

# Patient Care Childhood Immunizations Recall

## 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"> <li>Initial release</li> </ul>
2.0	2019-07-09	<ul style="list-style-type: none"> <li>Add patient rostering status and date as optional columns in the Patient List Criteria</li> <li>Added Indicator ID, Indicator Segment ID and Display Indicator Segment properties</li> <li>Changed format and content of Indicator User Help</li> <li>Changed format of Source property</li> <li>Indicator Segment IDs re-sequenced to provide consistency across indicators</li> <li>Indicator Segment Query Criteria clarifies that query result from a segment should produce a count of patients</li> </ul>

## 2. INDICATOR DEFINITION

### 2.1 Indicator Properties

PROPERTY	VALUE
Indicator ID	PHC-IMM-002
Indicator Name	Patient Care Childhood Immunizations Recall
Indicator Version	2.0
Date Published	2019-07-09
Description	<p><b>Purpose:</b></p> <p>This indicator is used to recall patients who have not completed routine childhood immunizations by their 30th month of age.</p> <p><b>Base Population:</b></p> <p>All patients between 18 and 29 months of age inclusive, with an Active demographic status recorded in the EMR.</p> <p><b>Indicator Segments:</b></p> <p>Indicator segments provide the following patient summaries:</p> <ul style="list-style-type: none"> <li>Count of patients who have completed all of the ministry-supplied immunizations as recommended by the National Advisory Committee on immunizations;</li> <li>Count of patients who have not completed all of the recommended immunizations and who have not refused one or more recommended immunizations;</li> <li>Count of patients who have not completed all of the recommended immunization and who have refused one or more recommended immunizations.</li> </ul>

PROPERTY	VALUE
	<p><b>Suggested Indicator Use:</b></p> <p>Practice use of this indicator is to review charts of patients who are not up to date, in order to help get patients up to date with their immunization schedule.</p> <p><b>Measurements of Interest:</b></p> <p>Percentage of patients who have completed all recommended immunizations out of the base population.</p>
Source	AFHTO
Source Description	Based on the AFHTO indicator framework, version D2D 5.0 v1 published June 2017.
Status	Active
Category	Preventive Health Care
Subcategory	Immunizations
Indicator Order	2
Indicator Graphic Type	Pie Chart, Bar Chart
Indicator Graphic Notes	
Indicator User Help	<p><b>Children 18-29 Months: Immunizations</b></p> <p><b>Purpose:</b></p> <p>This indicator is used to recall patients who have not completed routine childhood immunizations by their 30th month of age.</p> <p><b>Base Population:</b></p> <p>All patients between 18 and 29 months of age inclusive, with an Active demographic status recorded in the EMR.</p>

PROPERTY	VALUE
	<p><b>Indicator Segments:</b></p> <p>Indicator segments provide the following patient summaries:</p> <ul style="list-style-type: none"> <li>• Count of patients who have completed all of the ministry-supplied immunizations as recommended by the National Advisory Committee on immunizations;</li> <li>• Count of patients who have not completed all of the recommended immunizations and who have not refused one or more recommended immunizations;</li> <li>• Count of patients who have not completed all of the recommended immunization and who have refused one or more recommended immunizations.</li> </ul> <p><b>Suggested Indicator Use:</b></p> <p>Practice use of this indicator is to review charts of patients who are not up to date, in order to help get patients up to date with their immunization schedule.</p> <p><b>Measurements of Interest:</b></p> <p>Percentage of patients who have completed all recommended immunizations out of the base population.</p> <p><b>Metric Criteria:</b></p> <p><u>Complete:</u> WITH all of the following complete:</p> <ul style="list-style-type: none"> <li>• 4 instances of DTaP-IPV-Hib</li> <li>• 3 instances of Pneumococcal conjugate</li> <li>• 1 instance of Meningococcal Conjugate C</li> <li>• 1 instance of Measles, Mumps and Rubella</li> <li>• 1 instance of Varicella</li> </ul>

PROPERTY	VALUE
	<p><u>Incomplete:</u> WITHOUT all of the following complete:</p> <ul style="list-style-type: none"> <li>• 4 instances of DTaP-IPV-Hib</li> <li>• 3 instances of Pneumococcal conjugate</li> <li>• 1 instance of Meningococcal Conjugate C</li> <li>• 1 instance of Measles, Mumps and Rubella</li> <li>• 1 instance of Varicella</li> </ul> <p>AND WITHOUT a documented refusal for any of the above in the past 12 months.</p> <p><u>Declined one or more:</u> WITHOUT ALL of the following complete:</p> <ul style="list-style-type: none"> <li>• 4 instances of DTaP-IPV-Hib</li> <li>• 3 instances of Pneumococcal conjugate</li> <li>• 1 instance of Meningococcal Conjugate C</li> <li>• 1 instance of Measles, Mumps and Rubella</li> <li>• 1 instance of Varicella</li> </ul> <p>AND WITH a documented refusal for any of the above that are <b>not complete</b> in the past 12 months.</p>

## 2.2 Indicator Segment Properties

PROPERTY	VALUE	VALUE	VALUE
Indicator Segment ID	1	2	3
Indicator Segment Label	Complete	Incomplete	Refused one or more
Display Indicator Segment	Yes	Yes	Yes
Indicator Segment Query Criteria	<b>COUNT OF:</b> Active patients age 18-29 months <b>AND WITH</b> at least 4 instances of DTaP-IPV-Hib documented <b>AND WITH</b> at least 3 instances of Pneumococcal conjugate documented <b>AND WITH</b> at least 1 instance of Meningococcal Conjugate C documented <b>AND WITH</b> at least 1 instance of Measles/Mumps/Rubella (MMR) documented <b>AND WITH</b> at least 1 instance of Varicella documented	<b>COUNT OF:</b> Active patients age 18-29 months <b>AND WITH</b> ( less than 4 instances of DTaP-IPV-Hib documented <b>OR</b> less than 3 instances of Pneumococcal conjugate documented <b>OR</b> less than 1 instance of Meningococcal Conjugate C documented <b>OR</b> less than 1 instance of MMR documented <b>OR</b> less than 1 instance of Varicella documented ) <b>AND WITHOUT</b> <i>DTaP-IPV-Hib refused</i> documented in the past 12 months <b>AND WITHOUT</b> <i>Pneumococcal conjugate refused</i> documented in the past 12 months <b>AND WITHOUT</b> <i>Meningococcal Conjugate C refused</i> documented in the	<b>COUNT OF:</b> Active patients age 18-29 months <b>AND WITH: (</b> (less than 4 instances of DTaP-IPV-Hib documented <b>AND</b> <i>A DTaP-IPV-Hib refused</i> documented in the past 12 months) <b>OR</b> (less than 3 instances of Pneumococcal conjugate documented <b>AND</b> <i>A Pneumococcal conjugate refused</i> documented in the past 12 months) <b>OR</b> (less than 1 instance of Meningococcal Conjugate C documented <b>AND</b> <i>A Meningococcal Conjugate C refused</i> documented in the past 12 months)

PROPERTY	VALUE	VALUE	VALUE
		<p>past 12 months</p> <p><b>AND WITHOUT MMR refused</b> documented in the past 12 months</p> <p><b>AND WITHOUT Varicella refused</b> documented in the past 12 months</p>	<p><b>OR</b></p> <p>(less than 1 instance of MMR documented <b>AND</b></p> <p>An <i>MMR refused</i> documented in the past 12 months)</p> <p><b>OR</b></p> <p>(less than 1 instance of Varicella documented <b>AND</b></p> <p>A <i>Varicella refused</i> documented in the past 12 months)</p> <p>)</p>
Indicator Segment Query Notes	<p><b>Active Patients</b> are patients identified as 'Active' in the Patient Status data element (<i>DE01.016</i>) within <i>Patient Demographics</i>.</p> <p><b>Patient Age</b> 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 (<i>DE01.007</i>) within <i>Patient Demographics</i>.</p> <p><b>DTaP-IPV-Hib , Pneumococcal conjugate, Meningococcal Conjugate C, Measles/Mumps/Rubella (MMR), Varicella</b> are documented within <i>Immunizations (DE08)</i>, and are identified either by <i>Immunization Name (DE08.001)</i>, <i>Immunization Code (DE08.002)</i> or <i>Immunization Type (DE08.003)</i> <b>WHERE</b> data element <i>Refused Indicator (DE08.011)</i> identifies the immunization as 'administered'.</p> <p><b>DTaP-IPV-Hib Refused, Pneumococcal conjugate Refused, Meningococcal Conjugate C Refused, MMR Refused, Varicella Refused</b> are documented within <i>Immunizations (DE08)</i>, and are identified either by <i>Immunization Name (DE08.001)</i>, <i>Immunization Code (DE08.002)</i> or <i>Immunization Type (DE08.003)</i> <b>WHERE</b> data element <i>Refused Indicator (DE08.011)</i> identifies the immunization as 'refused'.</p>		
Patient List Criteria	<b>Mandatory</b> Patient Name	<b>Mandatory</b> Patient Name	<b>Mandatory</b> Patient Name



PROPERTY	VALUE	VALUE	VALUE
	Unique Patient Identifier  <b>Optional</b> Patient Date of Birth Patient Age Patient Phone Number Patient Enrollment Status Patient Enrollment Status Date DTaP Count Pneumococcal Count Meningococcal Count MMR Count Varicella Count Rotavirus Count	Unique Patient Identifier  <b>Optional</b> Patient Date of Birth Patient Age Patient Phone Number Patient Enrollment Status Patient Enrollment Status Date DTaP Count Pneumococcal Count Meningococcal Count MMR Count Varicella Count Rotavirus Count	Unique Patient Identifier  <b>Optional</b> Patient Date of Birth Patient Age Patient Phone Number Patient Enrollment Status Patient Enrollment Status Date DTaP Count DTaP Refusal Pneumococcal Count Pneumococcal Refusal Meningococcal Count Meningococcal Refusal MMR Count MMR Refusal Varicella Count Varicella Refusal Rotavirus Count Rotavirus Refusal
Patient List Notes	<b>Patient Name</b> 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.		

PROPERTY	VALUE	VALUE	VALUE
	<p><b>Unique Patient Identifier</b> 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><b>Patient Date of Birth</b> is captured into <i>Patient Demographics</i> as Date of Birth (<i>DE01.007</i>).</p> <p><b>Patient Age</b> is 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><b>Patient Phone Number</b> 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><b>Patient Enrollment Status</b> represents whether the patient is currently enrolled, was enrolled but has been terminated, or has never been enrolled, and is captured into <i>Patient Demographics</i> as Enrollment Status (<i>DE01.019</i>).</p> <p><b>Patient Enrollment Status Date</b> represents the date when a patient has been most recently enrolled or terminated by the clinic. If the patient is currently enrolled, then the date displayed will be the Enrollment Date (<i>DE01.020</i>) from <i>Patient Demographics</i>. If the patient is currently terminated, then the date displayed will be the Enrollment Termination Date (<i>DE01.021</i>) from <i>Patient Demographics</i>. If the patient has never been enrolled, then the date will be displayed as a null or blank value.</p> <p><b>DTaP Count</b> is the count of documented <i>DTaPIPv- Hib</i> immunizations administered between age 18-29 months.</p> <p><b>Pneumococcal Count</b> is the count of documented <i>Pneumococcal conjugate</i> immunizations administered between age 18-29 months.</p> <p><b>Meningococcal Count</b> is the count of documented <i>Meningococcal Conjugate C</i> immunizations administered between age 18-29 months.</p> <p><b>MMR Count</b> is the count of documented <i>Measles/Mumps/Rubella</i> immunizations administered between age 18-29 months.</p> <p><b>Varicella Count</b> is the count of documented <i>Varicella</i> immunizations administered between age 18-29 months.</p> <p><b>Rotavirus Count</b> is the count of documented <i>Rotavirus</i> immunizations administered between age 18-29 months.</p>		

PROPERTY	VALUE	VALUE	VALUE
	<p><b>DTaP Refusal</b> displays whether a <i>DTaP-IPV-Hib Refused</i> has been documented in the past 12 months.</p> <p><b>Pneumococcal Refusal</b> displays whether a <i>Pneumococcal conjugate Refused</i> has been documented in the past 12 months.</p> <p><b>Meningococcal Refusal</b> displays whether a <i>Meningococcal Conjugate C Refused</i> has been documented in the past 12 months.</p> <p><b>MMR Refusal</b> displays whether an <i>MMR Refused</i> has been documented in the past 12 months.</p> <p><b>Varicella Refusal</b> displays whether a <i>Varicella Refused</i> has been documented in the past 12 months.</p> <p><b>Rotavirus Refusal</b> displays whether a <i>Rotavirus Refused</i> has been documented in the past 12 months.</p> <p>Display options for immunization refusal columns may include 'Refused', 'Yes', 'Y', etc. or the date when the most recent refusal was documented.</p> <p><b>Rotavirus</b> is included in the patient list criteria even though it is not required as part of the Complete criteria.</p>		