

# Chronic Disease Management Patient Care Treatment Indicators Guide

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Version 4.0  
Updated Jan 2021

## Introduction

This document has been created to identify the indicators required to assess the medical claim tariff billed against the chronic disease management patient care treatment forms. The purpose of this document is to describe the indicators that Manitoba Health, Seniors and Active Living has adopted for measuring quality processes in primary care, and which are currently used in conjunction with the chronic disease tariff billed through the Medical Claims Department in the Insured Benefits Branch. It identifies the data required to fulfill the requirements of the tariff.

These indicators are organized into the following categories:

- Diabetes Management
- Congestive Heart Failure Management
- Hypertension Management
- Coronary Artery Disease Management
- Asthma Management

The following sections describe each of the indicators in their respective categories.

## Demographic Information

The patients who are included in these calculations are patients who have a valid Personal Health Identification Number, gender and birth date within the Manitoba Health Insurance Registry. These patients have received a Chronic Disease Management (CDM) service for one or more of the CDM tariffs included in this Chronic Disease Management Patient Care Treatment Indicator Guide,

## Diabetes Management

| <b>1.01 Diabetes Identification</b> |  |
|-------------------------------------|--|
| Numerator                           | Count if (diabetes in problem list = true)   |
| Denominator                         | Patients with diabetes<br>Count if (Tariff 8431 has been claimed for this patient in the past 12 months) |
| Indicator Description               | Patients who have received a CDM service for diabetes and have diabetes in their EMR problem list        |

| <b>1.02 Obesity/Overweight Screening</b> |   |
|--|---|
| Numerator                                | Patients with diabetes who have received an obesity/overweight screening in the preceding 12 months of the tariff service date<br>Count if (tariff service date - last obesity screening <=12 months) |
| Denominator                              | Patients with diabetes<br>Count if (Tariff 8431 has been claimed for this patient in the past 12 months)  |
| Indicator Description                    | Patients with diabetes who have received an obesity/overweight screening in the preceding 12 months of the tariff service date  |

| <b>1.03 Blood Pressure Measurement</b> |   |
|--|---|
| Numerator                              | Patients with diabetes who have had a blood pressure measurement taken in the preceding 12 months of the tariff service date<br>Count if (tariff service date - last blood pressure measurement date <=12 months) |
| Denominator                            | Patients with diabetes<br>Count if (Tariff 8431 has been claimed for this patient in the past 12 months)  |
| Indicator Description                  | Patients with diabetes who have had a blood pressure measurement taken in the preceding 12 months of the tariff service date  |

| <b>1.04 Foot Exams</b> |  |
|------------------------|--|
| Numerator              | Patients with diabetes who have had a foot exam taken in the preceding 12 months of the tariff service date<br>Count if ((tariff service date - last foot exam date <= 12 months) OR (Documented Neuropathy = true)) |
| Denominator            | Patients with diabetes<br>Count if (Tariff 8431 has been claimed for this patient in the past 12 months)   |
| Indicator Description  | Patients with diabetes who have had a foot exam in the preceding 12 months of the tariff service date  |

| <b>1.05 A1c</b>       |  |
|-----------------------|--|
| Numerator             | Patients with diabetes who have had an A1c test in the preceding 12 months of the tariff service date<br>Count if (tariff service date - last HGB A1C test <= 12 months) |
| Denominator           | Patients with diabetes<br>Count if (Tariff 8431 has been claimed for this patient in the past 12 months)   |
| Indicator Description | Patients with diabetes who have had an A1c test in the preceding 12 months of the tariff service date  |

| <b>1.06 Fundoscopic Exams</b> |  |
|-------------------------------|--|
| Numerator                     | Patients 15 years of age and over with diabetes who have had a fundoscopic exam or a referral for a fundoscopic exam in the preceding 12 months of the tariff service date<br>Count if ((tariff service date - last fundoscopic exam (or fundoscopic referral) <=12 months) & (Age >= 15)) |
| Denominator                   | Patients 15 years of age and over with diabetes<br>Count if ((Tariff 8431 has been claimed for this patient in the past 12 months) & (Age >=15))   |
| Indicator Description         | Patients 15 years of age and over with diabetes who have had a fundoscopic exam or a referral for a fundoscopic exam in the preceding 12 months of the tariff service date   |

| <b>1.07 Lipid Profile Screening</b> |  |
|-------------------------------------|--|
| Numerator                           | Patients 74 years of age or under with diabetes who have had a lipid test in the preceding 60 months of the tariff service date<br>Count if ((tariff service date - last full fasting lipid test <=60 months) & (Age <=74))                      |
| Denominator                         | Patients 74 years of age or under with diabetes and no statins prescribed in the last 12 months<br>Count if ((Tariff 8431 has been claimed for this patient in the past 12 months) & (Age <=74)) and no Statins prescribed in the last 12 months |
| Indicator Description               | Patients 74 years of age or under with diabetes and not on Statins who have had a lipid test in the preceding 12 months of the tariff service date   |

| <b>1.08 Nephropathy Screening</b> |  |
|-----------------------------------|--|
| Numerator                         | Patients 12 to 74 years of age with diabetes who have had nephropathy screening in the preceding 12 months of the tariff service date<br>Count if ((tariff service date - last Nephropathy test <=12 months) OR (Documented Nephropathy = true) & (Age >= 12 and Age<=74)) |
| Denominator                       | Patients 12 to 74 years of age with diabetes<br>Count if ((Tariff 8431 has been claimed for this patient in the past 12 months) & (Age >= 12 and Age <=74))  |
| Indicator Description             | Patients 12 to 74 years of age with diabetes who have had nephropathy screening in the past 12 months  |

## Congestive Heart Failure Management

| <b>2.01 Congestive Heart Failure Identification</b> |  |
|---|--|
| Numerator   | Count if (Congestive Heart Failure in problem list = true)   |
| Denominator   | Patients 18 years of age and over with congestive heart failure<br>Count if ((Tariff 8433 has been claimed for this patient in the past 12 months) & (Age >=18)) |
| Indicator Description                               | Patients 18 years of age and over who have received a CDM service for congestive heart failure and have congestive heart failure in their EMR problem list       |

| <b>2.02 Obesity/Overweight Screening</b> |  |
|--|--|
| Numerator                                | Patients 18 years of age and over with congestive heart failure who have received an obesity/overweight screening in the preceding 12 months of the tariff service date<br>Count if ((tariff service date - last obesity screening <= 12 months) & (Age >=18)) |
| Denominator                              | Patients 18 years of age and over with congestive heart failure<br>Count if ((Tariff 8433 has been claimed for this patient in the past 12 months) & (Age >=18))   |
| Indicator Description                    | Patients 18 years of age and over with congestive heart failure who have received an obesity/overweight screening in the preceding 12 months of the tariff service date  |

| <b>2.03 Blood Pressure Measurement</b> |   |
|--|---|
| Numerator                              | Patients 18 years of age and over with congestive heart failure who have had a blood pressure measurement taken in the preceding 12 months of the tariff service date<br>Count if ((tariff service date - last blood pressure measurement <= 12 months) & (Age >=18)) |
| Denominator                            | Patients 18 years of age and over with congestive heart failure<br>Count if ((Tariff 8433 has been claimed for this patient in the past 12 months) & (Age >=18))  |
| Indicator Description                  | Patients 18 years of age and over with congestive heart failure who have had a blood pressure measurement taken in the preceding 12 months of the tariff service date   |

| <b>2.04 ACE Inhibitor</b> |   |
|---------------------------|---|
| Numerator                 | Patients 18 years of age and over with congestive heart failure who are using ACE inhibitors or ARB in the last 12 months or have been reviewed for exemptions from using ACE inhibitors /ARB (LVEF=>40% and or any other in the last 12 months<br>Count if ((Using ACE inhibitors or ARB = true) or (reviewed exemptions from ACE inhibitor /ARB <=12 months) & (Age >=18) & (tariff service date – last visit date <= 12 months)) |
| Denominator               | Patients 18 years of age and over with congestive heart failure<br>Count if ((Tariff 8433 has been claimed for this patient in the past 12 months) & (Age >=18))  |
| Indicator Description     | Patients 18 years of age and over with congestive heart failure who have been reviewed for exemptions from using ACE Inhibitor/ARB or who are using ACE inhibitors or ARB in the last 12 months   |

| <b>2.05 Lipid Profile Screening</b> |  |
|-------------------------------------|--|
| Numerator                           | Patients 18 to 74 years of age with congestive heart failure who have had a lipid test in the preceding 60 months of the tariff service date<br>Count if ((tariff service date - last lipids test <= 60 months)<br>& (Age >=18 and Age <=74))                                |
| Denominator                         | Patients 18 to 74 years of age with congestive heart failure and no Statins prescribed in the last 12 months<br>Count if ((Tariff 8433 has been claimed for this patient in the past 12 months)<br>& (Age >=18 and Age <=74)) and no statin prescribed in the last 12 months |
| Indicator Description               | Patients 18 to 74 years of age with congestive heart failure and not on Statins who have had a lipid test in the preceding 60months of the tariff service date   |

## Hypertension Management

| <b>3.01 Hypertension Identification</b> |  |
|---|--|
| Numerator                               | Count if (hypertension in problem list = true)   |
| Denominator                             | Patients 18 years of age and over with hypertension<br>Count if ((Tariff 8435 has been claimed for this patient in the past 12 months) & (Age >=18)) |
| Indicator Description                   | Patients who have received a CDM service for hypertension and have hypertension in their EMR problem list.   |

| <b>3.02 Obesity/Overweight Screening</b> |  |
|--|--|
| Numerator                                | Patients 18 years of age and over with hypertension who have received an obesity/overweight screening in the preceding 12 months of the tariff service date<br>Count if ((tariff service date - last obesity screening <= 12 months) & (Age >=18)) |
| Denominator                              | Patients 18 years of age and over with hypertension<br>Count if ((Tariff 8435 has been claimed for this patient in the past 12 months) & (Age >=18))   |
| Indicator Description                    | Patients 18 years of age and over with hypertension who have received an obesity/overweight screening in the preceding 12 months of the tariff service date  |

| <b>3.03 Blood Pressure Measurement</b> |   |
|--|---|
| Numerator                              | Patients 18 years of age and over with hypertension who have had a blood pressure measurement taken in the preceding 12 months of the tariff service date<br>Count if ((tariff service date - last blood pressure measurement <= 12 months) & (Age >=18)) |
| Denominator                            | Patients 18 years of age and over with hypertension<br>Count if ((Tariff 8435 has been claimed for this patient in the past 12 months) & (Age >=18))  |
| Indicator Description                  | Patients 18 years of age and over with hypertension who have had a blood pressure measurement taken in the preceding 12 months of the tariff service date   |

| <b>3.04 Lipid Profile Screening</b> |  |
|-------------------------------------|--|
| Numerator                           | <p>Patients 18 to 74 years of age with hypertension without lipid exemptions who have had a lipid test in the preceding 60 months of the tariff service date</p> <p>Count if ((tariff service date - last lipids test &lt;= 60 months)<br/>&amp; (Age &gt;=18 and Age &lt;=74))</p>  |
| Denominator                         | <p>Patients 18 to 74 years of age with hypertension without lipid exemptions and no statins prescribed in last 12 months</p> <p>Count if ((Tariff 8435 has been claimed for this patient in the past 60 months)<br/>&amp; (Age &gt;=18 and Age &lt;=74)) and lipid test exemptions = blank and no statins prescribed in last 12 months</p> |
| Indicator Description               | <p>Patients 18 to 74 years of age with hypertension without exemptions for lipid screening and are not on statins who have had a lipid test in the preceding 60 months of the tariff service date</p>  |

| <b>3.06 Test to detect renal dysfunction (e.g. serum creatinine)</b> |  |
|--|--|
| Numerator  | <p>Patients 18 to 74 years of age with hypertension who have had a test to detect renal dysfunction in the preceding 12 months of the tariff service date</p> <p>Count if ((tariff service date - last test to detect renal dysfunction &lt;=12 months)<br/>&amp; (Age &gt;=18 and Age &lt;= 74 ))</p> |
| Denominator  | <p>Patients 18 to 74 years of age with hypertension</p> <p>Count if ((Tariff 8435 has been claimed for this patient in the past 12 months)<br/>&amp; (Age &gt;=18 and Age &lt;=74))</p>  |
| Indicator Description  | <p>Patients 18 to 74 years of age with hypertension who have had a test to detect renal dysfunction in the preceding 12 months of the tariff service date</p>  |



## Coronary Artery Disease Management

| <b>4.01 Coronary Artery Disease Identification</b> |   |
|--|---|
| Numerator  | Count if (Coronary Artery Disease in problem list = true)   |
| Denominator  | Patients 18 years of age and over with coronary artery disease<br>Count if ((Tariff 8434 has been claimed for this patient in the past 12 months) & (Age >=18)) |
| Indicator Description                              | Patients who have received a CDM service for coronary artery disease and have coronary artery disease in their problem list                                     |

| <b>4.02 Obesity/Overweight Screening</b> |   |
|--|---|
| Numerator                                | Patients 18 years of age and over with coronary artery disease who have received an obesity/overweight screening in the preceding 12 months of the tariff service date<br>Count if ((tariff service date - last obesity screening <= 12 months) & (Age >=18)) |
| Denominator                              | Patients 18 years of age and over with coronary artery disease<br>Count if ((Tariff 8434 has been claimed for this patient in the past 12 months) & (Age >=18))   |
| Indicator Description                    | Patients 18 years of age and over with coronary artery disease who have received an obesity/overweight screening in the preceding 12 months of the tariff service date  |

| <b>4.03 Blood Pressure Measurement</b> |  |
|--|--|
| Numerator                              | Patients 18 years of age and over with coronary artery disease who have had a blood pressure measurement taken in the preceding 12 months of the tariff service date<br>Count if ((tariff service date - last blood pressure measurement <= 12 months) & (Age >=18)) |
| Denominator                            | Patients 18 years of age and over with coronary artery disease<br>Count if ((Tariff 8434 has been claimed for this patient in the past 12 months) & (Age >=18))  |
| Indicator Description                  | Patients 18 years of age and over with coronary artery disease who have had a blood pressure measurement taken in the preceding 12 months of the tariff service date   |

| <b>4.05 Lipid profile screening</b> |  |
|-------------------------------------|--|
| Numerator                           | Patients 18 to 74 years of age and over with coronary artery disease who have a lipid test in the preceding 60 months of the tariff service date<br><br>Count if ((tariff service date - last lipid test <= 60 months)<br>& (Age >=18 and Age <=74)) |
| Denominator                         | Patients 18 to 74 years of age and over with coronary artery disease and no statins prescribed in the past 12 months<br><br>Count if ((Tariff 8434 has been claimed for this patient in the past 12 months)<br>& (Age >=18 and Age <=74))            |
| Indicator Description               | Patients 18 to 74 years of age and over with coronary artery disease and not on statins who have a lipid test in the preceding 60 months of the tariff service date  |

| <b>4.06 Lipid Reduction Counselling</b> |  |
|---|--|
| Numerator                               | Patients between 18 and 74 years of age with coronary artery disease and with LDL levels greater than 2.0 mmol/L or non-HDL level greater than 2.8 mmol/L within the last 12 months who have received lipid reduction counselling or a prescription for lipid lowering medication within the preceding 12 months of the tariff service date<br><br>Count if ((LDL Level >2.0 mmol/L or non HDL level > 2.8mmol/L within the last 12 months)<br>& ((Date of Last Lipid Reduction Counselling given <= 12 months) OR (Last lipid lowering medication prescription date <= 12 months)<br>& (Age >=18 and Age <=74)) |
| Denominator                             | Patients between 18 and 74 years of age with coronary artery disease and with LDL levels greater than 2.0 mmol/L or non HDL levels >2.8 mmol/L within the last 12 months<br><br>Count if ((Tariff 8434 has been claimed for this patient in the past 12 months)<br>& (LDL Level >2.0 mmol/L or non HDL levels > 2.8mmol within the last 12 months)<br>& (Age >=18 and Age <=74))   |
| Indicator Description                   | Patients between 18 and 74 years of age with coronary artery disease and with LDL levels greater than 2.0 mmol/L or non-HDL level greater 2.8 mmol/L within the last 12 months who have received lipid reduction counselling or a prescription for lipid lowering medication within the past 12 months   |

## Asthma Management

| <b>5.01 Asthma Identification</b> |  |
|-----------------------------------|--|
| Numerator                         | Count if (asthma in problem list = true)   |
| Denominator                       | Patients with asthma<br>Count if (Tariff 8432 has been claimed for this patient in the past 12 months) |
| Indicator Description             | Patients who have received a CDM service for asthma and have asthma in their EMR problem list          |

| <b>5.02 Patients with Asthma Action Plans</b> |   |
|---|---|
| Numerator                                     | Patients 6 to 55 years of age and over with asthma who have had an asthma action plan created or asthma care reviewed in the preceding 12 months of the tariff service date<br>Count if ((tariff service date – asthma action plan created or asthma care reviewed <= 12 months)<br>&(age>=6 and age<=55) |
| Denominator                                   | Patients 6 to 55 years of age with asthma<br>Count if ((Tariff 8432 has been claimed for this patient in the past 12 months)<br>&(age>=6 and age<=55))  |
| Indicator Description                         | Patients with asthma who have received asthma action plan or asthma care reviewed in the preceding 12 months of the tariff service date   |

## Revision Log

| Version No. | Description of Revision  | Date of Revision |
|-------------|--|------------------|
| 4.0         | <p>Changes have been made to align the CDM indicator guide with PCQI Guide Version 4.0</p> <p>Indicator 1.05 - A1c testing in Diabetes Management - age restrictions removed</p> <p>Indicator 1.07 - Full Fasting Lipid Profile Screening in Diabetes Management - removed the criteria for full fasting, changed age range from 18-74 years to 74 years and under, timeframe for testing changed from 12 months to 60 months for testing and exemption of statins added</p> <p>Indicator 1.08 - Nephropathy Screening in Diabetes Management - changed age range from 74 and over to 12 - 74 years</p> <p>Indicator 2.04 - ACE Inhibitor in Congestive Heart Failure management added exemptions for ACE Inhibitor/ARB prescription</p> <p>Indicator 2.05 - Full Fasting Lipid Profile Screening in Congestive Heart Failure management - removed the criteria for full fasting, timeframe for testing changed from 12 months to 60 months for testing and exemption of statins added</p> <p>Indicator 2.06 Diabetes Screening in Congestive Heart Failure management removed</p> <p>Indicator 3.04 - Full Fasting Lipid Profile Screening in Hypertension management - removed the criteria for full fasting, timeframe for testing changed from 12 months to 60 months for testing and exemption of statins added</p> <p>Indicator 3.05 - Diabetes Screening in Hypertension management removed</p> <p>Indicator 3.06 - Test to detect renal dysfunction (e.g. serum creatinine) age range changed from 18 and over to 18-74 years of age</p> <p>Indicator 4.04 - Beta blockers in CAD management removed</p> <p>Indicator 4.05 - Full Fasting Lipid Profile Screening in Coronary Artery Disease management - removed the criteria for full fasting, timeframe for testing changed from 12 months to 60 months for testing and exemption of statins added</p> <p>Indicator 4.06 - Lipid Reduction Counseling in CAD Management - non HDL Levels added</p> <p>Indicator 4.07 Diabetes Screening in CAD management removed</p> | Jan 2021         |
| 2.2.1       | There was a correction made to the calculation in indicator 4.07, A1c screenings were added as an acceptable method to screen for diabetes.  | May 2015         |
| 2.2         | <p>Previous version of the these indicators did not address the supplementary data that was required for tariff 8432. The Section on "Asthma Management" was added to address this issue</p> <ul style="list-style-type: none"> <li>• Indicator 5.01 was added – the identification of asthma in the patient’s problem list</li> <li>• Indicator 5.02 was added – the conformation that an asthma patient has an asthma action plan and that it has been visited in the 12 months prior to the claiming of tariff 8432</li> </ul> <p>Clinical best practice states that either a fasting blood sugar or A1c screening can be used to test for diabetes. Indicators 2.06, 3.05, 4.07 have been changed to reflect that.</p> <p>There was a wording change to indicator 2.04 formula.</p> <p>Some formatting changes were made to this indicator guide to improve this document’s overall look and consistency.</p>  | March 2015       |
| 2.1         | Prior to version 2.2 there is no Revision History  |                  |