Disclaimer

The FDA chose a specific outcome algorithm that met its need for a given medical product-outcome assessment. The use of a specific outcome algorithm in a Sentinel assessment should not be interpreted as an endorsement from FDA to use the algorithm for all safety assessments. Investigators should always consider the objective, study design, analytic approach, and data source of a given medical product safety assessment when choosing the outcome algorithm. The suitability of an outcome algorithm may change when applied to different scenarios. For additional information, please refer to the

Best Practices for Conducting and Reporting Pharmacoepidemiologic Safety Studies Using Electronic Healthcare Data guidance document provided by the FDA.

Overview

Title	Myocardial Infarction Algorithm Defined in "Cardiovascular Outcomes following Percutaneous Transluminal Septal Myocardial Ablation (PTSMA) Procedures: An Updated Descriptive Analysis"
Request ID	cder_mpl1r_wp240
Description	This report lists International Classification of Disease, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes and algorithms used to define myocardial infarction in this request. For additional information about the algorithm and how it was defined relative to the cohort and exposures of interest in the analysis, see the analysis page here: https://www.sentinelinitiative.org/studies/drugs/individual-drug-analyses/cardiovascular-outcomes-following-percutaneous
Outcome	Myocardial infarction
Algorithm to Define Outcome	Myocardial infarction outcomes were defined using ICD-9-CM and ICD-10-CM codes that occurred in an inpatient or emergency department care setting within 90 days following and including the index PTSMA procedure date.
Query Period	January 1, 2016 - June 30, 2022
Request Send Date	December 6, 2022

Glossary

Care Setting - type of medical encounter or facility where the exposure, event, or condition code was recorded. Possible care settings include: Inpatient Hospital Stay (IP), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA). For laboratory results, possible care settings include: Emergency department (E), Home (H), Inpatient (I), Outpatient (O), or Unknown or missing (U)

Outcome - outcome of interest (either primary or secondary)

Principal Diagnosis (PDX) - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital. 'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the Caresetting/PDX parameter.

Query Period - period in which the modular program looks for exposures and outcomes of interest

Request Send Date - date the request was sent to Sentinel Data Partners

List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Myocardial Infarction in this Request

Code	Description	Code Category	Code Type
	Myocardial Infarction		
410	Acute myocardial infarction	Diagnosis	IC-9-CM
410.0	Acute myocardial infarction of anterolateral wall	Diagnosis	IC-9-CM
410.00	Acute myocardial infarction of anterolateral wall, episode of care unspecified	Diagnosis	IC-9-CM
410.01	Acute myocardial infarction of anterolateral wall, initial episode of care	Diagnosis	IC-9-CM
410.02	Acute myocardial infarction of anterolateral wall, subsequent episode of care	Diagnosis	IC-9-CM
410.1	Acute myocardial infarction of other anterior wall	Diagnosis	IC-9-CM
410.10	Acute myocardial infarction of other anterior wall, episode of care unspecified	Diagnosis	IC-9-CM
410.11	Acute myocardial infarction of other anterior wall, initial episode of care	Diagnosis	IC-9-CM
410.12	Acute myocardial infarction of other anterior wall, subsequent episode of care	Diagnosis	IC-9-CM
410.2	Acute myocardial infarction of inferolateral wall	Diagnosis	IC-9-CM
410.20	Acute myocardial infarction of inferolateral wall, episode of care unspecified	Diagnosis	IC-9-CM
410.21	Acute myocardial infarction of inferolateral wall, initial episode of care	Diagnosis	IC-9-CM
410.22	Acute myocardial infarction of inferolateral wall, subsequent episode of care	Diagnosis	IC-9-CM
410.3	Acute myocardial infarction of inferoposterior wall	Diagnosis	IC-9-CM
410.30	Acute myocardial infarction of inferoposterior wall, episode of care unspecified	Diagnosis	IC-9-CM
410.31	Acute myocardial infarction of inferoposterior wall, initial episode of care	Diagnosis	IC-9-CM
410.32	Acute myocardial infarction of inferoposterior wall, subsequent episode of care	Diagnosis	IC-9-CM
410.4	Acute myocardial infarction of other inferior wall	Diagnosis	IC-9-CM
410.40	Acute myocardial infarction of other inferior wall, episode of care unspecified	Diagnosis	IC-9-CM
410.41	Acute myocardial infarction of other inferior wall, initial episode of care	Diagnosis	IC-9-CM
410.42	Acute myocardial infarction of other inferior wall, subsequent episode of care	Diagnosis	IC-9-CM
410.5	Acute myocardial infarction of other lateral wall	Diagnosis	IC-9-CM
410.50	Acute myocardial infarction of other lateral wall, episode of care unspecified	Diagnosis	IC-9-CM
410.51	Acute myocardial infarction of other lateral wall, initial episode of care	Diagnosis	IC-9-CM
410.52	Acute myocardial infarction of other lateral wall, subsequent episode of care	Diagnosis	IC-9-CM
410.6	Acute myocardial infarction, true posterior wall infarction	Diagnosis	IC-9-CM
410.60	Acute myocardial infarction, true posterior wall infarction, episode of care unspecified	Diagnosis	IC-9-CM

List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Myocardial Infarction in this Request

Code	Description	Code Category	Code Type
410.61	Acute myocardial infarction, true posterior wall infarction, initial episode of care	Diagnosis	IC-9-CM
410.62	Acute myocardial infarction, true posterior wall infarction, subsequent episode of care	Diagnosis	IC-9-CM
410.7	Acute myocardial infarction, subendocardial infarction	Diagnosis	IC-9-CM
410.70	Acute myocardial infarction, subendocardial infarction, episode of care unspecified	Diagnosis	IC-9-CM
410.71	Acute myocardial infarction, subendocardial infarction, initial episode of care	Diagnosis	IC-9-CM
410.72	Acute myocardial infarction, subendocardial infarction, subsequent episode of care	Diagnosis	IC-9-CM
410.8	Acute myocardial infarction of other specified sites	Diagnosis	IC-9-CM
410.80	Acute myocardial infarction of other specified sites, episode of care unspecified	Diagnosis	IC-9-CM
410.81	Acute myocardial infarction of other specified sites, initial episode of care	Diagnosis	IC-9-CM
410.82	Acute myocardial infarction of other specified sites, subsequent episode of care	Diagnosis	IC-9-CM
410.9	Acute myocardial infarction, unspecified site	Diagnosis	IC-9-CM
410.90	Acute myocardial infarction, unspecified site, episode of care unspecified	Diagnosis	IC-9-CM
410.91	Acute myocardial infarction, unspecified site, initial episode of care	Diagnosis	IC-9-CM
410.92	Acute myocardial infarction, unspecified site, subsequent episode of care	Diagnosis	IC-9-CM
I21	Acute myocardial infarction	Diagnosis	ICD-10-CM
I21.0	ST elevation (STEMI) myocardial infarction of anterior wall	Diagnosis	ICD-10-CM
I21.01	ST elevation (STEMI) myocardial infarction involving left main coronary artery	Diagnosis	ICD-10-CM
I21.02	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery	Diagnosis	ICD-10-CM
I21.09	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	Diagnosis	ICD-10-CM
I21.1	ST elevation (STEMI) myocardial infarction of inferior wall	Diagnosis	ICD-10-CM
I21.11	ST elevation (STEMI) myocardial infarction involving right coronary artery	Diagnosis	ICD-10-CM
I21.19	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	Diagnosis	ICD-10-CM
I21.2	ST elevation (STEMI) myocardial infarction of other sites	Diagnosis	ICD-10-CM
I21.21	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery	Diagnosis	ICD-10-CM
I21.29	ST elevation (STEMI) myocardial infarction involving other sites	Diagnosis	ICD-10-CM
I21.3	ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM

List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Myocardial Infarction in this Request

Code	Description	Code Category	Code Type
I21.4	Non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I21.9	Acute myocardial infarction, unspecified	Diagnosis	ICD-10-CM
I21.A	Other type of myocardial infarction	Diagnosis	ICD-10-CM
I21.A1	Myocardial infarction type 2	Diagnosis	ICD-10-CM
I21.A9	Other myocardial infarction type	Diagnosis	ICD-10-CM
I22	Subsequent ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I22.0	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall	Diagnosis	ICD-10-CM
I22.1	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall	Diagnosis	ICD-10-CM
I22.2	Subsequent non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I22.8	Subsequent ST elevation (STEMI) myocardial infarction of other sites	Diagnosis	ICD-10-CM
I22.9	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM