**Supplementary Table 1.** DDI-related hospital admissions during follow-up (study outcomes), by interaction analysis.

|  |  |  |  |
| --- | --- | --- | --- |
| # | Interaction analysis | Follow-up hospitalizations | ICD-9-CM/(Outpatient Care Database) code |
| 1 | ACEIs/ARBs plus NSAIDs | Hyponatremia | 276.1 |
| Hyperkalemia | 276.7 |
| Hypertensive crisis | 401.xx-405.xx |
| Acute myocardial infarction | 410.xx |
| Heart failure | 428.xx |
| Cerebrovascular event | 430.xx-438.xx |
| Acute kidney failure | 584.xx |
| *(Computed tomography of the head)* | *(87.03, 87.03.1)* |
| *(Nephrology visit)* | *(89.01.B, 89.7B.4)* |
| 2 | ACEIs/ARBs or diuretics plus glucocorticoids | Hyponatremia | 276.1 |
| Hyperkalemia | 276.7 |
| Hypertensive crisis | 401.xx-405.xx |
| Acute myocardial infarction | 410.xx |
| Heart failure | 428.xx |
| Cerebrovascular event | 430.xx-438.xx |
| Acute kidney failure | 584.xx |
| *(Computed tomography of the head)* | *(87.03, 87.03.1)* |
| *(Nephrology visit)* | *(89.01.B, 89.7B.4)* |
| 3 | Diuretics plus NSAIDs | Hyponatremia | 276.1 |
| Hyperkalemia | 276.7 |
| Hypertensive crisis | 401.xx-405.xx |
| Acute myocardial infarction | 410.xx |
| Heart failure | 428.xx |
| Cerebrovascular event | 430.xx-438.xx |
| Acute kidney failure | 584.xx |
| *(Computed tomography of the head)* | *(87.03, 87.03.1)* |
| *(Nephrology visit)* | *(89.01.B, 89.7B.4)* |
| 4 | SSRIs plus NSAIDs | Intracranial bleeding | 430.xx, 431.xx, 432.xx |
| Gastrointestinal bleeding | 578.xx, 569.3x, 562.12, 535.71, 535.61, 535.51, 535.41, 535.31, 535.21, 535.11, 535.01, 534.6x, 534.4x, 534.2x, 534.0x, 533.6x, 533.4x, 533.4x, 533.2x, 533.0x, 532.6x, 532.4x, 532.2x, 532.0x, 531.6x, 531.4x, 531.2x, 531.0x, 530.82, 530.7x, 530.4x, 530.21, 459.0x |
| Other hemorrhagic diathesis | 287.9x, 287.8x, 286.5x  |
| *(Gastroenterology visit)* | *(89.01.9, 89.7A.9)* |
| *(Esophagogastroduodenoscopy)* | *(42.24, 44.14, 45.13, 45.14, 45.16)* |
| *(Colonoscopy)* | *(45.23, 45.24, 45.25)* |
| *(Rectosigmoidoscopy)* | *(45.24, 45.25, 48.23, 48.24)* |
| *(Computed tomography of the head)* | *(87.03, 87.03.1)* |
| 5 | Vitamin K antagonists plus NSAIDs | Intracranial bleeding | 430.xx, 431.xx, 432.xx |
| Gastrointestinal bleeding | 578.xx, 569.3x, 562.12, 535.71, 535.61, 535.51, 535.41, 535.31, 535.21, 535.11, 535.01, 534.6x, 534.4x, 534.2x, 534.0x, 533.6x, 533.4x, 533.4x, 533.2x, 533.0x, 532.6x, 532.4x, 532.2x, 532.0x, 531.6x, 531.4x, 531.2x, 531.0x, 530.82, 530.7x, 530.4x, 530.21, 459.0x |
| Other hemorrhagic diathesis | 287.9x, 287.8x, 286.5x  |
| *(Gastroenterology visit)* | *(89.01.9, 89.7A.9)* |
| *(Esophagogastroduodenoscopy)* | *(42.24, 44.14, 45.13, 45.14, 45.16)* |
| *(Colonoscopy)* | *(45.23, 45.24, 45.25)* |
| *(Rectosigmoidoscopy)* | *(45.24, 45.25, 48.23, 48.24)* |
| *(Computed tomography of the head)* | *(87.03, 87.03.1)* |
| 6 | NOACs plus NSAIDs | Intracranial bleeding | 430.xx, 431.xx, 432.xx |
| Gastrointestinal bleeding | 578.xx, 569.3x, 562.12, 535.71, 535.61, 535.51, 535.41, 535.31, 535.21, 535.11, 535.01, 534.6x, 534.4x, 534.2x, 534.0x, 533.6x, 533.4x, 533.4x, 533.2x, 533.0x, 532.6x, 532.4x, 532.2x, 532.0x, 531.6x, 531.4x, 531.2x, 531.0x, 530.82, 530.7x, 530.4x, 530.21, 459.0x |
| Other hemorrhagic diathesis | 287.9x, 287.8x, 286.5x  |
| *(Gastroenterology visit)* | *(89.01.9, 89.7A.9)* |
| *(Esophagogastroduodenoscopy)* | *(42.24, 44.14, 45.13, 45.14, 45.16)* |
| *(Colonoscopy)* | *(45.23, 45.24, 45.25)* |
| *(Rectosigmoidoscopy)* | *(45.24, 45.25, 48.23, 48.24)* |
| *(Computed tomography of the head)* | *(87.03, 87.03.1)* |
| 7 | Vitamin K antagonists plus antibiotics or antimycotics | Intracranial bleeding | 430.xx, 431.xx, 432.xx |
| Gastrointestinal bleeding | 578.xx, 569.3x, 562.12, 535.71, 535.61, 535.51, 535.41, 535.31, 535.21, 535.11, 535.01, 534.6x, 534.4x, 534.2x, 534.0x, 533.6x, 533.4x, 533.4x, 533.2x, 533.0x, 532.6x, 532.4x, 532.2x, 532.0x, 531.6x, 531.4x, 531.2x, 531.0x, 530.82, 530.7x, 530.4x, 530.21, 459.0x |
| Other hemorrhagic diathesis | 287.9x, 287.8x, 286.5x  |
| *(Gastroenterology visit)* | *(89.01.9, 89.7A.9)* |
| *(Esophagogastroduodenoscopy)* | *(42.24, 44.14, 45.13, 45.14, 45.16)* |
| *(Colonoscopy)* | *(45.23, 45.24, 45.25)* |
| *(Rectosigmoidoscopy)* | *(45.24, 45.25, 48.23, 48.24)* |
| *(Computed tomography of the head)* | *(87.03, 87.03.1)* |
| 8 | Antihypertensives plus α-blockers | Syncope | 780.2, 992.1 |
| Fracture | 800-829 |
| Dislocation | 830-839 |
| Sprain | 840-848 |
| Intracranial trauma | 850-854 |
| Intra-abdominal trauma | 860-869 |
| After-effects of trauma contusion | 905-908 |
| Contusion | 920-924 |
| Orthostatic hypotension | 458.0, 458.29, 458.8, 458.9, 785.50-785.59, 796.3 |
| 9 | Antidiabetics plus fluoroquinolones | Complication of secondary diabetes | 249.xx |
| Complications of diabetes | 250.xx |
| Hypoglycemic coma | 251.0, 251.2 |
| Glycemic abnormalities | 790.2x |
| Dietary surveillance and counseling | V65.3 |
| *(Diabetes visit)* | *(890180, 897A80)* |
| 10 | SSRIs plus ASA | Intracranial bleeding | 430.xx, 431.xx, 432.xx |
| Gastrointestinal bleeding | 578.xx, 569.3x, 562.12, 535.71, 535.61, 535.51, 535.41, 535.31, 535.21, 535.11, 535.01, 534.6x, 534.4x, 534.2x, 534.0x, 533.6x, 533.4x, 533.4x, 533.2x, 533.0x, 532.6x, 532.4x, 532.2x, 532.0x, 531.6x, 531.4x, 531.2x, 531.0x, 530.82, 530.7x, 530.4x, 530.21, 459.0x |
| Other hemorrhagic diathesis | 287.9x, 287.8x, 286.5x  |
| *(Gastroenterology visit)* | *(89.01.9, 89.7A.9)* |
| *(Esophagogastroduodenoscopy)* | *(42.24, 44.14, 45.13, 45.14, 45.16)* |
| *(Colonoscopy)* | *(45.23, 45.24, 45.25)* |
| *(Rectosigmoidoscopy)* | *(45.24, 45.25, 48.23, 48.24)* |
| *(Computed tomography of the head)* | *(87.03, 87.03.1)* |