

Diabetes with HbA1c In Range

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	<ul style="list-style-type: none"> Initial release
2.0	2019-07-09	<ul style="list-style-type: none"> 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. INDICATOR DEFINITION

2.1 Indicator Properties

PROPERTY	VALUE
Indicator ID	CDM-DIAB-003
Indicator Name	Diabetes with HbA1c In Range
Indicator Version	2.0
Date Published	2019-07-09
Description	<p>Purpose:</p> <p>This indicator is used to identify patients with diabetes whose most recent glycemic control in the last 12 months was in the following ranges:</p> <ul style="list-style-type: none"> • HbA1c $\leq 7\%$ • $7\% < \text{HbA1c} \leq 8.5\%$ • HbA1c $> 8.5\%$ <p>Base Population:</p> <p>All patients with an Active demographic status recorded in the EMR who have a confirmed Diabetes diagnosis through the entry of an appropriate diagnosis code.</p> <p>Indicator Segments:</p> <p>Indicator segments provide the following patient summaries:</p> <ul style="list-style-type: none"> • Count of patients with diabetes and with the most recent HbA1c in the last 12 months $\leq 7\%$; • Count of patients with diabetes and with the most recent HbA1c in the last 12 months $> 7\%$ and $\leq 8.5\%$; • Count of patients with diabetes and with the most recent HbA1c in the last 12 months $> 8.5\%$; • Count of patients with diabetes and without any HbA1c recorded in the last 12 months.

PROPERTY	VALUE
	<p>Suggested Indicator Use:</p> <p>Physician use of this indicator is to review the charts of patients with HbA1c not in control to identify patients who may benefit from a referral for additional diabetes education.</p> <p>Measurements of Interest:</p> <p>Percentage of patients with HbA1c in control ($\leq 7\%$) out of all patients with diabetes who have had an HbA1c recorded in the past 12 months.</p>
Source	AFHTO
Source Description	Based on AFHTO D2D 5.0 v14 Jun 2017 and enhanced for clinician usability within an EMR.
Status	Active
Category	CDM
Subcategory	Diabetes
Indicator Order	3
Indicator Graphic Type	Pie Chart, Bar Chart
Indicator Graphic Notes	
Indicator User Help	<p>Diabetics: HbA1c in Range</p> <p>Purpose:</p> <p>This indicator is used to identify patients with diabetes whose most recent glycemic control in the last 12 months was in the following ranges:</p> <ul style="list-style-type: none"> HbA1c $\leq 7\%$

PROPERTY	VALUE
	<ul style="list-style-type: none"> • 7% < HbA1c <= 8.5% • HbA1c > 8.5% <p>Base Population:</p> <p>All patients with an Active demographic status recorded in the EMR who have a confirmed Diabetes diagnosis through the entry of an appropriate diagnosis code.</p> <p>Indicator Segments:</p> <p>Indicator segments provide the following patient summaries:</p> <ul style="list-style-type: none"> • Count of patients with diabetes and with the most recent HbA1c in the last 12 months <= 7%; • Count of patients with diabetes and with the most recent HbA1c in the last 12 months > 7% and <= 8.5%; • Count of patients with diabetes and with the most recent HbA1c in the last 12 months > 8.5%; • Count of patients with diabetes and without any HbA1c recorded in the last 12 months. <p>Suggested Indicator Use:</p> <p>Physician use of this indicator is to review the charts of patients with HbA1c not in control to identify patients who may benefit from a referral for additional diabetes education.</p> <p>Measurements of Interest:</p> <p>Percentage of patients with HbA1c in control (<= 7%) out of all patients with diabetes who have had an HbA1c recorded in the past 12 months.</p> <p>Metric Criteria:</p> <p><u>HbA1c not done > 12 months</u>: WITHOUT an HbA1c in the last 12 Months</p> <p><u>HbA1c > 8.5%</u>: WITH a latest HbA1c greater than 8.5% in the last 12 months</p> <p><u>7% < HbA1c <= 8.5%</u>: WITH a latest HbA1c between 7% and 8.5% in the last 12 months</p>

PROPERTY	VALUE
	<u>HbA1c <= 7%¹</u> : WITH a latest HbA1c less than or equal to 7% in the last 12 months

¹ Optional: Implementer may include EMR-specific information on the workflow for documenting HbA1c screening.

2.2 Indicator Segment Properties

PROPERTY	VALUE	VALUE	VALUE	VALUE
Indicator Segment ID	1	2	3	4
Indicator Segment Label	HbA1c <= 7%	7% < HbA1c <= 8.5%	HbA1c > 8.5%	HbA1c not done > 12 months
Display Indicator Segment	Yes	Yes	Yes	Yes
Indicator Segment Query Criteria	COUNT OF: Active patients WITH a coded diagnosis of Diabetes AND WITH >= 1 documented HbA1c tests in the last 12 months AND WITH the latest documented HbA1c value <= 7%	COUNT OF: Active patients WITH a coded diagnosis of Diabetes AND WITH >= 1 documented HbA1c tests in the last 12 months AND WITH the latest documented HbA1c value > 7% and <= 8.5%	COUNT OF: Active patients WITH a coded diagnosis of Diabetes AND WITH >= 1 documented HbA1c tests in the last 12 months AND WITH the latest documented HbA1c value > 8.5%	COUNT OF: Active patients WITH a coded diagnosis of Diabetes AND WITHOUT any documented HbA1c tests in the last 12 months
Indicator Segment Query Notes	<p>Active Patients are patients identified as 'Active' in the <i>Patient Status</i> data element (DE01.016) within <i>Patient Demographics</i>.</p> <p>Diabetes Coded Diagnosis is any of the following codes captured in the <i>Diagnosis/Problem</i> data element (DE06.004) within <i>Ongoing Health</i>:</p> <p>250 (ICD-9 Coding System)</p> <p>E10, E11 (ICD-10 Coding System)</p> <p>DB-610 (SNOMED-RT Coding System)</p> <p>46635009, 44054006, 73211009 (SNOMED-CT Coding System)</p>			

PROPERTY	VALUE	VALUE	VALUE	VALUE
	<p>Documented HbA1c Test is a value captured within <i>Laboratory Test Results (DE10)</i> for an HbA1c Test. Test names may be identified using EMR's proprietary test names, laboratory proprietary test codes or test names, or LOINC codes which cross-reference test names across different EMR and laboratory test names.</p> <p>HbA1c value is captured in <i>Result Value (DE10.007)</i> within <i>Laboratory Test Results (DE10)</i> either through an EMR lab interface or as a manual lab test entry. Results through a lab interface are normally formatted as a decimal value, e.g. .075, but are interpreted as an HbA1c value of 7.5%.</p>			
Patient List Criteria	<p>Mandatory</p> <p>Patient Name</p> <p>Unique Patient Identifier</p> <p>Optional</p> <p>Patient Date of Birth</p> <p>Patient Age</p> <p>Patient Phone Number</p> <p>Latest HbA1c Screening</p> <p>Last Seen Date</p> <p>Next Appointment Date</p>	<p>Mandatory</p> <p>Patient Name</p> <p>Unique Patient Identifier</p> <p>Optional</p> <p>Patient Date of Birth</p> <p>Patient Age</p> <p>Patient Phone Number</p> <p>Latest HbA1c Screening</p> <p>Last Seen Date</p> <p>Next Appointment Date</p>	<p>Mandatory</p> <p>Patient Name</p> <p>Unique Patient Identifier</p> <p>Optional</p> <p>Patient Date of Birth</p> <p>Patient Age</p> <p>Patient Phone Number</p> <p>Latest HbA1c Screening</p> <p>Last Seen Date</p> <p>Next Appointment Date</p>	<p>Mandatory</p> <p>Patient Name</p> <p>Unique Patient Identifier</p> <p>Optional</p> <p>Patient Date of Birth</p> <p>Patient Age</p> <p>Patient Phone Number</p> <p>Latest HbA1c Screening</p> <p>Last Seen Date</p> <p>Next Appointment Date</p>
Patient List Notes	<p>Patient Name is a combination of First Name (<i>DE01.003</i>) and Last Name (<i>DE01.002</i>) data items from <i>Patient Demographics</i>. Names may be displayed either as separate columns or concatenated into one column.</p> <p>Unique Patient Identifier is any data item from <i>Patient Demographics</i> that can be used by a physician or clinic to uniquely identify a patient when displayed. Examples include Health Card Number (<i>DE01.008</i>) or Chart Number (<i>DE01.012</i>).</p>			

PROPERTY	VALUE	VALUE	VALUE	VALUE
	<p>Patient Date of Birth is captured into <i>Patient Demographics</i> as Date of Birth (<i>DE01.007</i>).</p> <p>Patient Age is a calculated data item representing the difference between the current date and Date of Birth (<i>DE01.007</i>) from <i>Patient Demographics</i>. Age should be displayed in years.</p> <p>Patient Phone Number is the preferred phone number for contacting a patient and may include Residence Phone (<i>DE02.007</i>), Cell Phone (<i>DE02.008</i>) or Work Phone (<i>DE02.009</i>) from <i>Patient Address</i>.</p> <p>Latest HbA1c Screening represents the result and/or date from the latest documented screening for the HbA1c test.</p> <p>Last Seen Date is a date representing the last time a patient was seen by the physician or another clinician within the clinic. This may be based on <i>Appointment Date/Time</i> (<i>DE15.001</i>), where appointments with status of 'No Show', 'Cancelled', or 'Deleted' are excluded, or this may be based on any additional documentation supported by the EMR to track when a patient has last been seen (e.g., encounter notes).</p> <p>Next Appointment Date is a date representing the next time a patient is scheduled to be seen by the physician or another clinician within the clinic. This may be based on <i>Appointment Date/Time</i> (<i>DE15.001</i>).</p>			