HOME HEALTH PROCESS QUALITY REPORTS:
TECHNICAL DOCUMENTATION OF MEASURES

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

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## CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTRODUCTION</td>
<td>1</td>
</tr>
<tr>
<td>Episodes of Care Included in Process Quality Reports</td>
<td>1</td>
</tr>
<tr>
<td>Assumptions and Conventions</td>
<td>2</td>
</tr>
<tr>
<td>PROCESS MEASURE TRANSFORMATION SPECIFICATIONS</td>
<td>3</td>
</tr>
<tr>
<td>Measures</td>
<td>3</td>
</tr>
<tr>
<td>PROCESS QUALITY MEASURES DATA TRANSFORMATION PSEUDO-CODE</td>
<td>6</td>
</tr>
<tr>
<td>Timely Care Domain</td>
<td>6</td>
</tr>
<tr>
<td>Timely Initiation of Care</td>
<td>6</td>
</tr>
<tr>
<td>Care Coordination Domain</td>
<td>7</td>
</tr>
<tr>
<td>Physician Notification Guidelines Established</td>
<td>7</td>
</tr>
<tr>
<td>Assessment Domain</td>
<td>8</td>
</tr>
<tr>
<td>Depression Assessment Conducted</td>
<td>8</td>
</tr>
<tr>
<td>Multifactor Fall Risk Assessment Conducted For Patients 65 And Over</td>
<td>8</td>
</tr>
<tr>
<td>Pain Assessment Conducted</td>
<td>9</td>
</tr>
<tr>
<td>Pressure Ulcer Risk Assessment Conducted</td>
<td>9</td>
</tr>
<tr>
<td>Care Planning Domain</td>
<td>10</td>
</tr>
<tr>
<td>Depression Interventions In Plan Of Care</td>
<td>10</td>
</tr>
<tr>
<td>Diabetic Foot Care And Patient Education In Plan Of Care</td>
<td>10</td>
</tr>
<tr>
<td>Falls Prevention Steps In Plan Of Care</td>
<td>10</td>
</tr>
<tr>
<td>Pain Interventions In Plan Of Care</td>
<td>11</td>
</tr>
<tr>
<td>Pressure Ulcer Prevention In Plan Of Care</td>
<td>11</td>
</tr>
<tr>
<td>Pressure Ulcer Treatment Based On Principles Of Moist Wound Healing In Plan Of Care</td>
<td>12</td>
</tr>
<tr>
<td>Care Plan Implementation Domain</td>
<td>12</td>
</tr>
<tr>
<td>Depression Interventions Implemented During All Episodes Of Care</td>
<td>12</td>
</tr>
<tr>
<td>Depression Interventions Implemented During Short Term Episodes Of Care</td>
<td>12</td>
</tr>
<tr>
<td>Depression Interventions Implemented During Long Term Episodes Of Care</td>
<td>13</td>
</tr>
<tr>
<td>Diabetic Foot Care And Patient/Caregiver Education Implemented During All Episodes Of Care</td>
<td>13</td>
</tr>
<tr>
<td>Diabetic Foot Care And Patient/Caregiver Education Implemented During Short Term Episodes Of Care</td>
<td>13</td>
</tr>
<tr>
<td>Diabetic Foot Care And Patient/Caregiver Education Implemented During Long Term Episodes Of Care</td>
<td>14</td>
</tr>
<tr>
<td>Heart Failure Symptoms Addressed During All Episodes Of Care</td>
<td>14</td>
</tr>
<tr>
<td>Heart Failure Symptoms Addressed During Short Term Episodes Of Care</td>
<td>14</td>
</tr>
<tr>
<td>Heart Failure Symptoms Addressed During Long Term Episodes Of Care</td>
<td>15</td>
</tr>
<tr>
<td>Pain Interventions Implemented During All Episodes Of Care</td>
<td>15</td>
</tr>
</tbody>
</table>
CONTENTS (continued)

Pain Interventions Implemented During Short Term Episodes Of Care.................. 15
Pain Interventions Implemented During Long Term Episodes Of Care.................. 16
Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing
Implemented During All Episodes Of Care............................................................. 16
Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing
Implemented During Short Term Episodes Of Care ........................................... 16
Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing
Implemented During Long Term Episodes Of Care........................................... 17
Education Domain ............................................................................................. 17
Drug Education on High Risk Medications Provided To Patient/Caregiver at Start
of Episode........................................................................................................... 17
Drug Education On All Medications Provided To Patient/Caregiver During All
Episodes Of Care ................................................................................................. 17
Drug Education On All Medications Provided To Patient/Caregiver During Short
Term Episodes Of Care ...................................................................................... 18
Drug Education On All Medications Provided To Patient/Caregiver During Long
Term Episodes Of Care ...................................................................................... 18
Prevention Domain ............................................................................................. 18
Falls Prevention Steps Implemented For All Episodes Of Care ......................... 18
Falls Prevention Steps Implemented For Short Term Episodes Of Care ............... 19
Falls Prevention Steps Implemented For Long Term Episodes Of Care ............... 19
Influenza Immunization Received For Current Flu Season .................................. 19
Influenza Immunization Offered and Refused ...................................................... 20
Influenza Immunization Contraindicated ............................................................. 20
Date Exclusions for Influenza Immunization Measures ......................................... 21
Pneumococcal Polysaccharide Vaccine Ever Received ......................................... 21
Pneumococcal Polysaccharide Vaccine Offered and Refused ............................... 22
Pneumococcal Polysaccharide Vaccine Contraindicated ....................................... 22
Potential Medication Issues Identified And Timely Physician Contact at Start of
Episode ................................................................................................................ 23
Potential Medication Issues Identified And Timely Physician Contact During All
Episodes Of Care ................................................................................................. 23
Potential Medication Issues Identified And Timely Physician Contact During
Short Term Episodes Of Care ............................................................................. 24
Potential Medication Issues Identified And Timely Physician Contact During
Long Term Episodes Of Care ............................................................................. 24
Pressure Ulcer Prevention Implemented During All Episodes of Care................. 24
CONTENTS (continued)

<table>
<thead>
<tr>
<th>Page</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Ulcer Prevention Implemented During Short Term Episodes Of Care</td>
<td>25</td>
</tr>
<tr>
<td>Pressure Ulcer Prevention Implemented During Long Term Episodes Of Care</td>
<td>25</td>
</tr>
<tr>
<td>Exclusions Based on Patient’s Level of Consciousness</td>
<td>26</td>
</tr>
<tr>
<td>Exclusions Based on Discharge Reason for Assessment</td>
<td>26</td>
</tr>
</tbody>
</table>
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
<table>
<thead>
<tr>
<th>Short Measure Name</th>
<th>Process Measure Domain</th>
<th>Descriptive Measure Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timely_Care</td>
<td>Timely Care Domain</td>
<td>Timely Initiation Of Care</td>
</tr>
<tr>
<td>MD_Notification</td>
<td>Care Coordination Domain</td>
<td>Physician Notification Guidelines Established</td>
</tr>
<tr>
<td>Depression_Asmt</td>
<td>Assessment Domain</td>
<td>Depression Assessment Conducted</td>
</tr>
<tr>
<td>Fall_Risk_Asmt</td>
<td></td>
<td>Multifactor Fall Risk Assessment Conducted For Patients 65 And Over</td>
</tr>
<tr>
<td>Pain_Asmt</td>
<td></td>
<td>Pain Assessment Conducted</td>
</tr>
<tr>
<td>P_U_Risk_Asmt</td>
<td></td>
<td>Pressure Ulcer Risk Assessment Conducted</td>
</tr>
<tr>
<td>Depression_POC</td>
<td>Care Planning Domain</td>
<td>Depression Interventions In Plan Of Care</td>
</tr>
<tr>
<td>Diabetic_Ft_Care_POC</td>
<td></td>
<td>Diabetic Foot Care And Patient Education In Plan Of Care</td>
</tr>
<tr>
<td>Falls_Prnt_POC</td>
<td></td>
<td>Falls Prevention Steps In Plan Of Care</td>
</tr>
<tr>
<td>Pain_POC</td>
<td></td>
<td>Pain Interventions In Plan Of Care</td>
</tr>
<tr>
<td>P_U_Prnt_POC</td>
<td></td>
<td>Pressure Ulcer Prevention In Plan Of Care</td>
</tr>
<tr>
<td>P_U_Healing_POC</td>
<td></td>
<td>Pressure Ulcer Treatment Based On Principles Of Moist Wound Healing In Plan Of Care</td>
</tr>
<tr>
<td>Depression_Implmnt_S_T</td>
<td></td>
<td>Depression Interventions Implemented During Short Term Episodes Of Care</td>
</tr>
<tr>
<td>Depression_Implmnt_L_T</td>
<td></td>
<td>Depression Interventions Implemented During Long Term Episodes Of Care</td>
</tr>
<tr>
<td>Depression_Implmnt_All</td>
<td></td>
<td>Depression Interventions Implemented During All Episodes Of Care</td>
</tr>
<tr>
<td>Diabetic_Ft_Care_Implmnt_S_T</td>
<td></td>
<td>Diabetic Foot Care And Patient/Caregiver Education Implemented During Short Term Episodes Of Care</td>
</tr>
<tr>
<td>Diabetic_Ft_Care_Implmnt_L_T</td>
<td></td>
<td>Diabetic Foot Care And Patient/Caregiver Education Implemented During Long Term Episodes Of Care</td>
</tr>
<tr>
<td>Diabetic_Ft_Care_Implmnt_All</td>
<td></td>
<td>Diabetic Foot Care And Patient/Caregiver Education Implemented During All Episodes Of Care</td>
</tr>
</tbody>
</table>
**Process Measure Domain and Descriptive Measure Name**

<table>
<thead>
<tr>
<th>Short Measure Name</th>
<th>Descriptive Measure Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heart Failure_Implmnt_S_T</td>
<td>Heart Failure Symptoms Addressed During Short Term Episodes Of Care</td>
</tr>
<tr>
<td>Heart Failure_Implmnt_L_T</td>
<td>Heart Failure Symptoms Addressed During Long Term Episodes Of Care</td>
</tr>
<tr>
<td>Heart Failure_Implmnt_All</td>
<td>Heart Failure Symptoms Addressed During All Episodes Of Care</td>
</tr>
<tr>
<td>Pain_Implmnt_S_T</td>
<td>Pain Interventions Implemented During Short Term Episodes Of Care</td>
</tr>
<tr>
<td>Pain_Implmnt_L_T</td>
<td>Pain Interventions Implemented During Long Term Episodes Of Care</td>
</tr>
<tr>
<td>Pain_Implmnt_All</td>
<td>Pain Interventions Implemented During All Episodes Of Care</td>
</tr>
<tr>
<td>P_U_Implmnt_S_T</td>
<td>Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented During Short Term Episodes Of Care</td>
</tr>
<tr>
<td>P_U_Implmnt_L_T</td>
<td>Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented During Long Term Episodes Of Care</td>
</tr>
<tr>
<td>P_U_Implmnt_All</td>
<td>Treatment Of Pressure Ulcers Based On Principles Of Moist Wound Healing Implemented During All Episodes Of Care</td>
</tr>
<tr>
<td>Drug_Ed_Hi_RiskSOC</td>
<td>Drug Education On High Risk Medications Provided To Patient/Caregiver At Start Of Episode</td>
</tr>
<tr>
<td>Drug_Ed_Implmnt_S_T</td>
<td>Drug Education On All Medications Provided To Patient/Caregiver During Short Term Episodes Of Care</td>
</tr>
<tr>
<td>Drug_Ed_Implmnt_L_T</td>
<td>Drug Education On All Medications Provided To Patient/Caregiver During Long Term Episodes Of Care</td>
</tr>
<tr>
<td>Drug_Ed_Implmnt_All</td>
<td>Drug Education On All Medications Provided To Patient/Caregiver During All Episodes Of Care</td>
</tr>
<tr>
<td>Fall_Prvnt_Implmnt_S_T</td>
<td>Falls Prevention Steps Implemented For Short Term Episodes Of Care</td>
</tr>
<tr>
<td>Fall_Prvnt_Implmnt_L_T</td>
<td>Falls Prevention Steps Implemented For Long Term Episodes Of Care</td>
</tr>
</tbody>
</table>

**Education Domain**

<table>
<thead>
<tr>
<th>Short Measure Name</th>
<th>Descriptive Measure Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drug_Ed_Implmnt_ALL</td>
<td>Drug Education On High Risk Medications Provided To Patient/Caregiver At Start Of Episode</td>
</tr>
<tr>
<td>Drug_Ed_Implmnt_S_T</td>
<td>Drug Education On All Medications Provided To Patient/Caregiver During Short Term Episodes Of Care</td>
</tr>
<tr>
<td>Drug_Ed_Implmnt_L_T</td>
<td>Drug Education On All Medications Provided To Patient/Caregiver During Long Term Episodes Of Care</td>
</tr>
<tr>
<td>Drug_Ed_Implmnt_ALL</td>
<td>Drug Education On All Medications Provided To Patient/Caregiver During All Episodes Of Care</td>
</tr>
<tr>
<td>Fall_Prvnt_Implmnt_S_T</td>
<td>Falls Prevention Steps Implemented For Short Term Episodes Of Care</td>
</tr>
<tr>
<td>Fall_Prvnt_Implmnt_L_T</td>
<td>Falls Prevention Steps Implemented For Long Term Episodes Of Care</td>
</tr>
<tr>
<td>Process Measure Domain and Descriptive Measure Name</td>
<td>Short Measure Name</td>
</tr>
<tr>
<td>-----------------------------------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Falls Prevention Steps Implemented For All Episodes Of Care</td>
<td>Fall_Prvt_Implmnt_All</td>
</tr>
<tr>
<td>Influenza Immunization Received For Current Flu Season</td>
<td>Influenza_IMMnztion</td>
</tr>
<tr>
<td>Influenza Immunization Offered and Refused</td>
<td>Influenza_Refused</td>
</tr>
<tr>
<td>Influenza Immunization Contraindicated</td>
<td>Influenza_Cntrindcctd</td>
</tr>
<tr>
<td>Pneumococcal Polysaccharide Vaccine Ever Received</td>
<td>Pneumococcal_Vaccine</td>
</tr>
<tr>
<td>Pneumococcal Polysaccharide Vaccine Offered and Refused</td>
<td>Pneumococcal_Refused</td>
</tr>
<tr>
<td>Pneumococcal Polysaccharide Vaccine Contraindicated</td>
<td>Pneumococcal_Cntrindcctd</td>
</tr>
<tr>
<td>Potential Medication Issues Identified And Timely Physician Contact At Start Of Episode</td>
<td>Med_Monitoring_SOC</td>
</tr>
<tr>
<td>Potential Medication Issues Identified And Timely Physician Contact During Short Term Episodes Of Care</td>
<td>Med_Monitoring_Implmnt_S_T</td>
</tr>
<tr>
<td>Potential Medication Issues Identified And Timely Physician Contact During Long Term Episodes Of Care</td>
<td>Med_Monitoring_Implmnt_L_T</td>
</tr>
<tr>
<td>Potential Medication Issues Identified And Timely Physician Contact During All Episodes Of Care</td>
<td>Med_Monitoring_Implmnt_All</td>
</tr>
<tr>
<td>Pressure Ulcer Prevention Implemented During Short Term Episodes Of Care</td>
<td>P_U_Prvt_Implmnt_S_T</td>
</tr>
<tr>
<td>Pressure Ulcer Prevention Implemented During Long Term Episodes Of Care</td>
<td>P_U_Prvt_Implmnt_L_T</td>
</tr>
<tr>
<td>Pressure Ulcer Prevention Implemented During All Episodes of Care</td>
<td>P_U_Prvt_Implmnt_All</td>
</tr>
</tbody>
</table>
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
    THEN
      Timely_Care = 1
    ELSE
      Timely_Care = 0
    ENDIF
  ELSE
    THEN
      Timely_Care = 1
    ELSEIF M1000_DC_NONE_14_DA[1] = 1
    THEN
      Timely_Care = 0
    THEN
      THEN
        Timely_Care = 1
      ELSE
        Timely_Care = 0
      END IF
    ELSE
      Timely_Care = 0
    END IF
  END IF
END IF
ELSE
  IF M0102_PHYSN_ORDRD_SOCROC_DT_NA[1] <> 1
  THEN
    THEN
      Timely_Care = 1
    ELSE
      Timely_Care = 0
    END IF
  ELSE
    THEN
      Timely_Care = 1
    ELSEIF M1000_DC_NONE_14_DA[1] = 1
    THEN
      Timely_Care = 0
    THEN
      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_SPECF[1] = NA
THEN
  MD_Notification = MISSING
IF M2250_PLAN_SMRY_PTNT_SPECF[1] = 01
THEN
MD_Notification = 1
ELSEIF M2250_PLAN_SMRY_PTNT_SPECF[1] = 00
THEN
   MD_Notification = 0
END IF

Assessment Domain

Depression Assessment Conducted

IF M1730_STDZ_DPRSNS_SCRNG[1] = 01
   OR M1730_STDZ_DPRSNS_SCRNG[1] = 02
   OR M1730_STDZ_DPRSNS_SCRNG[1] = 03
THEN
   Depression_Asmt = 1
ELSEIF M1730_STDZ_DPRSNS_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]))))
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_DPRSNS_INTRVNTN[1] = NA
THEN
    Depression_POC = MISSING
ELSE
    IF M2250_PLAN_SMRY_DPRSNS_INTRVNTN[1] = 01
    THEN
        Depression_POC = 1
    ELSEIF M2250_PLAN_SMRY_DPRSNS_INTRVNTN[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_Prvnt_POC = MISSING
ELSE
IF M2250_PLAN_SMRY_FALL_PRVNT[1] = 01 THEN  
  Falls_Prvn_POC = 1  
ELSEIF M2250_PLAN_SMRY_FALL_PRVNT[1] = 00 THEN  
  Falls_Prvn_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
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
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

THEN
  Drug_Ed_Implmnt_All = MISSING
ELSE
  THEN
    Drug_Ed_Implmnt_All = 1
  ELSEIF M2015_DRUG_EDCTN_INTRVTN[2] = 00
  THEN

03/31/2010 Home Health Process Quality Reports: Technical Documentation of Measures
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_Prvnt_Implmnt_All = MISSING
ELSE
    IF M2400_INTRVTN_SMRY_FALL_PRVNT[2] = 01 THEN
        Fall_Prvnt_Implmnt_All = 1
    ELSEIF M2400_INTRVTN_SMRY_FALL_PRVNT[2] = 00 THEN
        Fall_Prvnt_Implmnt_All = 0
    END IF
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 season), then date exclusions apply. However, if NA is marked incorrectly, then case is included in the denominator/

IF M1040_INFLNZ_RCVD_AGNCY[2] = 01
THEN
    Influenza_Immunization = 1
ELSEIF M1040_INFLNZ_RCVD_AGNCY[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
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 60
THEN
    Influenza_Immunization = 1
ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 70
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 08
THEN
    Influenza_Immunization = 1
ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 09
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 38
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 68
THEN
    Influenza_Immunization = 1
ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 69
THEN
    Influenza_Immunization = 1
ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 77
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 89
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 06
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 76
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 05
THEN
    Influenza_Immunization = 1
THEN
    Influenza_Immunization = 1
ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 03
THEN
    Influenza_Immunization = 1
ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 02
THEN
    Influenza_Immunization = 1
ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 01
THEN
    Influenza_Immunization = 1
ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 00
THEN
    Influenza_Immunization = 1
ELSE
    Influenza_Immunization = MISSING
ENDIF
THEN
    Influenza_Immunization = 1
ELSE
    Influenza_Immunization = 0
END IF
ELSEIF M1040_INFLNZ_RCVD_AGNCY[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_AGNCY[2] = 01
    OR M1040_INFLNZ_RCVD_AGNCY[2] = NA
THEN
    Influenza_Refused = 0
ELSEIF M1040_INFLNZ_RCVD_AGNCY[2] = 00
THEN
    IF M1045_INFLNZ_RSN_NOT_RCVD[2] = 05
    THEN
        Influenza_Refused = MISSING
    ELSEIF M1045_INFLNZ_RSN_NOT_RCVD[2] = 03
    THEN
        Influenza_Refused = 1
    ELSE
        Influenza_Refused = 0
    END IF
END IF

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

IF M1040_INFLNZ_RCVD_AGNCY[2] = 01
    OR M1040_INFLNZ_RCVD_AGNCY[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
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_AGNCY[2] = 00 THEN
   IF M1055_PPV_RSN_NOT_RCVD_AGNCY[2] = 04 THEN
      Pneumococcal_Vaccine = MISSING
   ELSEIF M1055_PPV_RSN_NOT_RCVD_AGNCY[2] = 01 THEN
      Pneumococcal_Vaccine = 1
   ELSE
      Pneumococcal_Vaccine = 0
   END IF
END IF

Pneumococcal Polysaccharide Vaccine Offered and Refused

IF M1050_PPV_RCVD_AGNCY[2] = 01 THEN
   Pneumococcal_Refused = 0
ELSEIF M1050_PPV_RCVD_AGNCY[2] = 00 THEN
   IF M1055_PPV_RSN_NOT_RCVD_AGNCY[2] = 04 THEN
      Pneumococcal_Refused = MISSING
   ELSEIF M1055_PPV_RSN_NOT_RCVD_AGNCY[2] = 02 THEN
      Pneumococcal_Refused = 1
   ELSE
      Pneumococcal_Refused = 0
   END IF
END IF

Pneumococcal Polysaccharide Vaccine Contraindicated

IF M1050_PPV_RCVD_AGNCY[2] = 01 THEN
   Pneumococcal_Contraindicated = 0
ELSEIF M1050_PPV_RCVD_AGNCY[2] = 00 THEN

IF M1055_PPV_RSN_NOT_RCVD_AGNCY[2] = 04 THEN
    Pneumococcal_Contraindicated = MISSING
ELSEIF M1055_PPV_RSN_NOT_RCVD_AGNCY[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

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

    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
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_SMRYPRSULC_PRVN[2] = NA
THEN
   P_U_Prvnt_Implmnt_All = MISSING
ELSE
   IF M2400_INTRVTN_SMRY_PRSULC_PRVN[2] = 01
      THEN
         P_U_Prvnt_Implmnt_All = 1
   ELSEIF M2400_INTRVTN_SMRY_PRSULC_PRVN[2] = 00
      THEN
         P_U_Prvnt_Implmnt_All = 0
   END IF
END IF
Pressure Ulcer Prevention Implemented During Short Term Episodes Of Care

IF ST_Episode = 1
THEN
    P_U_Prvnt_Implmnt_S_T = P_U_Prvnt_Implmnt_All
ELSE
    P_U_Prvnt_Implmnt_S_T = MISSING
END IF

Pressure Ulcer Prevention Implemented During Long Term Episodes Of Care

IF ST_Episode = 0
THEN
    P_U_Prvnt_Implmnt_L_T = P_U_Prvnt_Implmnt_All
ELSE
    P_U_Prvnt_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.

\[
\text{IF } M1710\_\text{WHEN\_CONFUSED}[1] = \text{NA OR } M1720\_\text{WHEN\_ANXIOUS}[1] = \text{NA}
\]
\[
\text{THEN}
\]
\[
\begin{align*}
\text{Depression\_Asmt} &= \text{MISSING} \\
\text{Depression\_POC} &= \text{MISSING} \\
\text{Depression\_Implmnt\_S\_T} &= \text{MISSING} \\
\text{Depression\_Implmnt\_L\_T} &= \text{MISSING} \\
\text{Depression\_Implmnt\_All} &= \text{MISSING}
\end{align*}
\]
\[
\text{END IF}
\]

**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.

\[
\text{IF } M0100\_\text{ASSMT\_REASON}[2] = 08
\]
\[
\text{THEN}
\]
\[
\begin{align*}
\text{Depression\_Implmnt\_S\_T} &= \text{MISSING} \\
\text{Depression\_Implmnt\_L\_T} &= \text{MISSING} \\
\text{Depression\_Implmnt\_All} &= \text{MISSING} \\
\text{Diabetic\_Ft\_Care\_Implmnt\_S\_T} &= \text{MISSING} \\
\text{Diabetic\_Ft\_Care\_Implmnt\_L\_T} &= \text{MISSING} \\
\text{Diabetic\_Ft\_Care\_Implmnt\_All} &= \text{MISSING} \\
\text{Heart\_Failure\_Implmnt\_S\_T} &= \text{MISSING} \\
\text{Heart\_Failure\_Implmnt\_L\_T} &= \text{MISSING} \\
\text{Heart\_Failure\_Implmnt\_All} &= \text{MISSING} \\
\text{Pain\_Implmnt\_S\_T} &= \text{MISSING} \\
\text{Pain\_Implmnt\_L\_T} &= \text{MISSING} \\
\text{Pain\_Implmnt\_All} &= \text{MISSING} \\
\text{P\_U\_Implmnt\_S\_T} &= \text{MISSING} \\
\text{P\_U\_Implmnt\_L\_T} &= \text{MISSING} \\
\text{P\_U\_Implmnt\_All} &= \text{MISSING} \\
\text{Drug\_Ed\_Hi\_Risk\_SOC} &= \text{MISSING} \\
\text{Drug\_Ed\_Implmnt\_S\_T} &= \text{MISSING} \\
\text{Drug\_Ed\_Implmnt\_L\_T} &= \text{MISSING}
\end{align*}
\]
Drug_Ed_Implmnt_All = MISSING
Fall_Prvnt_Implmnt_S_T = MISSING
Fall_Prvnt_Implmnt_L_T = MISSING
Fall_Prvnt_Implmnt_All = MISSING
Influenza_Immunization = MISSING
Influenza_Refused = MISSING
Influenza_Contraindicated = MISSING
Pneumococcal_Vaccine = MISSING
Pneumococcal_Refused = MISSING
Pneumococcal_Contraindicated = MISSING
Med_Monitoring_SOC = MISSING
Med_Monitoring_Implmnt_S_T = MISSING
Med_Monitoring_Implmnt_L_T = MISSING
Med_Monitoring_Implmnt_All = MISSING
P_U_Prvnt_Implmnt_S_T = MISSING
P_U_Prvnt_Implmnt_L_T = MISSING
P_U_Prvnt_Implmnt_All = MISSING

END IF