

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

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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, is as follows:

1. Sort assessments by home health agency ID, patient ID and effective date, latest to earliest. (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.)
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. Set ST-Episode = 1.

3. Continue stepping through earlier assessments, carrying over the value of ST_Episode from the later assessment.
4. 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 2.
5. 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 and continue stepping through assessments.
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 because a data item on which that measure is based has been indicated as "unknown".

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_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.

```
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).

IF M1500_SYMTM_HRT_FAILR_PTNTS[2] = 01

THEN

IF M1510_HRT_FAILR_NO_ACTN[2] = 1

THEN

Heart_Failure_Implmnt_All = 0

ELSE

THEN

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
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

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
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
```

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_Hi_Risk_SOC = 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_SOC = 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