



## 2021 CMS Web Interface

**DM-2 (NQF 0059): Diabetes: Hemoglobin A1c (HbA1c)  
Poor Control (>9%)**

**Measure Steward: NCQA**

**Contents**

<b>INTRODUCTION</b> .....	<b>3</b>
<b>CMS WEB INTERFACE SAMPLING INFORMATION</b> .....	<b>4</b>
BENEFICIARY SAMPLING .....	4
<b>NARRATIVE MEASURE SPECIFICATION</b> .....	<b>5</b>
DESCRIPTION: .....	5
IMPROVEMENT NOTATION: .....	5
INITIAL POPULATION: .....	5
DENOMINATOR:.....	5
DENOMINATOR EXCLUSIONS:.....	5
DENOMINATOR EXCEPTIONS:.....	5
NUMERATOR:.....	5
NUMERATOR EXCLUSIONS: .....	5
DEFINITIONS:.....	5
GUIDANCE:.....	5
<b>SUBMISSION GUIDANCE</b> .....	<b>7</b>
PATIENT CONFIRMATION.....	7
<b>SUBMISSION GUIDANCE</b> .....	<b>8</b>
DENOMINATOR CONFIRMATION .....	8
<b>SUBMISSION GUIDANCE</b> .....	<b>10</b>
NUMERATOR SUBMISSION .....	10
<b>DOCUMENTATION REQUIREMENTS</b> .....	<b>11</b>
<b>APPENDIX I: PERFORMANCE CALCULATION FLOW</b> .....	<b>12</b>
<b>APPENDIX II: DOWNLOADABLE RESOURCE MAPPING TABLE</b> .....	<b>18</b>
<b>APPENDIX III: MEASURE RATIONALE AND CLINICAL RECOMMENDATION STATEMENTS</b> .....	<b>20</b>
RATIONALE: .....	20
CLINICAL RECOMMENDATION STATEMENTS:.....	20
<b>APPENDIX IV: USE NOTICES, COPYRIGHTS, AND DISCLAIMERS</b> .....	<b>20</b>
COPYRIGHT .....	20

**INTRODUCTION**

There are a total of 10 individual measures included in the 2021 CMS Web Interface targeting high-cost chronic conditions, preventive care, and patient safety. The measures documents are represented individually and contain measure specific information. The corresponding coding documents are posted separately in an Excel format.

The measure documents are being provided to allow organizations an opportunity to better understand each of the 10 individual measures included in the 2021 CMS Web Interface data submission method. Each measure document contains information necessary to submit data through the CMS Web Interface.

Narrative specifications, supporting submission documentation, and calculation flows are provided within each document. Please review all of the measure documentation in its entirety to ensure complete understanding of these measures.

**CMS WEB INTERFACE SAMPLING INFORMATION**

**BENEFICIARY SAMPLING**

For more information on the sampling process and methodology please refer to the 2021 CMS Web Interface Sampling Document, which will be made available during the performance year at CMS.gov.

**NARRATIVE MEASURE SPECIFICATION****DESCRIPTION:**

Percentage of patients 18 - 75 years of age with diabetes who had hemoglobin A1c > 9.0% during the measurement period

**IMPROVEMENT NOTATION:**

Lower score indicates better quality

**INITIAL POPULATION:**

Patients 18 - 75 years of age with diabetes with a visit during the measurement period

**DENOMINATOR:**

Equals Initial Population

**DENOMINATOR EXCLUSIONS:**

Patients age 66 and older in Institutional Special Needs Plans (SNP) or residing in long-term care with a POS code 32, 33, 34, 54 or 56 for more than 90 days during the measurement period

**OR**

Patients 66 years of age and older with at least one claim/encounter for frailty during the measurement period AND a dispensed medication for dementia during the measurement period or the year prior to the measurement period

**OR**

Patients 66 years of age and older with at least one claim/encounter for frailty during the measurement period AND either one acute inpatient encounter with a diagnosis of advanced illness or two outpatient, observation, ED or nonacute inpatient encounters on different dates of service with an advanced illness diagnosis during the measurement period or the year prior to the measurement period

**Table: Dementia Exclusion Medications**

Description	Prescription
Cholinesterase inhibitors	Donepezil Galantamine Rivastigmine
Miscellaneous central nervous system agents	Memantine

**DENOMINATOR EXCEPTIONS:**

None

**NUMERATOR:**

Patients whose most recent HbA1c level (performed during the measurement period) is > 9.0%

**NUMERATOR EXCLUSIONS:**

Not Applicable

**DEFINITIONS:**

None

**GUIDANCE:**

Patient is numerator compliant if most recent HbA1c level is > 9%, the most recent HbA1c result is missing, or if there are no HbA1c tests performed and results documented during the measurement period. If the HbA1c test result

is in the medical record, the test can be used to determine numerator compliance.

Only patients with a diagnosis of Type 1 or Type 2 diabetes should be included in the denominator of this measure; patients with a diagnosis of secondary diabetes due to another condition should not be included.

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## SUBMISSION GUIDANCE

### PATIENT CONFIRMATION

Establishing patient eligibility for submission requires the following:

- Determine if the patient's medical record can be found
  - If you can locate the medical record select "Yes"
- OR**
- If you cannot locate the medical record select "No - Medical Record Not Found"
- OR**
- Determine if the patient is qualified for the sample
  - If the patient is deceased, in hospice, moved out of the country or did not have Fee-for-Service (FFS) Medicare as their primary payer select "Not Qualified for Sample", select the applicable reason from the provided drop-down menu, and enter the date the patient became ineligible

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### **Guidance** Patient Confirmation

**If "No – Medical Record Not Found" or "Not Qualified for Sample" is selected, the patient is completed but not confirmed. The patient will be "skipped" and another patient must be reported in their place, if available. The CMS Web Interface will automatically skip any patient for whom "No – Medical Record Not Found" or "Not Qualified for Sample" is selected in all other measures into which they have been sampled.**

**If "Not Qualified for Sample" is selected and the date is unknown, you may enter the last date of the measurement period (i.e., 12/31/2021).**

**The Measurement Period is defined** as January 1 – December 31, 2021.

#### **NOTE:**

- **In Hospice:** Select this option if the patient is not qualified for sample due to being in hospice care at any time during the measurement period (this includes non-hospice patients receiving palliative goals or comfort care)
  - **Moved out of Country:** Select this option if the patient is not qualified for sample because they moved out of the country any time during the measurement period
  - **Deceased:** Select this option if the patient died during the measurement period
  - **Non-FFS Medicare:** Select this option if the patient was enrolled in Non-FFS Medicare at any time during the measurement period (i.e., commercial payers, Medicare Advantage, Non-FFS Medicare, HMOs, etc.) This exclusion is intended to remove beneficiaries for whom Fee-for-Service Medicare is not the primary payer.
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## SUBMISSION GUIDANCE

### DENOMINATOR CONFIRMATION

- Determine if the patient has a documented history OR active diagnosis of diabetes during the measurement period or year prior to the measurement period
  - If the patient has a documented history of DM in the medical record select “Yes”
- OR**
- If you are unable to confirm the diagnosis of DM for the patient select “Not Confirmed -Diagnosis”
- OR**
- If there is a denominator exclusion for patient disqualification from the measure select [“Denominator Exclusion”](#)
- OR**
- If there is an “other” CMS approved reason for patient disqualification from the measure select “No - Other CMS Approved Reason”

Denominator codes can be found in the 2021 CMS Web Interface DM Coding Document. The Downloadable Resource Mapping Table can be located in Appendix II of this document.

### **Guidance** Denominator

**If “Not Confirmed – Diagnosis” or “Denominator Exclusion” or “No – Other CMS Approved Reason” is selected, the patient will be “skipped” and another patient must be reported in their place, if available. The patient will only be removed from the measure for which one of these options was selected, not all CMS Web Interface measures.**

**Other CMS Approved Reason** is reserved for unique cases that are not covered by any of the above stated skip reasons. To gain CMS approval, submit a skip request by selecting Request Other CMS Approved Reason in the patient qualification question for the measure. Note that skip requests can only be submitted manually through the CMS Web Interface.

To submit a skip request, follow these steps:

1. After confirming the beneficiary for the sample, scroll to the measure you would like to skip.
2. When confirming if the beneficiary is qualified for the measure, select Request Other CMS Approved Reason.
3. In the skip request modal, review the organization you are reporting for and provide the submitter's email address. CMS uses this email to send status updates and/or reach out if further information is needed to resolve the skip request. You also need to provide specific information about the beneficiary's condition and why it disqualifies the beneficiary from this measure. Never include Personally Identifiable Information (PII) or Protected Health Information (PHI) in the case.

Beneficiaries remain incomplete until CMS resolves the skip request. The CMS Web Interface automatically updates the resolution of a skip request, either approved or denied. Beneficiaries for whom a CMS Approved Reason is approved are marked as Skipped and another beneficiary must be reported in their place, if available.

**The intent of the exclusion** for individuals age 66 and older residing in long-term care facilities, including nursing homes, is to exclude individuals who may have limited life expectancy and increased frailty where the benefit of the process may not exceed the risks. This exclusion is not intended as a clinical recommendation regarding whether the measures process is inappropriate for specific populations, instead the exclusions allows clinicians to engage in shared decision making with patients about the benefits and risks of screening when an individual has limited life expectancy.

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**NOTE:**

- **Active Diagnosis** is defined as a diagnosis that is either on the patient's problem list, a diagnosis code description listed on the encounter, or is documented in a progress note indicating that the patient is being treated or managed for the disease or condition during the measurement period
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## SUBMISSION GUIDANCE

### NUMERATOR SUBMISSION

- Determine if the patient had one or more HbA1c tests performed during the measurement period
  - If the patient had one or more HbA1c tests documented select “Yes”

#### IF YES

- Record the most recent date the blood was drawn for the HbA1c in **MM/DD/YYYY** format

#### AND

- Record the most recent HbA1c value OR if test was performed but result is not documented, record "0" (zero) value

#### OR

- If the patient did not have one or more HbA1c tests documented select “No”

Numerator codes can be found in the 2021 CMS Web Interface DM Coding Document. The Downloadable Resource Mapping Table can be located in Appendix II of this document.

### **Guidance** Numerator

If “No” is selected, do not provide Date Drawn and HbA1c Value.

#### NOTE:

- **Synonyms for HbA1c testing may include** Glycohemoglobin A1c, HbA1c, Hemoglobin A1c, HgbA1c, A1c
- **Use the following priority ranking:**  
*Lab report draw date*  
*Lab report date*  
*Flow sheet documentation*  
*Practitioner notes*  
*Other documentation*
- **Patient Reported Requirement:** Date and most recent value (distinct value required)
- **Ranges and thresholds do not meet criteria** for this indicator. A distinct numeric result is required for numerator compliance
- **At a minimum**, documentation in the medical record must include a note indicating the date on which the HbA1c test was performed and the result. If the day is unknown enter 01 i.e. 05/01/2021
- **Documentation of most recent HbA1c result** may be completed during a telehealth encounter
- **HbA1c finger stick tests** administered by a healthcare provider at the point of care are allowed

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**DOCUMENTATION REQUIREMENTS**

When submitting data through the CMS Web Interface, the expectation is that medical record documentation is available that supports the action reported in the CMS Web Interface i.e., medical record documentation is necessary to support the information that has been submitted.

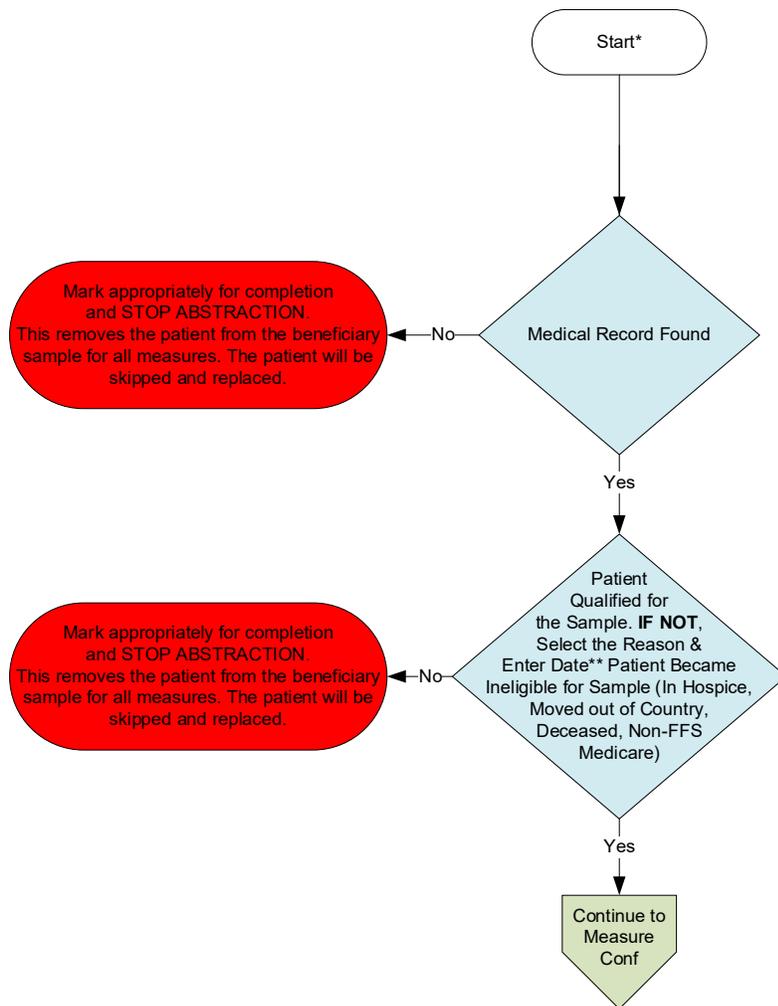
Claims data cannot be used to confirm a diagnosis (DM, HTN, etc.) used for sampling purposes as claims are the original source of the diagnosis sampling. Claims data can be used to prepare the CMS Web Interface Excel, but supporting medical record documentation will be required to substantiate what is reported in the event of an audit.

## Appendix I: Performance Calculation Flow

**Disclaimer:** Refer to the measure submission document for specific coding and instructions to submit this measure.

## Patient Confirmation Flow

For 2021, confirmation of the "Medical Record Found", or indicating the patient is "Not Qualified for Sample" with a reason of "In Hospice", "Moved out of Country", "Deceased", or "Non-FFS Medicare", will only need to be done **once** per patient.

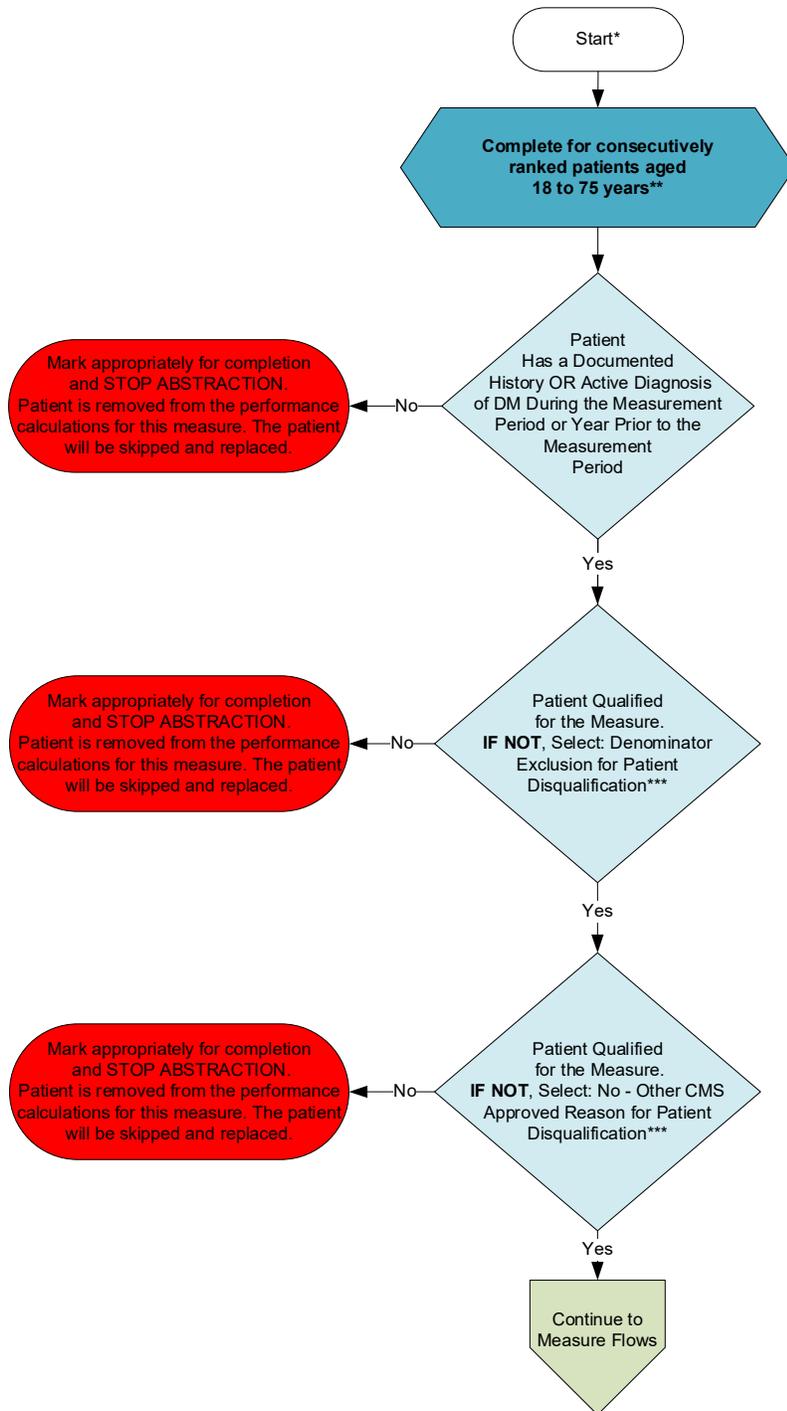


\*See the posted measure submission document for specific coding and instructions to submit this measure.

\*\* If date is unknown, enter 12/31/2021

## Measure Confirmation Flow for DM-2

For 2021, measure specific reasons a patient is "Not Confirmed" or excluded for "Denominator Exclusion" or "Other CMS Approved Reason" will need to be done for each measure where the patient appears.

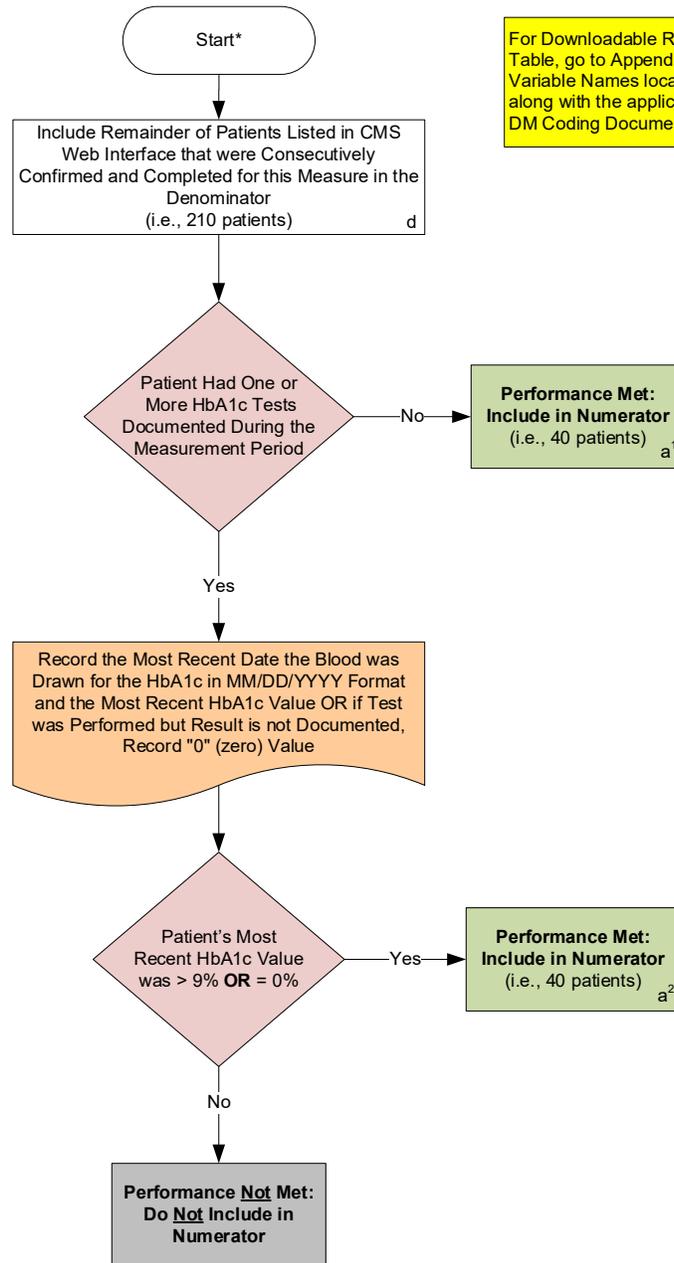


\*See the posted measure submission document for specific coding and instructions to submit this measure.

\*\*Further information regarding patient selection for specific disease and patient care measures can be found in the CMS Web Interface Sampling Methodology Document. For patients who have the incorrect date of birth listed, a change of the patient date of birth by the abstractor may result in the patient no longer qualifying for the DM-2 measure. If this is the case, the system will automatically remove the patient from the measure requirements.

\*\*\*"Other CMS Approved Reason" may only be selected if the CMS Web Interface updated the resolution of the skip request to be "Approved".

## Measure Flow for DM-2



For Downloadable Resource Mapping Table, go to Appendix II and use the Variable Names located in the appendix along with the applicable tabs within the DM Coding Document.

**SAMPLE CALCULATION:**

**Performance Rate=**  

$$\frac{\text{Performance Met (a}^1=40 \text{ patients} + \text{a}^2=40 \text{ patients)}}{\text{Denominator (d)=210 patients}} = \frac{80 \text{ patients}}{210 \text{ patients}} = 38.10\%$$

CALCULATION MAY CHANGE PENDING PERFORMANCE MET ABOVE  
 FOR THIS MEASURE, A LOWER RATE INDICATES BETTER PERFORMANCE/CONTROL

\*See the posted measure submission document for specific coding and instructions to submit this measure.

### Patient Confirmation Flow

For 2021, confirmation of the “Medical Record Found”, or indicating the patient is “Not Qualified for Sample” with a reason of “In Hospice”, “Moved out of Country”, “Deceased”, or “Non-FFS Medicare”, will only need to be done **once** per patient.

1. Start Patient Confirmation Flow.
2. Check to determine if Medical Record can be found.
  - a. If no, Medical Record not found, mark appropriately for completion and stop abstraction. This removes the patient from the beneficiary sample for all measures. The patient will be skipped and replaced. Stop processing.
  - b. If yes, Medical Record found, continue processing.
3. Check to determine if Patient Qualified for the sample.
  - a. If no, the patient does not qualify for the sample, select the reason why and enter the date (if date is unknown, enter 12/31/2021) the patient became ineligible for sample. For example; In Hospice, Moved out of Country, Deceased, Non-FFS Medicare. Mark appropriately for completion and stop abstraction. This removes the patient from the beneficiary sample for all measures. The patient will be skipped and replaced. Stop processing.
  - b. If yes, the patient does qualify for the sample; continue to the Measure Confirmation Flow for DM-2.

### Measure Confirmation Flow for DM-2

For 2021, measure specific reasons a patient is “Not Confirmed” or excluded for “Denominator Exclusion” or “Other CMS Approved Reason” will need to be done for each measure where the patient appears.

1. Start Measure Confirmation Flow for DM-2. Complete for consecutively ranked patients aged 18 to 75 years. Further information regarding patient selection for specific disease and patient care measures can be found in the CMS Web Interface Sampling Methodology Document. For patients who have the incorrect date of birth listed, a change of the patient date of birth by the abstractor may result in the patient no longer qualifying for the DM-2 measure. If this is the case, the system will automatically remove the patient from the measure requirements.
2. Check to determine if the patient has a documented history or active diagnosis of diabetes during the measurement period or year prior to the measurement period.
  - a. If no, the patient does not have a documented history of diabetes during the measurement period or year prior to the measurement period, mark appropriately for completion and stop abstraction. Patient is removed from the performance calculations for this measure. The patient will be skipped and replaced. Stop processing
  - b. If yes, the patient does have a documented history of diabetes during the measurement period or year prior to the measurement period, continue processing.
3. Check to determine if the patient qualifies for the measure (Denominator Exclusion).
  - a. If no, the patient does not qualify for the measure select: Denominator Exclusion for patient disqualification. Mark appropriately for completion and stop abstraction. Patient is removed from the performance calculations for this measure. The patient will be skipped and replaced. Stop processing.
  - b. If yes, the patient does qualify for the measure, continue processing.
4. Check to determine if the patient qualifies for the measure (Other CMS Approved Reason)
  - a. If no, the patient does not qualify for the measure select: No – Other CMS Approved Reason for patient disqualification. Mark appropriately for completion and stop abstraction. Patient is removed from the performance calculations for this measure. The patient will be skipped and replaced. “Other CMS Approved Reason” may only be selected if the CMS Web Interface updated the resolution of the skip request to be “Approved”. Stop processing.
  - b. If yes, the patient does qualify for the measure, continue to DM-2 measure flow.

### Measure Flow for DM-2

For Downloadable Resource Mapping Table, go to Appendix II and use the Variable Names located in the appendix along with the applicable tabs within the DM Coding Document.

1. Start processing 2021 DM-2 (NQF 0059) Flow for the patients that qualified for the sample in the Patient Confirmation Flow and the Measure Confirmation Flow for DM-2. **Note:** Include remainder of patients listed in the CMS Web Interface that were consecutively confirmed and completed for this measure in the denominator. For the sample calculation in the flow these patients would fall into the 'd' category (eligible denominator, i.e. 210 patients).
2. Check to determine if the patient had one or more HbA1c tests performed during the measurement period.
  - a. If no, patient did not have one or more HbA1c tests performed during the measurement period, performance is met and the patient will be included in the numerator. For the sample calculation in the flow these patients would fall into the 'a' category (numerator, i.e. 40 patients). Stop processing.
  - b. If yes, the patient had one or more HbA1c tests performed during the measurement period, record the most recent date the blood was drawn for the HbA1c in MM/DD/YYYY format and the most recent HbA1c value OR if test was performed but result is not documented, record "0" (zero) value. Continue processing.
3. Check to determine if the patient's most recent HbA1c value was greater than nine percent or equal to zero percent.
  - a. If no, patient's most recent HbA1c value was not greater than nine percent or equal to zero percent, performance is not met and the patient should not be included in the numerator. Stop processing.
  - b. If yes, patient's most recent HbA1c value was greater than nine percent or equal to zero percent, performance is met and the patient will be included in the numerator. For the sample calculation in the flow these patients would fall into the 'a<sup>2</sup>' category (numerator, i.e. 40 patients). Stop processing.

#### SAMPLE CALCULATION:

##### Performance Rate=

$$\frac{\text{Performance Met (a}^1=40 \text{ patients+a}^2=40 \text{ patients)}}{\text{Denominator (d=210 patients)}} = \frac{80 \text{ patients}}{210 \text{ patients}} = 38.10\%$$

CALCULATION MAY CHANGE PENDING PERFORMANCE MET ABOVE  
FOR THIS MEASURE, A LOWER RATE INDICATES BETTER PERFORMANCE/CONTROL

**Appendix II: Downloadable Resource Mapping Table**

Each data element within this measure's denominator or numerator is defined as a pre-determined set of clinical codes. These codes can be found in the 2021 CMS Web Interface DM Coding Document.

**\*DM-2: Diabetes: Hemoglobin A1c Poor Control (>9%)**

Measure Component/Excel Tab	Data Element	Variable Name	Coding System(s)
Denominator/Denominator Codes	Diabetes Diagnosis	DM_DX_CODE	I9 I10 SNM
Denominator Exclusion/Denominator Exclusion Codes/Denominator Exclusion Drug Codes	Exclusion/66 years and older residing longer than 90 days	CARE_SERVICES_LT_RES_CODE	C4 SNM <u>AND</u> residing longer than 90 days
		NURSING_FACILITY_VISIT_CODE	C4 SNM <u>AND</u> residing longer than 90 days
	Exclusion/66 years and older with at least one claim/encounter for frailty <u>AND</u> dispensed dementia medication	FRAILITY_DEVICE_CODE  <u>OR</u> FRAILITY_DIAGNOSIS_CODE  <u>OR</u> FRAILITY_ENCOUNTER_CODE  <u>OR</u> FRAILITY_SYMPTOM_CODE  <u>AND</u> DEMENTIA_DRUG_CODE	HCPCS SNM <u>OR</u> I10 SNM  <u>OR</u> C4 HCPCS SNM  <u>OR</u> I10 SNM  <u>AND</u> RxNorm (Drug EX=Y)

Measure Component/Excel Tab	Data Element	Variable Name	Coding System(s)
	Exclusion/66 years and older with at least one claim/encounter for frailty <u>AND EITHER</u> one acute inpatient encounter with advanced illness <u>OR</u> two outpatient, observation, ED or nonacute inpatient encounters on different dates with advanced illness	FRAILITY_DEVICE_CODE  <u>OR</u> FRAILITY_DIAGNOSIS_CODE  <u>OR</u> FRAILITY_ENCOUNTER_CODE  <u>OR</u> FRAILITY_SYMPTOM_CODE  <u>AND EITHER</u> ACUTE_INPATIENT_CODE  <u>WITH</u> ADVANCED_ILLNESS_CODE  <u>OR</u> OUTPATIENT_CODE  <u>OR</u> OBSERVATION_CODE  <u>OR</u> ED_CODE  <u>OR</u> NONACUTE_INPATIENT_CODE  <u>WITH</u> ADVANCED_ILLNESS_CODE	HCPCS SNM  <u>OR</u> I10 SNM  <u>OR</u> C4 HCPCS SNM  <u>OR</u> I10 SNM  <u>AND EITHER</u> C4 SNM  <u>WITH</u> I10 SNM  <u>OR</u> C4 HCPCS  <u>OR</u> C4  <u>OR</u> C4 SNM  <u>OR</u> C4 SNM  <u>WITH</u> I10 SNM
Numerator/Numerator Codes	Hemoglobin A1c	A1C_CODE	LN <u>WITH</u> most recent A1c date and value

\*For EHR mapping, the coding within the DM-2 is considered to be all inclusive

## Appendix III: Measure Rationale and Clinical Recommendation Statements

### **RATIONALE:**

As the seventh leading cause of death in the U.S., diabetes kills approximately 79,500 people a year and affects more than 30 million Americans (9.4 percent of the U.S. population) (Centers for Disease Control and Prevention [CDC] , 2017a, 2017b). Diabetes is a long-lasting disease marked by high blood glucose levels, resulting from the body's inability to produce or use insulin properly (CDC 2017c). People with diabetes are at increased risk of serious health complications including vision loss, heart disease, stroke, kidney failure, amputation of toes, feet or legs, and premature death (CDC 2016).

In 2017, diabetes cost the U.S. an estimated \$327 billion: \$237 billion in direct medical costs and \$90 billion in reduced productivity. This is a 34 percent increase from the estimated \$245 billion spent on diabetes in 2012 (American Diabetes Association, 2018a).

Controlling A1c blood levels help reduce the risk of microvascular complications (eye, kidney and nerve diseases) (CDC 2014).

### **CLINICAL RECOMMENDATION STATEMENTS:**

American Diabetes Association (2018):

- A reasonable A1C goal for many nonpregnant adults is <7%. (Level of evidence: A)
- Providers might reasonably suggest more stringent A1C goals (such as <6.5%) for selected individual patients if this can be achieved without significant hypoglycemia or other adverse effects of treatment. Appropriate patients might include those with short duration of diabetes, type 2 diabetes treated with lifestyle or metformin only, long life expectancy, or no significant cardiovascular disease (CVD). (Level of evidence: C)
- Less stringent A1C goals (such as <8%) may be appropriate for patients with a history of severe hypoglycemia, limited life expectancy, advanced microvascular or macrovascular complications, extensive comorbid conditions, or long-standing diabetes in whom the general goal is difficult to attain despite diabetes self-management education, appropriate glucose monitoring, and effective doses of multiple glucose-lowering agents including insulin. (Level of evidence: B)

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