

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

Department of Health and Human Services  
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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.

Revision 2: June 28, 2012

1. On page 26, eliminated the sections, "Exclusions Based on Patient's Level of Consciousness" and "Exclusions Based on Discharge Reason for Assessment." The calculation logic for each of the affected measures was changed to reflect these exclusions, including the following measures:

Depression\_Asmt, Depression\_POC, Depression\_Implmnt\_All

Diabetic\_Ft\_Care\_Implmnt\_All

Heart\_Failure\_Implmnt\_All

Pain\_Implmnt\_All

P\_U\_Implmnt\_All

Drug\_Ed\_Implmnt\_All

Fall\_Prvt\_Implmnt\_All

Influenza\_Immunization , Influenza\_Refused , Influenza\_Contraindicated

Pneumococcal\_Vaccine , Pneumococcal\_Refused , Pneumococcal\_Contradicated

Med\_Monitoring\_Implmnt\_All

P\_U\_Prvt\_Implmnt\_All

Revision 3: June, 2013

1. On page 2, an explanation of date conversion functions has been added.
2. On page 6, the specifications for the Timely Initiation of Care measure have been changed to conform with the Medicare Conditions of Participation for prompt initiation of care upon resumption of care after discharge from an inpatient facility. The patient must be seen within 2 days of inpatient discharge, even if the physician specifies a later resumption of care date. This requirement does not apply if the patient was discharged from the inpatient facility without a home health care referral and a referral was made subsequent to the inpatient discharge.
3. On page 9, the specifications for the measure, Multifactor Fall Risk Assessment Conducted For Patients 65 And Over have been changed to exclude patients who are chairfast or bedfast, but to include all patients who are age 18 and over. The descriptive name of the measure has been changed to Multifactor Fall Risk Assessment Conducted For All Patients Who Can Ambulate, on page 3 and page 9.
4. For the measures, Depression Assessment Conducted (page 8), Depression Interventions In Plan Of Care (page 9), and Depression Interventions Implemented During All Episodes Of Care (page 12), the exclusion based on level of consciousness has been changed to rely on OASIS item M1700 Cognitive Functioning in addition to items M1710 When Confused and M1720 When Anxious. A patient is excluded from the denominator for these measures if the response to any of the items M1700, M1710, or M1720 indicates that the patient's level of consciousness is insufficient to enable a valid assessment of depression.

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# 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.

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<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).

The expression DATEVALUE indicates a conversion of a text representation of a date to a date value. The actual conversion function used will vary with the software used. Similarly, YEAR, DAY, and MONTH indicate conversion of a date value to a numeric value representing the year, day, or month, and will also be software-specific.



## 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 All

Fall\_Risk\_Asmt

Patients Who Can Ambulate

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

Influenza Immunization Contraindicated

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. For a resumption of care, per the Medicare Conditions of Participation, the patient must be seen within two days of inpatient discharge, even if the physician specifies a later date.*

```
IF M0100_ASSMT_REASON[1] = 01
THEN
  IF M0102_PHYSN_ORDRD_SOCROC_DT_NA[1] = 1
  THEN
    IF M0104_PHYSN_RFRL_DT[1] IS BLANK
    THEN
      Timely_Care = MISSING
    ELSE
      IF DATEVALUE(M0030_START_CARE_DT[1]) <=
        DATEVALUE(M0104_PHYSN_RFRL_DT[1]) +2 Days
      THEN
        Timely_Care = 1
      ELSE
        IF M1000_DC_NONE_14_DA[1] = 1
        THEN
          Timely_Care = 0
        ELSE
          IF M1005_INP_DSCHG_UNKNOWN[1] = 1
          THEN
            Timely_Care = MISSING
          ELSE
            IF DATEVALUE(M1005_INP_DISCHARGE_DT[1]) >
              DATEVALUE(M0104_PHYSN_RFRL_DT[1])
            THEN
              IF DATEVALUE(M0030_START_CARE_DT[1]) <=
                DATEVALUE(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
END IF
ELSE
    IF DATEVALUE(M0030_START_CARE_DT[1]) <=
        DATEVALUE(M0102_PHYSN_ORDRD_SOCROC_DT[1])
    THEN
        Timely_Care = 1
    ELSE
        Timely_Care = 0
    ENDIF
END IF
ELSE
    IF M0102_PHYSN_ORDRD_SOCROC_DT_NA[1] = 1
    THEN
        IF M0104_PHYSN_RFRL_DT[1] IS BLANK
        THEN
            Timely_Care = MISSING
        ELSE
            IF DATEVALUE(M0032_ROC_DATE[1]) <=
                DATEVALUE(M0104_PHYSN_RFRL_DT[1]) +2 Days
            THEN
                Timely_Care = 1
            ELSE
                IF M1000_DC_NONE_14_DA[1] = 1
                THEN
                    Timely_Care = 0
                ELSE
                    IF M1005_INP_DSCHG_UNKNOWN[1] = 1
                    THEN
                        Timely_Care = MISSING
                    ELSE

```

```

        IF DATEVALUE(M1005_INP_DISCHARGE_DT[1]) >
        DATEVALUE(M0104_PHYSN_RFRL_DT[1])
        THEN
            IF DATEVALUE(M0032_ROC_DATE[1]) <=
            DATEVALUE(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
END IF
ELSE
    IF M1000_DC_NONE_14_DA[1] = 1
    THEN
        IF DATEVALUE(M0032_ROC_DATE[1]) <=
        DATEVALUE(M0102_PHYSN_ORDRD_SOCROC_DT[1])
        THEN
            Timely_Care = 1
        ELSE
            Timely_Care = 0
        ENDIF
    ELSE
        IF M1005_INP_DSCHG_UNKNOWN[1] = 1
        THEN
            Timely_Care = MISSING
        ELSE
            IF DATEVALUE(M1005_INP_DISCHARGE_DT[1]) >
            DATEVALUE(M0102_PHYSN_ORDRD_SOCROC_DT[1]) OR
            DATEVALUE(M0102_PHYSN_ORDRD_SOCROC_DT[1]) >
            DATEVALUE(M1005_INP_DISCHARGE_DT[1])+2
            THEN

```

```

        IF DATEVALUE(M0032_ROC_DATE[1]) <=
            DATEVALUE(M1005_INP_DISCHARGE_DT[1]) + 2
            Days
        THEN
            Timely_Care = 1
        ELSE
            Timely_Care = 0
        END IF
    ELSE
        IF DATEVALUE(M0032_ROC_DATE[1]) <=
            DATEVALUE(M0102_PHYSN_ORDRD_SOCROC_DT[1
            ])
        THEN
            Timely_Care = 1
        ELSE
            Timely_Care = 0
        END IF
    END IF
END IF
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 M1700_COG_FUNCTION[1] = 04 OR M1710_WHEN_CONFUSED[1] = NA OR
  M1720_WHEN_ANXIOUS[1] = NA
THEN
  Depression_Asmt = MISSING
ELSE 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 All Patients Who Can Ambulate*

```
IF (M0100_ASSMT_REASON[1] = 01
  AND (YEAR(DATEVALUE(M0030_START_CARE_DT[1])) -
    YEAR(DATEVALUE(M0066_PAT_BIRTH_DT[1])) > 18
    OR (YEAR(DATEVALUE(M0030_START_CARE_DT[1])) -
    YEAR(DATEVALUE(M0066_PAT_BIRTH_DT[1])) = 18
    AND (MONTH(DATEVALUE(M0030_START_CARE_DT[1])) >
    MONTH(DATEVALUE(M0066_PAT_BIRTH_DT[1]))
    OR (MONTH(DATEVALUE(M0030_START_CARE_DT[1])) =
    MONTH(DATEVALUE(M0066_PAT_BIRTH_DT[1]))
    AND DAY(DATEVALUE(M0030_START_CARE_DT[1])) >=
    DAY(DATEVALUE(M0066_PAT_BIRTH_DT[1]))))))))
OR (M0100_ASSMT_REASON[1] = 03
  AND (YEAR(DATEVALUE(M0032_ROC_DT[1])) -
    YEAR(DATEVALUE(M0066_PAT_BIRTH_DT[1])) > 18
    OR (YEAR(DATEVALUE(M0032_ROC_DT[1])) -
    YEAR(DATEVALUE(M0066_PAT_BIRTH_DT[1])) = 18
    AND (MONTH(DATEVALUE(M0032_ROC_DT[1])) >
    MONTH(DATEVALUE(M0066_PAT_BIRTH_DT[1]))
    OR (MONTH(DATEVALUE(M0032_ROC_DT[1])) =
    MONTH(DATEVALUE(M0066_PAT_BIRTH_DT[1]))
    AND DAY(DATEVALUE(M0032_ROC_DT[1])) >=
    DAY(DATEVALUE(M0066_PAT_BIRTH_DT[1]))))))))
```



```

THEN
  IF M1860_CUR_AMBLTN[1] = 04 OR
    M1860_CUR_AMBLTN[1] = 05 OR
    M1860_CUR_AMBLTN[1] = 06
  THEN
    Fall_Risk_Asmt = MISSING
  ELSE
    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
  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 M1700_COG_FUNCTION[1] = 04 OR M1710_WHEN_CONFUSED[1] = NA OR
  M1720_WHEN_ANXIOUS[1] = NA OR
  M2250_PLAN_SMRY_DPRSN_INTRVTN[1] = NA
THEN
  Depression_POC = MISSING
ELSEIF 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
```

---

### *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 M1700_COG_FUNCTION[1] = 04 OR M1710_WHEN_CONFUSED[1] = NA
    OR M1720_WHEN_ANXIOUS[1] = NA OR M2400_INTRVTN_SMRY_DPRSN[2] =
    NA OR M0100_ASSMT_REASON[2] = 08
THEN
    Depression_Implmnt_All = MISSING
ELSEIF 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
```

---

#### *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
  OR M0100_ASSMT_REASON[2] = 08
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
  AND M0100_ASSMT_REASON[2] <> 08
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
  OR M0100_ASSMT_REASON[2] = 08
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
    OR M0100_ASSMT_REASON[2] = 08
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
    OR M0100_ASSMT_REASON[2] = 08
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
    OR M0100_ASSMT_REASON[2] = 08
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_Prvtnt_Implmnt_All = 0
    END IF
END IF
```

---

Falls Prevention Steps Implemented For Short Term Episodes Of Care

```
IF ST_Episode = 1
THEN
    Fall_Prvtnt_Implmnt_S_T = Fall_Prvtnt_Implmnt_All
ELSE
    Fall_Prvtnt_Implmnt_S_T = MISSING
END IF
```

---

Falls Prevention Steps Implemented For Long Term Episodes Of Care

```
IF ST_Episode = 0
THEN
    Fall_Prvtnt_Implmnt_L_T = Fall_Prvtnt_Implmnt_All
ELSE
    Fall_Prvtnt_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 seaso), then date exclusions apply. However, if NA is marked **incorrectly**, then case is included in the denominator!*

```
IF M0100_ASSMT_REASON[2] = 08
THEN
    Influenza_Immunization = MISSING
ELSEIF 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 M0100_ASSMT_REASON[2] = 08
THEN
    Influenza_Refused = MISSING
ELSEIF 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 M0100_ASSMT_REASON[2] = 08
THEN
    Influenza_Contraindicated = MISSING
ELSEIF 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 M0100_ASSMT_REASON[2] = 08
THEN
    Pneumococcal_Vaccine = MISSING
ELSEIF 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 M0100_ASSMT_REASON[2] = 08
THEN
  Pneumococcal_Refused = MISSING
ELSEIF 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 M0100_ASSMT_REASON[2] = 08
THEN
  Pneumococcal_Contraindicated = MISSING
ELSEIF 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
  OR M0100_ASSMT_REASON[2] = 08
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
```

---

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
    OR M0100_ASSMT_REASON[2] = 08
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_Prvt_Implmnt_S_T = P_U_Prvt_Implmnt_All
ELSE
    P_U_Prvt_Implmnt_S_T = MISSING
```

**END IF**

---

*Pressure Ulcer Prevention Implemented During Long Term Episodes Of Care*

**IF** ST\_Episode = 0

**THEN**

    P\_U\_Prvt\_Implmnt\_L\_T = P\_U\_Prvt\_Implmnt\_All

**ELSE**

    P\_U\_Prvt\_Implmnt\_L\_T = MISSING

**END IF**

---