### Supplemental Table 1. Outcome-Based Model Performance.

| Outcome                     | AUC   | Accuracy | Sensitivity | Specificity |
|-----------------------------|-------|----------|-------------|-------------|
| Any Cardiovascular Event    | 0.674 | 0.740    | 0.175       | 0.930       |
| Bradycardia                 | 0.664 | 0.867    | 0.118       | 0.953       |
| Myocardial Infarction       | 0.685 | 0.920    | 0.136       | 0.956       |
| Syncope                     | 0.676 | 0.837    | 0.072       | 0.974       |

Abbreviations: AUC, Area Under Curve.
Supplemental Table 2. Odds Ratio Effects of All Selected Risk Factors from Stepwise Logistic Regressions.

| Risk Factors                                      | Any Cardiovascular Event | Bradycardia                  | Myocardial Infarction | Syncope |
|---------------------------------------------------|----------------------------|------------------------------|------------------------|---------|
| **Total Number Selected**                         | 55                         | 39                           | 24                     | 46      |
| Male                                              | 1.102 (0.0026)             | 1.242 (<0.0001)              |                        |         |
| **Chronic Diseases Before Index Date**            |                            |                              |                        |         |
| Atrial Fibrillation                               | 1.161 (<0.0001)            | 1.211 (<0.0001)              |                        |         |
| Cataract                                          | 1.141 (0.0002)             |                              | 1.204 (<0.0001)        |         |
| Heart Failure                                     | 1.108 (0.0011)             |                              |                        |         |
| Chronic Kidney Disease                            | 1.188 (<0.0001)            | 1.142 (0.0021)               | 1.280 (<0.0001)        | 1.107 (0.0071) |
| Depression                                        | 1.127 (<0.0001)            |                              |                        |         |
| Hypertension                                      | 0.825 (<0.0001)            | 0.760 (<0.0001)              | 0.819 (<0.0001)        |         |
| Ischemic Heart Disease                            | 1.258 (<0.0001)            | 1.209 (<0.0001)              | 1.837 (<0.0001)        | 1.202 (<0.0001) |
| Stroke/Transient Ischemic Attack                  | 1.093 (0.0038)             |                              |                        | 1.153 (0.0001) |
| **ICD Diagnosis Before Index Date**               |                            |                              |                        |         |
| Malignant Neoplasm Prostate                       |                            |                              | 1.334 (0.0025)         |         |
| Volume Depletion                                  | 1.177 (0.0076)             |                              |                        |         |
| Hyperpotassemia                                   |                            |                              | 1.406 (0.0092)         |         |
| Vascular Dementia                                 |                            |                              | 1.255 (0.0039)         |         |
| Unspecified Psychosis                             | 1.154 (0.0040)             |                              |                        |         |
| Cerebral Degeneration, Unspecified                |                            |                              | 1.252 (0.0034)         |         |
| Benign Hypertension                               |                            |                              |                        | 1.099 (0.0071) |
| Hypertension, Unspecified                         | 1.093 (0.0023)             |                              |                        |         |
| Intermediate Coronary Syndrome                    | 1.393 (0.0026)             |                              |                        |         |
| Coronary Atherosclerosis                          |                            |                              | 1.242 (0.0020)         |         |
| Cardiac Dysrhythmia, Unspecified                  | 1.223 (0.0046)             |                              |                        |         |
| Heart Failure, Unspecified                        |                            |                              |                        | 1.359 (0.0045) |
| Chronic Kidney Disease, Unspecified               |                            |                              | 1.338 (0.0077)         |         |
| In Growing Nail                                   | 1.169 (0.0077)             | 1.247 (0.0042)               | 1.221 (0.0039)         |         |
| Other Musculoskeletal Symptoms Referable to Limbs |                            |                              |                        |         |
| Alteration of Consciousness                       | 1.247 (<.0001)             | 1.222 (0.0006)               | 1.240 (<0.0001)        |         |
| Abnormality of Gait                               | 1.146 (0.0072)             |                              | 1.255 (0.0001)         |         |
| Epistaxis                                         |                            |                              |                        | 1.546 (0.0015) |
| **Elbow, Forearm, and Wrist Injury**              |                            |                              |                        | 1.387 (0.0095) |
| **Lens Replaced by Other Means**                  |                            |                              |                        |         |
| Intestine                                         | 1.196 (0.0020)             |                              |                        | 0.413 (0.0018) |
| **Medication Usage Before Index Date**            |                            |                              |                        |         |
| Risk Factors | Any Cardiovascular Event | Bradycardia | Myocardial Infraction | Syncope |
|--------------|--------------------------|-------------|----------------------|---------|
| Total Number Selected | 55 | 39 | 24 | 46 |
| Morphine and Opium, Non-Injectable | 1.563 (0.0035) | 1.390 (0.0028) | | |
| Antidiarrheals Without Anti-Infectives | 1.367 (0.0002) | | | |
| Anti-Parkinson’s, Anticholinergic Agents | 1.541 (0.0018) | | | |
| Anticholinergics, Bronchial | 1.347 (0.0081) | | | |
| Nitrites and Nitrates | 1.202 (0.0014) | | | |
| Calcium Channel Blockers | 1.129 (0.0031) | | | |
| Beta Blockers | | | | 1.114 (0.0021) |
| Anti-Fungal Agents, Polyenes | 1.307 (0.0005) | | | |
| Human Insulin, Analog Long Acting | | | 1.524 (<0.0001) | |
| Diuretics, Combinations | | | 0.659 (0.0086) | |
| Hormones, Glucocorticoids Plain, Oral | 1.110 (0.0055) | | | |
| Hyperosmolar Laxatives | | | 1.201 (0.0032) | |
| ICD Diagnosis During Follow-Up | | | | |
| Unspecified Septicemia | 0.682 (<0.0001) | 0.728 (0.0062) | 0.591 (<0.0001) | |
| Benign Neoplasm of Colon | 0.788 (0.0060) | 0.538 (0.0041) | | |
| Unspecified Vitamin D Deficiency | | | 0.842 (0.0060) | |
| Senile Dementia, Uncomplicated | 0.879 (0.0086) | | | |
| Dementia, Unspecified | 0.629 (<0.0001) | 0.664 (<0.0001) | 0.627 (0.0004) | 0.580 (<0.0001) |
| Other Disorders of Lacrimal Gland | 0.824 (0.0061) | | | |
| Unspecified Hearing Loss | 0.738 (0.0080) | 0.625 (0.0074) | | |
| Premature Beats | | | 1.516 (0.0031) | |
| Other Specified Cardiac Dysrhythmias | 1.446 (<0.0001) | 1.542 (<0.0001) | | |
| Cardiac Dysrhythmia, Unspecified | | | 1.286 (0.0086) | |
| Congestive Heart Failure, Unspecified | | | 1.402 (<0.0001) | |
| Unspecified Transient Cerebral Ischemia | 1.224 (0.0014) | | 1.315 (0.0003) | |
| Pneumonia, Unspecified Organism | | | 0.849 (0.0064) | |
| Food/Vomit Pneumonitis | 0.527 (<0.0001) | 0.581 (0.0011) | 0.588 (0.0019) | |
| Unspecified Pleural Effusion | | | 0.771 (0.0041) | |
| Pulmonary Congestion/Hypostasis | | | 0.781 (0.0056) | |
| Unspecified Gastritis and Gastroduodenitis | | | 0.729 (0.0078) | |
| Hemorrhage of Gastrointestinal Tract, Unspecified | | | 0.703 (0.0006) | |
| Acute Kidney Failure, Unspecified | 0.814 (0.0047) | | | |
| Urinary Tract Infection, Site Not Specified | | | 0.837 (0.0073) | |
| Pressure Ulcer | 0.757 (0.0001) | | 0.748 (0.0028) | |
| Rheumatoid Arthritis | | | 1.529 (0.0004) | |
| Osteoarthritis, Unspecified Whether Generalized or Localized | | | 0.796 (0.0093) | |
| Dizziness and Giddiness | 1.286 (<0.0001) | | 1.425 (<0.0001) | |
| Failure to Thrive-Adult | 0.577 (<0.0001) | | 0.563 (0.0004) | |
| Risk Factors                                                                 | Any Cardiovascular Event | Bradycardia   | Myocardial Infarction | Syncope       |
|------------------------------------------------------------------------------|--------------------------|---------------|-----------------------|---------------|
| Total Number Selected                                                        | 55                       | 39            | 24                    | 46            |
| Swelling in Head and Neck                                                   |                          |               | 0.417 (0.0067)        |               |
| Cough                                                                        |                          | 0.864 (0.0061)|                       |               |
| Chest Pain                                                                   |                          |               | 1.383 (<0.0001)       |               |
| Dysphagia                                                                    |                          |               |                       | 0.818 (0.0065)|
| Abnormal Cardiovascular Function Study                                      |                          | 1.322 (0.0001)|                       |               |
| Debility, Unspecified                                                       | 0.699 (<0.0001)         | 0.675 (0.0012)| 0.693 (0.0011)        |               |
| Closed Fracture of Unspecified Part of Neck of Femur                        | 0.643 (<0.0001)         | 0.686 (0.0005)| 0.610 (<0.0001)       |               |
| Other and Unspecified Injury of Head, Face and Neck Joint                   | 1.190 (<0.0001)         |               |                       | 0.524 (0.0017)|
| Routine Medical Exam                                                         | 0.725 (<0.0001)         | 0.764 (0.0012)|                       | 0.764 (0.0001)|

**Medication Usage During Follow-Up**

| Medication Category                                                          | Any Cardiovascular Event | Bradycardia   | Myocardial Infarction | Syncope       |
|------------------------------------------------------------------------------|--------------------------|---------------|-----------------------|---------------|
| Narcotics Analgesic, Synthetic, Non-Injectable                              | 0.880 (0.0013)           |               |                       |               |
| Morphine and Opium, Non-Injectable                                          | 0.400 (<0.0001)          | 0.395 (<0.0001)| 0.588 (0.0001)        | 0.369 (<0.0001)|
| Codeine and Combinations, Non-Injectable                                    | 0.776 (0.0097)           |               |                       | 0.870 (0.0003)|
| Anesthetics Local, Injectable                                               | 0.570 (0.0010)           |               |                       | 0.655 (0.0038)|
| Anticoagulants, Other                                                       | 0.806 (<0.0001)          | 0.800 (<0.0001)| 0.790 (0.0009)        | 0.820 (<0.0001)|
| Cephalosporins and Related                                                  | 0.829 (<0.0001)          |               |                       | 0.851 (0.0024)|
| Aminopenicillins                                                           |                          |               |                       |               |
| Quinolones, Systemic                                                        |                          | 0.893 (0.0091)|                       |               |
| Sulfonamide-Trimethoprim Combinations                                       |                          |               |                       | 0.859 (0.0018)|
| Antinauseant 5Ht3 Antagonists                                               | 0.750 (0.0009)           | 0.692 (0.0045)|                       |               |
| Antiparkinson Combinations                                                  | 0.779 (0.0077)           |               |                       |               |
| Varicella Vaccine                                                           | 0.668 (<0.0001)          | 0.678 (0.0095)| 0.414 (0.0027)        |               |
| Beta Agonists, Nebulizer Solutions                                          | 0.829 (0.0042)           |               |                       | 0.604 (<0.0001)|
| Nitrites and Nitrates                                                       | 1.151 (0.0022)           |               | 1.414 (<0.0001)       |               |
| Antineoplastic Progestins                                                   | 0.814 (0.0003)           |               |                       | 0.739 (<0.0001)|
| Ace Inhibitors, Alone                                                       |                          |               |                       | 1.213 (0.0014)|
| Beta Blockers                                                               | 1.194 (<0.0001)          | 1.340 (<0.0001)|                       | 1.571 (0.0024)|
| Alpha Blockers Alone or Combinations                                        |                          |               |                       |               |
| Scabicides/Pediculicides                                                    | 0.737 (0.0044)           |               |                       |               |
| Anti-Fungal Agents, Polyenes                                                | 0.852 (0.0013)           |               | 0.759 (0.0065)        | 0.722 (<0.0001)|
| Hospital IV Solution Over 50 ML, Dextrose                                   | 0.625 (0.0087)           |               |                       |               |
| Ophthalmic Anti-Infect Broad/Med Spectrum                                   | 0.827 (<0.0001)          | 0.786 (0.0001)|                       |               |
| Antidepressant-Tricyclics and Tetracyclics                                   | 0.880 (0.0015)           | 0.830 (0.0011)|                       |               |
| Benzodiazepines                                                             | 0.596 (<0.0001)          | 0.575 (<0.0001)| 0.622 (<0.0001)       | 0.683 (<0.0001)|
| Antianxiety, Others                                                        |                          |               |                       |               |
| Influenza Antivirals                                                        | 0.749 (0.0006)           |               |                       | 0.708 (0.0018)|