MCT2D Patient Population: Denominator and Numerator Descriptions

MCT2D POPULATION

Denominator

All patients included in the denominator for MCT2D measures meet the following criteria:

1.) *Commercial and Medicare Advantage patients
2.) Type 2 diabetes diagnosis
3.) ≥ 18 years old
4.) Most recent clinical hemoglobin A1c (HbA1c) ≥ 6.5 or claim A1c ≥ 7.0
5.) Diabetes medication filled within the past 6 months
6.) Excluded: patients with history of type 1 diabetes diagnosis

PATIENT CHARACTERISTICS

A1C (Hemoglobin A1C)   meas_id=2

Denominator	**Patients**	Patients with A1C value in the last 12 months.
Numerator	**Patients**	Most recent A1c value in the last 12 months.

A1C Value-Based Reimbursement (A1C VBR)   meas_id=108

Denominator	**Patients**	Patients in the baseline period who have an A1c result and are under the care of the same Primary Care Provider (PCP) during the measurement period.
Numerator	**Patients**	Most recent A1c result.

Body Mass Index (BMI)   meas_id=3

Denominator	**Patients**	Patients with BMI value during the 12-month reporting period.
Numerator	**Patients**	Most recent BMI value during the 12-month reporting period.

Continuous Glucose Monitor (CGM) meas_id=5

Denominator	**Patients**	Four Denominators reported: All Patients; Active Insulin Patients; Inactive Insulin patients; No Insulin Patients.
Numerator	**Patients**	Patients with CGM during the 12-month reporting period.

CGM Sensor Days   meas_id=27

Denominator	**Patients**	Patients with CGM Sensor Days during the 12 month reporting period, broken out by 4 different populations: All Patients; Active Insulin Patients; Inactive Insulin patients; No Insulin Patients.
Numerator	**Patients**	Sum of CGM Sensor Days in the 12-month reporting period.

Rx All (All Rx Measures)

Denominator	**Patients**	Patients with Rx coverage during the last month of the reporting period.
Numerator	**Patients**	Patients with specified Rx fill in last 6 months of the reporting period.

Rx Coverage (Pharmacy Drug Coverage) meas_id=21

Denominator	**Patients**	MCT2D-eligible patients.
Numerator	**Patients**	Patients with Rx coverage during the last month of the reporting period.

SGLT2i or GLP-1RA   meas_id =10 or 9

Denominator	**Patients**	Patients with Rx Coverage during the last month of the reporting period.
Numerator	**Patients**	Patients with either a SGLT2i or GLP-1RA Rx fill in the last 6 months of the reporting period.

Statins   meas_id=20

Denominator	**Patients**	Patients with Rx Coverage during the last month of the reporting period.
Numerator	**Patients**	Patients with Statin fill in last 6 months of the reporting period.

Weight (% Annual Change)	meas_id=4	
Denominator	**Patients**	Patients with two weight readings between 9 and 24 months apart. The most recent reading must fall within the 12-month reporting period.
Numerator	**Patients**	Annualized Percent Weight Change. For the historical weight, search in the range of -9 to -24 months for the weight that is closest to the 12-month mark to the current weight. Current weight is most recent reading that falls within the 12-month reporting period. If multiple readings on the same day, take the average.

MCT2D Patient Population: Denominator and Numerator Descriptions

MCT2D POPULATION

Denominator

All patients included in the denominator for MCT2D measures meet the following criteria:

1.) *Commercial and Medicare Advantage patients;
2.) Type 2 diabetes diagnosis.
3.) ≥ 18 years old.
4.) Most recent clinical hemoglobin A1c (HbA1c) ≥ 6.5 or claim A1c ≥ 7.0.
5.) Diabetes medication filled within the past 6 months.
6.) Excluded: patients with history of type 1 diabetes diagnosis.

PATIENT CHARACTERISTICS

Type 2 Diagnosis (meas_id=1)

Denominator	Patients	MCT2D-eligible patients.
Numerator	Patients	Patients with medical claim diagnosis of Type 2 diabetes in the reporting history.

Hemoglobin A1C (A1C) (meas_id=2)

Denominator	Patients	MCT2D-eligible patients.
Numerator	Patients	Clinical A1c values and service dates with values > 0 and ≤ 20.0 within the clinical reporting history.
		Note: Exclude any reported value with more than one decimal place.

Body Mass Index (BMI) (meas_id=3)

Denominator	Patients	MCT2D-eligible patients.
Numerator	Patients	BMI values and service dates within the clinical reporting history.

Medicare Status (meas_id=109)

Denominator	Patients	MCT2D-eligible population.
Numerator	Patients	Medicare enrollment status documented by participating Payers.

Weight	(meas_id=4)		
	Denominator	Patients	MCT2D-eligible patients.
	Numerator	Patients	Weight values and service dates within the clinical reporting history.
			Note: Weight results may vary based on clinical record unit of measure reported.

Pharmacy Drug Coverage	(meas_id=21)		
	Denominator	Patients	MCT2D-eligible patients.
	Numerator	Patients	Patient eligibility pharmacy coverage status for the last month of the reporting period.
			Note: Data can be updated retroactively by payer and does not include any identifiers for pharmacy carve-outs with a Pharmacy Benefit Manager (PBM).

Blood Pressure	(Systolic meas_id=22 ; Diastolic meas_id=23)		
	Denominator	Patients	MCT2D-eligible patients.
	Numerator	Patients	The lowest reported blood readings on the two most recent dates within the clinical reporting history.
			Note: Systolic and diastolic blood pressure readings are received and evaluated independently.

Retinopathy Screen	(meas_id=24)		
	Denominator	Patients	MCT2D-eligible patients.
	Numerator	Patients	Most recent service date with screening or monitoring for diabetic retinal disease (eye exam) as defined by HEDIS Comprehensive Diabetes Care Eye Exam numerator definition:
			*A retinal or dilated eye exam by an eye care professional (optometrist or ophthalmologist) in the measurement year.
			*A negative retinal or dilated eye exam (negative for retinopathy) by an eye care professional in the year prior to the measurement year.
			*Bilateral eye enucleation any time during the member's history through measurement year.
			Note: See MCT2D Retinopathy specification for specific details on qualifying criteria.

Chronic Kidney Disease (CKD) Diagnosis (meas_id=25)

	Denominator	**Patients**	MCT2D-eligible patients.
	Numerator	**Patients**	Patients with medical claim diagnosis of chronic kidney disease (CKD) in the claims' reporting history.

Nephrologist Flag (meas_id=26)

	Denominator	**Patients**	MCT2D-eligible patients.
	Numerator	**Patients**	Last nephrologist claim service date with flag on any patient with history of being under the care of a nephrologist within the claims' reporting history. *Note: Based on service provider and taxonomy codes and independent of the Primary Nephrologist criteria that qualifies patient participation.*

Weight (% Annual Change) (meas_id=4)

	Denominator	**Patients**	MCT2D-eligible patients.
	Numerator	**Patients**	Annualized Percent Weight Change. For the historical weight, search in the range of -9 to -24 months for the weight that is closest to the 12-month mark to the current weight. Current weight is most recent reading that falls within the 12-month reporting period. If multiple readings on the same day, take the average.

Weight (Unit Annual Change) (meas_id=2004)

	Denominator	**Patients**	MCT2D-eligible patients.
	Numerator	**Patients**	MCT2D-eligible patients.

Pharmacy Drug Coverage (meas_id=21)

	Denominator	**Patients**	MCT2D-eligible patients.
	Numerator	**Patients**	Patients with Rx coverage for the last month of the reporting period.

CLINICAL LABS

Urine Albumin (meas_id=30)

	Denominator	**Patients**	MCT2D-eligible patients.
	Numerator	**Patients**	Most recent clinical lab result based on service type code. If more than one value, report the highest value.

Urine Creatinine (meas_id=31)

	Denominator	**Patients**	MCT2D-eligible patients.
	Numerator	**Patients**	Most recent clinical service date and lab result value based on service type code. If more than one value, report the lowest value.

Estimated Glomerular Filtration Rate (eGFR) (meas_id=32)

	Denominator	**Patients**	MCT2D-eligible patients.
	Numerator	**Patients**	Most recent clinical service date and lab result value based on service type code. If more than one value, report the lowest value.

Album/Creatinine Ratio (meas_id=33)

	Denominator	**Patients**	MCT2D-eligible patients.
	Numerator	**Patients**	Most recent clinical service date and lab result value based on service type code. If more than one value, report the highest value.

Serum Creatinine (meas_id=86)

	Denominator	**Patients**	MCT2D-eligible patients.
	Numerator	**Patients**	Most recent clinical service date and lab result value based on service type code, CPT or LOINC code. If more than one value, report the highest value.

MEDICATIONS

Medication Denominator		Patients	MCT2D-eligible patients.

	Diabetes Medication	meas_id=19	Most recent diabetes medication fill date.
Diabetes Medication Subgroups (Numerator)	a-glucosidase-i (Alpha-glucosidase inhibitor)	meas_id=13	Most recent a-glucosidase-i fill date.
	Amylin analog	meas_id=14	Most recent Amylin analog fill date.
	Antidiabetic combinations	meas_id=11	Most recent Antidiabetic combinations fill date.
	DPP4-I	meas_id=15	Most recent DPP4-I fill date.
	Glinide (Meglitinides)	meas_id=16	Most recent Glinide (Meglitinides) fill date.
	GLP1 (Glucagon-like peptide-1 agonists)	meas_id=9	Most recent GLP1 fill date.
	Intermediate-Acting Insulin	meas_id=7	Most recent Intermediate-Acting Insulin fill date.
	Long-Acting Insulin	meas_id= 8	Most recent Long-Acting Insulin fill date.
	Short-Acting Insulin	meas_id=6	Most recent Short-Acting Insulin fill date.
	SGLT2 (Sodium glucose cotransporter 2 inhibitor)	meas_id=10	Most recent SGLT2 fill date.
	Metformin	meas_id=12	Most recent Metformin fill date.
	Sulfonylurea	meas_id=17	Most recent Sulfonylurea fill date.
	Thiazolidinedione	meas_id=18	Most recent Thiazolidinedione fill date.

ACEI	(meas_id=28)		
	Angiotensin-Converting Enzyme Inhibitors (ACE1)	**Patients**	Most recent ACE1 fill date.

ARB	(meas_id=29)		
	Angiotensin Receptor Blocker (ARB)	**Patients**	Most recent ARB fill date.

Statins	(meas_id=20)		
	Statin	**Patients**	Most recent Statin fill date.

CGM	(meas_id=5)		
	Continuous Glucose Monitor	**Patients**	Most recent medical service date or fill date.