

# Concurrent Use Of NSAID, RAS Drug, and Diuretic

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	2020-01-31	<ul style="list-style-type: none"> <li>Initial Release</li> </ul>
2.0	2020-06-15	<ul style="list-style-type: none"> <li>Shortened indicator name to use RAS in place of Renin-angiotensin System</li> <li>Removal of Description and Indicator User Help content. Content will be maintained within a separate document in the i4C Dashboard Indicator Library.</li> </ul>

## 2. INDICATOR DEFINITION

### 2.1 Indicator Properties

PROPERTY	VALUE
Indicator ID	MED-OTH-003
Indicator Name	Concurrent Use Of NSAID, RAS Drug, and Diuretic
Indicator Version	2.0
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 Indicator Library.
Source	NHS
Source Description	Based on UK National Health Service Safety Indicators Specification published in 2019.
Status	Active
Category	Medication Management
Subcategory	Other Drugs

Indicator Order	3
Indicator Graphic Type	Pie, Bar, or Stacked Bar Chart
Indicator Graphic Notes	<p>Indicator can be displayed as an individual pie chart or bar chart, or as a stacked bar chart representing the following group of indicators:</p> <p>MED-OTH-001, MED-OTH-002, MED-OTH-003, MED-OTH-004</p> <p>For the stacked bar option, each bar must be labelled with the indicator name and each bar segment represents an indicator segment.</p>
Indicator User Help	User Help content is now maintained in a separate document within the i4C Dashboard Indicator Library.
Indicator Query Segment Notes	<p>ACTIVE PATIENTS are patients identified as 'Active' in the Patient Status data element (DE01.016) within Patient Demographics.</p> <p>NSAID is a patient medication recorded in Medications (DE09)  AND is identified by any of the following text within the brand or generic medication name (DE09.003): "benzylamine", "bromfenac", "diclofenac", "flurbiprofen", "ibuprofen", "nepafenac", "naproxen", or "ketorolac".</p> <p>ARB is a patient medication recorded in Medications (DE09)  AND is identified by any of the following text within the brand or generic medication name (DE09.003): "Azilsartan medoxomil", "Candesartan", "Eprosartan", "Irbesartan", "Losartan", "Olmesartan", "Telmisartan", or "Valsartan".</p> <p>ACE INHIBITOR is a patient medication recorded in Medications (DE09)  AND is identified by any of the following text within the brand or generic medication name (DE09.003): "Benazepril", "Captopril", "Cilazapril", "Enalapril", "Fosinopril", "Lisinopril", "Perindopril", "Quinapril", "Ramipril", or "Trandolapril".</p> <p>DIURETIC is a patient medication recorded in Medications (DE09)  AND is identified by any of the following text within the brand or generic medication name (DE09.003): "acetazolamide", "brinzolamide", "dorzolamide", "methazolamide", "bumetanide", "etacrynic acid", "furosemide", "torsemide", "amiloride", "triamterene", "Hydrochlorothiazide", "Methyclothiazide", "Bendroflumethiazide", "Benzthiazide", "Cyclothiazide", "Hydroflumethiazide", "Chlorothiazide", "Trichlormethiazide", "Diazoxide", or "Polythiazide".</p> <p>CURRENT NSAID PRESCRIPTION is an NSAID medication recorded in Medications (DE09) AND is not a Past Medication (DE09.017).</p>

	<p>CURRENT ARB PRESCRIPTION is an ARB medication recorded in Medications (DE09) AND is not a Past Medication (DE09.017) .</p> <p>CURRENT ACE PRESCRIPTION is an ACE medication recorded in Medications (DE09) AND is not a Past Medication (DE09.017) .</p> <p>CURRENT DIURETIC PRESCRIPTION is a Diuretic medication recorded in Medications (DE09) AND is not a Past Medication (DE09.017) .</p>
<p>Patient List Notes</p>	<p>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.</p> <p>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)</p> <p>PATIENT DATE OF BIRTH is captured into Patient Demographics as Date of Birth (DE01.007)</p> <p>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.</p> <p>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.</p> <p>CURRENT NSAID MEDICATIONS is a concatenated listing of medication names (DE09.003), along with (if possible) either the Prescription Written Date (DE09.001) or Start Date (DE09.002) of Current NSAID Prescriptions.</p> <p>CURRENT RAS ANTAGONIST MEDICATIONS is a concatenated listing of medication names (DE09.003), along with (if possible) either the Prescription Written Date (DE09.001) or Start Date (DE09.002) of Current ACE and Current ARB Prescriptions.</p> <p>CURRENT DIURETIC MEDICATIONS is a concatenated listing of medication names (DE09.003), along with (if possible) either the Prescription Written Date (DE09.001) or Start Date (DE09.002) of Current Diuretic Prescriptions.</p>

## 2.2 Indicator Segment Properties

Indicator Segment ID	Indicator Segment Label	Display Indicator Segment	Indicator Segment Query Criteria	Patient List Criteria
1	Current NSAID, RAS antagonist, and diuretic	Yes	COUNT OF: Active patients WITH one or more current NSAID prescriptions AND WITH ( one or more current ARB prescriptions OR one or more current ACE prescriptions) AND WITH one or more current diuretic prescriptions	<b>Mandatory</b> Patient Name Unique Patient Identifier Patient Date of Birth  <b>Optional</b> Patient Age Patient Phone Number Current NSAID Medications Current RAS Antagonist Medications Current Diuretic Medications
2	Current NSAID and RAS antagonist only	Yes	COUNT OF: Active patients WITH one or more current NSAID prescriptions AND WITH ( one or more current ARB prescriptions OR one or more current ACE prescriptions) AND WITHOUT one or more current diuretic prescriptions	<b>Mandatory</b> Patient Name Unique Patient Identifier Patient Date of Birth  <b>Optional</b> Patient Age Patient Phone Number Current NSAID Medications Current RAS Antagonist Medications
3	Current NSAID and diuretic only	Yes	COUNT OF: Active patients WITH one or more current NSAID prescriptions AND WITHOUT one or more current ARB prescriptions	<b>Mandatory</b> Patient Name Unique Patient Identifier Patient Date of Birth

Indicator Segment ID	Indicator Segment Label	Display Indicator Segment	Indicator Segment Query Criteria	Patient List Criteria
			AND WITHOUT one or more current ACE prescriptions AND WITH one or more current diuretic prescriptions	<b>Optional</b> Patient Date of Birth Patient Age Patient Phone Number Current NSAID Medications Current Diuretic Medications
4	Current NSAID only	Yes	COUNT OF: Active patients WITH one or more current NSAID prescriptions AND WITHOUT one or more current ARB prescriptions AND WITHOUT one or more current ACE prescriptions AND WITHOUT one or more current diuretic prescriptions	<b>Mandatory</b> Patient Name Unique Patient Identifier  <b>Optional</b> Patient Date of Birth Patient Age Patient Phone Number Current NSAID Medications