6741) | 25.7% | (14032) | 0.28 [0.27, 0.28] |
|  | number of dispensations, mean (SD; 95% CI) | 12.8 | (32.2; 12.0,13.6) | 4.3 | (15.5; 4.1,4.6) | 8.5 [7.9, 9.2] |

CI: confidence interval; NSAID: non-steroidal anti-inflammatory drug; SD: standard deviation

Supplemental Table 3. Preventative migraine prescription medication dispensations during the 1-year post-index period.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | Chronic  Migraine | | Episodic  Migraine | | Point estimate  [95% CI] |
| Overall dispensations | |  |  |  |  |  |
|  | number of dispensations, mean (SD; 95% CI) | 7.3 | (33.7; 6.7,7.9) | 1.4 | (7.1; 1.3, 1.5) | 5.9 [5.6, 6.2] |
|  | subjects with ≥1 dispensation, % (count) | 58.0% | (7370) | 28.9% | (15803) | 0.3 [0.3, 0.3] |
|  | number of dispensations, mean (SD; 95% CI) | 12.6 | (43.5; 11.6,13.6) | 5.0 | (12.6; 4.8, 5.2) | 7.6 [6.9, 8.4] |
| Antidepressant dispensations | |  |  |  |  |  |
|  | number of dispensations, mean (SD; 95% CI) | 2.6 | (12.7; 2.4,2.8) | 0.7 | (3.4; 0.7,0.7) | 1.9 [1.8, 2.0] |
|  | subjects with ≥1 dispensation, % (count) | 32.6% | (4145) | 16.4% | (8974) | 0.2 [0.2, 0.2] |
|  | number of dispensations, mean (SD; 95% CI) | 7.8 | (21.2; 11.6,13.6) | 4.0 | (7.6; 3.8,4.1) | 3.8 [3.3, 4.3] |
| Antiepileptic dispensations | |  |  |  |  |  |
|  | number of dispensations, mean (SD; 95% CI) | 3.5 | (22.2; 3.1,3.9) | 0.5 | (5.5; 0.5,0.5) | 3.0 [2.8, 3.2] |
|  | subjects with ≥1 dispensation, % (count) | 30.6% | (3882) | 9.0% | (4928) | 0.2 [0.2, 0.2] |
|  | number of dispensations, mean (SD; 95% CI) | 11.6 | (39.0; 10.3,12.8) | 5.4 | (17.6; 4.9,5.9) | 6.2 [5.0, 7.4] |
| Antihypertensive dispensations | |  |  |  |  |  |
|  | number of dispensations, mean (SD; 95% CI) | 1.1 | (6.5; 1.0,1.2) | 0.3 | (2.5; 0.3, 0.3) | 0.8 [0.7, 0.9] |
|  | subjects with ≥1 dispensation, % (count) | 17.0% | (2164) | 7.1% | (3884) | 0.1 [0.1, 0.1] |
|  | number of dispensations, mean (SD; 95% CI) | 6.3 | (14.7; 5.7,7.0) | 3.7 | (8.8; 3.4,4.0) | 2.6 [2.0, 3.2] |
| Calcium antagonist dispensations | |  |  |  |  |  |
|  | number of dispensations, mean (SD; 95% CI) | 0.05 | (1.5; 0.02, 0.08) | 0.01 | (0.3; 0.007,0.013) | 0.04 [0.03, 0.05] |
|  | subjects with ≥1 dispensation, % (count) | 1.0% | (122) | 0.4% | (217) | 0.006 [0.004, 0.007] |
|  | number of dispensations, mean (SD; 95% CI) | 5.6 | (14.3; 3.1,8.2) | 3.0 | (4.1; 2.4,3.5) | 2.7 [0.6, 4.7] |
| Antihistamine dispensations | |  |  |  |  |  |
|  | number of dispensations, mean (SD; 95% CI) | 0.01 | (0.3; 0.005,0.015) | 0.003 | (0.2; 0.001,0.005) | 0.007 [0.003, 0.011] |
|  | subjects with ≥1 dispensation, % (count) | 0.2% | (26) | 0.1% | (37) | 0.002 [0.001, 0.002] |
|  | number of dispensations, mean (SD; 95% CI) | 4.2 | (4.1; 2.5,5.8) | 4.4 | (7.0; 2.0,6.7) | -0.2 [-3.3, 2.8] |

CI: confidence interval; SD: standard deviation