CAD Identification

OntarioMD i4C Dashboard Indicator

For more information regarding OntarioMD Indicators or the EMR i4C Dashboard Specification, please refer to:

https://www.ontariomd.ca/emr-certification/emr-specification/ontariomd-indicator-library

1. VERSION HISTORY

INDICATOR VERSION	PUBLICATION DATE	REMARKS
1.0	2019-02-18	• Initial release
2.0	2019-07-09	• Added Indicator ID, Indicator Segment ID and Display Indicator Segment properties • Changed format and content of Indicator User Help • Changed format of Source property • Indicator Segment IDs re-sequenced to provide consistency across indicators • Indicator Segment Query Criteria clarifies that query result from a segment should produce a count of patients
2.1	2020-06-15	• Indicator Segment Query wording clarifies that ICD-9 and ICD-10 diagnoses searches should Include all codes within top-level hierarchies • Additional ICD-10 codes recommended for diagnoses searches to match synonymous ICD-9 codes currently specified • Removal of SNOMET-RT codes recommended since SNOMED-RT has been formally deprecated for use and is no longer supported • Layout of definition file changed to improve readability of indicator segment properties • Description and User Help content now contained in separate document. Description and User Help attributes in definition now contain wording to confirm content is kept separately

2. INDICATOR DEFINITION

2.1 Indicator Properties

PROPERTY	VALUE
Indicator ID	CDM-CAD-001
Indicator Name	CAD Identification
Indicator Version	2.1
Date Published	2020-06-15
Description	Indicator description is part of the User Help content, now maintained in a separate document within the i4C Dashboard Indictor Library.
Source	OntarioMD
Source Description	
Status	Active
Category	CDM
Subcategory	Coronary Artery Disease
Indicator Order	1
Indicator Graphic Type	Table
Indicator Graphic Notes	
Indicator User Help	User Help content is now maintained in a separate document within the i4C Dashboard Indicator Library.

PROPERTY	VALUE
Indicator Segment Query Notes	**Active Patients** are patients identified as 'Active' in the *Patient Status* data element (DE01.016) within *Patient Demographics.* **Patient Age** can be calculated based on the difference between the current date and the patient's date of birth captured in the *Date of Birth* data element (DE01.007) within *Patient Demographics*. **CAD Coded Diagnosis** is any of the following codes captured in *Diagnosis/Problem* (DE06.004) within *Ongoing Health*: • 410*, 411*, 412*, 413*, 414*, 429.2 (ICD-9 Coding System) • I20*, I21*, I24*, I25* (ICD-10 Coding System) • 414545008, 413439005, 413838009, 194828000 (SNOMED-CT Coding System) ICD-9 and ICD-10 are hierarchical coding systems built on general categories and (optional) specific subcategories. A **dot separator** is used to separate category from subcategory in representing a code. Some EMR offerings omit the dot separator in representing codes in data capture and EMR data searches. For these EMRs, vendors will omit the dot separator in searches and queries. A category code followed by a dot separator and asterisk (e.g., 410*) means that the search should include the high-level category (410) along with all subcategories within the hierarchy (e.g., 410.0, 410.1, 410.11, etc.) **CAD Text Diagnosis or Problem** is any of the following text elements captured in the *Diagnosis/Problem* data elements within *Ongoing Health* (DE06.004) or *Past Medical & Surgical* (DE07.004): 'CAD', 'C.A.D.', 'coronary artery dis', 'CVD', 'C.V.D.', 'cardiovascular disease', 'IHD', 'I.H.D.', 'ischemic hrt dis', 'ischemic heart dis', 'M.I.', 'myocardial' **Bills Containing a CAD Diagnosis** are any bills submitted for a patient with any of the following diagnosis codes attached: 410, 411, 412, 413, 414, 429 All codes correspond to diagnoses within the ICD-9 Coding System. **CAD Excluded** is patients who are identified for exclusion from consideration for a CAD diagnosis. This can be implemented through the creation and utilization of a population cohort specifically created for the purpose of CAD diagnosis exclusion. Adoption of a population cohort for this purpose is optional, and query criteria for CAD exclusion will be bypassed in EMRs where the exclusion cohort is not utilized.
Patient List Notes	**Patient Name** is a combination of First Name (DE01.003) and Last Name (DE01.002) data items from *Patient Demographics*. Names may be displayed either as separate columns or concatenated into one column. **Unique Patient Identifier** is any data item from *Patient Demographics* that can be used by a physician or clinic to uniquely identify a patient when displayed. Examples include Health Card Number (DE01.008) or Chart Number (DE01.012).

PROPERTY	VALUE
	Patient Date of Birth is captured into *Patient Demographics* as *Date of Birth* (DE01.007). **Patient Age** is a calculated data item representing the difference between the current date and *Date of Birth* (DE01.007) from *Patient Demographics*. Age should be displayed in years. **Patient Phone Number** is the preferred phone number for contacting a patient and may include *Residence Phone* (DE02.007), *Cell Phone* (DE02.008) or *Work Phone* (DE02.009) from *Patient Address*. **CAD Diagnosis Codes** is a delimited listing of all diagnosis codes for CAD that have been captured in the *Ongoing Health Diagnosis/Problem* data element (DE06.004) for a patient. **CAD Text Diagnoses** is a delimited listing of all text elements for CAD that have been captured in *Ongoing Health Diagnosis/Problem* (DE06.004) for a patient. **Count of Bills with CAD Diagnosis** is a count of bills submitted for a patient with a CAD diagnosis attached.

2.2 Indicator Segment Properties

Indicator Segment ID	Indicator Segment Label	Display Indicator Segment	Indicator Segment Query Criteria	Patient List Criteria
1	CAD Coded	Yes	COUNT OF: Active patients age 18 and over WITH a coded diagnosis of Coronary Artery Disease (CAD)	**Mandatory** Patient Name Unique Patient Identifier Patient Date of Birth **Optional** Patient Age Patient Phone Number CAD Diagnosis Codes
2	Consider CAD: Documented as text but not coded	Yes	COUNT OF: Active patients age 18 and over WITHOUT a coded diagnosis of Coronary Artery Disease (CAD) AND WITH CAD documented as text diagnosis or problem AND who are not excluded	**Mandatory** Patient Name Unique Patient Identifier Patient Date of Birth **Optional** Patient Age Patient Phone Number CAD Text Diagnoses
3	Consider CAD: Dx in 2+ bills	Yes	COUNT OF: Active patients age 18 and over WITHOUT a coded diagnosis of Coronary Artery Disease (CAD) AND WITH two or more bills containing a CAD diagnosis AND who are not excluded	**Mandatory** Patient Name Unique Patient Identifier Patient Date of Birth **Optional** Patient Age Patient Phone Number Count of Bills With CAD Diagnosis

Indicator Segment ID	Indicator Segment Label	Display Indicator Segment	Indicator Segment Query Criteria	Patient List Criteria
4	Consider CAD: Total	Yes	COUNT OF: Active patients age 18 and over WITHOUT a coded diagnosis of Coronary Artery Disease (CAD) AND WITH (CAD documented as text diagnosis or problem OR two or more bills containing a CAD diagnosis) AND who are not excluded	**Mandatory** Patient Name Unique Patient Identifier Patient Date of Birth **Optional** Patient Age Patient Phone Number CAD Text Diagnoses Count of Bills With CAD Diagnosis
5	CAD excluded	Yes	COUNT OF Active patients age 18 and over WITHOUT a coded diagnosis of Coronary Artery Disease (CAD) AND who are excluded	**Mandatory** Patient Name Unique Patient Identifier Patient Date of Birth **Optional** Patient Age Patient Phone Number