

Trait	Case Definition	Control Definition
Breast Cancer	A non-cisgender male with at least one occurrence of the breast cancer diagnostic codes or indication on personal health history survey	Not a case, no mastectomy procedure code, not a cisgender male
Prostate Cancer	A non-cisgender female with at least one occurrence of the prostate cancer diagnostic codes or indication on personal health history survey	Not a case or a cisgender female, has not had a prostatectomy, has PSA measurements
Coronary Artery Disease	EHR contains a revascularization procedure code, diagnostic codes on two separate instances, or indication on personal health history survey	EHR does not contain a revascularization procedure code or diagnostic code and no indication on personal health history survey
Atrial Fibrillation	EHR contains a code for atrial fibrillation on two separate instances or indication on personal health history survey without heart transplant	EHR does not contain an atrial fibrillation code, no indication on personal health history survey. Presence of an ecg in EHR
Asthma	EHR contains a code for asthma on two separate instances and has asthma drug prescriptions without any exclusionary codes	EHR does not contain an asthma code, any asthma drug prescriptions, any exclusionary codes and no indication on personal health history survey
CKD	Separate document included	
T2D	Separate document included	

Definition	OMOP Codes
Breast Cancer diagnostic codes	4091464: Malignant neoplasm of nipple and areola of female breast
	4091469: Malignant neoplasm of nipple and areola of male breast
	4112853: Malignant tumor of breast

	4162253: Primary malignant neoplasm of breast
	81250: Carcinoma in situ of breast
Breast Cancer mastectomy code	4286804: Excision of breast tissue
Prostate Cancer diagnostic codes	200962: Primary malignant neoplasm of prostate
	36712762: Recurrent malignant neoplasm of prostate
	37016740: Prostate cancer metastatic to bone
	4163261: Malignant tumor of prostate
	4196262: Metastasis from malignant tumor of prostate
Prostate Cancer prostatectomy codes	4073700: Transurethral laser prostatectomy
	4211496: Perineal prostatectomy
	4235738: Prostatectomy
Prostate Cancer psa codes	40779420: Prostate Specific Ag
	4272032: Prostate Specific antigen measurement
Coronary Artery Disease revascularization procedure code	4034857: Transmyocardial revascularization by laser technique
	4217445: Heart revascularization
	4219321: Anastomosis of internal mammary artery to coronary artery, double vessel
	4284104: Aortocoronary artery bypass graft
	43533186: Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of drug-eluting intracoronary stent, atherectomy and angioplasty, including distal protection when perform...
	36969009: Placement of stent in coronary

	artery
	43533187: Percutaneous transluminal revascularization of acute total/subtotal occlusion during acute myocardial infarction, coronary artery or coronary artery bypass graft, any combination of drug-eluting intracoronary stent, atherectomy and angioplasty, includi...
	43533223: Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of drug-eluting intracoronary stent, atherectomy and angioplasty, including distal protection when perform...
	43533242: Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of drug-eluting intracoronary stent, atherectomy and angioplasty; each additional coronary...
	43533354: Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of drug-eluting intracoronary stent, atherectomy and angioplasty; single vessel
	41339005: Coronary angioplasty
	14201006: Coronary angioplasty by open chest approach
	276861004: Percutaneous balloon angioplasty of artery
Coronary Artery Disease diagnostic code	312327: Acute myocardial infarction
	314666: Old myocardial infarction
	319038: Postmyocardial infarction syndrome
	37311078: Delayed postmyocardial infarction pericarditis
	4108220: Rupture of papillary muscle as

	current complication following acute myocardial infarction
	4108679: Rupture of cardiac wall without hemopericardium as current complication following acute myocardial infarction
	4108680: Thrombosis of atrium, auricular appendage, and ventricle due to and following acute myocardial infarction
	4119462: Post-infarction mitral papillary muscle rupture
	4119606: Post-infarction mural thrombus
	4119953: Post-infarction ventricular septal defect
	4121477: Post-infarction pericarditis
	4124687: Cardiac rupture due to and following acute myocardial infarction
	4158567: Post percutaneous transluminal coronary angioplasty
	4161462: Patient post percutaneous transluminal coronary angioplasty
	4178622: Recurrent coronary arteriosclerosis after percutaneous transluminal coronary angioplasty
	4198141: Post infarct angina
	4322145: Pericarditis secondary to acute myocardial infarction
	4329847: Myocardial infarction
	4353828: Coronary artery finding
	438172: Atrial septal defect due to and following acute myocardial infarction
	46269996: Coronary arteriosclerosis after percutaneous coronary angioplasty
	4163883: History of coronary artery bypass grafting

	4177223: History of percutaneous transluminal coronary angioplasty
	4179076: History of placement of stent in anterior descending branch of left coronary artery
	4180760: History of placement of stent for coronary artery disease
	4181951: History of arterial bypass of lower limb artery
	43022009: History of angioplasty
	4324192: History of aortofemoral bypass surgery
	4324758: History of placement of stent in circumflex branch of left coronary artery
	44782697: Drug coated stent in branch of right coronary artery
	44782699: Drug coated stent in circumflex branch of left coronary artery
	44782701: Drug coated stent in anterior descending branch of left coronary artery
	44782708: Stent in anterior descending branch of left coronary artery
	46269964: History of peripheral vascular angioplasty
Atrial Fibrillation diagnostic code	313217: Atrial fibrillation
Atrial Fibrillation exclusion criteria	42538117: Transplanted heart present
	42538119: Transplanted heart valve present
	443575: Disorder of transplanted heart
	4105593: Transplantation of heart valve
	4137127: Transplantation of heart
Atrial Fibrillation ECG codes	4117134: Electrocardiogram finding
	3006698: P wave axis

	3007794: P-R Interval
	3020660: R wave axis
	3025809: Q-T interval
	3027358: T wave axis
	4163951: Electrocardiographic procedure
Asthma diagnostic code	317009: Asthma
Asthma drug prescription codes	1110942: omalizumab
	1115572: Fentanyl Nasal Spray
	1149380: sodium fluoride 27.2 MG/ML [Floam]
	1196514: flunisolide
	1506270: methylprednisolone
	1518254: dexamethasone
	1550557: prednisolone
	1551099: prednisone
	36883745: Budesonide / formoterol Inhalant Solution [Symbicort]
	902938: ciclesonide
	903963: triamcinolone
	905233: Fentanyl 0.005 MG/ML / Ropivacaine hydrochloride 2 MG/ML Injectable Solution
	939259: budesonide
	1111220: arformoterol
	1111706: Aspirin 325 MG / Chlorpheniramine 2 MG / Dextromethorphan 10 MG / Phenylephrine 7.8 MG Disintegrating Tablet
	1112921: ipratropium
	1114620: nedocromil

	1123995: metaproterenol
	1125449: pirbuterol
	1137529: salmeterol
	1147878: folic acid 0.2 MG/ML / polysaccharide iron complex 20 MG/ML / vitamin B12 0.005 MG/ML [Niferex Forte]
	1152631: ascorbic acid / zinc sulfate Oral Product
	1154161: chlorpheniramine / dextromethorphan / methscopolamine Oral Product
	1154343: ascorbate manganese / chondroitin sulfates / glucosamine Oral Product
	1192218: levalbuterol
	1196677: formoterol
	1236744: terbutaline
	1237049: fentanyl Mucosal Spray
	1563413: ritodrine
Asthma exclusion codes	192275: Alpha-1-antitrypsin deficiency
	255573: Chronic obstructive pulmonary disease
	261325: Pulmonary emphysema
	315831: Chronic pulmonary heart disease
	4046868: Vocal cord dysfunction
	4151240: Transplanted organ failure
	4195694: Acute respiratory distress syndrome
	4284110: Acute pulmonary heart disease
	4309320: Transplanted organ rejection
	435514: Lymphoproliferative disorder following transplantation

	441267: Cystic fibrosis
	444084: Extrinsic allergic alveolitis
	80809: Rheumatoid arthritis
	4208341: Solid organ transplant