

ACO 33 - Coronary Artery Disease (CAD): Angiotensin-Converting Enzyme (ACE) Inhibitor or Angiotensin Receptor Blocker (ARB) Therapy - Diabetes or Left Ventricular Systolic Dysfunction (LVEF less than 40%)

Percentage of patients aged 18 years and older with a diagnosis of coronary artery disease seen within a 12 month period who also have diabetes OR a current or prior Left Ventricular Ejection Fraction (LVEF) less than 40% who were prescribed ACE inhibitor or ARB therapy

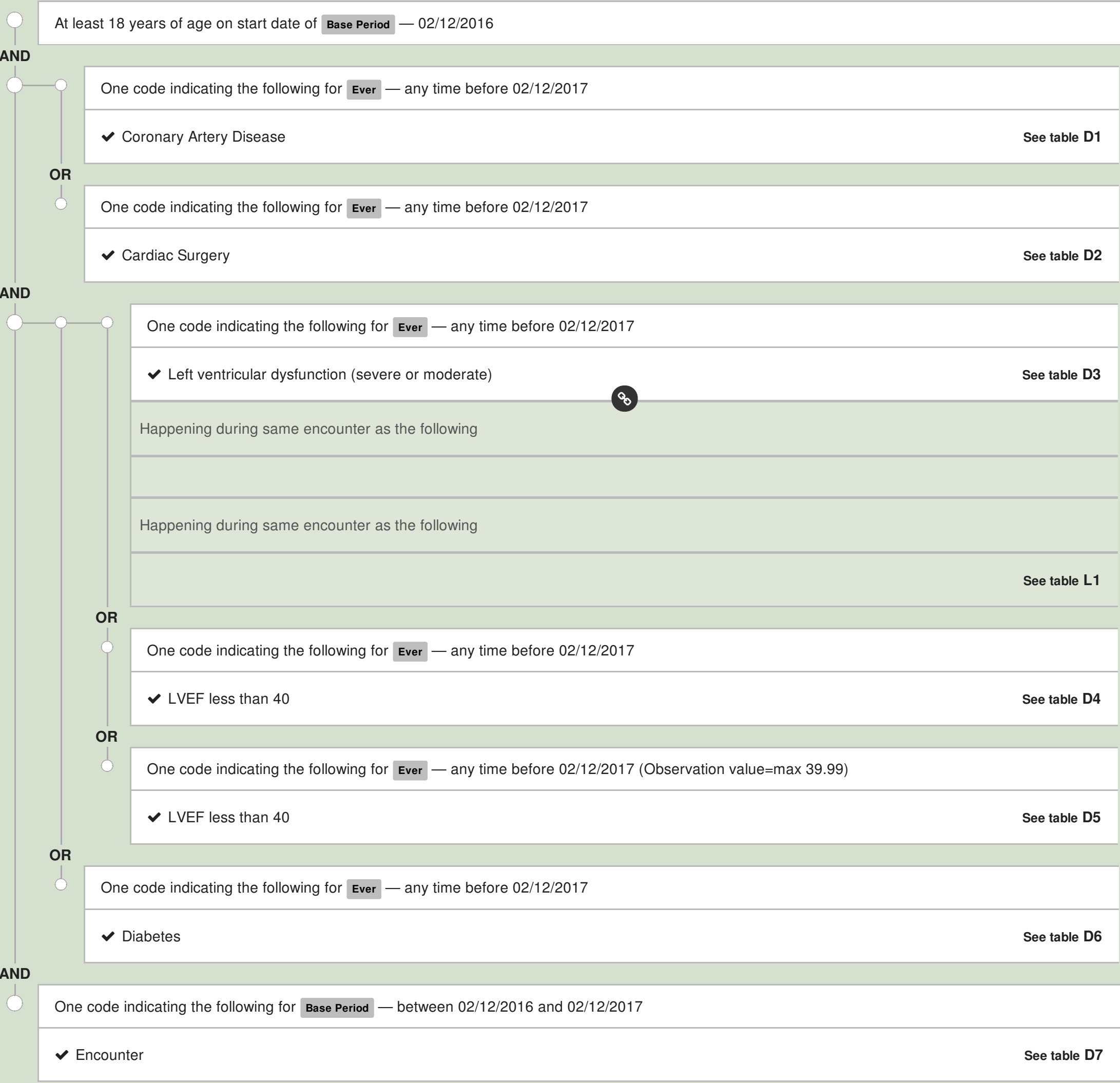
Improvement Notation	
Denominator	All patients aged 18 years and older with a diagnosis of coronary artery disease seen within a 12 month period who also have a current or prior LVEF less than 40% OR All patients aged 18 years and older with a diagnosis of coronary artery disease seen within a 12 month period who also have diabetes
Numerator	Patients who were prescribed ACE inhibitor or ARB therapy
Exclusions	Patients that expired or entered hospice during the reporting period.
Exceptions	Documentation of medical reason(s) for not prescribing ACE inhibitor or ARB therapy (eg, allergy, intolerance, other medical reasons). Documentation of patient reason(s) for not prescribing ACE inhibitor or ARB therapy (eg, patient declined, other patient reasons). Documentation of system reason(s) for not prescribing ACE inhibitor or ARB therapy (eg, lack of drug availability, other reasons attributable to the health care system)
Note	

Last updated 01/13/2017

Reference Periods Reference Date 02/12/2017

Base Period	02/12/2016 - 02/12/2017	12 months prior to the reference date
Ever	- 02/12/2017	Any time prior to the reference date

Denominator



Numerator



One code indicating the following for **Base Period** — between 02/12/2016 and 02/12/2017

✓ ACE/ARB Prescribed during the measurement period

See table N1

Exclusion



Exception



One code indicating the following for **Base Period** — between 02/12/2016 and 02/12/2017

✔ Exclusion Codes **See table XCE1**

One code indicating the following for **Base Period** — between 02/12/2016 and 02/12/2017

✔ Pregnancy **See table XCE2**

One code indicating the following for **Ever** — any time before 02/12/2017

✔ ACE or ARB allergy **See table XCE3**

One code indicating the following for **Base Period** — between 02/12/2016 and 02/12/2017

✔ Medical Reasons **See table XCE4**

One code indicating the following for **Base Period** — between 02/12/2016 and 02/12/2017

✔ Patient Reason **See table XCE5**

One code indicating the following for **Base Period** — between 02/12/2016 and 02/12/2017

✔ System Reason **See table XCE6**

Reference Tables

Linked Encounter Reference Tables

L1	Diagnosis
	SNOMED
	24484000, 6736007

Denominator Reference Tables

D1	✔ Coronary Artery Disease		
	Diagnosis		
	ICD-9	ICD-10	SNOMED
	410.00, 410.01, 410.02, 410.10, 410.11, 410.12, 410.20, 410.21, 410.22, 410.30, 410.31, 410.32, 410.40, 410.41, 410.42, 410.50, 410.51, 410.52, 410.60, 410.61, 410.62, 410.70, 410.71, 410.72, 410.80, 410.81, 410.82, 410.90, 410.91, 410.92, 411.0, 411.1, 411.81, 411.89, 412, 413.0, 413.1, 413.9, 414.00, 414.01, 414.02, 414.03, 414.04, 414.05, 414.06, 414.07, 414.2, 414.3, 414.8, 414.9, V45.81, V45.82	I20.0, I20.1, I20.8, I20.9, I21.01, I21.02, I21.09, I21.11, I21.19, I21.21, I21.29, I21.3, I21.4, I22.0, I22.1, I22.2, I22.8, I22.9, I24.0, I24.1, I24.8, I24.9, I25.10, I25.110, I25.111, I25.118, I25.119, I25.2, I25.5, I25.6, I25.700, I25.701, I25.708, I25.709, I25.710, I25.711, I25.718, I25.719, I25.720, I25.721, I25.728, I25.729, I25.730, I25.731, I25.738, I25.739, I25.750, I25.751, I25.758, I25.759, I25.760, I25.761, I25.768, I25.769, I25.790, I25.791, I25.798, I25.799, I25.810, I25.811, I25.812, I25.82, I25.83, I25.89, I25.9, Z95.1, Z95.5, Z98.61	10273003, 10365005, 123641001, 123642008, 129574000, 15990001, 161502000, 161503005, 1755008, 19057007, 194798004, 194802003, 194809007, 194823009, 194828000, 194842008, 194843003, 194856005, 21470009, 22298006, 233817007, 233819005, 233821000, 233835003, 233838001, 233839009, 233840006, 233841005, 233842003, 233843008, 233970002, 275905002, 28248000, 29899005, 300995000, 30277009, 304914007, 307140009, 308065005, 314116003, 314207007, 315025001, 315348000, 32574007, 35928006, 371068009, 371803003, 371804009, 371805005, 371806006, 371807002, 371808007, 371809004, 371810009, 371811008, 371812001, 394710008, 398274000, 399211009, 401303003, 401314000, 408546009, 41334000, 418044006, 420006002, 421327009, 42531007, 427919004, 428196007, 428752002, 429245005, 429559004, 4557003, 50570003, 52035003, 53741008, 54329005, 57054005, 58612006, 59021001, 61490001, 62207008, 62695002, 63739005, 65547006, 66189004, 67682002, 70211005, 70422006, 73795002, 74218008, 75398000, 79009004, 85284003, 87343002, 89323001, 92517006

D2	✔ Cardiac Surgery	
	Procedure	
	CPT	SNOMED
	33140, 33510, 33511, 33512, 33513, 33514, 33516, 33517, 33518, 33519, 33521, 33522, 33523, 33533, 33534, 33535, 33536, 92920, 92924, 92928, 92933, 92937, 92941, 92943, 92980, 92981, 92982, 92984, 92995, 92996	10326007, 119564002, 119565001, 15256002, 174911007, 175007008, 175008003, 175009006, 175011002, 175021005, 175022003, 175024002, 175025001, 175026000, 175036008, 175037004, 175038009, 175039001, 175040004, 175041000, 175045009, 175047001, 175048006, 175050003, 232717009, 232719007, 232720001, 232721002, 232722009, 232723004, 232724005, 265481001, 275215001, 275216000, 275227003, 275252001, 275253006, 287277008, 30670000, 309814006, 3546002, 359597003, 359601003, 39202005, 39724006, 414088005, 48431000, 74371005, 81266008, 82247006, 90205004

D3	✔ Left ventricular dysfunction (severe or moderate)	
	Diagnosis	
	SNOMED	
	134401001, 24484000	

D4	✔ LVEF less than 40	
	Diagnosis	
	SNOMED	
	981000124106, 991000124109	

D5	✔ LVEF less than 40	
	Observation	
	LOINC	
	10230-1, 18043-0, 18044-8, 18045-5, 18046-3, 18047-1, 18048-9, 18049-7, 8806-2, 8807-0, 8808-8, 8809-6, 8810-4, 8811-2, 8812-0	

D6	✔ Diabetes	
	Diagnosis	
	ICD-9	ICD-10
	SNOMED	

	250.00, 250.01, 250.02, 250.03, 250.10, 250.11, 250.12, 250.13, 250.20, 250.21, 250.22, 250.23, 250.30, 250.31, 250.32, 250.33, 250.40, 250.41, 250.42, 250.43, 250.50, 250.51, 250.52, 250.53, 250.60, 250.61, 250.62, 250.63, 250.70, 250.71, 250.72, 250.73, 250.80, 250.81, 250.82, 250.83, 250.90, 250.91, 250.92, 250.93, 357.2, 362.01, 362.02, 362.03, 362.04, 362.05, 362.06, 362.07, 366.41, 648.01, 648.02, 648.03, 648.04	E10.10, E10.11, E10.21, E10.22, E10.29, E10.311, E10.319, E10.321, E10.329, E10.331, E10.339, E10.341, E10.349, E10.351, E10.359, E10.36, E10.39, E10.40, E10.41, E10.42, E10.43, E10.44, E10.49, E10.51, E10.52, E10.59, E10.610, E10.618, E10.620, E10.621, E10.622, E10.628, E10.630, E10.638, E10.641, E10.649, E10.65, E10.69, E10.8, E10.9, E11.00, E11.01, E11.21, E11.22, E11.29, E11.311, E11.319, E11.321, E11.329, E11.331, E11.339, E11.341, E11.349, E11.351, E11.359, E11.36, E11.39, E11.40, E11.41, E11.42, E11.43, E11.44, E11.49, E11.51, E11.52, E11.59, E11.610, E11.618, E11.620, E11.621, E11.622, E11.628, E11.630, E11.638, E11.641, E11.649, E11.65, E11.69, E11.8, E11.9, E13.00, E13.01, E13.10, E13.11, E13.21, E13.22, E13.29, E13.311, E13.319, E13.321, E13.329, E13.331, E13.339, E13.341, E13.349, E13.351, E13.359, E13.36, E13.39, E13.40, E13.41, E13.42, E13.43, E13.44, E13.49, E13.51, E13.52, E13.59, E13.610, E13.618, E13.620, E13.621, E13.622, E13.628, E13.630, E13.638, E13.641, E13.649, E13.65, E13.69, E13.8, E13.9, O24.011, O24.012, O24.013, O24.019, O24.02, O24.03, O24.111, O24.112, O24.113, O24.119, O24.12, O24.13	190330002, 190331003, 190368000, 190369008, 190372001, 190389009, 190390000, 199223000, 199225007, 199226008, 199227004, 199228009, 199229001, 199230006, 23045005, 237599002, 237618001, 237627000, 28032008, 313435000, 313436004, 314771006, 314772004, 314893005, 314894004, 314902007, 314903002, 314904008, 359642000, 44054006, 46635009, 4783006, 4855003, 75682002, 76751001, 81531005, 9859006
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D7	✔ Encounter	
	Encounter	
	Custom Codes	
	Encounter: OFFICE_VISIT, Encounter: OUTPATIENT	
	Procedure	
	CPT	SNOMED
99201, 99202, 99203, 99204, 99205, 99212, 99213, 99214, 99215, 99241, 99242, 99243, 99244, 99245, 99304, 99305, 99306, 99307, 99308, 99309, 99310, 99324, 99325, 99326, 99327, 99328, 99334, 99335, 99336, 99337, 99341, 99342, 99343, 99344, 99345, 99347, 99348, 99349, 99350		
11797002, 12843005, 18170008, 185316007, 185317003, 185318008, 185320006, 185321005, 185349003, 185463005, 185465003, 19681004, 207195004, 270424005, 270427003, 270430005, 308335008, 308720009, 386473003, 390906007, 401267002, 401271004, 406547006, 438515009, 438516005, 439708006, 445450000, 448337001, 4525004, 87790002, 90526000		

Numerator Reference Tables

N1	✔ ACE/ARB Perscribed during the measurement period
	Drug
	RxNorm
	1000001, 1011718, 1011729, 1299859, 1299871, 1299890, 1299896, 1299897, 153822, 153823, 197436, 197437, 197438, 197439, 197884, 197885, 197886, 197887, 198188, 198189, 199351, 199352, 199353, 199622, 199816, 199817, 199850, 199919, 200094, 200095, 200096, 200284, 200285, 205304, 205305, 205326, 247516, 251856, 251857, 261962, 282755, 283316, 283317, 308962, 308963, 308964, 310139, 310140, 310792, 310793, 310796, 310797, 310809, 311353, 311354, 312748, 312749, 312750, 314076, 314077, 314203, 317173, 349199, 349200, 349201, 349353, 349373, 349401, 349405, 349483, 351292, 351293, 401965, 401968, 403853, 403854, 403855, 411434, 477130, 485471, 577776, 578325, 578330, 636042, 636045, 639537, 722126, 722131, 722134, 722137, 730861, 730866, 730869, 730872, 802749, 833237, 845488, 848131, 848135, 848140, 848145, 848151, 854925, 854984, 854988, 857166, 857169, 857174, 857183, 857187, 858618, 858621, 858804, 858810, 858813, 858817, 858824, 858828, 858921, 876514, 876519, 876524, 876529, 897781, 897783, 897844, 897853, 898342, 898346, 898350, 898353, 898356, 898359, 898362, 898367, 898372, 898378, 898687, 898690, 898719, 898723, 979464, 979468, 979471, 979480, 979485, 979492, 999967, 999986, 999991, 999996

Exclusions Reference Tables

XCL1	✔ Deceased
	Death
	Custom Codes
	Deceased
	Procedure
	SNOMED
	371828006

XCL2	✔ Deceased
	Admission

XCL3	✔ Hospice
	Encounter
	Custom Codes
	Encounter: type_hospice
	Procedure
	SNOMED
	305336008, 385763009

Exceptions Reference Tables

XCE1	✔ Exclusion Codes		
	Diagnosis		
	ICD-9	ICD-10	SNOMED
	403.01, 403.11, 403.91, 404.02, 404.03, 404.12, 404.13, 404.92, 404.93, 440.0, 440.1, 584.5, 584.6, 584.7, 584.8, 584.9, 585.1, 585.2, 585.3, 585.4, 585.5, 747.22, 788.5	I12.0, I13.0, I13.11, I13.2, I70.0, I70.1, N17.0, N17.1, N17.2, N17.8, N17.9, Q25.2, Q25.3, R34	111407006, 111438007, 11511004, 13010001, 1474004, 14973001, 16147005, 17380002, 193003, 194774006, 194780003, 198949009, 198951008, 198952001, 198953006, 198954000, 199007008, 200117009, 200118004, 204431007, 213231008, 22846003, 22966008, 236425005, 236428007, 236429004, 236431008, 236432001, 236434000, 236435004, 236436003, 23697004, 268854008, 269257004, 271845002, 28119000, 293501008, 293502001, 293503006, 293504000, 293505004, 293506003, 293507007, 293508002, 293509005, 293513003, 295037009, 295038004, 295039007, 295040009, 295041008, 295042001, 295043006, 295044000, 295045004, 295050005, 298015003, 301814009, 307309005, 31881008, 32916005, 33561005, 35455006, 36225005, 36568005, 371627004, 373421000, 373422007, 38481006, 39018007, 407565004, 422593004, 423533009, 42399005, 425369003, 429224003, 429489008, 430535006, 439405005, 45281005, 46177005, 49102001, 49171007, 49220004, 51292008, 57684003, 57873008, 62216007, 62240004, 65443008, 66052004, 66610008, 66709007, 73030000, 78209002, 78544004, 81363003, 86234004, 90493000, 90688005

XCE2	✔ Pregnancy		
	Diagnosis		
	ICD-9	ICD-10	SNOMED
	633.11, 633.21, 633.81, 633.91, 640.01, 640.03, 640.83, 641.03, 641.13, 641.21, 641.23, 641.31, 641.33, 641.81, 641.83, 641.91, 641.93, 642.01, 642.02, 642.03, 642.11, 642.12, 642.13, 642.21, 642.22, 642.23, 642.31, 642.32, 642.33, 642.62, 642.63, 642.71, 642.72, 642.73, 642.91, 642.92, 642.93, 643.01, 643.03, 643.83, 643.91, 643.93, 644.03, 644.13, 644.21, 645.11, 645.13, 645.21, 645.23, 646.01, 646.03, 646.11, 646.12, 646.13, 646.21, 646.22, 646.23, 646.31, 646.33, 646.41, 646.42, 646.43, 646.51, 646.52, 646.53, 646.61, 646.62, 646.63, 646.71, 646.73, 646.81, 646.82, 646.83, 646.91, 646.93, 647.01, 647.02, 647.03, 647.11, 647.12, 647.13, 647.21, 647.22, 647.23, 647.31, 647.32, 647.33, 647.41, 647.42, 647.43, 647.51, 647.52, 647.53, 647.61, 647.62, 647.63, 647.81, 647.82, 647.83, 647.91, 647.92, 647.93, 648.01, 648.02, 648.03, 648.11, 648.12, 648.13, 648.21, 648.22, 648.23, 648.31, 648.32, 648.33, 648.41, 648.42, 648.43, 648.51, 648.52, 648.53, 648.61, 648.62, 648.63, 648.71, 648.72, 648.73, 648.81, 648.82, 648.83,	O00.1, O00.2, O00.8, O00.9, O09.00, O09.01, O09.02, O09.03, O09.10, O09.11, O09.12, O09.13, O09.211, O09.212, O09.213, O09.219, O09.291, O09.292, O09.293, O09.299, O09.30, O09.31, O09.32, O09.33, O09.40, O09.41, O09.42, O09.43, O09.511, O09.512, O09.513, O09.519, O09.521, O09.522, O09.523, O09.529, O09.611, O09.612, O09.613, O09.619, O09.621, O09.622, O09.623, O09.629, O09.70, O09.71, O09.72, O09.73, O09.811, O09.812, O09.813, O09.819, O09.821, O09.822, O09.823, O09.829, O09.891, O09.892, O09.893, O09.899, O09.90, O09.91, O09.92, O09.93, O10.011, O10.012, O10.013, O10.019, O10.111, O10.112, O10.113, O10.119, O10.211, O10.212, O10.213, O10.219, O10.311, O10.312, O10.313, O10.319, O10.411, O10.412, O10.413, O10.419, O10.911, O10.912, O10.913, O10.919, O11.1, O11.2, O11.3, O11.9, O12.00, O12.01, O12.02, O12.03, O12.10, O12.11, O12.12, O12.13, O12.20, O12.21, O12.22, O12.23, O13.1, O13.2, O13.3, O13.9, O14.00, O14.02, O14.03, O14.10, O14.12, O14.13, O14.20, 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O99.712, O99.713, O99.719, O99.810, O99.820, O99.830, O99.840, O99.841, O99.842, O99.843, O99.89, O9a.111, O9a.112, O9a.113, O9a.119, O9a.211, O9a.212, O9a.213, O9a.219, O9a.311, O9a.312, O9a.313, O9a.319, O9a.411, O9a.412, O9a.413, O9a.419, O9a.511, O9a.512, O9a.513, O9a.519, Z33.1, Z34.00, Z34.01, Z34.02, Z34.03, Z34.80, Z34.81, Z34.82, Z34.83, Z34.90, Z34.91, Z34.92, Z34.93, Z36
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XCE3	✔ ACE or ARB allergy
	Diagnosis
	SNOMED

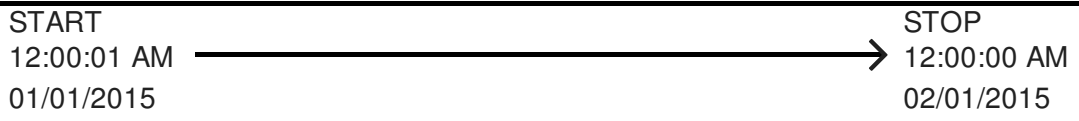
	293500009, 295036000, 407564000, 407578004, 407579007, 407590002
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XCE4	✔ Medical Reasons
	Diagnosis
	SNOMED
	161590003, 183932001, 183964008, 183966005, 216952002, 266721009, 269191009, 274512008, 31438003, 35688006, 397745006, 407563006, 410534003, 410536001, 416098002, 416406003, 428119001, 445528004, 59037007, 62014003, 79899007
	Procedure
	SNOMED
	371133007

XCE5	✔ Patient Reason
	Diagnosis
	SNOMED
	105480006, 160932005, 160934006, 182890002, 182895007, 183944003, 183945002, 184081006, 185479006, 185481008, 224187001, 258147002, 266710000, 266966009, 275694009, 275936005, 281399006, 310343007, 373787003, 385648002, 406149000, 408367005, 413310006, 413311005, 413312003, 416432009, 423656007, 424739004, 443390004, 5015009
	Procedure
	SNOMED
	182897004, 182900006, 182902003, 225928004, 30164005

XCE6	✔ System Reason
	Diagnosis
	SNOMED
	182856006, 182857002, 185335007, 224194003, 224198000, 224199008, 266756008, 270459005, 309017000, 309846006, 419808006, 424553001
	Procedure
	SNOMED
	107724000, 242990004

Reference Periods



Different criteria in each measure require that records occur during a precise time period. Note that all dates begin at midnight.

Operators

Operators describe what criteria is needed for a measure. They include:



Both criteria above and below the line must be met



Either criteria above or below the line must be met



The criteria following this are negated — they must not have occurred

Expressions

You will encounter certain expressions that denote a specific relationship between criteria. They include:



Linked Encounter
Indicates that the criteria listed above must have occurred during the same encounter as the criteria that immediately follows

