

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

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

Revision 5.1

January 2017

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.

Revision 4: September 2014

1. For the falls risk assessment measure, the exclusion based on age less than 18 years has been deleted. Because OASIS data are not submitted for pediatric home health patients, the age exclusion is unnecessary.
2. Measures that were calculated separately for short term and long term episodes of care have been consolidated and are calculated only for all episodes of care for which they can be calculated, resulting in the elimination of eighteen measures from the Process Quality Report. For each of the measures retained, the descriptive name has been changed to eliminate the phrase "During All Episodes of Care."

3. For influenza and pneumonia vaccination measures, there is a new set of specifications to be used for episodes of care where the discharge or transfer assessment is OASIS-C1/ICD-9 Version or OASIS-C1/ICD-10 Version. For the pneumonia vaccination measure, the descriptive name has been changed from “pneumococcal polysaccharide vaccine” to “pneumococcal vaccine” because vaccines other than the polysaccharide form are approved and used for prevention of bacterial pneumonia.
4. A new measure, *Heart Failure Symptoms Assessed and Addressed*, has been added to the report. Specifications for this measure are included for episodes of care where the start or resumption of care assessment is OASIS-C or OASIS-C1/ICD-9 Version, and (in anticipation of the adoption of ICD-10, currently scheduled for October 1, 2015) where the start or resumption of care assessment is OASIS-C1/ICD-10 Version.

Revision 5: December 2016

1. Specifications for the measure Heart Failure Symptoms Assessed and Addressed, Potential Medication Issues Identified and Timely Physician Contact at Start of Episode, and Potential Medication Issues Identified and Timely Physician Contact during All Episodes of Care have been removed. The latter two measures have been replaced by the cross-setting measure Drug Regimen Review Conducted with Follow-up for Identified Issues.
2. Measures that were removed from the Home Health Quality Reporting Program and the Home Health Quality Initiative effective CY 2017 (listed below) have been noted with a * in the measure specifications.

Depression Interventions in Plan of Care

Depression Interventions Implemented during All Episodes of Care

Falls Prevention Steps in Plan of Care

Falls Prevention Steps Implemented for All Episodes of Care

Pain Interventions In Plan of Care

Pressure Ulcer Treatment Based on Principles of Moist Wound Healing in Plan of Care

Treatment of Pressure Ulcers Based on Principles of Moist Wound Healing Implemented during All Episodes of Care

Physician Notification Guidelines Established

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

- Several OASIS item numbers have been changed to conform to the latest version of the OASIS data submission specifications. OASIS-C2, effective January 1, 2017. Several items have been added in compliance with the IMPACT Act of 2014. The following table lists the new or changed items included in the OASIS C-2.

Old Item Name	New Item Name
N/A	M1028_ Active Diagnoses
N/A	M1060 Height and Weight
M1308_ Current Number of Unhealed Pressure Ulcers at Each Stage or Unstageable:	M1311_ Current Number of Unhealed Pressure Ulcers at Each Stage
M1309 Current Number of Unhealed Pressure Ulcers at Each Stage	M1313 Worsening in Pressure Ulcer Status since SOC/ROC
N/A	M1313 (a-c) Worsening in Pressure Ulcer Status since SOC/ROC (staging)
M1500 Symptoms in Heart Failure Patients	M1501 Symptoms in Heart Failure Patients
M1510 Heart Failure Follow Up	M1511 Heart Failure Follow Up
N/A	GG0170C (Sect. GG) Functional Status SOC/ROC and discharge goal.
M2000 Drug Regimen Review	M2001 Drug Regimen Review
M2002 Medication Review	M2003 Medication Follow Up
M2004 Medication Intervention	M2005 Medication Intervention
M2015 Patient/Caregiver Drug Education Intervention	M2016 Patient/Caregiver Drug Education Intervention
M2300 Emergent Care	M2301 Emergent Care
M2400 Intervention Synopsis	M2401 Intervention Synopsis

Revision 5.1: January 2017

- This revision clarifies the specifications for Drug Education on High-Risk Meds when using OASIS-C1 and OASIS-C2.

CONTENTS

	<u>Page</u>
HOME HEALTH PROCESS QUALITY REPORTS: TECHNICAL DOCUMENTATION OF MEASURES	1
Revision History	i
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	5
Transformation Specifications That Apply for All Episodes of Care, Regardless of OASIS Version	5
Timely Care Domain	5
Timely Initiation of Care	5
Care Coordination Domain.....	8
*Physician Notification Guidelines Established	8
Assessment Domain	9
Depression Assessment Conducted	9
Multifactor Fall Risk Assessment Conducted For All Patients Who Can Ambulate	9
Pain Assessment Conducted	9
Pressure Ulcer Risk Assessment Conducted	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	11
*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
Transformation Specifications That Apply for OASIS-C1	12
Care Plan Implementation Domain	12
*Depression Interventions Implemented.....	12
Diabetic Foot Care And Patient/Caregiver Education Implemented.....	12
Heart Failure Symptoms Addressed.....	13
Pain Interventions Implemented	13
*Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented.....	14
Education Domain.....	14

CONTENTS (continued)

	<u>Page</u>
Drug Education On All Medications Provided To Patient/Caregiver	14
*Drug Education on High Risk Medications Provided To Patient/Caregiver at Start of Episode	14
Prevention Domain	15
*Falls Prevention Steps Implemented	15
Pressure Ulcer Prevention Implemented.....	15
Transformation Specifications That Apply for OASIS-C2.....	16
Care Plan Implementation Domain	16
*Depression Interventions Implemented.....	16
Diabetic Foot Care And Patient/Caregiver Education Implemented.....	16
Heart Failure Symptoms Addressed.....	16
Pain Interventions Implemented	17
*Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented.....	17
Education Domain.....	18
Drug Education On All Medications Provided To Patient/Caregiver	18
*Drug Education on High Risk Medications Provided To Patient/Caregiver at Start of Episode	18
Prevention Domain	18
*Falls Prevention Steps Implemented	18
Pressure Ulcer Prevention Implemented.....	19
Transformations That Apply When the Discharge/Transfer Assessment Is Oasis-C19	
Influenza Immunization Received For Current Flu Season	19
Influenza Immunization Offered and Refused.....	20
Influenza Immunization Contraindicated.....	21
Date Exclusions for Influenza Immunization Measures	21
Pneumococcal Vaccine Ever Received	22
Pneumococcal Vaccine Offered and Refused	22
Pneumococcal Vaccine Contraindicated	23
Pneumococcal Vaccine Ever Received, Offered and Refused, or Contraindicated	23
Transformations That Apply When the Discharge/Transfer Assessment Is OASIS- C1 / ICD-9, OASIS-C1 / ICD-10 Version or OASIS-C2 Version	24
Influenza Immunization Received For Current Flu Season	24
Influenza Immunization Offered and Refused.....	24
Influenza Immunization Contraindicated.....	25
Date Exclusions for Influenza Immunization Measures	25
Pneumococcal Vaccine Ever Received	26
Pneumococcal Vaccine Offered and Refused	26
Pneumococcal Vaccine Contraindicated	27
Pneumococcal Vaccine Ever Received, Offered and Refused, or Contraindicated	27

CONTENTS (continued)

Page

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_Episode¹), is as follows:

1. Sort assessments by home health agency ID², 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.

¹ Although measures are no longer calculated separately for short term and long term episodes of care, the short term vs. long term indicator has been retained to allow home health agencies to filter data in the new Process Measure Tally Report.

² When working with assessment records from the OASIS National Repository, home health agency ID is a combination of the two position state abbreviation (STATE_CD) and Facility Internal ID (FAC_INT_ID), and Patient ID is a combination of the state abbreviation and Resident Internal ID (RES_INT_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 Patients Who Can Ambulate	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	Depression_Implmnt_All
Diabetic Foot Care And Patient/Caregiver Education Implemented	Diabetic_Ft_Care_Implmnt_All
Heart Failure Symptoms Addressed	Heart_Failure_Implmnt_All
Pain Interventions Implemented	Pain_Implmnt_All
*Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented	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	Drug_Ed_Implmnt_All

Process Measure Domain and Descriptive Measure Name	Short Measure Name
Patient/Caregiver	
Prevention Domain	
*Falls Prevention Steps Implemented	Fall_Prvtnt_Implmnt_All
Influenza Immunization Received For Current Flu Season	Influenza_Immunization
Influenza Immunization Offered and Refused	Influenza_Refused
Influenza Immunization Contraindicated	Influenza_Contraindicated
Pneumococcal Vaccine Ever Received	Pneumococcal_Vaccine
Pneumococcal Vaccine Offered and Refused	Pneumococcal_Refused
Pneumococcal Vaccine Contraindicated	Pneumococcal_Contradicated
Pressure Ulcer Prevention Implemented	P_U_Prvtnt_Implmnt_All

PROCESS QUALITY MEASURES DATA TRANSFORMATION PSEUDO-CODE

Transformation Specifications That Apply for All Episodes of Care, Regardless of OASIS Version

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 M1860_CUR_AMBLTN[1] = 04 OR
    M1860_CRNT_AMBLTN[1] = 05 OR
    M1860_CRNT_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
```

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

**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

Transformation Specifications That Apply for OASIS-C1

Care Plan Implementation Domain

*Depression Interventions Implemented

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

Diabetic Foot Care And Patient/Caregiver Education Implemented

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

```

Heart Failure Symptoms Addressed

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
  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

```

Pain Interventions Implemented

```

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

**Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented*

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

Education Domain

Drug Education On All Medications Provided To Patient/Caregiver

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 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

```

Prevention Domain

**Falls Prevention Steps Implemented*

```

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_Prvt_Implmnt_All = 0
    END IF
END IF

```

Pressure Ulcer Prevention Implemented

```

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

```

END IF
END IF

Transformation Specifications That Apply for OASIS-C2

Care Plan Implementation Domain

*Depression Interventions Implemented

IF M1700_COG_FUNCTION[1] = 04 OR M1710_WHEN_CONFUSED[1] = NA
OR M1720_WHEN_ANXIOUS[1] = NA OR M2401_INTRVTN_SMRY_DPRSN[2] =
NA OR M0100_ASSMT_REASON[2] = 08
THEN
Depression_Implmnt_All = MISSING
ELSEIF M2401_INTRVTN_SMRY_DPRSN[2] = 01
THEN
Depression_Implmnt_All = 1
ELSEIF M2401_INTRVTN_SMRY_DPRSN[2] = 00
THEN
Depression_Implmnt_All = 0
END IF

Diabetic Foot Care And Patient/Caregiver Education Implemented

IF M2401_INTRVTN_SMRY_DBTS_FT[2] = NA
OR M0100_ASSMT_REASON[2] = 08
THEN
Diabetic_Ft_Care_Implmnt_All = MISSING
ELSE
IF M2401_INTRVTN_SMRY_DBTS_FT[2] = 01
THEN
Diabetic_Ft_Care_Implmnt_All = 1
ELSEIF M2401_INTRVTN_SMRY_DBTS_FT[2] = 00
THEN
Diabetic_Ft_Care_Implmnt_All = 0
END IF
END IF

Heart Failure Symptoms Addressed

Note: This measure excludes patients who do not have a diagnosis of heart failure (M1501_SYMTM_HRT_FAILR_PTNTS[2] = NA), patients whose heart failure symptoms were not assessed (M1501_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
(M1501_SYMTM_HRT_FAILR_PTNTS[2] = 00).*

```
IF M1501_SYMTM_HRT_FAILR_PTNTS[2] = 01
  AND M0100_ASSMT_REASON[2] <> 08
THEN
  IF M1511_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
```

Pain Interventions Implemented

```
IF M2401_INTRVTN_SMRY_PAIN_MNTR[2] = NA
  OR M0100_ASSMT_REASON[2] = 08
THEN
  Pain_Implmnt_All = MISSING
ELSE
  IF M2401_INTRVTN_SMRY_PAIN_MNTR[2] = 01
  THEN
    Pain_Implmnt_All = 1
  ELSEIF M2401_INTRVTN_SMRY_PAIN_MNTR[2] = 00
  THEN
    Pain_Implmnt_All = 0
  END IF
END IF
```

**Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented*

```
IF M2401_INTRVTN_SMRY_PRSULC_WET[2] = NA
  OR M0100_ASSMT_REASON[2] = 08
THEN
  P_U_Implmnt_All = MISSING
ELSE
  IF M2401_INTRVTN_SMRY_PRSULC_WET[2] = 01
  THEN
    P_U_Implmnt_All = 1
```

```
ELSEIF M2401_INTRVTN_SMRY_PRSULC_WET[2] = 00
THEN
    P_U_Implmnt_All = 0
END IF
END IF
```

Education Domain

Drug Education On All Medications Provided To Patient/Caregiver

```
IF M2016_DRUG_EDCTN_INTRVTN[2] = NA
    OR M0100_ASSMT_REASON[2] = 08
THEN
    Drug_Ed_Implmnt_All = MISSING
ELSE
    IF M2016_DRUG_EDCTN_INTRVTN[2] = 01
    THEN
        Drug_Ed_Implmnt_All = 1
    ELSEIF M2016_DRUG_EDCTN_INTRVTN[2] = 00
    THEN
        Drug_Ed_Implmnt_All = 0
    END IF
END IF
```

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

```
IF M2001_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
```

Prevention Domain

**Falls Prevention Steps Implemented*

```
IF M2401_INTRVTN_SMRY_FALL_PRVNT[2] = NA
    OR M0100_ASSMT_REASON[2] = 08
```

```

THEN
    Fall_Prvt_Implmnt_All = MISSING
ELSE
    IF M2401_INTRVTN_SMRY_FALL_PRVNT[2] = 01
    THEN
        Fall_Prvt_Implmnt_All = 1
    ELSEIF M2401_INTRVTN_SMRY_FALL_PRVNT[2] = 00
    THEN
        Fall_Prvt_Implmnt_All = 0
    END IF
END IF

```

Pressure Ulcer Prevention Implemented

```

IF M2401_INTRVTN_SMRY_PRSULC_PRVN[2] = NA
    OR M0100_ASSMT_REASON[2] = 08
THEN
    P_U_Prvt_Implmnt_All = MISSING
ELSE
    IF M2401_INTRVTN_SMRY_PRSULC_PRVN[2] = 01
    THEN
        P_U_Prvt_Implmnt_All = 1
    ELSEIF M2401_INTRVTN_SMRY_PRSULC_PRVN[2] = 00
    THEN
        P_U_Prvt_Implmnt_All = 0
    END IF
END IF

```

Transformations That Apply When the Discharge/Transfer Assessment Is Oasis-C

Influenza Immunization Received For Current Flu Season

*Note: See date exclusions for all three influenza immunization measures below. If NA is marked **incorrectly**, it is ignored and the 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 incorrectly, it is ignored and the 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 **incorrectly**, it is ignored and the 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
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 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 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 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
```

END IF

Pneumococcal Vaccine Ever Received, Offered and Refused, or Contraindicated

```
IF M0100_ASSMT_REASON[2] = 08
THEN
    Pneumococcal_Recd_Rfsd_Cntr = MISSING
ELSEIF M1050_PPV_RCVD_AGENCY[2] = 01
THEN
    Pneumococcal_Recd_Rfsd_Cntr = 1
ELSEIF M1050_PPV_RCVD_AGENCY[2] = 00
THEN
    IF M1055_PPV_RSN_NOT_RCVD_AGENCY[2] = 04
    THEN
        Pneumococcal_Recd_Rfsd_Cntr = MISSING
    ELSEIF M1055_PPV_RSN_NOT_RCVD_AGENCY[2] = 01
        OR M1055_PPV_RSN_NOT_RCVD_AGENCY[2] = 02
        OR M1055_PPV_RSN_NOT_RCVD_AGENCY[2] = 03
    THEN
        Pneumococcal_Recd_Rfsd_Cntr = 1
    ELSE
```

Pneumococcal_Recd_Rfsd_Cntr = 0
END IF
END IF

**Transformations That Apply When the Discharge/Transfer Assessment Is
OASIS-C1 / ICD-9, OASIS-C1 / ICD-10 Version or OASIS-C2 Version**

Influenza Immunization Received For Current Flu Season

*Note: See date exclusions for all three influenza immunization measures below. If (M1041)
Influenza Vaccine Data Collection Period is marked No **incorrectly**, then the case is included in
the denominator.*

IF M0100_ASSMT_REASON[2] = 08
THEN
 Influenza_Immunization = MISSING
ELSEIF M1046_INFLNZ_RECD_CRNT_SEASON [2] = 01
 OR M1046_INFLNZ_RECD_CRNT_SEASON[2] = 02
 OR M1046_INFLNZ_RECD_CRNT_SEASON[2] = 03
THEN
 Influenza_Immunization = 1
ELSEIF M1046_INFLNZ_RECD_CRNT_SEASON [2] = 06
THEN
 Influenza_Immunization = MISSING
ELSE
 Influenza_Immunization = 0
END IF

Influenza Immunization Offered and Refused

*Note: See date exclusions for all three influenza immunization measures below. If (M1041)
Influenza Vaccine Data Collection Period is marked No **incorrectly**, then the case is included in
the denominator.*

IF M0100_ASSMT_REASON[2] = 08
THEN
 Influenza_Refused = MISSING
ELSEIF M1046_INFLNZ_RECD_CRNT_SEASON [2] = 04
THEN
 Influenza_Refused = 1
ELSEIF M1046_INFLNZ_RECD_CRNT_SEASON [2] = 06
THEN
 Influenza_Refused = MISSING
ELSE

**Transformations That Apply When the Discharge/Transfer Assessment Is
OASIS-C1 / ICD-9 Version or OASIS-C1 / ICD-10 Version**

Influenza_Refused = 0

END IF

Influenza Immunization Contraindicated

*Note: See date exclusions for all three influenza immunization measures below. If (M1041) Influenza Vaccine Data Collection Period is marked No **incorrectly**, then the case is included in the denominator.*

IF M0100_ASSMT_REASON[2] = 08

THEN

Influenza_Contraindicated = MISSING

ELSEIF M1046_INFLNZ_RECD_CRNT_SEASON [2] = 05

THEN

Influenza_Contraindicated = 1

ELSEIF M1046_INFLNZ_RECD_CRNT_SEASON [2] = 06

THEN

Influenza_Contraindicated = MISSING

ELSE

Influenza_Contraindicated = 0

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

**Transformations That Apply When the Discharge/Transfer Assessment Is
OASIS-C1 / ICD-9 Version or OASIS-C1 / ICD-10 Version**

Pneumococcal Vaccine Ever Received

```
IF M0100_ASSMT_REASON[2] = 08
THEN
    Pneumococcal_Vaccine = MISSING
ELSEIF M1051_PVX_RCVD_AGENCY[2] = 1
THEN
    Pneumococcal_Vaccine = 1
ELSEIF M1051_PVX_RCVD_AGENCY[2] = 0
THEN
    IF M1056_PVX_RSN_NOT_RCVD_AGENCY[2] = 03
    THEN
        Pneumococcal_Vaccine = MISSING
    ELSE
        Pneumococcal_Vaccine = 0
    END IF
END IF
```

Pneumococcal Vaccine Offered and Refused

```
IF M0100_ASSMT_REASON[2] = 08
THEN
    Pneumococcal_Refused = MISSING
ELSEIF M1051_PVX_RCVD_AGENCY[2] = 1
THEN
    Pneumococcal_Refused = 0
ELSEIF M1056_PVX_RSN_NOT_RCVD_AGENCY[2] = 03
THEN
    Pneumococcal_Refused = MISSING
ELSEIF M1056_PVX_RSN_NOT_RCVD_AGENCY[2] = 01
THEN
    Pneumococcal_Refused = 1
ELSE
    Pneumococcal_Refused = 0
END IF
```

**Transformations That Apply When the Discharge/Transfer Assessment Is
OASIS-C1 / ICD-9 Version or OASIS-C1 / ICD-10 Version**

Pneumococcal Vaccine Contraindicated

```
IF M0100_ASSMT_REASON[2] = 08
THEN
    Pneumococcal_Contraindicated = MISSING
ELSEIF M1051_PVX_RCVD_AGENCY[2] = 1
THEN
    Pneumococcal_Contraindicated = 0
ELSEIF M1056_PVX_RSN_NOT_RCVD_AGENCY[2] = 03
THEN
    Pneumococcal_Contraindicated = MISSING
ELSEIF M1056_PVX_RSN_NOT_RCVD_AGENCY[2] = 02
THEN
    Pneumococcal_Contraindicated = 1
ELSE
    Pneumococcal_Contraindicated = 0
END IF
```

Pneumococcal Vaccine Ever Received, Offered and Refused, or Contraindicated

```
IF M0100_ASSMT_REASON[2] = 08
THEN
    Pneumococcal_Recd_Rfsd_Cntr = MISSING
ELSEIF M1051_PVX_RCVD_AGENCY[2] = 1
THEN
    Pneumococcal_Recd_Rfsd_Cntr = 1
ELSEIF M1051_PVX_RCVD_AGENCY[2] = 0
THEN
    IF M1056_PVX_RSN_NOT_RCVD_AGENCY[2] = 03
    THEN
        Pneumococcal_Recd_Rfsd_Cntr = MISSING
    ELSEIF M1056_PVX_RSN_NOT_RCVD_AGENCY[2] = 01
        OR M1056_PVX_RSN_NOT_RCVD_AGENCY[2] = 02
    THEN
        Pneumococcal_Recd_Rfsd_Cntr = 1
    ELSE
        Pneumococcal_Recd_Rfsd_Cntr = 0
    END IF
END IF
```
