

**HOME HEALTH PROCESS QUALITY REPORTS:  
TECHNICAL DOCUMENTATION OF MEASURES**

Department of Health and Human Services  
Centers for Medicare & Medicaid Services

September 28, 2011

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## Revision History

Original Publication: March 31, 2010

Revision 1: September 28, 2011

1. On page 26, line 36, removed the following: Drug\_Ed\_Hi\_Risk\_SOC = MISSING. This measure can be calculated when the episode ends with the patient's death because it relies only on data collected at start/resumption of care.
2. On page 27, line 11, removed the following: Med\_Monitoring\_SOC = MISSING. This measure can be calculated when the episode ends with the patient's death because it relies only on data collected at start/resumption of care.
3. On page 2, revised the description of episode building for clarity. No substantive changes made.
4. On page 14, line 19, inserted a clarifying note that the exclusions for the "all episodes" measure also apply to the corresponding measures for short term and long term episodes.

## CONTENTS (continued)

	<u>Page</u>
<b>CONTENTS</b>	
	<u>Page</u>
INTRODUCTION.....	1
Episodes of Care Included in Process Quality Reports.....	1
Assumptions and Conventions .....	2
PROCESS MEASURE TRANSFORMATION SPECIFICATIONS.....	3
Measures .....	3
PROCESS QUALITY MEASURES DATA TRANSFORMATION PSEUDO-CODE .....	6
Timely Care Domain .....	6
Timely Initiation of Care .....	6
Care Coordination Domain.....	7
Physician Notification Guidelines Established.....	7
Assessment Domain .....	8
Depression Assessment Conducted .....	8
Multifactor Fall Risk Assessment Conducted For Patients 65 And Over .....	8
Pain Assessment Conducted .....	9
Pressure Ulcer Risk Assessment Conducted .....	9
Care Planning Domain.....	10
Depression Interventions In Plan Of Care .....	10
Diabetic Foot Care And Patient Education In Plan Of Care .....	10
Falls Prevention Steps In Plan Of Care .....	10
Pain Interventions In Plan Of Care.....	11
Pressure Ulcer Prevention In Plan Of Care .....	11
Pressure Ulcer Treatment Based On Principles Of Moist Wound Healing In Plan Of Care.....	12
Care Plan Implementation Domain .....	12
Depression Interventions Implemented During All Episodes Of Care .....	12
Depression Interventions Implemented During Short Term Episodes Of Care....	12
Depression Interventions Implemented During Long Term Episodes Of Care....	13
Diabetic Foot Care And Patient/Caregiver Education Implemented During All Episodes Of Care.....	13
Diabetic Foot Care And Patient/Caregiver Education Implemented During Short Term Episodes Of Care .....	13
Diabetic Foot Care And Patient/Caregiver Education Implemented During Long Term Episodes Of Care .....	14
Heart Failure Symptoms Addressed During All Episodes Of Care.....	14

## CONTENTS (continued)

	<u>Page</u>
Heart Failure Symptoms Addressed During Short Term Episodes Of Care .....	14
Heart Failure Symptoms Addressed During Long Term Episodes Of Care .....	15
Pain Interventions Implemented During All Episodes Of Care .....	15
Pain Interventions Implemented During Short Term Episodes Of Care.....	15
Pain Interventions Implemented During Long Term Episodes Of Care .....	16
Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented During All Episodes Of Care.....	16
Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented During Short Term Episodes Of Care .....	16
Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented During Long Term Episodes Of Care.....	17
Education Domain.....	17
Drug Education on High Risk Medications Provided To Patient/Caregiver at Start of Episode.....	17
Drug Education On All Medications Provided To Patient/Caregiver During All Episodes Of Care .....	17
Drug Education On All Medications Provided To Patient/Caregiver During Short Term Episodes Of Care .....	18
Drug Education On All Medications Provided To Patient/Caregiver During Long Term Episodes Of Care .....	18
Prevention Domain .....	18
Falls Prevention Steps Implemented For All Episodes Of Care .....	18
Falls Prevention Steps Implemented For Short Term Episodes Of Care .....	19
Falls Prevention Steps Implemented For Long Term Episodes Of Care .....	19
Influenza Immunization Received For Current Flu Season .....	19
Influenza Immunization Offered and Refused.....	20
Influenza Immunization Contraindicated.....	20
Date Exclusions for Influenza Immunization Measures .....	21
Pneumococcal Polysaccharide Vaccine Ever Received .....	21
Pneumococcal Polysaccharide Vaccine Offered and Refused.....	22
Pneumococcal Polysaccharide Vaccine Contraindicated.....	22
Potential Medication Issues Identified And Timely Physician Contact at Start of Episode .....	23
Potential Medication Issues Identified And Timely Physician Contact During All Episodes Of Care.....	23

## CONTENTS (continued)

	<u>Page</u>
Potential Medication Issues Identified And Timely Physician Contact During Short Term Episodes Of Care.....	24
Potential Medication Issues Identified And Timely Physician Contact During Long Term Episodes Of Care .....	24
Pressure Ulcer Prevention Implemented During All Episodes of Care.....	24
Pressure Ulcer Prevention Implemented During Short Term Episodes Of Care ..	25
Pressure Ulcer Prevention Implemented During Long Term Episodes Of Care ..	25
Exclusions Based on Patient's Level of Consciousness: .....	26
Exclusions Based on Discharge Reason for Assessment:.....	26

# HOME HEALTH PROCESS QUALITY REPORTS: TECHNICAL DOCUMENTATION OF MEASURES

## INTRODUCTION

This document provides definitions of measures that appear in the All Patients' Process Quality Measures Report, including detailed specifications for calculating these measures based on OASIS assessment data.

### **Episodes of Care Included in Process Quality Reports**

The unit of analysis for both outcome and process quality reports is an episode of care, defined as starting with an admission to home health care (M0100 Reason for assessment = 01) or resumption of home health care after an inpatient facility stay (M0100 Reason for assessment = 03), and ending with a discharge from home health care, including discharge due to death, or admission to inpatient facility for 24 hours or more (M0100 Reason for assessment = 06, 07, 08, or 09). The data upon which these reports are based consist of OASIS assessments submitted by home health agencies to the states, which are then transmitted to a national OASIS repository residing on a secure database server maintained by CMS. Analysis records corresponding to episodes of care are constructed by matching up assessments for each individual served by a home health agency, sorting those assessments by effective date, then pairing up assessments that mark the beginning and end of an episode of care. Episodes of care for which either the beginning or end assessment is missing, or for which assessments are out of sequence, are not included in these reports.

The process of building episode-level records, including the calculation of an indicator to determine if the episode of care is a long term or short term episode of care (ST\_Episode), is as follows:

1. Sort assessments by home health agency ID<sup>1</sup>, patient ID and effective date, latest to earliest.
2. For each set of assessments having the same combination of home health agency ID and patient ID, step through the assessments to find the latest assessment with M0100\_ASSMT\_REASON = 06, 07, 08, or 09.

---

<sup>1</sup> When working with assessment records from the OASIS National Repository, home health agency ID is actually a combination of the two position state abbreviation and Facility Internal ID, and Patient ID is a combination of the state abbreviation and Resident Internal ID.

3. Set ST\_Episode = 1 (indicating a short term episode). Continue stepping through earlier assessments, carrying over the value of ST\_Episode from the later assessment.
4. If an assessment with M0100\_ASSMT\_REASON = 04 or 05 is found before an assessment with M0100\_ASSMT\_REASON = 01 or 03 is found, set ST\_Episode to 0 (indicating a long term episode) and continue stepping through assessments.
5. If an assessment with M0100\_ASSMT\_REASON = 06, 07, 08, or 09 is found before an assessment with M0100\_ASSMT\_REASON = 01 or 03 is found, discard the episode being built and start over with step 3.
6. When an assessment with M0100\_ASSMT\_REASON = 01 or 03 is found, the episode is complete. Create an episode record with home health agency ID, patient ID, beginning assessment ID, ending assessment ID, begin and end dates for the episode and the ST\_Episode indicator. If there are more assessments for this patient, start building a new episode beginning with step 2.
7. If no assessment with M0100\_ASSMT\_REASON = 01 or 03 is found before the assessments for this patient are exhausted, discard the episode being built.

### **Assumptions and Conventions**

The following transformations result in measures with numeric values. For process and outcome measures, "1" indicates that the outcome event occurred or the process was followed, while "0" indicates the outcome event did not occur or the process was not followed. When the instructions indicate that a measure is to be set to "MISSING", the case is excluded from analysis for that particular measure, either because the measure is not applicable or a data item on which that measure is based has been indicated as unknown or has been skipped.

OASIS data items are referred to in this documentation using field names specified in OASIS Data Submission Specifications published by CMS. "[1]" is appended to the field name if the value is taken from the beginning assessment (Start or Resumption of Care), and "[2]" is appended if the value is to be taken from the ending assessment for an episode (Discharge, Transfer, or Death).

## PROCESS MEASURE TRANSFORMATION SPECIFICATIONS

### Measures

Throughout the remainder of this document, the measures for inclusion in the Process Quality Report are referred to as follows:

#### **Process Measure Domain and**

#### **Descriptive Measure Name**

#### **Short Measure Name**

Timely Care Domain

Timely Initiation Of Care

Timely\_Care

Care Coordination Domain

Physician Notification Guidelines Established

MD\_Notification

Assessment Domain

Depression Assessment Conducted

Depression\_Asmt

Multifactor Fall Risk Assessment Conducted For Patients 65 And Over

Fall\_Risk\_Asmt

Pain Assessment Conducted

Pain\_Asmt

Pressure Ulcer Risk Assessment Conducted

P\_U\_Risk\_Asmt

Care Planning Domain

Depression Interventions In Plan Of Care

Depression\_POC

Diabetic Foot Care And Patient Education In Plan Of Care

Diabetic\_Ft\_Care\_POC

Falls Prevention Steps In Plan Of Care

Falls\_Prvt\_POC

Pain Interventions In Plan Of Care

Pain\_POC

Pressure Ulcer Prevention In Plan Of Care

P\_U\_Prvt\_POC

Pressure Ulcer Treatment Based On Principles Of Moist Wound Healing In Plan Of Care

P\_U\_Healing\_POC

Care Plan Implementation Domain

Depression Interventions Implemented During Short Term Episodes Of Care

Depression\_Implmnt\_S\_T

Depression Interventions Implemented During Long Term Episodes Of Care

Depression\_Implmnt\_L\_T

Depression Interventions Implemented During All Episodes Of Care

Depression\_Implmnt\_All

Diabetic Foot Care And Patient/Caregiver Education Implemented During Short Term Episodes Of Care

Diabetic\_Ft\_Care\_Implmnt\_S\_T

Diabetic Foot Care And Patient/Caregiver Education Implemented During Long Term Episodes Of Care

Diabetic\_Ft\_Care\_Implmnt\_L\_T

Diabetic Foot Care And Patient/Caregiver Education Implemented During All Episodes Of Care

Diabetic\_Ft\_Care\_Implmnt\_All



**Process Measure Domain and****Descriptive Measure Name****Short Measure Name**

Heart Failure Symptoms Addressed During Short Term Episodes Of Care

Heart\_Failure\_Implmnt\_S\_T

Heart Failure Symptoms Addressed During Long Term Episodes Of Care

Heart\_Failure\_Implmnt\_L\_T

Heart Failure Symptoms Addressed During All Episodes Of Care

Heart\_Failure\_Implmnt\_All

Pain Interventions Implemented During Short Term Episodes Of Care

Pain\_Implmnt\_S\_T

Pain Interventions Implemented During Long Term Episodes Of Care

Pain\_Implmnt\_L\_T

Pain Interventions Implemented During All Episodes Of Care

Pain\_Implmnt\_All

Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented During Short Term Episodes Of Care

P\_U\_Implmnt\_S\_T

Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented During Long Term Episodes Of Care

P\_U\_Implmnt\_L\_T

Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented During All Episodes Of Care

P\_U\_Implmnt\_All

**Education Domain**Drug Education On High Risk Medications Provided To Patient/Caregiver At Start Of Episode  
Drug Education On All Medications Provided To Patient/Caregiver During Short Term Episodes Of Care

Drug\_Ed\_Hi\_Risk\_SOC

Drug\_Ed\_Implmnt\_S\_T

Drug Education On All Medications Provided To Patient/Caregiver During Long Term Episodes Of Care

Drug\_Ed\_Implmnt\_L\_T

Drug Education On All Medications Provided To Patient/Caregiver During All Episodes Of Care

Drug\_Ed\_Implmnt\_All

**Prevention Domain**

Falls Prevention Steps Implemented For Short Term Episodes Of Care

Fall\_Prvt\_Implmnt\_S\_T

Falls Prevention Steps Implemented For Long Term Episodes Of Care

Fall\_Prvt\_Implmnt\_L\_T

**Process Measure Domain and****Descriptive Measure Name****Short Measure Name**

Falls Prevention Steps Implemented For All  
Episodes Of Care

Fall\_Prvt\_Implmnt\_All

Influenza Immunization Received For Current Flu  
Season

Influenza\_Immunization

Influenza Immunization Offered and Refused  
Influenza Immunization Contraindicated

Influenza\_Refused

Influenza\_Contraindicated

Pneumococcal Polysaccharide Vaccine Ever  
Received

Pneumococcal\_Vaccine

Pneumococcal Polysaccharide Vaccine Offered and  
Refused

Pneumococcal\_Refused

Pneumococcal Polysaccharide Vaccine  
Contraindicated

Pneumococcal\_Contradicated

Potential Medication Issues Identified And Timely  
Physician Contact At Start Of Episode

Med\_Monitoring\_SOC

Potential Medication Issues Identified And Timely  
Physician Contact During Short Term Episodes Of  
Care

Med\_Monitoring\_Implmnt\_S\_T

Potential Medication Issues Identified And Timely  
Physician Contact During Long Term Episodes Of  
Care

Med\_Monitoring\_Implmnt\_L\_T

Potential Medication Issues Identified And Timely  
Physician Contact During All Episodes Of Care

Med\_Monitoring\_Implmnt\_All

Pressure Ulcer Prevention Implemented During  
Short Term Episodes Of Care

P\_U\_Prvt\_Implmnt\_S\_T

Pressure Ulcer Prevention Implemented During  
Long Term Episodes Of Care

P\_U\_Prvt\_Implmnt\_L\_T

Pressure Ulcer Prevention Implemented During All  
Episodes of Care

P\_U\_Prvt\_Implmnt\_All

## PROCESS QUALITY MEASURES DATA TRANSFORMATION PSEUDO-CODE

### Timely Care Domain

#### Timely Initiation of Care

Note: If physician has specified SOC/ROC date, then SOC/ROC should be on or before that date. If no SOC/ROC date has been specified by physician, then SOC/ROC should be within two days of referral or, if inpatient discharge is later than referral, within two days of inpatient discharge.

```
IF M0100_ASSMT_REASON[1] = 01
THEN
  IF M0102_PHYSN_ORDRD_SOCROC_DT_NA[1] <> 1
  THEN
    IF M0030_START_CARE_DT[1] <=
      M0102_PHYSN_ORDRD_SOCROC_DT[1]
    THEN
      Timely_Care = 1
    ELSE
      Timely_Care = 0
    ENDIF
  ELSE
    IF M0030_START_CARE_DT[1] <= M0104_PHYSN_RFRL_DT[1] +2 Days
    THEN
      Timely_Care = 1
    ELSEIF M1000_DC_NONE_14_DA[1] = 1
    THEN
      Timely_Care = 0
    ELSEIF M1005_INP_DISCHARGE_DT[1] > M0104_PHYSN_RFRL_DT[1]
    THEN
      IF M0030_START_CARE_DT[1] <= M1005_INP_DISCHARGE_DT[1] + 2
        Days
      THEN
        Timely_Care = 1
      ELSE
        Timely_Care = 0
      END IF
    ELSE
      Timely_Care = 0
    END IF
```

```

    END IF
ELSE
    IF M0102_PHYSN_ORDRD_SOCROC_DT_NA[1] <> 1
    THEN
        IF M0032_ROC_DT[1] <= M0102_PHYSN_ORDRD_SOCROC_DT[1]
        THEN
            Timely_Care = 1
        ELSE
            Timely_Care = 0
        END IF
    ELSE
        IF M0032_ROC_DT[1] <= M0104_PHYSN_RFRL_DT[1] +2 Days
        THEN
            Timely_Care = 1
        ELSEIF M1000_DC_NONE_14_DA[1] = 1
        THEN
            Timely_Care = 0
        ELSEIF M1005_INP_DISCHARGE_DT[1] > M0104_PHYSN_RFRL_DT[1]
        THEN
            IF M0032_ROC_DT[1] <= M1005_INP_DISCHARGE_DT[1] + 2 Days
            THEN
                Timely_Care = 1
            ELSE
                Timely_Care = 0
            END IF
        ELSE
            Timely_Care = 0
        END IF
    END IF
END IF

```

---

### **Care Coordination Domain**

#### **Physician Notification Guidelines Established**

```

IF M2250_PLAN_SMRY_PTNT_SPECIF[1] = NA
THEN
    MD_Notification = MISSING
IF M2250_PLAN_SMRY_PTNT_SPECIF[1] = 01
THEN

```

```
MD_Notification = 1
ELSEIF M2250_PLAN_SMRY_PTNT_SPECIF[1] = 00
THEN
MD_Notification = 0
END IF
```

---

### **Assessment Domain**

#### **Depression Assessment Conducted**

```
IF M1730_STDZ_DPRSN_SCRNG[1] = 01
OR M1730_STDZ_DPRSN_SCRNG[1] = 02
OR M1730_STDZ_DPRSN_SCRNG[1] = 03
THEN
Depression_Asmt = 1
ELSEIF M1730_STDZ_DPRSN_SCRNG[1] = 00
THEN
Depression_Asmt = 0
END IF
```

---

#### **Multifactor Fall Risk Assessment Conducted For Patients 65 And Over**

```
IF (M0100_ASSMT_REASON[1] = 01
AND (YEAR(M0030_START_CARE_DT[1]) - YEAR(M0066_PAT_BIRTH_DT[1])>
65
OR (YEAR(M0030_START_CARE_DT[1]) -
YEAR(M0066_PAT_BIRTH_DT[1]) = 65
AND (MONTH(M0030_START_CARE_DT[1]) >
MONTH(M0066_PAT_BIRTH_DT[1])
OR (MONTH(M0030_START_CARE_DT[1]) =
MONTH(M0066_PAT_BIRTH_DT[1])
AND DAY(M0030_START_CARE_DT[1]) >=
DAY(M0066_PAT_BIRTH_DT[1]))))))
OR (M0100_ASSMT_REASON[1] = 03
AND (YEAR(M0032_ROC_DT[1]) - YEAR(M0066_PAT_BIRTH_DT[1]) > 65
OR (YEAR(M0032_ROC_DT[1]) - YEAR(M0066_PAT_BIRTH_DT[1]) = 65
AND (MONTH(M0032_ROC_DT[1]) > MONTH(M0066_PAT_BIRTH_DT[1])
```

```

        OR (MONTH(M0032_ROC_DT[1]) = MONTH(M0066_PAT_BIRTH_DT[1])
        AND DAY(M0032_ROC_DT[1]) >= DAY(M0066_PAT_BIRTH_DT[1])))
THEN
    IF M1910_MLT_FCTR_FALL_RISK_ASMT[1] = 01
        OR M1910_MLT_FCTR_FALL_RISK_ASMT[1] = 02
    THEN
        Fall_Risk_Asmt = 1
    ELSEIF M1910_MLT_FCTR_FALL_RISK_ASMT[1] = 00
    THEN
        Fall_Risk_Asmt = 0
    END IF
ELSE
    Fall_Risk_Asmt = MISSING
END IF

```

---

#### Pain Assessment Conducted

```

IF M1240_FRML_PAIN_ASMT[1] = 01
    OR M1240_FRML_PAIN_ASMT[1] = 02
THEN
    Pain_Asmt = 1
ELSEIF M1240_FRML_PAIN_ASMT[1] = 00
THEN
    Pain_Asmt = 0
END IF

```

---

#### Pressure Ulcer Risk Assessment Conducted

```

IF M1300_PRSR_ULCR_RISK_ASMT[1] = 01
    OR M1300_PRSR_ULCR_RISK_ASMT[1] = 02
THEN
    P_U_Risk_Asmt = 1
ELSEIF M1300_PRSR_ULCR_RISK_ASMT[1] = 00
THEN
    P_U_Risk_Asmt = 0
END IF

```

---

## **Care Planning Domain**

### **Depression Interventions In Plan Of Care**

```
IF M2250_PLAN_SMRY_DPRSN_INTRVTN[1] = NA
THEN
    Depression_POC = MISSING
ELSE
    IF M2250_PLAN_SMRY_DPRSN_INTRVTN[1] = 01
    THEN
        Depression_POC = 1
    ELSEIF M2250_PLAN_SMRY_DPRSN_INTRVTN[1] = 00
    THEN
        Depression_POC = 0
    END IF
END IF
```

---

### **Diabetic Foot Care And Patient Education In Plan Of Care**

```
IF M2250_PLAN_SMRY_DBTS_FT_CARE[1] = NA
THEN
    Diabetic_Ft_Care_POC = MISSING
ELSE
    IF M2250_PLAN_SMRY_DBTS_FT_CARE[1] = 01
    THEN
        Diabetic_Ft_Care_POC = 1
    ELSEIF M2250_PLAN_SMRY_DBTS_FT_CARE[1] = 00
    THEN
        Diabetic_Ft_Care_POC = 0
    END IF
END IF
```

---

### **Falls Prevention Steps In Plan Of Care**

```
IF M2250_PLAN_SMRY_FALL_PRVNT[1] = NA
THEN
    Falls_Prvt_POC = MISSING
ELSE
```

```
IF M2250_PLAN_SMRY_FALL_PRVNT[1] = 01
THEN
    Falls_Prvt_POC = 1
ELSEIF M2250_PLAN_SMRY_FALL_PRVNT[1] = 00
THEN
    Falls_Prvt_POC = 0
END IF
END IF
```

---

*Pain Interventions In Plan Of Care*

```
IF M2250_PLAN_SMRY_PAIN_INTRVTN[1] = NA
THEN
    Pain_POC = MISSING
ELSE
    IF M2250_PLAN_SMRY_PAIN_INTRVTN[1] = 01
    THEN
        Pain_POC = 1
    ELSEIF M2250_PLAN_SMRY_PAIN_INTRVTN[1] = 00
    THEN
        Pain_POC = 0
    END IF
END IF
```

---

*Pressure Ulcer Prevention In Plan Of Care*

```
IF M2250_PLAN_SMRY_PRSULC_PRVNT[1] = NA
THEN
    P_U_Prvt_POC = MISSING
ELSE
    IF M2250_PLAN_SMRY_PRSULC_PRVNT[1] = 01
    THEN
        P_U_Prvt_POC = 1
    ELSEIF M2250_PLAN_SMRY_PRSULC_PRVNT[1] = 00
    THEN
        P_U_Prvt_POC = 0
    END IF
END IF
```



---

Pressure Ulcer Treatment Based On Principles Of Moist Wound Healing In Plan Of Care

```
IF M2250_PLAN_SMRY_PRSULC_TRTMT[1] = NA
THEN
    P_U_Healing_POC = MISSING
ELSE
    IF M2250_PLAN_SMRY_PRSULC_TRTMT[1] = 01
    THEN
        P_U_Healing_POC = 1
    ELSEIF M2250_PLAN_SMRY_PRSULC_TRTMT[1] = 00
    THEN
        P_U_Healing_POC = 0
    END IF
END IF
```

---

**Care Plan Implementation Domain**

Depression Interventions Implemented During All Episodes Of Care

```
IF M2400_INTRVTN_SMRY_DPRSN[2] = NA
THEN
    Depression_Implmnt_All = MISSING
ELSE
    IF M2400_INTRVTN_SMRY_DPRSN[2] = 01
    THEN
        Depression_Implmnt_All = 1
    ELSEIF M2400_INTRVTN_SMRY_DPRSN[2] = 00
    THEN
        Depression_Implmnt_All = 0
    END IF
END IF
```

---

Depression Interventions Implemented During Short Term Episodes Of Care

```
IF ST_Episode = 1
THEN
```

```
        Depression_Implmnt_S_T = Depression_Implmnt_All
ELSE
        Depression_Implmnt_S_T = MISSING
END IF
```

---

*Depression Interventions Implemented During Long Term Episodes Of Care*

```
IF ST_Episode = 0
THEN
        Depression_Implmnt_L_T = Depression_Implmnt_All
ELSE
        Depression_Implmnt_L_T = MISSING
END IF
```

---

*Diabetic Foot Care And Patient/Caregiver Education Implemented During All Episodes Of Care*

```
IF M2400_INTRVTN_SMRY_DBTS_FT[2] = NA
THEN
        Diabetic_Ft_Care_Implmnt_All = MISSING
ELSE
        IF M2400_INTRVTN_SMRY_DBTS_FT[2] = 01
        THEN
                Diabetic_Ft_Care_Implmnt_All = 1
        ELSEIF M2400_INTRVTN_SMRY_DBTS_FT[2] = 00
        THEN
                Diabetic_Ft_Care_Implmnt_All = 0
        END IF
END IF
```

---

*Diabetic Foot Care And Patient/Caregiver Education Implemented During Short Term Episodes Of Care*

```
IF ST_Episode = 1
THEN
        Diabetic_Ft_Care_Implmnt_S_T = Diabetic_Ft_Care_Implmnt_All
ELSE
        Diabetic_Ft_Care_Implmnt_S_T = MISSING
```

**END IF**

---

Diabetic Foot Care And Patient/Caregiver Education Implemented During Long Term Episodes Of Care

**IF** ST\_Episode = 0

**THEN**

Diabetic\_Ft\_Care\_Implmnt\_L\_T = Diabetic\_Ft\_Care\_Implmnt\_All

**ELSE**

Diabetic\_Ft\_Care\_Implmnt\_L\_T = MISSING

**END IF**

---

Heart Failure Symptoms Addressed During All Episodes Of Care

*Note: This measure excludes patients who do not have a diagnosis of heart failure (M1500\_SYMTM\_HRT\_FAILR\_PTNTS[2] = NA), patients whose heart failure symptoms were not assessed (M1500\_SYMTM\_HRT\_FAILR\_PTNTS[2] = 02), and patients who did not exhibit heart failure symptoms during the period between the most recent assessment prior to discharge or transfer and the discharge/transfer assessment (M1500\_SYMTM\_HRT\_FAILR\_PTNTS[2] = 00). The exclusion also applies to the corresponding measures for short term and long term episodes of care.*

**IF** M1500\_SYMTM\_HRT\_FAILR\_PTNTS[2] = 01

**THEN**

**IF** M1510\_HRT\_FAILR\_NO\_ACTN[2] = 1

**THEN**

Heart\_Failure\_Implmnt\_All = 0

**ELSE**

Heart\_Failure\_Implmnt\_All = 1

**END IF**

**ELSE**

Heart\_Failure\_Implmnt\_All = MISSING

**END IF**

Heart Failure Symptoms Addressed During Short Term Episodes Of Care

**IF** ST\_Episode = 1

**THEN**

Heart\_Failure\_Implmnt\_S\_T = Heart\_Failure\_Implmnt\_All

```
ELSE
    Heart_Failure_Implmnt_S_T = MISSING
END IF
```

---

Heart Failure Symptoms Addressed During Long Term Episodes Of Care

```
IF ST_Episode = 0
THEN
    Heart_Failure_Implmnt_L_T = Heart_Failure_Implmnt_All
ELSE
    Heart_Failure_Implmnt_L_T = MISSING
END IF
```

---

Pain Interventions Implemented During All Episodes Of Care

```
IF M2400_INTRVTN_SMRY_PAIN_MNTR[2] = NA
THEN
    Pain_Implmnt_All = MISSING
ELSE
    IF M2400_INTRVTN_SMRY_PAIN_MNTR[2] = 01
    THEN
        Pain_Implmnt_All = 1
    ELSEIF M2400_INTRVTN_SMRY_PAIN_MNTR[2] = 00
    THEN
        Pain_Implmnt_All = 0
    END IF
END IF
```

---

Pain Interventions Implemented During Short Term Episodes Of Care

```
IF ST_Episode = 1
THEN
    Pain_Implmnt_S_T = Pain_Implmnt_All
ELSE
    Pain_Implmnt_S_T = MISSING
END IF
```

---

Pain Interventions Implemented During Long Term Episodes Of Care

```
IF ST_Episode = 0
THEN
    Pain_Implmnt_L_T = Pain_Implmnt_All
ELSE
    Pain_Implmnt_L_T = MISSING
END IF
```

---

Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented During All Episodes Of Care

```
IF M2400_INTRVTN_SMRY_PRSULC_WET[2] = NA
THEN
    P_U_Implmnt_All = MISSING
ELSE
    IF M2400_INTRVTN_SMRY_PRSULC_WET[2] = 01
    THEN
        P_U_Implmnt_All = 1
    ELSEIF M2400_INTRVTN_SMRY_PRSULC_WET[2] = 00
    THEN
        P_U_Implmnt_All = 0
    END IF
END IF
```

---

Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented During Short Term Episodes Of Care

```
IF ST_Episode = 1
THEN
    P_U_Implmnt_S_T = P_U_Implmnt_All
ELSE
    P_U_Implmnt_S_T = MISSING
END IF
```

---

Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented During Long Term Episodes Of Care

```
IF ST_Episode = 0
THEN
    P_U_Implmnt_L_T = P_U_Implmnt_All
ELSE
    P_U_Implmnt_L_T = MISSING
END IF
```

---

**Education Domain**

Drug Education on High Risk Medications Provided To Patient/Caregiver at Start of Episode

```
IF M2000_DRUG_RGMN_RVW = NA
    OR M2010_HIGH_RISK_DRUG_EDCTN[1] = NA
THEN
    Drug_Ed_Hi_Risk_SOC = MISSING
ELSEIF M2010_HIGH_RISK_DRUG_EDCTN[1] = 01
THEN
    Drug_Ed_Hi_Risk_SOC = 1
ELSEIF M2010_HIGH_RISK_DRUG_EDCTN[1] = 00
THEN
    Drug_Ed_Hi_Risk_SOC = 0
END IF
```

---

Drug Education On All Medications Provided To Patient/Caregiver During All Episodes Of Care

```
IF M2015_DRUG_EDCTN_INTRVTN[2] = NA
THEN
    Drug_Ed_Implmnt_All = MISSING
ELSE
    IF M2015_DRUG_EDCTN_INTRVTN[2] = 01
    THEN
        Drug_Ed_Implmnt_All = 1
    ELSEIF M2015_DRUG_EDCTN_INTRVTN[2] = 00
    THEN
```

```
        Drug_Ed_Implmnt_All = 0
    END IF
END IF
```

---

Drug Education On All Medications Provided To Patient/Caregiver During Short Term Episodes Of Care

```
IF ST_Episode = 1
THEN
    Drug_Ed_Implmnt_S_T = Drug_Ed_Implmnt_All
ELSE
    Drug_Ed_Implmnt_S_T = MISSING
END IF
```

---

Drug Education On All Medications Provided To Patient/Caregiver During Long Term Episodes Of Care

```
IF ST_Episode = 0
THEN
    Drug_Ed_Implmnt_L_T = Drug_Ed_Implmnt_All
ELSE
    Drug_Ed_Implmnt_L_T = MISSING
END IF
```

---

**Prevention Domain**

Falls Prevention Steps Implemented For All Episodes Of Care

```
IF M2400_INTRVTN_SMRY_FALL_PRVNT[2] = NA
THEN
    Fall_Prvt_Implmnt_All = MISSING
ELSE
    IF M2400_INTRVTN_SMRY_FALL_PRVNT[2] = 01
    THEN
        Fall_Prvt_Implmnt_All = 1
    ELSEIF M2400_INTRVTN_SMRY_FALL_PRVNT[2] = 00
    THEN
```

```
        Fall_Prvt_Implmnt_All = 0
    END IF
END IF
```

---

Falls Prevention Steps Implemented For Short Term Episodes Of Care

```
IF ST_Episode = 1
THEN
    Fall_Prvt_Implmnt_S_T = Fall_Prvt_Implmnt_All
ELSE
    Fall_Prvt_Implmnt_S_T = MISSING
END IF
```

---

Falls Prevention Steps Implemented For Long Term Episodes Of Care

```
IF ST_Episode = 0
THEN
    Fall_Prvt_Implmnt_L_T = Fall_Prvt_Implmnt_All
ELSE
    Fall_Prvt_Implmnt_L_T = MISSING
END IF
```

---

Influenza Immunization Received For Current Flu Season

*Note: See date exclusions for all three influenza immunization measures below. If NA is marked correctly (i.e., episode does not overlap with October – March flu season), then date exclusions apply. However, if NA is marked **incorrectly**, then case is included in the denominator/*

```
IF M1040_INFLNZ_RCVD_AGENCY[2] = 01
THEN
    Influenza_Immunization = 1
ELSEIF M1040_INFLNZ_RCVD_AGENCY[2] = 00
THEN
    IF M1045_INFLNZ_RSN_NOT_RCVD[2] = 05
    THEN
        Influenza_Immunization = MISSING
    ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 01
        OR M1045_INFLNZ_RSN_NOT_RCVD[2] = 02
```



```

    THEN
        Influenza_Immunization = 1
    ELSE
        Influenza_Immunization = 0
    END IF
ELSEIF M1040_INFLNZ_RCVD_AGENCY[2] = NA
    Influenza_Immunization = 0
END IF

```

---

#### Influenza Immunization Offered and Refused

*Note: See date exclusions for all three influenza immunization measures below. If NA is marked correctly (i.e., episode does not overlap with October – March flu season), then date exclusions apply. However, if NA is marked **incorrectly**, then case is included in the denominator/*

```

IF M1040_INFLNZ_RCVD_AGENCY[2] = 01
    OR M1040_INFLNZ_RCVD_AGENCY[2] = NA
THEN
    Influenza_Refused = 0
ELSEIF M1040_INFLNZ_RCVD_AGENCY[2] = 00
THEN
    IF M1045_INFLNZ_RSN_NOT_RCVD[2] = 05
    THEN
        Influenza_Refused = MISSING
    ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 03
    THEN
        Influenza_Refused = 1
    ELSE
        Influenza_Refused = 0
    END IF
END IF

```

---

#### Influenza Immunization Contraindicated

*Note: See date exclusions for all three influenza immunization measures below. If NA is marked correctly (i.e., episode does not overlap with October – March flu season), then date exclusions apply. However, if NA is marked **incorrectly**, then case is included in the denominator/*

```

IF M1040_INFLNZ_RCVD_AGENCY[2] = 01
    OR M1040_INFLNZ_RCVD_AGENCY[2] = NA

```

```

THEN
    Influenza_Contraindicated = 0
ELSEIF M1040_INFLNZ_RCVD_AGENCY[2] = 00
THEN
    IF M1045_INFLNZ_RSN_NOT_RCVD[2] = 05
    THEN
        Influenza_Contraindicated = MISSING
    ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 04
    THEN
        Influenza_Contraindicated = 1
    ELSE
        Influenza_Contraindicated = 0
    END IF
END IF

```

---

*Date Exclusions for Influenza Immunization Measures*

```

IF (MONTH(M0906_DC_TRAN_DTH_DT[2]) > 3
    AND MONTH(M0906_DC_TRAN_DTH_DT[2]) < 10)
    AND ((M0100_ASSMT_REASON[1] = 01
        AND MONTH(M0030_START_CARE_DT[1]) > 3
        AND MONTH(M0030_START_CARE_DT[1]) < 10
        AND YEAR(M0906_DC_TRAN_DTH_DT[2]) =
        YEAR(M0030_START_CARE_DT[1]))
        OR (M0100_ASSMT_REASON[1] = 03
        AND MONTH(M0032_ROC_DT[1]) > 3
        AND MONTH(M0032_ROC_DT[1]) < 10
        AND YEAR(M0906_DC_TRAN_DTH_DT[2]) = YEAR(M0032_ROC_DT[1])))
THEN
    Influenza_Immunization = MISSING
    Influenza_Contraindicated = MISSING
    Influenza_Refused = MISSING
END IF

```

---

*Pneumococcal Polysaccharide Vaccine Ever Received*

```

IF M1050_PPV_RCVD_AGENCY[2] = 01
THEN
    Pneumococcal_Vaccine = 1

```

```

ELSEIF M1050_PPV_RCVD_AGENCY[2] = 00
THEN
    IF M1055_PPV_RSN_NOT_RCVD_AGENCY[2] = 04
    THEN
        Pneumococcal_Vaccine = MISSING
    ELSEIF M1055_PPV_RSN_NOT_RCVD_AGENCY[2] = 01
    THEN
        Pneumococcal_Vaccine = 1
    ELSE
        Pneumococcal_Vaccine = 0
    END IF
END IF

```

---

*Pneumococcal Polysaccharide Vaccine Offered and Refused*

```

IF M1050_PPV_RCVD_AGENCY[2] = 01
THEN
    Pneumococcal_Refused = 0
ELSEIF M1050_PPV_RCVD_AGENCY[2] = 00
THEN
    IF M1055_PPV_RSN_NOT_RCVD_AGENCY[2] = 04
    THEN
        Pneumococcal_Refused = MISSING
    ELSEIF M1055_PPV_RSN_NOT_RCVD_AGENCY[2] = 02
    THEN
        Pneumococcal_Refused = 1
    ELSE
        Pneumococcal_Refused = 0
    END IF
END IF

```

---

*Pneumococcal Polysaccharide Vaccine Contraindicated*

```

IF M1050_PPV_RCVD_AGENCY[2] = 01
THEN
    Pneumococcal_Contraindicated = 0
ELSEIF M1050_PPV_RCVD_AGENCY[2] = 00
THEN

```

```

IF M1055_PPV_RSN_NOT_RCVD_AGENCY[2] = 04
THEN
    Pneumococcal_Contraindicated = MISSING
ELSEIF M1055_PPV_RSN_NOT_RCVD_AGENCY[2] = 03
THEN
    Pneumococcal_Contraindicated = 1
ELSE
    Pneumococcal_Contraindicated = 0
END IF
END IF

```

---

Potential Medication Issues Identified And Timely Physician Contact at Start of Episode

```

IF M2000_DRUG_RGMN_RVW <> 02
THEN
    Med_Monitoring_SOC = MISSING
ELSEIF M2002_MDCTN_FLWP[1] = 1
THEN
    Med_Monitoring_SOC = 1
ELSEIF M2002_MDCTN_FLWP[1] = 0
THEN
    Med_Monitoring_SOC = 0
END IF

```

---

Potential Medication Issues Identified And Timely Physician Contact During All Episodes Of Care

```

IF M2004_MDCTN_INTRVTN[2] = NA
THEN
    Med_Monitoring_Implmnt_All = MISSING
ELSE
    IF M2004_MDCTN_INTRVTN[2] = 01
    THEN
        Med_Monitoring_Implmnt_All = 1
    ELSEIF M2004_MDCTN_INTRVTN[2] = 00
    THEN
        Med_Monitoring_Implmnt_All = 0
    END IF
END IF

```

**END IF**

---

Potential Medication Issues Identified And Timely Physician Contact During Short Term Episodes Of Care

**IF** ST\_Episode = 1

**THEN**

Med\_Monitoring\_Implmnt\_S\_T = Med\_Monitoring\_Implmnt\_All

**ELSE**

Med\_Monitoring\_Implmnt\_S\_T = MISSING

**END IF**

---

Potential Medication Issues Identified And Timely Physician Contact During Long Term Episodes Of Care

**IF** ST\_Episode = 0

**THEN**

Med\_Monitoring\_Implmnt\_L\_T = Med\_Monitoring\_Implmnt\_All

**ELSE**

Med\_Monitoring\_Implmnt\_L\_T = MISSING

**END IF**

---

Pressure Ulcer Prevention Implemented During All Episodes of Care

**IF** M2400\_INTRVTN\_SMRY\_PRSULC\_PRVN[2] = NA

**THEN**

P\_U\_Prvt\_Implmnt\_All = MISSING

**ELSE**

**IF** M2400\_INTRVTN\_SMRY\_PRSULC\_PRVN[2] = 01

**THEN**

P\_U\_Prvt\_Implmnt\_All = 1

**ELSEIF** M2400\_INTRVTN\_SMRY\_PRSULC\_PRVN[2] = 00

**THEN**

P\_U\_Prvt\_Implmnt\_All = 0

**END IF**

**END IF**

---

Pressure Ulcer Prevention Implemented During Short Term Episodes Of Care

```
IF ST_Episode = 1
THEN
    P_U_Prvtnt_Implmnt_S_T = P_U_Prvtnt_Implmnt_All
ELSE
    P_U_Prvtnt_Implmnt_S_T = MISSING
END IF
```

---

Pressure Ulcer Prevention Implemented During Long Term Episodes Of Care

```
IF ST_Episode = 0
THEN
    P_U_Prvtnt_Implmnt_L_T = P_U_Prvtnt_Implmnt_All
ELSE
    P_U_Prvtnt_Implmnt_L_T = MISSING
END IF
```

---

**Exclusions Based on Patient's Level of Consciousness:**

For the following measures, if the patient is observed to be nonresponsive at start/resumption of care, the process measure will be set to missing.

**IF** M1710\_WHEN\_CONFUSED[1] = NA **OR** M1720\_WHEN\_ANXIOUS[1] = NA  
**THEN**

Depression\_Asmt = MISSING  
Depression\_POC = MISSING  
Depression\_Implmnt\_S\_T = MISSING  
Depression\_Implmnt\_L\_T = MISSING  
Depression\_Implmnt\_All = MISSING

**END IF**

**Exclusions Based on Discharge Reason for Assessment:**

For the following measures, if the home health episode of care ended with the patient's death, the information necessary to calculate the measure is not collected. Therefore the measure will be set to missing.

**IF** M0100\_ASSMT\_REASON[2] = 08  
**THEN**

Depression\_Implmnt\_S\_T = MISSING  
Depression\_Implmnt\_L\_T = MISSING  
Depression\_Implmnt\_All = MISSING  
Diabetic\_Ft\_Care\_Implmnt\_S\_T = MISSING  
Diabetic\_Ft\_Care\_Implmnt\_L\_T = MISSING  
Diabetic\_Ft\_Care\_Implmnt\_All = MISSING  
Heart\_Failure\_Implmnt\_S\_T = MISSING  
Heart\_Failure\_Implmnt\_L\_T = MISSING  
Heart\_Failure\_Implmnt\_All = MISSING  
Pain\_Implmnt\_S\_T = MISSING  
Pain\_Implmnt\_L\_T = MISSING  
Pain\_Implmnt\_All = MISSING  
P\_U\_Implmnt\_S\_T = MISSING  
P\_U\_Implmnt\_L\_T = MISSING  
P\_U\_Implmnt\_All = MISSING  
Drug\_Ed\_Implmnt\_S\_T = MISSING  
Drug\_Ed\_Implmnt\_L\_T = MISSING  
Drug\_Ed\_Implmnt\_All = MISSING

```
Fall_Prvt_Implmnt_S_T = MISSING
Fall_Prvt_Implmnt_L_T = MISSING
Fall_Prvt_Implmnt_All = MISSING
Influenza_Immunization = MISSING
Influenza_Refused = MISSING
Influenza_Contraindicated = MISSING
Pneumococcal_Vaccine = MISSING
Pneumococcal_Refused = MISSING
Pneumococcal_Contradicated = MISSING
Med_Monitoring_Implmnt_S_T = MISSING
Med_Monitoring_Implmnt_L_T = MISSING
Med_Monitoring_Implmnt_All = MISSING
P_U_Prvt_Implmnt_S_T = MISSING
P_U_Prvt_Implmnt_L_T = MISSING
P_U_Prvt_Implmnt_All = MISSING
END IF
```