

HTN 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	<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-HTN-001
Indicator Name	HTN Identification
Indicator Version	2.0
Date Published	2019-07-09
Description	<p>Purpose:</p> <p>This indicator is used to identify patients with Hypertension.</p> <p>Base Population:</p> <p>All patients with an Active demographic status recorded in the EMR who have a confirmed HTN diagnosis or who may be considered for HTN diagnosis based on other EMR data.</p> <p>Indicator Segments:</p> <p>Indicator segments provide the following patient summaries:</p> <ul style="list-style-type: none"> • Count of patients confirmed with HTN diagnosis through the entry of appropriate diagnosis code; • Count of patients without a confirmed HTN diagnosis but who may be considered for diagnosis based on the text entered in the cumulative patient profile; • Count of patients without a confirmed HTN diagnosis but who may be considered for diagnosis based on two or more bills with an HTN diagnosis attached; • Unique count of patients without a confirmed HTN diagnosis but who may be considered for diagnosis; • Count of patients without a confirmed HTN diagnosis who are excluded from consideration for HTN diagnosis.

PROPERTY	VALUE
	<p>Suggested Indicator Use:</p> <p>Physician or Practice use of this indicator is to review charts in the consider segments and add the appropriate diagnosis code to the patient chart.</p> <p>Measurements of Interest:</p> <p>Percentage of patients with a confirmed HTN diagnosis out of all patients who either have a confirmed HTN diagnosis or who may be considered for diagnosis.</p>
Source	OntarioMD
Source Description	
Status	Active
Category	CDM
Subcategory	Hypertension
Indicator Order	1
Indicator Graphic Type	Table
Indicator Graphic Notes	
Indicator User Help	<p>Identification Prospects for Hypertension</p> <p>Purpose:</p> <p>This indicator is used to identify patients with Hypertension.</p> <p>Base Population:</p>

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PROPERTY	VALUE
	<p>Metric Criteria:</p> <p><u>HTN Coded¹</u>: Patients WITH an HTN diagnosis code documented as one of the following:</p> <ul style="list-style-type: none"> • 401, 402, 403, 404, 405 (ICD-9 Coding System) • I10 (ICD-10 Coding System) • D3-02120, D3-02010, D3-02100, D3-020000 (SNOMED-RT Coding System) • 1201005, 10725009, 59621000, 38341003 (SNOMED-CT Coding System) <p><u>Consider HTN²</u>: Documented as text but not coded: Patients WITHOUT Hypertension diagnosis coded, who are NOT excluded, AND WITH Hypertension documented as one of the following text diagnoses or problems: "HTN", "HPT", "Hypertensive", "Hypertension".</p> <p><u>Consider HTN: Dx in 2+ bills³</u>: Patients WITHOUT Hypertension diagnosis coded, who are NOT excluded, AND WITH 2 or more bills containing a diagnosis of 401, 402 or 403.</p> <p><u>Consider HTN: Total</u>: Combined list of all patients WITHOUT Hypertension diagnosis coded, who are NOT excluded, and who have been identified as potentially having Hypertension based on Dx in 2+ bills or by HTN documented with a text diagnosis or problem.</p> <p><u>HTN Exclusion⁴</u>: Patients WITHOUT Hypertension diagnosis coded who have been intentionally excluded (within EMRs that support this functionality). This group should be reviewed periodically to ensure that the exclusion still applies.</p>

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

² Optional: Implementer may include EMR-specific information on the workflow for documenting diagnosis text.

³ Optional: Implementer may include EMR-specific information on the workflow for submitting patient bills.

⁴ Optional: Implementer may include EMR-specific information on the workflow for excluding patients.

2.2 Indicator Segment Properties

PROPERTY	VALUE	VALUE	VALUE	VALUE	VALUE
Indicator Segment ID	1	2	3	4	5
Indicator Segment Label	HTN Coded	Consider HTN: Documented as text but not coded	Consider HTN: Dx in 2+ bills	Consider HTN: Total	HTN excluded
Display Indicator Segment	Yes	Yes	Yes	Yes	Yes
Indicator Segment Query Criteria	COUNT OF: Active patients age 18 and over WITH a coded diagnosis of Hypertension (HTN)	COUNT OF: Active patients age 18 and over WITHOUT a coded diagnosis of Hypertension (HTN) AND WITH HTN documented as text diagnosis or problem AND who are not excluded	COUNT OF: Active patients age 18 and over WITHOUT a coded diagnosis of Hypertension (HTN) AND WITH two or more bills containing an HTN diagnosis AND who are not excluded	COUNT OF: Active patients age 18 and over WITHOUT a coded diagnosis of Hypertension (HTN) AND (WITH HTN documented as text diagnosis or problem OR WITH two or more bills containing an HTN diagnosis) AND who are not excluded	COUNT OF: Active patients age 18 and over WITHOUT a coded diagnosis of Hypertension (HTN) AND who are excluded
Indicator Segment Query Notes	Active Patients are patients identified as 'Active' in the <i>Patient Status</i> data element (DE01.016) within <i>Patient Demographics</i> .				

PROPERTY	VALUE	VALUE	VALUE	VALUE	VALUE
	<p>Patient Age can be calculated based on the difference between the current date and the patient's date of birth captured in the <i>Date of Birth</i> data element (DE01.007) within <i>Patient Demographics</i>.</p> <p>HTN Coded Diagnosis is any of the following codes captured in the <i>Diagnosis/Problem</i> data element (DE06.004) within <i>Ongoing Health</i>: 401, 402, 403, 404, 405 (ICD-9 Coding System) I10 (ICD-10 Coding System) D3-02120, D3-02010, D3-02100, D3-020000 (SNOMED-RT Coding System) 1201005, 10725009, 59621000, 38341003 (SNOMEDCT Coding System)</p> <p>HTN Text Diagnosis or Problem is any of the following text elements captured in the <i>Diagnosis/Problem</i> data elements within <i>Ongoing Health</i> (DE06.004) or <i>Past Medical & Surgical</i> (DE07.004): "HTN," "HPT," "Hypertensive," "Hypertension"</p> <p>Bills Containing an HTN Diagnosis are any bills submitted for a patient with any of the following diagnosis codes attached: 401, 402, 403 All codes correspond to diagnoses within the ICD-9 Coding System.</p> <p>HTN Excluded are patients who are identified for exclusion from consideration for an HTN diagnosis. This can be implemented through the creation and utilization of a population cohort specifically created for the purpose of HTN diagnosis exclusion. Adoption of a population cohort for this purpose is optional, and query criteria for HTN exclusion will be bypassed in EMRs where the exclusion cohort is not utilized.</p>				
Patient List Criteria	Mandatory Patient Name Unique Patient Identifier	Mandatory Patient Name Unique Patient Identifier	Mandatory Patient Name Unique Patient Identifier	Mandatory Patient Name Unique Patient Identifier	Mandatory Patient Name Unique Patient Identifier

PROPERTY	VALUE	VALUE	VALUE	VALUE	VALUE
	Optional Patient Date of Birth Patient Age Patient Phone Number HTN Diagnosis Codes	Optional Patient Date of Birth Patient Age Patient Phone Number HTN Text Diagnoses	Optional Patient Date of Birth Patient Age Patient Phone Number Count of Bills With HTN Diagnosis	Optional Patient Date of Birth Patient Age Patient Phone Number HTN Text Diagnoses Count of Bills With HTN Diagnosis	Optional Patient Date of Birth Patient Age Patient Phone Number
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> <p>Patient Date of Birth is captured into <i>Patient Demographics</i> as <i>Date of Birth</i> (<i>DE01.007</i>).</p> <p>Patient Age is a calculated data item representing the difference between the current date and <i>Date of Birth</i> (<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>HTN Diagnosis codes is a delimited listing of all diagnosis codes for HTN that have been captured in the <i>Ongoing Health Diagnosis/Problem</i> data element (<i>DE06.004</i>) for a patient.</p> <p>HTN Text Diagnoses is a delimited listing of all text elements for HTN that have been captured in <i>Ongoing Health Diagnosis/Problem</i> (<i>DE06.004</i>) or <i>Past Medical & Surgical History Diagnosis/Problem</i> (<i>DE07.004</i>) for a patient.</p>				

PROPERTY	VALUE	VALUE	VALUE	VALUE	VALUE
	Count of Bills with HTN Diagnosis is a count of bills submitted for a patient with an HTN diagnosis attached.				