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**ADAPTABLE Base Phenotype Specification – Coding DRAFT**

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| 1. **Implementation Attributes** |

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| *Attribute* | *Description* | *Potential Basis* |  |
| Reference population | An initial population that should be evaluated by the phenotype criteria | Patient has one or more encounters within the given settings within a given observation period and is not known to have died | Define REF\_START\_DT:  “01JAN2015”d  Define REF\_END\_DT:  today()  Define refPop:  ENCOUNTER.ENC\_TYPE in ('IP', 'EI', 'AV') and  ENCOUNTER.ADMIT\_DATE between REF\_START\_DT and REF\_END\_DT |
| Look-back period | A defined period to be used for evaluating patient history relevant to inclusion and exclusion criteria. | Either (a) a limited observation period or (b) an observation period that encompasses all data in the datamart. If using all data, set start date to a sufficiently early date.  For criteria that require a recent instance, define a recent observation period. | Define HISTORY\_START\_DT:  “01JAN2000”d  Define HISTORY\_END\_DT:  today()  Define RECENT\_START\_DT:  "01JAN2015"d  Define RECENT\_END\_DT:  today() |
| Age determination date | The date as of which date to determine age. | Query date or trial enrollment start date | Define AGE\_ASOF\_DT:  today()  Define age in years:  floor((intck('month', DEMOGRAPHIC.BIRTH\_DATE, AGE\_ASOF\_DT) - (day(AGE\_ASOF \_DT) < day(DEMOGRAPHIC.BIRTH\_DATE))) / 12) |
| Current medication period | The period during which an observed prescription or dispensing of a medication will be considered current. | Within 6 months of the query date? | Define RX\_START\_DT:  today() - 180  Define RX\_END\_DT:  today() |
| Current laboratory period | The period during which a lab value should be observed. | Within 6 months of the query date? | Define LAB\_START\_DT:  today() - 180  Define LAB\_END\_DT:  today() |
| Prior 12 month period | Fixed 12 month period required by some enrichment factors | Within 12 months of query date | Define PRIORYR\_START\_DT:  today() - 365  Define PRIORYR\_END\_DT:  today() |
| Not died | Patient is not known to have died |  | ENCOUNTER.PATID not in DEATH table |
| 1. **Base Phenotype Clinical Criteria** | | | |

Important note: This specification is a “base phenotype.” Per protocol design, this document's criteria **are expected to be customized by each data partner[[1]](#footnote-1)**.

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| *Eligibility Criterion[[2]](#footnote-2)* | *EHR Logic / Notes* | *Defined* |
| **1. Known atherosclerotic cardiovascular disease (ASCVD), defined by:** | |  |
| 1.A. A history of prior myocardial infarction | Basis: CDM DIAGNOSIS table or source data equivalent  Logic: AHRQ-CCS Diagnosis Category 100, Acute Myocardial Infarction, applied within the look-back period  Notes:   * Added ICD-9-CM diagnosis code '412' / ICD-10-CM diagnosis code 'I252' for old myocardial infarction * ICD-10-CM diagnosis codes are based 2016 General Equivalence Mappings (GEMs) provided by CMS for the ICD-9-CM diagnosis codes listed at right (true for all following as well). Available at: <https://www.cms.gov/Medicare/Coding/ICD10/2016-ICD-10-CM-and-GEMs.html> and <https://www.cms.gov/Medicare/Coding/ICD10/2016-ICD-10-PCS-and-GEMs.html> | Define eligPriorMI:  DIAGNOSIS.ADMIT\_DATE between HISTORY\_START\_DT and HISTORY\_END\_DT -and-  DIAGNOSIS.DX\_TYPE = '09' and DIAGNOSIS.DX in (  '41000', '41001', '41002', '41010', '41011', '41012', '41020', '41021', '41022', '41030', '41031', '41032', '41040', '41041', '41042', '41050', '41051', '41052', '41060', '41061', '41062', '41070', '41071', '41072', '41080', '41081', '41082', '41090', '41091', '41092', '412'  )  -or-  DIAGNOSIS.DX\_TYPE = '10' and DIAGNOSIS.DX in (  'I2101', 'I2102', 'I2109', 'I2111', 'I2119', 'I2121', 'I2129', 'I213', 'I214', 'I220', 'I221', 'I222', 'I228', 'I229', 'I252'  ) |
| OR 1.B. Prior coronary angiography showing =75% stenosis of at least one epicardial coronary vessel | *No CDM basis?* |  |
| OR 1.C. Prior coronary revascularization procedures: PCI | Basis: CDM PROCEDURES & DIAGNOSIS tables or source data equivalent  Logic: AHRQ-CCS Procedure Category 45, Percutaneous transluminal coronary angioplasty (PTCA), applied within the look-back period  Notes:   * Coronary stent codes added * Old codes added to reflect coding prior to 2013 (e.g. 92980, 92981) | Define eligPriorPCIPx:  PROCEDURES.PX\_DATE between HISTORY\_START\_DT and HISTORY\_END\_DT -and-  PROCEDURES.PX\_TYPE = '09' and PROCEDURES.PX in (  '0066', '1755', '3601', '3602', '3605', '3606', '3607', '3609'  )  -or-  PROCEDURES.PX\_TYPE = '10' and PROCEDURES.PX in (  '0270046', '027004Z', '02700D6', '02700DZ', '02700T6', '02700TZ', '02700Z6', '02700ZZ', '0270346', '027034Z', '02703D6', '02703DZ', '02703T6', '02703TZ', '02703Z6', '02703ZZ', '0270446', '027044Z', '02704D6', '02704DZ', '02704T6', '02704TZ', '02704Z6', '02704ZZ', '0271046', '027104Z', '02710D6', '02710DZ', '02710T6', '02710TZ', '02710Z6', '02710ZZ', '0271346', '027134Z', '02713D6', '02713DZ', '02713T6', '02713TZ', '02713Z6', '02713ZZ', '0271446', '027144Z', '02714D6', '02714DZ', '02714T6', '02714TZ', '02714Z6', '02714ZZ', '0272046', '027204Z', '02720D6', '02720DZ', '02720T6', '02720TZ', '02720Z6', '02720ZZ', '0272346', '027234Z', '02723D6', '02723DZ', '02723T6', '02723TZ', '02723Z6', '02723ZZ', '0272446', '027244Z', '02724D6', '02724DZ', '02724T6', '02724TZ', '02724Z6', '02724ZZ', '0273046', '027304Z', '02730D6', '02730DZ', '02730T6', '02730TZ', '02730Z6', '02730ZZ', '0273346', '027334Z', '02733D6', '02733DZ', '02733T6', '02733TZ', '02733Z6', '02733ZZ', '0273446', '027344Z', '02734D6', '02734DZ', '02734T6', '02734TZ', '02734Z6', '02734ZZ', '02C03ZZ', '02C04ZZ', '02C13ZZ', '02C14ZZ', '02C23ZZ', '02C24ZZ', '02C33ZZ', '02C34ZZ', 'X2C0361', 'X2C1361'  )  -or-  PROCEDURES.PX\_TYPE in ('C4', 'HC') and PROCEDURES.PX in (  '92920', '92921', '92924', '92925', '92928', '92929', '92933', '92934', '92937', '92938', '92941', '92943', '92944', '92980', '92981', '92982', '92984', '92995', '92996', 'C9600', 'C9601', 'C9602', 'C9603', 'C9604', 'C9605', 'C9606', 'C9607', 'C9608', 'G0290', 'G0291'  )  Define eligPriorPCIDx:  DIAGNOSIS.ADMIT\_DATE between HISTORY\_START\_DT and HISTORY\_END\_DT -and-  DIAGNOSIS.DX\_TYPE = '09' and DIAGNOSIS.DX = 'V4582'  -or-  DIAGNOSIS.DX\_TYPE = '10' and DIAGNOSIS.DX in ('Z955', 'Z9861') |
| OR 1.D. Prior coronary revascularization procedures: CABG | Basis: CDM PROCEDURES & DIAGNOSIS tables or source data equivalent  Logic: AHRQ-CCS Procedure Category 44, Coronary artery bypass graft (CABG), applied within the look-back period | Define eligPriorCABGPx:  PROCEDURES.PX\_DATE between HISTORY\_START\_DT and HISTORY\_END\_DT -and-  PROCEDURES.PX\_TYPE = '09' and PROCEDURES.PX in (  '3610', '3611', '3612', '3613', '3614', '3615', '3616', '3617', '3619'  )  -or-  PROCEDURES.PX\_TYPE = '10' and PROCEDURES.PX in (  '0210093', '0210098', '0210099', '021009C', '021009F', '021009W', '02100A3', '02100A8', '02100A9', '02100AC', '02100AF', '02100AW', '02100J3', '02100J8', '02100J9', '02100JC', '02100JF', '02100JW', '02100K3', '02100K8', '02100K9', '02100KC', '02100KF', '02100KW', '02100Z3', '02100Z8', '02100Z9', '02100ZC', '02100ZF', '0210344', '02103D4', '0210444', '0210493', '0210498', '0210499', '021049C', '021049F', '021049W', '02104A3', '02104A8', '02104A9', '02104AC', '02104AF', '02104AW', '02104D4', '02104J3', '02104J8', '02104J9', '02104JC', '02104JF', '02104JW', '02104K3', '02104K8', '02104K9', '02104KC', '02104KF', '02104KW', '02104Z3', '02104Z8', '02104Z9', '02104ZC', '02104ZF', '0211093', '0211098', '0211099', '021109C', '021109F', '021109W', '02110A3', '02110A8', '02110A9', '02110AC', '02110AF', '02110AW', '02110J3', '02110J8', '02110J9', '02110JC', '02110JF', '02110JW', '02110K3', '02110K8', '02110K9', '02110KC', '02110KF', '02110KW', '02110Z3', '02110Z8', '02110Z9', '02110ZC', '02110ZF', '0211344', '02113D4', '0211444', '0211493', '0211498', '0211499', '021149C', '021149F', '021149W', '02114A3', '02114A8', '02114A9', '02114AC', '02114AF', '02114AW', '02114D4', '02114J3', '02114J8', '02114J9', '02114JC', '02114JF', '02114JW', '02114K3', '02114K8', '02114K9', '02114KC', '02114KF', '02114KW', '02114Z3', '02114Z8', '02114Z9', '02114ZC', '02114ZF', '0212093', '0212098', '0212099', '021209C', '021209F', '021209W', '02120A3', '02120A8', '02120A9', '02120AC', '02120AF', '02120AW', '02120J3', '02120J8', '02120J9', '02120JC', '02120JF', '02120JW', '02120K3', '02120K8', '02120K9', '02120KC', '02120KF', '02120KW', '02120Z3', '02120Z8', '02120Z9', '02120ZC', '02120ZF', '0212344', '02123D4', '0212444', '0212493', '0212498', '0212499', '021249C', '021249F', '021249W', '02124A3', '02124A8', '02124A9', '02124AC', '02124AF', '02124AW', '02124D4', '02124J3', '02124J8', '02124J9', '02124JC', '02124JF', '02124JW', '02124K3', '02124K8', '02124K9', '02124KC', '02124KF', '02124KW', '02124Z3', '02124Z8', '02124Z9', '02124ZC', '02124ZF', '0213093', '0213098', '0213099', '021309C', '021309F', '021309W', '02130A3', '02130A8', '02130A9', '02130AC', '02130AF', '02130AW', '02130J3', '02130J8', '02130J9', '02130JC', '02130JF', '02130JW', '02130K3', '02130K8', '02130K9', '02130KC', '02130KF', '02130KW', '02130Z3', '02130Z8', '02130Z9', '02130ZC', '02130ZF', '0213344', '02133D4', '0213444', '0213493', '0213498', '0213499', '021349C', '021349F', '021349W', '02134A3', '02134A8', '02134A9', '02134AC', '02134AF', '02134AW', '02134D4', '02134J3', '02134J8', '02134J9', '02134JC', '02134JF', '02134JW', '02134K3', '02134K8', '02134K9', '02134KC', '02134KF', '02134KW', '02134Z3', '02134Z8', '02134Z9', '02134ZC', '02134ZF'  )  -or-  PROCEDURES.PX\_TYPE = 'C4' and PROCEDURES.PX in (  '33510', '33511', '33512', '33513', '33514', '33516', '33517', '33518', '33519', '33521', '33522', '33523', '33533', '33534', '33535', '33536'  )  Define eligPriorCABGDx:  DIAGNOSIS.ADMIT\_DATE between HISTORY\_START\_DT and HISTORY\_END\_DT -and-  DIAGNOSIS.DX\_TYPE = '09' and DIAGNOSIS.DX = 'V4581'  -or-  DIAGNOSIS.DX\_TYPE = '10' and DIAGNOSIS.DX = 'Z951' |
| OR 1.E. History of chronic ischemic heart disease, coronary artery disease, or atherosclerotic cardiovascular disease | Basis: CDM DIAGNOSIS table or source data equivalent  Logic: Based largely on AHRQ-CCS Diagnosis Category 101, Coronary Atherosclerosis and Other Heart Disease, applied within the look-back period  Notes:   * Does not include the ICD-9-CM diagnosis code 429.2 ("Cardiovascular disease, unspecified"), which is often incorporated into other definitions of ASCVD. * Codes that already appear in criteria 1A–1D are not repeated here | Define eligHxCAD:  DIAGNOSIS.ADMIT\_DATE between HISTORY\_START\_DT and HISTORY\_END\_DT -and-  DIAGNOSIS.DX\_TYPE = '09' and DIAGNOSIS.DX in (  '4110', '4111', '41181', '41189', '4130', '4139', '41400', '41401', '41402', '41403', '41404', '41405', '41406', '41407', '4142', '4143', '4144', '4148', '4149'  )  -or-  DIAGNOSIS.DX\_TYPE = '10' and DIAGNOSIS.DX in (  'I200', 'I208', 'I209', 'I240', 'I241', 'I248', 'I249', 'I2510', 'I25110', 'I25111', 'I25118', 'I25119', 'I255', 'I256', 'I25700', 'I25701', 'I25708', 'I25709', 'I25710', 'I25711', 'I25718', 'I25719', 'I25720', 'I25721', 'I25728', 'I25729', 'I25730', 'I25731', 'I25738', 'I25739', 'I25750', 'I25751', 'I25758', 'I25759', 'I25760', 'I25761', 'I25768', 'I25769', 'I25790', 'I25791', 'I25798', 'I25799', 'I25810', 'I25811', 'I25812', 'I2582', 'I2583', 'I2584', 'I2589', 'I259'  ) |

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| **2. Age ≥ 18 years** | Based on age in years as of the age as-of date | Define eligAge18:  AGE >= 18 |

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| **3. No known safety concerns or side effects considered to be related to aspirin, including:** | |  |
| 3.A. No history of significant allergy to aspirin such as anaphylaxis, urticaria, or significant gastrointestinal intolerances | *No CDM basis?* |  |
| AND 3.B. No history of significant GI bleed within the past 12 months | Basis: CDM DIAGNOSIS table or source data equivalent  Logic: AHRQ-CCS Diagnosis Category 153, Gastrointestinal hemorrhage, applied within a limited 12-month look-back period | Define safetyGIBleed:  DIAGNOSIS.ADMIT\_DATE between PRIORYR\_DT and HISTORY\_END\_DT -and-  DIAGNOSIS.DX\_TYPE = '09' and DIAGNOSIS.DX in (  '53100', '53101', '53120', '53121', '53140', '53141', '53160', '53161', '53200', '53201', '53220', '53221', '53240', '53241', '53260', '53261', '53300', '53301', '53320', '53321', '53340', '53341', '53360', '53361', '53400', '53401', '53420', '53421', '53440', '53441', '53460', '53461', '5781', '5307', '4560', '45620', '53082', '5693', '5780', '5789'  )  -or-  DIAGNOSIS.DX\_TYPE = '10' and DIAGNOSIS.DX in (  'I8501', 'I8511', 'K226', 'K228', 'K250', 'K252', 'K254', 'K256', 'K260', 'K262', 'K264', 'K266', 'K270', 'K272', 'K274', 'K276', 'K280', 'K282', 'K284', 'K286', 'K625', 'K920', 'K921', 'K922'  ) |
| AND 3.C. [No] Significant bleeding disorders that preclude the use of aspirin | Basis: CDM DIAGNOSIS table or source data equivalent  Logic: Coagulation defects ICD-9-CM 286.x (and ICD-10-CM GEMs), including von Willebrand disease, hemophilia, and other clotting factor deficiencies | Define safetyDisorder:  DIAGNOSIS.ADMIT\_DATE between HISTORY\_START\_DT and HISTORY\_END\_DT -and-  DIAGNOSIS.DX\_TYPE = '09' and DIAGNOSIS.DX in (  '2860', '2861', '2862', '2863', '2864', '28652', '28653', '28659', '2866', '2867', '2869'  )  -or-  DIAGNOSIS.DX\_TYPE = '10' and DIAGNOSIS.DX in (  'D65', 'D66', 'D67', 'D680', 'D681', 'D682', 'D68311', 'D68312', 'D68318', 'D6832', 'D684', 'D688', 'D689'  ) |

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| **4. Access to the Internet.[[3]](#footnote-3)** | *No CDM basis?* |  |

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| **5. No oral anticoagulant use** | |  |
| 5.A. Not currently treated with an oral anticoagulant: warfarin | Basis: CDM DISPENSING & PRESCRIBING tables or source data equivalent  Logic: Any of the following within the “current” medication window   * Ingredient-level RxCUI: 11289 (WARFARIN) and RxCUIs for associated clinical drug components, clinical drugs or packs, clinical drug forms, brand names, branded drug components, branded drugs or packs, and branded drug forms [determined for all medications using RxNav @ <https://rxnav.nlm.nih.gov/>] * Applicable NDC code [determined for all medications using the FDA's National Drug Code Directory @ <http://www.accessdata.fda.gov/scripts/cder/ndc/>. Note that NDC codes from this site were converted to NDC-11 format. Because this data source does not include some older NDC codes, these lists may be incomplete.] | Define medWarfarin:  DISPENSING.DISPENSE\_DATE between RX\_START\_DT and RX\_END\_DT -and-  DISPENSING.NDC in (  '00056016801', '00056016870', '00056016875', '00056016901', '00056016910', '00056016970', '00056016975', '00056016990', '00056017001', '00056017011', '00056017070', '00056017075', '00056017090', '00056017201', '00056017210', '00056017270', '00056017275', '00056017290', '00056017301', '00056017370', '00056017375', '00056017401', '00056017470', '00056017475', '00056017601', '00056017610', '00056017670', '00056017675', '00056017690', '00056018801', '00056018810', '00056018870', '00056018875', '00056018901', '00056018970', '00056018975', '00056018990', '00093171201', '00093171210', '00093171301', '00093171310', '00093171401', '00093171410', '00093171501', '00093171601', '00093171610', '00093171801', '00093171901', '00093172001', '00093172101', '00093172110', '00555083102', 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| AND 5.B. Not currently treated with an oral anticoagulant: dabigatran | Basis: CDM DISPENSING & PRESCRIBING tables or source data equivalent  Logic: Any of the following within the “current” medication window   * Ingredient-level RxCUI: 1037042 (DABIGATRAN ETEXILATE) and RxCUIs for associated clinical drug components, clinical drugs or packs, clinical drug forms, brand names, branded drug components, branded drugs or packs, and branded drug forms. * Applicable NDC code | Define medDabigatran:  DISPENSING.DISPENSE\_DATE between RX\_START\_DT and RX\_END\_DT -and-  DISPENSING.NDC in (  '00597010860', '00597013512', '00597013554', '00597013560', '00597014912', '00597014954', '00597014960', '21695089960'  )  -or-  PRESCRIBING.RX\_ORDER\_DATE between RX\_START\_DT and RX\_END\_DT -and-  PRESCRIBING.RXNORM\_CUI in (  '1037041', '1037042', '1037043', '1037044', '1037045', '1037046', '1037047', '1037048', '1037049', '1037178', '1037179', '1037180', '1037181', '1156646', '1156647', '1184616', '1184617'  ) |
| AND 5.C. Not currently treated with an oral anticoagulant: rivaroxaban | Basis: CDM DISPENSING & PRESCRIBING tables or source data equivalent  Logic: Any of the following within the “current” medication window   * Ingredient-level RxCUI: 1114195 (RIVAROXABAN) and RxCUIs for associated clinical drug components, clinical drugs or packs, clinical drug forms, brand names, branded drug components, branded drugs or packs, and branded drug forms. * Applicable NDC code | Define medRivaroxaban:  DISPENSING.DISPENSE\_DATE between RX\_START\_DT and RX\_END\_DT -and-  DISPENSING.NDC in (  '50458057810', '50458057814', '50458057830', '50458057890', '50458057910', '50458057930', '50458057990', '50458057999', '50458058010', '50458058030', '55154142200', '55154142308', '55154142400'  )  -or-  PRESCRIBING.RX\_ORDER\_DATE between RX\_START\_DT and RX\_END\_DT -and-  PRESCRIBING.RXNORM\_CUI in (  '1114195', '1114196', '1114197', '1114198', '1114199', '1114200', '1114201', '1114202', '1157968', '1157969', '1186304', '1186305', '1232081', '1232082', '1232083', '1232084', '1232085', '1232086', '1232087', '1232088', '1549682', '1549683'  ) |
| AND 5.D. Not currently treated with an oral anticoagulant: apixaban | Basis: CDM DISPENSING & PRESCRIBING tables or source data equivalent  Logic: Any of the following within the “current” medication window   * Ingredient-level RxCUI: 1364430 (APIXABAN) and RxCUIs for associated clinical drug components, clinical drugs or packs, clinical drug forms, brand names, branded drug components, branded drugs or packs, and branded drug forms. * Applicable NDC code | Define medApixaban:  DISPENSING.DISPENSE\_DATE between RX\_START\_DT and RX\_END\_DT -and-  DISPENSING.NDC in (  '00003089321', '00003089331', '00003089341', '00003089421', '00003089431', '00003089441', '00003089491', '55154061200'  )  -or-  PRESCRIBING.RX\_ORDER\_DATE between RX\_START\_DT and RX\_END\_DT -and-  PRESCRIBING.RXNORM\_CUI in (  '1364430', '1364431', '1364432', '1364433', '1364434', '1364435', '1364436', '1364437', '1364438', '1364439', '1364440', '1364441', '1364444', '1364445', '1364446', '1364447'  ) |
| AND 5.E. Not currently treated with an oral anticoagulant: edoxaban | Basis: CDM DISPENSING & PRESCRIBING tables or source data equivalent  Logic: Any of the following within the “current” medication window   * Ingredient-level RxCUI: 1599538 (EDOXABAN) and RxCUIs for associated clinical drug components, clinical drugs or packs, clinical drug forms, brand names, branded drug components, branded drugs or packs, and branded drug forms. * Applicable NDC code | Define medEdoxaban:  DISPENSING.DISPENSE\_DATE between RX\_START\_DT and RX\_END\_DT -and-  DISPENSING.NDC in (  '65597020107', '65597020110', '65597020130', '65597020150', '65597020170', '65597020190', '65597020205', '65597020207', '65597020210', '65597020230', '65597020250', '65597020270', '65597020290', '65597020305', '65597020307', '65597020310', '65597020330', '65597020350', '65597020370', '65597020390'  )  -or-  PRESCRIBING.RX\_ORDER\_DATE between RX\_START\_DT and RX\_END\_DT -and-  PRESCRIBING.RXNORM\_CUI in (  '1599538', '1599539', '1599540', '1599541', '1599542', '1599543', '1599544', '1599545', '1599546', '1599547', '1599548', '1599549', '1599550', '1599551', '1599552', '1599553', '1599554', '1599555', '1599556', '1599557', '1599564'  ) |
| *5.F. Not planned to be treated in the future with an oral anticoagulant for existing indications such as atrial fibrillation, deep venous thrombosis, or pulmonary embolism.* | *No CDM basis?* |  |

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| **6. No ticagrelor use** | |  |
| 6.A. Not currently treated with ticagrelor | Basis: CDM DISPENSING & PRESCRIBING tables or source data equivalent  Logic: Any of the following within the “current” medication window   * Ingredient-level RxCUI: 1116632 (TICAGRELOR) and RxCUIs for associated clinical drug components, clinical drugs or packs, clinical drug forms, brand names, branded drug components, branded drugs or packs, and branded drug forms. * Applicable NDC code | Define medTicagrelor:  DISPENSING.DISPENSE\_DATE between RX\_START\_DT and RX\_END\_DT -and-  DISPENSING.NDC in (  '00186077660', '00186077694', '00186077708', '00186077718', '00186077728', '00186077739', '00186077760', '63629529201', '55154961800'  )  -or-  PRESCRIBING.RX\_ORDER\_DATE between RX\_START\_DT and RX\_END\_DT -and-  PRESCRIBING.RXNORM\_CUI in (  '1116632', '1116633', '1116634', '1116635', '1116636', '1116637', '1116638', '1116639', '1157089', '1157090', '1176340', '1176341', '1666331', '1666332', '1666333'  ) |
| *AND 6.B. Not planned to be treated in the future with ticagrelor.* | *No CDM basis?* |  |

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| **7. For female patients, not pregnant or nursing** | |  |
| 7.A. Female patients who are not pregnant | *No CDM basis? Rely on self-report?* |  |
| AND 7.B. Female patients who are not nursing an infant | *No CDM basis? Rely on self-report?* |  |

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| **8. Estimated risk of a major cardiovascular event (MACE) > 8% over next 3 years as defined by the presence of at least one or more of the following enrichment factors:** | |  |
| 8.A. Age ≥ 65 years | Based on age in years as of the age as-of date | Define enrichAge65:  AGE ≥ 65 |
| OR 8.B. Serum creatinine ≥ 1.5 mg/dL | Basis: CDM LAB\_RESULT\_CM table or source data equivalent  Notes:   * Ensure that RESULT\_UNIT is specified in the query as it appears in your data | Define enrichCreat:  LAB\_RESULT\_CM.RESULT\_DATE between LAB\_START\_DT and LAB\_END\_DT -and-  LAB\_RESULT\_CM.LAB\_NAME = 'CREATININE' -and-  LAB\_RESULT\_CM.RESULT\_UNIT = 'MG/DL' -and-  LAB\_RESULT\_CM.RESULT\_NUM ≥ 1.5  -or-  LAB\_RESULT\_CM.RESULT\_UNIT in ('IU', 'UMOL/L') -and-  LAB\_RESULT\_CM.RESULT\_NUM ≥ 132.6 |
| OR 8.C. Diabetes mellitus (Type 1 or Type 2) | Basis: CDM DIAGNOSIS table or source data equivalent  Logic: AHRQ-CCS Diagnosis Category 49, Diabetes mellitus without complication **OR** AHRQ-CCS Diagnosis Category 50, Diabetes mellitus with complications applied within the look-back period  Notes:   * Limited to ICD-9-CM 250.x codes (and equivalent mappings to ICD-10-CM) for Type 1 and Type 2 diabetes | Define enrichDiab:  DIAGNOSIS.ADMIT\_DATE between HISTORY\_START\_DT and HISTORY\_END\_DT -and-  DIAGNOSIS.DX\_TYPE = '09' and DIAGNOSIS.DX in (  '25000', '25001', '25002', '25003', '25010', '25011', '25012', '25013', '25020', '25021', '25022', '25023', '25030', '25031', '25032', '25033', '25040', '25041', '25042', '25043', '25050', '25051', '25052', '25053', '25060', '25061', '25062', '25063', '25070', '25071', '25072', '25073', '25080', '25081', '25082', '25083', '25090', '25091', '25092', '25093'  )  -or-  DIAGNOSIS.DX\_TYPE = '10' and DIAGNOSIS.DX in (  'E1010', 'E1011', 'E1021', 'E1022', 'E1029', 'E10311', 'E10319', 'E10321', 'E10329', 'E10331', 'E10339', 'E10341', 'E10349', 'E10351', 'E10359', 'E1036', 'E1039', 'E1040', 'E1041', 'E1042', 'E1043', 'E1044', 'E1049', 'E1051', 'E1052', 'E1059', 'E10610', 'E10618', 'E10620', 'E10621', 'E10622', 'E10628', 'E10630', 'E10638', 'E10641', 'E10649', 'E1065', 'E1069', 'E108', 'E109', 'E1100', 'E1101', 'E1121', 'E1122', 'E1129', 'E11311', 'E11319', 'E11321', 'E11329', 'E11331', 'E11339', 'E11341', 'E11349', 'E11351', 'E11359', 'E1136', 'E1139', 'E1140', 'E1141', 'E1142', 'E1143', 'E1144', 'E1149', 'E1151', 'E1152', 'E1159', 'E11610', 'E11618', 'E11620', 'E11621', 'E11622', 'E11628', 'E11630', 'E11638', 'E11641', 'E11649', 'E1165', 'E1169', 'E118', 'E119'  ) |
| OR 8.D. 3-vessel coronary artery disease | *No CDM basis?* |  |
| OR 8.E. Cerebrovascular disease | Basis: CDM DIAGNOSIS table or source data equivalent  Logic: AHRQ-CCS Diagnosis Category 109, Acute cerebrovascular disease **OR** AHRQ-CCS Diagnosis Category 110, Occlusion or stenosis of precerebral arteries **OR** AHRQ-CCS Diagnosis Category 111, Other and ill-defined cerebrovascular disease **OR** AHRQ-CCS Diagnosis Category 112, Transient cerebral ischemia **OR** AHRQ-CCS Diagnosis Category 113, Late effects of cerebrovascular disease  Notes:   * Less migraine codes | Define enrichCVD:  DIAGNOSIS.ADMIT\_DATE between HISTORY\_START\_DT and HISTORY\_END\_DT -and-  DIAGNOSIS.DX\_TYPE = '09' and DIAGNOSIS.DX in (  '430', '431', '4320', '4321', '4329', '43300', '43301', '43310', '43311', '43320', '43321', '43330', '43331', '43380', '43381', '43390', '43391', '43400', '43401', '43410', '43411', '43490', '43491', '4350', '4351', '4352', '4353', '4358', '4359', '436', '4370', '4371', '4373', '4374', '4375', '4376', '4377', '4378', '4379', '4380', '43810', '43811', '43812', '43813', '43814', '43819', '43820', '43821', '43822', '43830', '43831', '43832', '43840', '43841', '43842', '43850', '43851', '43852', '43853', '4386', '4387', '43881', '43882', '43883', '43884', '43885', '43889', '4389'  )  -or-  DIAGNOSIS.DX\_TYPE = '10' and DIAGNOSIS.DX in (  'G450', 'G451', 'G452', 'G454', 'G458', 'G459', 'G460', 'G461', 'G462', 'G463', 'G464', 'G465', 'G466', 'G467', 'G468', 'I6000', 'I6001', 'I6002', 'I6010', 'I6011', 'I6012', 'I6020', 'I6021', 'I6022', 'I6030', 'I6031', 'I6032', 'I604', 'I6050', 'I6051', 'I6052', 'I606', 'I607', 'I608', 'I609', 'I610', 'I611', 'I612', 'I613', 'I614', 'I615', 'I616', 'I618', 'I619', 'I6200', 'I6201', 'I6202', 'I6203', 'I621', 'I629', 'I6300', 'I63011', 'I63012', 'I63019', 'I6302', 'I63031', 'I63032', 'I63039', 'I6309', 'I6310', 'I63111', 'I63112', 'I63119', 'I6312', 'I63131', 'I63132', 'I63139', 'I6319', 'I6320', 'I63211', 'I63212', 'I63219', 'I6322', 'I63231', 'I63232', 'I63239', 'I6329', 'I6330', 'I63311', 'I63312', 'I63319', 'I63321', 'I63322', 'I63329', 'I63331', 'I63332', 'I63339', 'I63341', 'I63342', 'I63349', 'I6339', 'I6340', 'I63411', 'I63412', 'I63419', 'I63421', 'I63422', 'I63429', 'I63431', 'I63432', 'I63439', 'I63441', 'I63442', 'I63449', 'I6349', 'I6350', 'I63511', 'I63512', 'I63519', 'I63521', 'I63522', 'I63529', 'I63531', 'I63532', 'I63539', 'I63541', 'I63542', 'I63549', 'I6359', 'I636', 'I638', 'I639', 'I6501', 'I6502', 'I6503', 'I6509', 'I651', 'I6521', 'I6522', 'I6523', 'I6529', 'I658', 'I659', 'I6601', 'I6602', 'I6603', 'I6609', 'I6611', 'I6612', 'I6613', 'I6619', 'I6621', 'I6622', 'I6623', 'I6629', 'I663', 'I668', 'I669', 'I671', 'I672', 'I675', 'I676', 'I677', 'I6781', 'I6782', 'I67841', 'I67848', 'I6789', 'I679', 'I680', 'I682', 'I688', 'I6900', 'I6901', 'I69020', 'I69021', 'I69022', 'I69023', 'I69028', 'I69031', 'I69032', 'I69033', 'I69034', 'I69039', 'I69041', 'I69042', 'I69043', 'I69044', 'I69049', 'I69051', 'I69052', 'I69053', 'I69054', 'I69059', 'I69061', 'I69062', 'I69063', 'I69064', 'I69065', 'I69069', 'I69090', 'I69091', 'I69092', 'I69093', 'I69098', 'I6910', 'I6911', 'I69120', 'I69121', 'I69122', 'I69123', 'I69128', 'I69131', 'I69132', 'I69133', 'I69134', 'I69139', 'I69141', 'I69142', 'I69143', 'I69144', 'I69149', 'I69151', 'I69152', 'I69153', 'I69154', 'I69159', 'I69161', 'I69162', 'I69163', 'I69164', 'I69165', 'I69169', 'I69190', 'I69191', 'I69192', 'I69193', 'I69198', 'I6920', 'I6921', 'I69220', 'I69221', 'I69222', 'I69223', 'I69228', 'I69231', 'I69232', 'I69233', 'I69234', 'I69239', 'I69241', 'I69242', 'I69243', 'I69244', 'I69249', 'I69251', 'I69252', 'I69253', 'I69254', 'I69259', 'I69261', 'I69262', 'I69263', 'I69264', 'I69265', 'I69269', 'I69290', 'I69291', 'I69292', 'I69293', 'I69298', 'I6930', 'I6931', 'I69320', 'I69321', 'I69322', 'I69323', 'I69328', 'I69331', 'I69332', 'I69333', 'I69334', 'I69339', 'I69341', 'I69342', 'I69343', 'I69344', 'I69349', 'I69351', 'I69352', 'I69353', 'I69354', 'I69359', 'I69361', 'I69362', 'I69363', 'I69364', 'I69365', 'I69369', 'I69390', 'I69391', 'I69392', 'I69393', 'I69398', 'I6980', 'I6981', 'I69820', 'I69821', 'I69822', 'I69823', 'I69828', 'I69831', 'I69832', 'I69833', 'I69834', 'I69839', 'I69841', 'I69842', 'I69843', 'I69844', 'I69849', 'I69851', 'I69852', 'I69853', 'I69854', 'I69859', 'I69861', 'I69862', 'I69863', 'I69864', 'I69865', 'I69869', 'I69890', 'I69891', 'I69892', 'I69893', 'I69898', 'I6990', 'I6991', 'I69920', 'I69921', 'I69922', 'I69923', 'I69928', 'I69931', 'I69932', 'I69933', 'I69934', 'I69939', 'I69941', 'I69942', 'I69943', 'I69944', 'I69949', 'I69951', 'I69952', 'I69953', 'I69954', 'I69959', 'I69961', 'I69962', 'I69963', 'I69964', 'I69965', 'I69969', 'I69990', 'I69991', 'I69992', 'I69993', 'I69998'  ) |
| OR 8.F. Peripheral arterial disease | Basis: CDM DIAGNOSIS table or source data equivalent  Logic: Peripheral arterial disease and related codes  Notes:   * Imperfect b/c coding for this concept is imprecise | Define enrichPAD:  DIAGNOSIS.ADMIT\_DATE between HISTORY\_START\_DT and HISTORY\_END\_DT -and-  DIAGNOSIS.DX\_TYPE = '09' and DIAGNOSIS.DX in (  '44020', '44021', '44022', '44023', '44024', '44029', '4439'  )  -or-  DIAGNOSIS.DX\_TYPE = '10' and DIAGNOSIS.DX in (  'I70201', 'I70202', 'I70203', 'I70208', 'I70209', 'I70211', 'I70212', 'I70213', 'I70218', 'I70219', 'I70221', 'I70222', 'I70223', 'I70228', 'I70229', 'I70231', 'I70232', 'I70233', 'I70234', 'I70235', 'I70238', 'I70239', 'I70241', 'I70242', 'I70243', 'I70244', 'I70245', 'I70248', 'I70249', 'I7025', 'I70261', 'I70262', 'I70263', 'I70268', 'I70269', 'I70291', 'I70292', 'I70293', 'I70298', 'I70299', 'I739'  ) |
| OR 8.G. Left ventricular ejection fraction (LVEF) < 50% | Basis: CDM DIAGNOSIS table or source data equivalent  Logic: Systolic Heart Failure codes (ICD-9-CM 428.2x and ICD-10-CM GEMs) | Define enrichLVSD:  DIAGNOSIS.ADMIT\_DATE between HISTORY\_START\_DT and HISTORY\_END\_DT -and-  DIAGNOSIS.DX\_TYPE = '09' and DIAGNOSIS.DX in (  '42820', '42821', '42822', '42823', '42840', '42841', '42842', '42843'  )  -or-  DIAGNOSIS.DX\_TYPE = '10' and DIAGNOSIS.DX in (  'I5020', 'I5021', 'I5022', 'I5023', 'I5040', 'I5041', 'I5042', 'I5043'  ) |
| OR 8.H. Current cigarette smoker | Basis: CDM VITAL table | Define enrichSmoker:  VITAL.SMOKING in ('01', '02') |
| OR 8.I. Systolic or diastolic heart failure | Basis: CDM DIAGNOSIS table or source data equivalent  Logic: Congestive heart failure and related codes | Define enrichCHF:  DIAGNOSIS.ADMIT\_DATE between HISTORY\_START\_DT and HISTORY\_END\_DT -and-  DIAGNOSIS.DX\_TYPE = '09' and DIAGNOSIS.DX in (  '39891', '40201', '40211', '40291', '40401', '40403', '40411', '40413', '40491', '40493', '4280', '4281', '42820', '42821', '42822', '42823', '42830', '42831', '42832', '42833', '42840', '42841', '42842', '42843', '4289'  )  -or-  DIAGNOSIS.DX\_TYPE = '10' and DIAGNOSIS.DX in (  'I0981', 'I110', 'I130', 'I132', 'I501', 'I5020', 'I5021', 'I5022', 'I5023', 'I5030', 'I5031', 'I5032', 'I5033', 'I5040', 'I5041', 'I5042', 'I5043', 'I509'  ) |
| OR 8.J. Systolic blood pressure ≥ 140, documented within the prior 12 months | Basis: VITAL table or source data equivalent | Define enrichSBP:  VITAL.MEASURE\_DATE between PRIORYR\_START\_DT and PRIORYR\_END\_DT -and-  VITAL.SYSTOLIC ≥ 140 |
| OR 8.K. LDL cholesterol ≥ 130 mg/dL, documented within the prior 12 months | Basis: CDM LAB\_RESULT\_CM table or source data equivalent  Notes:   * Ensure that RESULT\_UNIT is specified in the query as it appears in your data | Define enrichLDL:  LAB\_RESULT\_CM.RESULT\_DATE between PRIORYR\_START\_DT and PRIORYR\_END\_DT -and-  LAB\_RESULT\_CM.LAB\_NAME = 'LDL' -and-  LAB\_RESULT\_CM.RESULT\_UNIT = 'MG/DL' -and-  LAB\_RESULT\_CM.RESULT\_NUM ≥ 130 |

1. Study protocol section III.A.3.b. Cohort Identification, "patients who meet criteria for secondary prevention after a cardiovascular event will be identified using search algorithms developed by the DCRI Coordinating Center (based on the trial inclusion criteria) **and customized by the CDRN for their own EHR systems**"[emphasis added]. From: [www.pcornet.org/wp-content/uploads/2015/10/ADAPTABLE-Final-Protocol-Vers-1-Oct-22-2015.pdf](http://www.pcornet.org/wp-content/uploads/2015/10/ADAPTABLE-Final-Protocol-Vers-1-Oct-22-2015.pdf), retrieved 2015-10-29, page 21/PDF page 25. [↑](#footnote-ref-1)
2. Some protocol eligibility criteria have been reworded to improve programmatic clarity. [↑](#footnote-ref-2)
3. The protocol goes on to describe, “In the event that the CDRNs are notified that a cohort of patients without internet access can be included, then patient agreement will be obtained during the consent process to provide follow-up information by telephone contact with the DCRI Call Center.” [↑](#footnote-ref-3)