

## AMCARE Scorecard

Revised: December 2016

### How the AMCARE Scorecard Works:

- Aggregated Metrics for Clinical Analysis Research and Evaluation (AMCARE) uses an established Quality Metrics Framework (QMF) to provide primary care physicians with metrics and information to aid them in primary health care improvements for Northern British Columbia.
- The AMCARE Scorecard is an audit of the entire practice according to best practice guidelines in areas of Prevention, Screening, and Chronic Disease Management, along with the demographic breakdown of practice.
- Each Item of the AMCARE Scorecard and all the Performed and Eligible tallies within each item are managed by Concepts.
- Concept Mapping is found in the Administration module, and is user-editable, meaning clinics can add their own codes to concepts and create their own, new concepts. As such, the specific elements in each concept may differ between clinics.
- When running the AMCARE Scorecard Report in MOIS, the top section of the report shows a breakdown of the Age/Sex Registry of your patient panel. For each age/sex category, the total number of contacts and the average number of contacts per patient are listed. The Number of Contacts is the total number of encounters within the specified lookback period, excluding all encounters with a C, R, or N (cancelled, rescheduled, or no show) appointment status. The Contacts/Pt is the number of contacts (encounters) divided by the total number of patients within that age/sex category.

### How Items are Displayed:

- The AMCARE Scorecard is divided into Sections (Prevention, Screening and CDM)
- Within each Section there are related Items, which are shown with a tally of Performed/Present, Eligible, and a percentage
- This percentage is derived using the Performed/Present tally as a numerator, and the Eligible tally as a denominator

- If you are unsure if particular records for a patient are included on the AMCARE Scorecard, **always check the concept**. The particular code used may not be included in the concept, and you may have to select an appropriate code for the patient to be included as part of the AMCARE Scorecard’s statistics.

**How to Read This Document:**

- This document provides a breakdown of each Item on the AMCARE Scorecard, and is controlled by concepts.
- Performed and Eligible items are the records that must be present in the patient’s chart for the patient to be included in that item on the AMCARE Scorecard.
- In brackets beside the concept name is the concept type, for example SMOKER (Health Issue) indicates that you would look at the Health Issue concept for “Smoker”

SECTION	ITEM	PERFORMED	ELIGIBLE
Prevention	Current Tobacco use age 12-19	SMOKER (Health Issue)	Age 12 to 19
Prevention	Current Tobacco use age > 19	SMOKER (Health Issue)	Age > 19
Prevention	Tobacco use documented in last 2 yrs age 12-19	CIGARETTES SMOKED PACKS PER DAY (Measure) In the last 2 years	12 to 19
Prevention	Tobacco use documented in last 2 yrs age > 19	CIGARETTES SMOKED PACKS PER DAY (Measure) In the last 2 years	Age > 19
Prevention	Overweight or Obese age 12-19	OBESITY (Health Issue)	Age 12 to 19
Prevention	Truncal Obesity age > 19	OBESITY (Health Issue)	Age > 19
Prevention	BMI or WC documented in last 2 yrs age 12 – 19	BMI (Measure) or WC (Measure) See formulas below.	Age 12 to 19
Prevention	BMI or WC documented in last 2 yrs age > 19	BMI( > 25) (Measure) or WC (> 80 for F and > 94 for M) (Measure) See formulas below.	Age > 19
Prevention	Physical Inactivity age 12-19	PHYSICAL ACTIVITY MINUTES PER WEEK (Measure) < 150	Age 12 – 19
Prevention	Physical Inactivity age > 19	PHYSICAL ACTIVITY MINUTES PER WEEK (Measure) < 150	Age > 19
Prevention	Activity documentation in last 2 yrs age 12 - 19	PHYSICAL ACTIVITY MINUTES PER WEEK (Measure) record in the last 2 yrs	Age 12 – 19

SECTION	ITEM	PERFORMED	ELIGIBLE
Prevention	Activity documentation in last 2 yrs age > 19	PHYSICAL ACTIVITY MINUTES PER WEEK (Measure) record in the last 2 yrs	Age > 19
Prevention	Pneumococcal Vaccination age 65+	PNEUMOCOCCAL VACCINE (Medication)	Age > 65
Prevention	Influenza Vaccination age 65+	INFLUENZA VACCINE (Medication)	> 65
Screening	Cervical Screening (F18-70)	PAP SMEAR (Measure)	Female age 18 to 70
Screening	Screening Mammogram (F50-70)	MAMMOGRAPHY (Image)	Female age 50 to 70)
Screening	Chlamydia Testing in last 12 months (F18-24)	CHLAMYDIA (Measure) in last 12 months	Female age 18 to 24
Screening	Chlamydia Test with POS result	CHLAMYDIA (Measure) in last 12 months with POSITIVE/DETECTED results	Female age 18 to 24
Screening	Colon Screening in last 2 yrs age 50-74	BOWEL ENDOSCOPY (Procedure)	Male age 50 to 74
Screening	Cholesterol in last 5 yrs (M35-65)	SERUM CHOLESTEROL (Measure) in last 5 years	Male age 35 to 65
Screening	Fasting blood sugar in last 3 yrs age > 45	FASTING GLUCOSE (Measure) in last 3 years	Age is > 45
Screening	Abdominal Aortic Aneurism Screening (M65-80)	ABDOMINAL IMAGING (Image)	Male age 65 to 80
Screening	HIV Screening age 18-70 in last year (Males)	HIV 1 + 2 ANTIBODY (Measure)	Male Age 28 to 70
Screening	Osteoporosis Assessment in last 5 yrs (F60-79)	OSTEOPOROSIS SCREENING (Measure) Or BONE DENSITY MEASUREMENT (Image)	Female Age 60 to 79
Screening	HIV Screening age 18-70 in last year (Females)	HIV 1 + 2 ANTIBODY (Measure)	Female age 18 to 70
Screening	STI/BBP testing and associated HIV test over one year	HIV 1 + 2 ANTIBODY (Measure) within 1 yr of STI/BBP	STI/BBP (Measure)
Screening	PHARMACOLOGY – 65 yrs and 5+ meds	MORE THAN 5 Long Term Medications	Age > 65
Screening	PHARMACOLOGY – 65 yrs and 10+ meds	More than 10 Long Term Medications	Age > 65
CDM	Diabetics with HGBA1C in last 6 mo	HGBA1C (Measure) in last 6 months	Diabetes (Health Issue)
CDM	Diabetics with HGBA1C in last yr <= 7.0	HGBA1C (Measure) in last year less than 7.0	Diabetes (Health Issue)
CDM	Diabetics with LDL in last yr <= 2.5	LDL (Measure) in the last year less than 2.5	Diabetes (Health Issue)
CDM	Diabetes & BP <= 130/80 in last yr	BP (Measure) in last year less than 130/80	Diabetes (Health Issue)

SECTION	ITEM	PERFORMED	ELIGIBLE
CDM	Diabetes & Triple Whammy in last yr	IF previous three are ALL 1, then this is 1.	Diabetes (Health Issue)
CDM	Hypertension & BP in last yr	BP (Measure) in the last yr	Hypertension (Health Issue)
CDM	Hypertension & BP <= 140/90 in last yr	BP in the last year and less than 140/90	Hypertension (Health Issue)
CDM	Asthma and FEV1 at anytime	SPIROMETRY (Measure) or FEV1PREB (Measure) or FEV1%POST (Measure) or FEV1/FVCPO (Measure)	ASTHMA (Health Issue)
CDM	Asthma and Peak Flow in last year	PEAK EXPIRATORY FLOW (Measure)	
CDM	Asthma and non-smoker	SMOKER (Health Issue)... if SMOKER documented, then this is FALSE. If SMOKER is not documented, the patient is counted as a NON-SMOKER.	ASTHMA (Health Issue)
CDM	COPD and pneumococcal vaccine	PNEUMOCOCCAL VACCINE (Medication)	COPD (Health Issue)
CDM	COPD and FEV1 at anytime	SPIROMETRY (Measure) or FEV1PREB (Measure) or FEV1%POST (Measure) or FEV1/FVCPO (Measure)	COPD (Health Issue)
CDM	COPD and non-smoker	NON-SMOKER (Health Issue)... if SMOKER documented, then this is FALSE. If SMOKER is not documented, the patient is counted as a NON-SMOKER.	COPD (Health Issue)
CDM	COPD and Activity Assessment in last year	PHYSICAL ACTIVITY MINUTES PER WEEK (Measure) in the last year	COPD (Health Issue)
CDM	CHF and WT Measured in last 6 months	WEIGHT (Measure) in last 6 months	CHF (Health Issue)
CDM	CHF and Ejection Fraction Measured in last 3 yrs	CARDIAC EJECTION FRACTION (Measure) in last 3 years	CHF (Health Issue)
CDM	CHF and BETABLOCKER	BETABLOCKER (Medication)	CHF (Health Issue)
CDM	CHF and ACEI	ACEI (Medication)	CHF (Health Issue)
CDM	CHRONIC PAIN – Opioids Use	OPIATES (Medication)	CHRONIC PAIN (Health Issue)
CDM	HEP C and RNA PCR Measured in last 2 yrs	HEP C RNA PCR in last 2 years	HEP C (Health Issue)
CDM	CALGFR < 60 and BP Measured in last 6 mo	BP on last 6 months	CALGFR (Measure) < 60
CDM	CKD & BP in last yr	BP (Measure) in the last year	CKD (Health Issue)
CDM	CKD & BP <= 130/80 in last yr	BP (Measure) < 130/80 in the last year.	CKD (Health Issue)
CDM	CKD with ALB/CR in last yr in target range	UALB/CR (Measure) in range: "M" <= 20 or "F" <=28	CKD (Health Issue)

SECTION	ITEM	PERFORMED	ELIGIBLE
CDM	Frailty and LOI assessment in last yr	LOI Assessment (intervention) in the last year	FRAILITY (Health Issue)
CDM	Frailty and falls assessment in last year	FALLS RISK (Intervention) in last year.	FRAILITY (Health Issue)
CDM	Schizophrenia/Bipolar and visit in last yr	Visit in the last year	PSYCHOTIC MENTAL DISORDER (Health Issue)
CDM	Depression and visit in last yr	Visit in the last year	DEPRESSION (Health Issue)
CDM	Unsafe drug – visit in last yr age 12 - 19	Visit in the last year	UNSAFE DRUG USE (Health Issue) Age 12 to 19
CDM	Unsafe drug use and visit in last yr age > 19	Visit in the last year	UNSAFE DRUG USE (Health Issue) Age > 19.
CDM	Unsafe alcohol use – visit in last yr age 12 – 19	Visit in the last year	UNSAFE ALCOHOL USE (Health Issue) age 12 to 19
CDM	Unsafe alcohol use – visit in last yr age > 19	Visit in the last year	UNSAFE ALCOHOL USE Age > 19
CDM	MENTAL HEALTH – GAF in last year	GAF (Measure) in the last year	DEPRESSION (Health Issue) PSYCHOTIC MENTAL DISORDER (Health Issue) CHRONIC ANXIETY (Health Issue)
CDM	Rheumatoid Arthritis – at least 1 RA Disease Activity in last year	RA DISEASE ACTIVITY (Measure)	RHEUMATOID ARTHRITIS (Health Issue)

When calculating Waist Circumference and BMI for the AMCARE Scorecard, MOIS uses the below calculations to determine if the patient will be included in the Performed or Eligible section of the AMCARE Scorecard.

**WC Formula:**

Females:

Measure > ((-0.0035\*(Patient Age X Patient Age X Patient Age))+(0.0108\*(Patient Age X Patient Age))+(3.1070\*Patient Age)+40.9896)

Males:

Measure > ((-0.0015\*(Patient Age X Patient Age X Patient Age))+(0.0238\*(Patient Age X Patient Age))+(2.3230\*Patient Age)+45.9768)

**BMI:**

Females

$$\text{BMI} > ((0.00029 * (\text{Patient Age} \times \text{Patient Age} \times \text{Patient Age} \times \text{Patient Age})) - (0.01797 * (\text{Patient Age} \times \text{Patient Age} \times \text{Patient Age})) + (0.37476 * (\text{Patient Age} \times \text{Patient Age})) - (2.39381 * \text{Patient Age}) + 21.45732)$$

Males:

$$\text{BMI} > ((0.00023 * (\text{Patient Age} \times \text{Patient Age} \times \text{Patient Age} \times \text{Patient Age})) - (0.01414 * (\text{Patient Age} \times \text{Patient Age} \times \text{Patient Age})) + (0.31110 * (\text{Patient Age} \times \text{Patient Age})) - (2.11861 * \text{Patient Age}) + 21.27104)$$

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