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OUTCOME-BASED QUALITY IMPROVEMENT REPORTS:
TECHNICAL DOCUMENTATION OF MEASURES

INTRODUCTION

This document provides definitions of measures that appear in Outcome-Based Quality Improvement Reports, including detailed specifications for calculating these measures based on OASIS assessment data. For a complete description of these reports, including how to interpret and use the information presented, refer to the *Outcome-Based Quality Improvement Manual*, which is available from the Centers for Medicare & Medicaid Services (CMS) in three parts:

1. Outcome-Based Quality Improvement (OBQI) Implementation Manual;
2. Accessing OBQI & OBQM Reports - Using the CASPER Reporting System;
3. Supplement to the OBQI Manual - Interpreting and Using the 3-Bar Outcome Reports.

**Episodes of Care Included in Outcome and Case Mix Reports**

The unit of analysis for both outcome and case mix reports is an episode of care, defined as starting with an admission to home health care (M0100 Reason for assessment = 01 or 02) 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.

**Assumptions and Conventions**

The following transformations result in measures with numeric values. Where a measure represents presence of an attribute or occurrence of an event, “1” indicates that the attribute is present or the event occurred, while “0” indicates the attribute is absent or the event did not occur. Where a measure represents a relative amount, degree, or severity of a patient characteristic or condition, a numeric scale value is assigned. The range of scale values for a particular measure is determined by the OASIS item(s) used to calculate that measure. A code of ‘MISSING’ indicates that the case is excluded from analysis for that particular measure, either because the measure is not applicable or because the data item on which that measure is based has been indicated as “unknown”. In some circumstances, an entire case will be excluded from analysis because the data submitted do not meet the published data specifications for OASIS. This usually occurs only for data submitted prior to rigorous automated enforcement of data specifications (resulting in rejection of non-compliant data records) implemented in April of 2000.

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1 The three sections of the *Outcome-Based Quality Improvement Manual* are available for download from the CMS web site at: http://www.cms.hhs.gov/oasis/obqi.asp.
OASIS data items are referred to in this documentation using field names specified in OASIS Data Submission Specifications published by CMS (Version 1.04 for pre-PPS submissions, Version 1.20 for post-PPS submissions). As field names are the same across assessment time points, presence of [2] at the end of a field name indicates that this data item is taken from the end point assessment for an episode. For example, M0640_CUR_GROOMING refers to the ‘Ability to Groom Oneself’ item assessed at start or resumption of care. The field name M0100_ASSMT_REASON[2] refers to the ‘Reason for Assessment’ item at discharge (including death) or transfer to inpatient facility. Although some data items are collected at only one of the two time points, the [2] convention is used for all items that refer to the end point assessment to avoid possible misinterpretation. Note that for all Case Mix measures except those related to length of stay, data from the beginning assessment only are used. A few outcome measures are calculated using data from the episode of care end point assessment only, while most outcome measures use data from both the beginning and end point assessments.

**Organization of Technical Documentation**

The remainder of this document is divided into three sections. Outcome measures appearing in either the Risk-Adjusted Outcome Report or the Descriptive Outcome Report are described in the first section. The second section is devoted to measures that appear in the Case Mix Profile. The third and final section describes the calculation of measures that are used for risk adjustment of outcome reports. These measures are used to calculate predicted outcome values using statistical risk models, detailed descriptions of which are included in *Documentation of Prediction Models Used for Risk Adjustment of Home Health Agency Outcome Reports*, available at http://www.cms.hhs.gov/oasis/riskadj1appa.pdf.
OUTCOME MEASURE TRANSFORMATION DOCUMENTATION

Outcome Measures
Measures included in either the Risk-Adjusted Outcome Report or the Descriptive Outcome Report that are part of the OBQI report package are referred to as follows in the transformation pseudo-code below:

End Result Outcomes

Improvement in Grooming ............................................................ IMP_GROOMING
Stabilization in Grooming ............................................................ STAB_GROOMING
Improvement in Upper Body Dressing ......................................... IMP_UPPERDRESS
Improvement in Lower Body Dressing ......................................... IMP_LOWERDRESS
Improvement in Bathing ............................................................... IMP_BATHING
Stabilization in Bathing ............................................................... STAB_BATHING
Improvement in Toileting ............................................................ IMP_TOILETING
Improvement in Transferring ....................................................... IMP_TRANSFERRING
Stabilization in Transferring ....................................................... STAB_TRANSFERRING
Improvement in Ambulation/Locomotion ..................................... IMP_AMBULATION
Improvement in Eating ............................................................... IMP_EATING
Improvement in Light Meal Preparation ...................................... IMP_LIGHTMEAL
Stabilization in Light Meal Preparation ....................................... STAB_LIGHTMEAL
Improvement in Laundry ............................................................. IMP_LAUNDRY
Stabilization in Laundry ............................................................. STAB_LAUNDRY
Improvement in Housekeeping ................................................... IMP_HOUSEKEEP
Stabilization in Housekeeping ................................................... STAB_HOUSEKEEP
Improvement in Shopping .......................................................... IMP_SHOPPING
Stabilization in Shopping ........................................................... STAB_SHOPPING
Improvement in Phone Use ........................................................ IMP_PHONE
Stabilization in Phone Use ......................................................... STAB_PHONE
Improvement in Management of Oral Medications ....................... IMP_ORALMEDS
Stabilization in Management of Oral Medications ....................... STAB_ORALMEDS
Improvement in Speech and Language ....................................... IMP_SPEECH
Stabilization in Speech and Language ........................................ STAB_SPEECH
Improvement in Pain Interfering with Activity ............................ IMP_PAIN
Improvement in Number of Surgical Wounds ............................... IMP_NUMBERWOUNDS
Improvement in Status of Surgical Wounds .................................. IMP_STATUSWOUNDS
Improvement in Dyspnea ........................................................... IMP_DYSPNEA
Improvement in Urinary Tract Infection ...................................... IMP_UTI
Improvement in Urinary Incontinence ........................................ IMP_INCONT
Improvement in Bowel Incontinence .......................................... IMP_BOWELINCONT
Improvement in Cognitive Functioning ..................................... IMP_COGNITIVE
Stabilization in Cognitive Functioning ..................................... STAB_COGNITIVE
Improvement in Confusion Frequency ....................................... IMP_CONFUSION
Improvement in Anxiety Level ..................................................... IMP_ANXIETY
Stabilization in Anxiety Level ..................................................... STAB_ANXIETY
Improvement in Behavior Problem Frequency ............................ IMP_BEHAVIOR

Utilization Outcomes

Any Emergent Care ................................................................. UTIL_EMERGENT
Discharged to Community ......................................................... UTIL_DCCOMM
Acute Care Hospitalization ....................................................... UTIL_HOSP
End Result Outcomes

End Result Outcomes are outcomes related to activities of daily living, instrumental activities of daily living, physiologic outcomes, and cognitive/social/behavioral outcomes. End Result Outcomes are not computed for patients who were transferred to inpatient facility [RFA = 06, 07] or for patients who died [RFA = 08].

IF M0100_ASSMT_REASON[2] = 09 THEN

**Improvement in Grooming and Stabilization in Grooming**

IF M0640_CUR_GROOMING NOT = 00, 01, 02, 03 OR M0640_CUR_GROOMING[2] NOT = 00, 01, 02, 03 THEN

IMP_GROOMING = MISSING
STAB_GROOMING = MISSING [SHOULD NEVER OCCUR]
ELSE

IF (M0640_CUR_GROOMING = 01 AND M0640_CUR_GROOMING[2] = 00) OR (M0640_CUR_GROOMING = 02 AND M0640_CUR_GROOMING[2] = 00, 01) OR (M0640_CUR_GROOMING = 03 AND M0640_CUR_GROOMING[2] = 00, 01, 02) THEN

IMP_GROOMING = 1
ELSE IF (M0640_CUR_GROOMING = 01 AND M0640_CUR_GROOMING[2] = 01, 02, 03) OR (M0640_CUR_GROOMING = 02 AND M0640_CUR_GROOMING[2] = 02, 03) OR (M0640_CUR_GROOMING = 03 AND M0640_CUR_GROOMING[2] = 03) THEN

IMP_GROOMING = 0
ELSE IF M0640_CUR_GROOMING = 00 THEN

IMP_GROOMING = MISSING
IF (M0640_CUR_GROOMING = 00 AND M0640_CUR_GROOMING[2] = 00) OR (M0640_CUR_GROOMING = 01 AND M0640_CUR_GROOMING[2] = 00, 01) OR (M0640_CUR_GROOMING = 02 AND M0640_CUR_GROOMING[2] = 00, 01, 02) THEN

STAB_GROOMING = 1
ELSE IF (M0640_CUR_GROOMING = 00 AND M0640_CUR_GROOMING[2] = 01, 02, 03) OR (M0640_CUR_GROOMING = 01 AND M0640_CUR_GROOMING[2] = 02, 03) OR (M0640_CUR_GROOMING = 02 AND M0640_CUR_GROOMING[2] = 03) THEN

STAB_GROOMING = 0
ELSE IF M0640_CUR_GROOMING = 03 THEN

STAB_GROOMING = MISSING
Improvement in Upper Body Dressing

IF M0650_CUR_DRESS_UPPER NOT = 00, 01, 02, 03 OR
   M0650_CUR_DRESS_UPPER[2] NOT = 00, 01, 02, 03
THEN
   IMP_UPPERDRESS = MISSING  'SHOULD NEVER OCCUR'
ELSE
   IF (M0650_CUR_DRESS_UPPER = 01 AND M0650_CUR_DRESS_UPPER[2] = 00) OR
      (M0650_CUR_DRESS_UPPER = 02 AND
       M0650_CUR_DRESS_UPPER[2] = 00, 01) OR
      (M0650_CUR_DRESS_UPPER = 03 AND
       M0650_CUR_DRESS_UPPER[2] = 00, 01, 02)
THEN
   IMP_UPPERDRESS = 1
ELSE IF (M0650_CUR_DRESS_UPPER = 01 AND
       M0650_CUR_DRESS_UPPER[2] = 01, 02, 03) OR
       (M0650_CUR_DRESS_UPPER = 02 AND
       M0650_CUR_DRESS_UPPER[2] = 02, 03) OR
       (M0650_CUR_DRESS_UPPER = 03 AND M0650_CUR_DRESS_UPPER[2] = 03)
THEN
   IMP_UPPERDRESS = 0
ELSE IF M0650_CUR_DRESS_UPPER = 00
THEN
   IMP_UPPERDRESS = MISSING

Improvement in Lower Body Dressing

IF M0660_CUR_DRESS_LOWER NOT = 00, 01, 02, 03 OR
   M0660_CUR_DRESS_LOWER[2] NOT = 00, 01, 02, 03
THEN
   IMP_LOWERDRESS = MISSING  'SHOULD NEVER OCCUR'
ELSE
   IF (M0660_CUR_DRESS_LOWER = 01 AND M0660_CUR_DRESS_LOWER[2] = 00) OR
      (M0660_CUR_DRESS_LOWER = 02 AND
       M0660_CUR_DRESS_LOWER[2] = 00, 01) OR
       (M0660_CUR_DRESS_LOWER = 03 AND
       M0660_CUR_DRESS_LOWER[2] = 00, 01, 02)
THEN
   IMP_LOWERDRESS = 1
ELSE IF (M0660_CUR_DRESS_LOWER = 01 AND
       M0660_CUR_DRESS_LOWER[2] = 01, 02, 03) OR
       (M0660_CUR_DRESS_LOWER = 02 AND
       M0660_CUR_DRESS_LOWER[2] = 02, 03) OR
       (M0660_CUR_DRESS_LOWER = 03 AND M0660_CUR_DRESS_LOWER[2] = 03)
THEN
   IMP_LOWERDRESS = 0
ELSE IF M0660_CUR_DRESS_LOWER = 00
THEN
   IMP_LOWERDRESS = MISSING
Outcomes Measurement Transformation Documentation

Improvement in Bathing and Stabilization in Bathing

IF M0670_CUR_BATHING NOT = 00, 01, 02, 03, 04, 05 OR
   M0670_CUR_BATHING[2] NOT = 00, 01, 02, 03, 04, 05
THEN
   IMP_BATHING = MISSING
   STAB_BATHING = MISSING
   ['SHOULD NEVER OCCUR']
ELSE

   IF (M0670_CUR_BATHING = 01 AND M0670_CUR_BATHING[2] = 00) OR
      (M0670_CUR_BATHING = 02 AND M0670_CUR_BATHING[2] = 00, 01) OR
      (M0670_CUR_BATHING = 03 AND M0670_CUR_BATHING[2] = 00, 01, 02) OR
      (M0670_CUR_BATHING = 04 AND M0670_CUR_BATHING[2] = 00, 01, 02, 03) OR
      (M0670_CUR_BATHING = 05 AND M0670_CUR_BATHING[2] = 00, 01, 02, 03, 04)
   THEN
      IMP_BATHING = 1
   ELSE IF (M0670_CUR_BATHING = 01 AND
             M0670_CUR_BATHING[2] = 01, 02, 03, 04, 05) OR
            (M0670_CUR_BATHING = 02 AND M0670_CUR_BATHING[2] = 02, 03, 04, 05) OR
            (M0670_CUR_BATHING = 03 AND M0670_CUR_BATHING[2] = 03, 04, 05) OR
            (M0670_CUR_BATHING = 04 AND M0670_CUR_BATHING[2] = 04, 05) OR
            (M0670_CUR_BATHING = 05 AND M0670_CUR_BATHING[2] = 05)
   THEN
      IMP_BATHING = 0
   ELSE IF M0670_CUR_BATHING = 00
   THEN
      IMP_BATHING = MISSING

   IF (M0670_CUR_BATHING = 00 AND M0670_CUR_BATHING[2] = 00) OR
      (M0670_CUR_BATHING = 01 AND M0670_CUR_BATHING[2] = 00, 01) OR
      (M0670_CUR_BATHING = 02 AND M0670_CUR_BATHING[2] = 00, 01, 02) OR
      (M0670_CUR_BATHING = 03 AND M0670_CUR_BATHING[2] = 00, 01, 02, 03) OR
      (M0670_CUR_BATHING = 04 AND M0670_CUR_BATHING[2] = 00, 01, 02, 03, 04)
   THEN
      STAB_BATHING = 1
   ELSE IF (M0670_CUR_BATHING = 00 AND
             M0670_CUR_BATHING[2] = 01, 02, 03, 04, 05) OR
            (M0670_CUR_BATHING = 01 AND M0670_CUR_BATHING[2] = 02, 03, 04, 05) OR
            (M0670_CUR_BATHING = 02 AND M0670_CUR_BATHING[2] = 03, 04, 05) OR
            (M0670_CUR_BATHING = 03 AND M0670_CUR_BATHING[2] = 04, 05) OR
            (M0670_CUR_BATHING = 04 AND M0670_CUR_BATHING[2] = 05)
   THEN
      STAB_BATHING = 0
   ELSE IF M0670_CUR_BATHING = 05
   THEN
      STAB_BATHING = MISSING
OUTCOME MEASURE TRANSFORMATION DOCUMENTATION

Improvement in Toileting

IF M0680_CUR_TOILETING NOT = 00, 01, 02, 03, 04 OR M0680_CUR_TOILETING[2] NOT = 00, 01, 02, 03, 04
THEN
IMP_TOILETING = MISSING [SHOULD NEVER OCCUR]
ELSE
IF (M0680_CUR_TOILETING = 01 AND M0680_CUR_TOILETING[2] = 00) OR (M0680_CUR_TOILETING = 02 AND M0680_CUR_TOILETING[2] = 00, 01) OR (M0680_CUR_TOILETING = 03 AND M0680_CUR_TOILETING[2] = 00, 01, 02) OR (M0680_CUR_TOILETING = 04 AND M0680_CUR_TOILETING[2] = 00, 01, 02, 03)
THEN
IMP_TOILETING = 1
THEN
IMP_TOILETING = 0
ELSE IF M0680_CUR_TOILETING = 00
THEN
IMP_TOILETING = MISSING

Improvement in Transferring and Stabilization in Transferring

IF M0690_CUR_TRANSFERRING NOT = 00, 01, 02, 03, 04, 05 OR M0690_CUR_TRANSFERRING[2] NOT = 00, 01, 02, 03, 04, 05
THEN
IMP_TRANSFERRING = MISSING STAB_TRANSFERRING = MISSING [SHOULD NEVER OCCUR]
ELSE
IF (M0690_CUR_TRANSFERRING = 01 AND M0690_CUR_TRANSFERRING[2] = 00) OR (M0690_CUR_TRANSFERRING = 02 AND M0690_CUR_TRANSFERRING[2] = 00, 01) OR (M0690_CUR_TRANSFERRING = 03 AND M0690_CUR_TRANSFERRING[2] = 00, 01, 02) OR (M0690_CUR_TRANSFERRING = 04 AND M0690_CUR_TRANSFERRING[2] = 00, 01, 02, 03)
THEN
IMP_TRANSFERRING = 1
THEN
IMP_TRANSFERRING = 0

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ELSE IF M0690_CUR_TRANSFERRING = 00 THEN
  IMP_TRANSFERRING = MISSING

IF (M0690_CUR_TRANSFERRING = 00 AND M0690_CUR_TRANSFERRING[2] = 00) OR
  (M0690_CUR_TRANSFERRING = 01 AND
    M0690_CUR_TRANSFERRING[2] = 00, 01) OR (M0690_CUR_TRANSFERRING = 02
    AND M0690_CUR_TRANSFERRING[2] = 00, 01, 02) OR
  (M0690_CUR_TRANSFERRING = 03 AND
    M0690_CUR_TRANSFERRING[2] = 00,01,02,03) OR
  (M0690_CUR_TRANSFERRING = 04 AND
    M0690_CUR_TRANSFERRING[2] = 00,01,02,03,04)
THEN
  STAB_TRANSFERRING = 1
ELSE IF (M0690_CUR_TRANSFERRING = 00 AND
    M0690_CUR_TRANSFERRING[2] = 01, 02, 03, 04, 05) OR
  (M0690_CUR_TRANSFERRING = 01 AND
    M0690_CUR_TRANSFERRING[2] = 02,03,04,05) OR
  (M0690_CUR_TRANSFERRING = 02 AND
    M0690_CUR_TRANSFERRING[2] = 03, 04, 05) OR
  (M0690_CUR_TRANSFERRING = 03 AND
    M0690_CUR_TRANSFERRING[2] = 04, 05) OR (M0690_CUR_TRANSFERRING = 04
    AND M0690_CUR_TRANSFERRING[2] = 05)
THEN
  STAB_TRANSFERRING = 0
ELSE IF M0690_CUR_TRANSFERRING = 05 THEN
  STAB_TRANSFERRING = MISSING

Improvement in Ambulation/Locomotion

IF M0700_CUR_AMBULATION NOT = 00, 01, 02, 03, 04, 05 OR
  M0700_CUR_AMBULATION[2] NOT = 00, 01, 02, 03, 04, 05
THEN
  IMP_AMBULATION = MISSING
  [SHOULD NEVER OCCUR]
ELSE
  IMP_AMBULATION = 1
ELSE IF (M0700_CUR_AMBULATION = 01 AND
    M0700_CUR_AMBULATION[2] = 00) OR
  (M0700_CUR_AMBULATION = 02 AND M0700_CUR_AMBULATION[2] = 00, 01) OR
  (M0700_CUR_AMBULATION = 03 AND M0700_CUR_AMBULATION[2] = 00, 01, 02)
  OR (M0700_CUR_AMBULATION = 04 AND
    M0700_CUR_AMBULATION[2] = 00, 01, 02, 03) OR
  (M0700_CUR_AMBULATION = 05 AND
    M0700_CUR_AMBULATION[2] = 00, 01, 02, 03, 04)
THEN
  IMP_AMBULATION = 1
ELSE IF (M0700_CUR_AMBULATION = 01 AND
    M0700_CUR_AMBULATION[2] = 01, 02, 03, 04, 05) OR
  (M0700_CUR_AMBULATION = 02 AND
    M0700_CUR_AMBULATION[2] = 02, 03, 04, 05) OR
  (M0700_CUR_AMBULATION = 03 AND M0700_CUR_AMBULATION[2] = 03, 04, 05)
  OR (M0700_CUR_AMBULATION = 04 AND
    M0700_CUR_AMBULATION[2] = 04, 05) OR (M0700_CUR_AMBULATION = 05 AND
    M0700_CUR_AMBULATION[2] = 05)
THEN
IMP_AMBULATION = 0
ELSE IF M0700_CUR_AMBULATION = 0
THEN
IMP_AMBULATION = MISSING

Improvement in Eating

IF M0710_CUR_FEEDING NOT = 00, 01, 02, 03, 04, 05 OR
M0710_CUR_FEEDING[2] NOT = 00, 01, 02, 03, 04, 05
THEN
IMP_EATING = MISSING
[SHOULD NEVER OCCUR]
ELSE
IF (M0710_CUR_FEEDING = 01 AND M0710_CUR_FEEDING[2] = 00) OR
(M0710_CUR_FEEDING = 02 AND M0710_CUR_FEEDING[2] = 00, 01) OR
(M0710_CUR_FEEDING = 03 AND M0710_CUR_FEEDING[2] = 00, 01, 02) OR
(M0710_CUR_FEEDING = 04 AND M0710_CUR_FEEDING[2] = 00, 01, 02, 03) OR
(M0710_CUR_FEEDING = 05 AND M0710_CUR_FEEDING[2] = 00, 01, 02, 03, 04)
THEN
IMP_EATING = 1
ELSE IF (M0710_CUR_FEEDING = 01 AND
M0710_CUR_FEEDING[2] = 01, 02, 03, 04, 05) OR
(M0710_CUR_FEEDING = 02 AND M0710_CUR_FEEDING[2] = 02, 03, 04, 05) OR
(M0710_CUR_FEEDING = 03 AND M0710_CUR_FEEDING[2] = 03, 04, 05) OR
(M0710_CUR_FEEDING = 04 AND M0710_CUR_FEEDING[2] = 04, 05) OR
(M0710_CUR_FEEDING = 05 AND M0710_CUR.Feeding[2] = 05)
THEN
IMP_EATING = 0
ELSE IF M0710_CUR_FEEDING = 00
THEN
IMP_EATING = MISSING

Improvement in Light Meal Preparation and Stabilization in Light Meal Preparation

IF M0720_CUR_PREP_LT_MEALS NOT = 00, 01, 02 OR
M0720_CUR_PREP_LT_MEALS[2] NOT = 00, 01, 02
THEN
IMP_LIGHTMEAL = MISSING
STAB_LIGHTMEAL = MISSING
[SHOULD NEVER OCCUR]
ELSE
IF (M0720_CUR_PREP_LT_MEALS = 01 AND M0720_CUR_PREP_LT_MEALS[2] = 00)
OR (M0720_CUR_PREP_LT_MEALS = 02 AND
0720_CUR_PREP_LT_MEALS[2] = 00, 01)
THEN
IMP_LIGHTMEAL = 1
ELSE IF (M0720_CUR_PREP_LT_MEALS = 01 AND
M0720_CUR_PREP_LT_MEALS[2] = 01,02) OR
(M0720_CUR_PREP_LT_MEALS = 02 AND M0720_CUR_PREP_LT_MEALS[2] = 02)
THEN
IMP_LIGHTMEAL = 0
ELSE IF M0720_PREP_LT_MEALS = 00
THEN
IMP_LIGHTMEAL = MISSING
IF (M0720_CUR_PREP_LT_MEALS = 00 AND M0720_CUR_PREP_LT_MEALS[2] = 00) 
  OR (M0720_CUR_PREP_LT_MEALS = 01 AND M0720_CUR_PREP_LT_MEALS[2] = 00, 01) 
THEN 
  STAB_LIGHTMEAL = 1 
ELSE IF (M0720_CUR_PREP_LT_MEALS = 00 AND M0720_CUR_PREP_LT_MEALS[2] = 01,02) 
  OR (M0720_CUR_PREP_LT_MEALS = 01 AND M0720_CUR_PREP_LT_MEALS[2] = 02) 
THEN 
  STAB_LIGHTMEAL = 0 
ELSE IF M0720_PREP_LT_MEALS = 02 
THEN 
  STAB_LIGHTMEAL = MISSING

Improvement in Laundry and Stabilization in Laundry

IF M0740_CUR_LAUNDRY NOT = 00, 01, 02 OR M0740_CUR_LAUNDRY[2] NOT = 00, 01, 02 
THEN 
  IMP_LAUNDRY = MISSING 
  STAB_LAUNDRY = MISSING 'SHOULD NEVER OCCUR' 
ELSE 
  IF (M0740_CUR_LAUNDRY = 01 AND M0740_CUR_LAUNDRY[2] = 00) 
  OR (M0740_CUR_LAUNDRY = 02 AND M0740_CUR_LAUNDRY[2] = 00, 01) 
THEN 
  IMP_LAUNDRY = 1 
ELSE IF (M0740_CUR_LAUNDRY = 01 AND M0740_CUR_LAUNDRY[2] = 01,02) 
  OR (M0740_CUR_LAUNDRY = 02 AND M0740_CUR_LAUNDRY[2] = 02) 
THEN 
  IMP_LAUNDRY = 0 
ELSE IF M0740_CUR_LAUNDRY = 00 
THEN 
  IMP_LAUNDRY = MISSING 
  IF (M0740_CUR_LAUNDRY = 00 AND M0740_CUR_LAUNDRY[2] = 00) 
  OR (M0740_CUR_LAUNDRY = 01 AND M0740_CUR_LAUNDRY[2] = 00, 01) 
THEN 
  STAB_LAUNDRY = 1 
ELSE IF (M0740_CUR_LAUNDRY = 00 AND M0740_CUR_LAUNDRY[2] = 01,02) 
  OR (M0740_CUR_LAUNDRY = 01 AND M0740_CUR_LAUNDRY[2] = 02) 
THEN 
  STAB_LAUNDRY = 0 
ELSE IF M0740_CUR_LAUNDRY = 02 
THEN 
  STAB_LAUNDRY = MISSING
Improvement in Housekeeping and Stabilization in Housekeeping

IF M0750_CUR_HOUSEKEEPING NOT = 00, 01, 02, 03, 04 OR M0750_CUR_HOUSEKEEPING[2] NOT = 00, 01, 02, 03, 04 THEN

IMP_HOUSEKEEP = MISSING
STAB_HOUSEKEEP = MISSING  [SHOULD NEVER OCCUR]
ELSE

IF (M0750_CUR_HOUSEKEEPING = 01 AND M0750_CUR_HOUSEKEEPING[2] = 00) OR (M0750_CUR_HOUSEKEEPING = 02 AND M0750_CUR_HOUSEKEEPING[2] = 00, 01) OR (M0750_CUR_HOUSEKEEPING = 03 AND M0750_CUR_HOUSEKEEPING[2] = 00, 01, 02) OR (M0750_CUR_HOUSEKEEPING = 04 AND M0750_CUR_HOUSEKEEPING[2] = 00, 01, 02, 03) THEN

IMP_HOUSEKEEP = 1
ELSE IF (M0750_CUR_HOUSEKEEPING = 00 AND M0750_CUR_HOUSEKEEPING[2] = 01, 02, 03, 04) OR (M0750_CUR_HOUSEKEEPING = 02 AND M0750_CUR_HOUSEKEEPING[2] = 02, 03, 04) OR (M0750_CUR_HOUSEKEEPING = 03 AND M0750_CUR_HOUSEKEEPING[2] = 03, 04) OR (M0750_CUR_HOUSEKEEPING = 04 AND M0750_CUR_HOUSEKEEPING[2] = 04) THEN

IMP_HOUSEKEEP = 0
ELSE IF M0750_CUR_HOUSEKEEPING = 00 THEN

IMP_HOUSEKEEP = MISSING

IF (M0750_CUR_HOUSEKEEPING = 00 AND M0750_CUR_HOUSEKEEPING[2] = 00) OR (M0750_CUR_HOUSEKEEPING = 01 AND M0750_CUR_HOUSEKEEPING[2] = 00, 01) OR (M0750_CUR_HOUSEKEEPING = 02 AND M0750_CUR_HOUSEKEEPING[2] = 00, 01, 02) OR (M0750_CUR_HOUSEKEEPING = 03 AND M0750_CUR_HOUSEKEEPING[2] = 00, 01, 02, 03) THEN

STAB_HOUSEKEEP = 1
ELSE IF (M0750_CUR_HOUSEKEEPING = 00 AND M0750_CUR_HOUSEKEEPING[2] = 01, 02, 03, 04) OR (M0750_CUR_HOUSEKEEPING = 01 AND M0750_CUR_HOUSEKEEPING[2] = 02, 03, 04) OR (M0750_CUR_HOUSEKEEPING = 02 AND M0750_CUR_HOUSEKEEPING[2] = 03, 04) OR (M0750_CUR_HOUSEKEEPING = 03 AND M0750_CUR_HOUSEKEEPING[2] = 04) THEN

STAB_HOUSEKEEP = 0
ELSE IF M0750_CUR_HOUSEKEEPING = 04 THEN

STAB_HOUSEKEEP = MISSING
OUTCOME MEASURE TRANSFORMATION DOCUMENTATION

Improvement in Shopping and Stabilization in Shopping

IF M0760_CUR_SHOPPING NOT = 00, 01, 02, 03 OR M0760_CUR_SHOPPING[2] NOT = 00, 01, 02, 03
THEN
    IMP_SHOPPING = MISSING
    STAB_SHOPPING = MISSING
[SHOULD NEVER OCCUR]
ELSE
    IF (M0760_CUR_SHOPPING = 01 AND M0760_CUR_SHOPPING[2] = 00) OR (M0760_CUR_SHOPPING = 02 AND M0760_CUR_SHOPPING[2] = 00, 01) OR (M0760_CUR_SHOPPING = 03 AND M0760_CUR_SHOPPING[2] = 00, 01, 02)
THEN
    IMP_SHOPPING = 1
ELSE IF (M0760_CUR_SHOPPING = 01 AND M0760_CUR_SHOPPING[2] = 01, 02, 03) OR (M0760_CUR_SHOPPING = 02 AND M0760_CUR_SHOPPING[2] = 02, 03) OR (M0760_CUR_SHOPPING = 03 AND M0760_CUR_SHOPPING[2] = 03)
THEN
    IMP_SHOPPING = 0
ELSE IF M0760_CUR_SHOPPING = 00
THEN
    IMP_SHOPPING = MISSING
IF (M0760_CUR_SHOPPING = 00 AND M0760_CUR_SHOPPING[2] = 00) OR (M0760_CUR_SHOPPING = 01 AND M0760_CUR_SHOPPING[2] = 00, 01) OR (M0760_CUR_SHOPPING = 02 AND M0760_CUR_SHOPPING[2] = 00, 01, 02)
THEN
    STAB_SHOPPING = 1
THEN
    STAB_SHOPPING = 0
ELSE IF M0760_CUR_SHOPPING = 03
THEN
    STAB_SHOPPING = MISSING

Improvement in Phone Use and Stabilization in Phone Use

IF M0770_CUR_PHONE_USE NOT = 00, 01, 02, 03, 04, 05, NA OR M0770_CUR_PHONE_USE[2] NOT = 00, 01, 02, 03, 04, 05, NA
THEN
    IMP_PHONE = MISSING
    STAB_PHONE = MISSING
[SHOULD NEVER OCCUR]
ELSE
    IF (M0770_CUR_PHONE_USE = 01 AND M0770_CUR_PHONE_USE[2] = 00) OR (M0770_CUR_PHONE_USE = 02 AND M0770_CUR_PHONE_USE[2] = 00, 01) OR (M0770_CUR_PHONE_USE = 03 AND M0770_CUR_PHONE_USE[2] = 00, 01, 02) OR (M0770_CUR_PHONE_USE = 04 AND M0770_CUR_PHONE_USE[2] = 00,01,02,03) OR (M0770_CUR_PHONE_USE = 05 AND M0770_CUR_PHONE_USE[2] = 00,01,02,03,04)
THEN
IMP_PHONE = 1
ELSE IF (M0770_CUR_PHONE_USE = 01 AND
M0770_CUR_PHONE_USE[2] = 01, 02, 03, 04, 05) OR
(M0770_CUR_PHONE_USE = 02 AND M0770_CUR_PHONE_USE[2] = 02, 03, 04, 05)
OR (M0770_CUR_PHONE_USE = 03 AND
M0770_CUR_PHONE_USE[2] = 03, 04, 05) OR
(M0770_CUR_PHONE_USE = 04 AND M0770_CUR_PHONE_USE[2] = 04, 05) OR
(M0770_CUR_PHONE_USE = 05 AND M0770_CUR_PHONE_USE[2] = 05)
THEN
IMP_PHONE = 0
ELSE IF M0770_CUR_PHONE_USE = 00, NA OR M0770_CUR_PHONE_USE[2] = NA
THEN IMP_PHONE = MISSING

IF (M0770_CUR_PHONE_USE = 00 AND M0770_CUR_PHONE_USE[2] = 00) OR
(M0770_CUR_PHONE_USE = 01 AND M0770_CUR_PHONE_USE[2] = 00, 01) OR
(M0770_CUR_PHONE_USE = 02 AND M0770_CUR_PHONE_USE[2] = 00, 01, 02)
OR (M0770_CUR_PHONE_USE = 03 AND
M0770_CUR_PHONE_USE[2] = 00, 01, 02, 03) OR
(M0770_CUR_PHONE_USE = 04 AND M0770_CUR_PHONE_USE[2] = 00, 01, 02, 03, 04)
THEN
STAB_PHONE = 1
ELSE IF (M0770_CUR_PHONE_USE = 00 AND
M0770_CUR_PHONE_USE[2] = 01, 02, 03, 04, 05) OR
(M0770_CUR_PHONE_USE = 01 AND
M0770_CUR_PHONE_USE[2] = 02, 03, 04, 05) OR
(M0770_CUR_PHONE_USE = 02 AND
M0770_CUR_PHONE_USE[2] = 03, 04, 05) OR
(M0770_CUR_PHONE_USE = 03 AND M0770_CUR_PHONE_USE[2] = 03, 04, 05)
OR (M0770_CUR_PHONE_USE = 04 AND M0770_CUR_PHONE_USE[2] = 04, 05) OR
(M0770_CUR_PHONE_USE = 05 AND M0770_CUR_PHONE_USE[2] = 05)
THEN
STAB_PHONE = 0
ELSE IF M0770_CUR_PHONE_USE = 05, NA OR M0770_CUR_PHONE_USE[2] = NA
THEN
STAB_PHONE = MISSING

Improvement in Management of Oral Medications and Stabilization in Management
of Oral Medications

IF M0780_CUR_ORAL_MEDS NOT = 00, 01, 02, NA OR
M0780_CUR_ORAL_MEDS[2] NOT = 00, 01, 02, NA
THEN
IMP_ORALMEDS = MISSING
STAB_ORALMEDS = MISSING
[SHOULD NEVER OCCUR]
ELSE

IF (M0780_CUR_ORAL_MEDS = 01 AND M0780_CUR_ORAL_MEDS[2] = 00) OR
(M0780_CUR_ORAL_MEDS = 02 AND M0780_CUR_ORAL_MEDS[2] = 00, 01)
THEN
IMP_ORALMEDS = 1
ELSE IF (M0780_CUR_ORAL_MEDS = 01 AND M0780_CUR_ORAL_MEDS[2] = 01, 02)
OR (M0780_CUR_ORAL_MEDS = 02 AND M0780_CUR_ORAL_MEDS[2] = 02)
THEN
IMP_ORALMEDS = 0
ELSE IF M0780_CUR_ORAL_MEDS = 00, NA OR M0780_CUR_ORAL_MEDS[2] = NA
THEN
IMP_ORALMEDS = MISSING

IF (M0780_CUR_ORAL_MEDS = 00 AND M0780_CUR_ORAL_MEDS[2] = 00) OR
(M0780_CUR_ORAL_MEDS = 01 AND M0780_CUR_ORAL_MEDS[2] = 00, 01)
THEN
STAB_ORALMEDS = 1
ELSE IF (M0780_CUR_ORAL_MEDS = 00 AND M0780_CUR_ORAL_MEDS[2] = 01, 02) OR (M0780_CUR_ORAL_MEDS = 01 AND M0780_CUR_ORAL_MEDS[2] = 02)
THEN
STAB_ORALMEDS = 0
ELSE IF M0780_CUR_ORAL_MEDS = 02, NA OR M0780_CUR_ORAL_MEDS[2] = NA
THEN
STAB_ORALMEDS = MISSING

Improvement in Speech and Language and Stabilization in Speech and Language

IF M0410_SPEECH NOT = 00, 01, 02, 03, 04, 05 OR
M0410_SPEECH[2] NOT = 00, 01, 02, 03, 04, 05
THEN
IMP_SPEECH = MISSING
STAB_SPEECH = MISSING
‘[SHOULD NEVER OCCUR]
ELSE

IF (M0410_SPEECH = 01 AND M0410_SPEECH[2] = 00) OR
(M0410_SPEECH = 02 AND M0410_SPEECH[2] = 00, 01) OR
(M0410_SPEECH = 03 AND M0410_SPEECH[2] = 00, 01, 02) OR
(M0410_SPEECH = 04 AND M0410_SPEECH[2] = 00, 01, 02, 03) OR
(M0410_SPEECH = 05 AND M0410_SPEECH[2] = 00, 01, 02, 03, 04)
THEN
IMP_SPEECH = 1
ELSE IF (M0410_SPEECH = 01 AND M0410_SPEECH[2] = 01, 02, 03, 04, 05) OR
(M0410_SPEECH = 02 AND M0410_SPEECH[2] = 02, 03, 04, 05) OR
(M0410_SPEECH = 03 AND M0410_SPEECH[2] = 03, 04, 05) OR
(M0410_SPEECH = 04 AND M0410_SPEECH[2] = 04, 05) OR
(M0410_SPEECH = 05 AND M0410_SPEECH[2] = 05)
THEN
IMP_SPEECH = 0
ELSE IF M0410_SPEECH = 00
THEN
IMP_SPEECH = MISSING

IF (M0410_SPEECH = 00 AND M0410_SPEECH[2] = 00) OR
(M0410_SPEECH = 01 AND M0410_SPEECH[2] = 00, 01) OR
(M0410_SPEECH = 02 AND M0410_SPEECH[2] = 00, 01, 02) OR
(M0410_SPEECH = 03 AND M0410_SPEECH[2] = 00, 01, 02, 03) OR
(M0410_SPEECH = 04 AND M0410_SPEECH[2] = 00, 01, 02, 03, 04)
THEN
STAB_SPEECH = 1
ELSE IF (M0410_SPEECH = 00 AND M0410_SPEECH[2] = 01, 02, 03, 04, 05) OR
(M0410_SPEECH = 01 AND M0410_SPEECH[2] = 02, 03, 04, 05) OR
(M0410_SPEECH = 02 AND M0410_SPEECH[2] = 03, 04, 05) OR
(M0410_SPEECH = 03 AND M0410_SPEECH[2] = 04, 05) OR
(M0410_SPEECH = 04 AND M0410_SPEECH[2] = 05)
THEN
STAB_SPEECH = 0
ELSE IF M0410_SPEECH = 05
THEN
STAB_SPEECH = MISSING

Improvement in Pain Interfering with Activity

IF M0420_FREQ_PAIN NOT = 00, 01, 02, 03 OR
M0420_FREQ_PAIN[2] NOT = 00, 01, 02, 03
THEN
IMP_PAIN = MISSING 'SHOULD NEVER OCCUR'
ELSE
IF (M0420_FREQ_PAIN = 01 AND M0420_FREQ_PAIN[2] = 00) OR
(M0420_FREQ_PAIN = 02 AND M0420_FREQ_PAIN[2] = 00, 01) OR
(M0420_FREQ_PAIN = 03 AND M0420_FREQ_PAIN[2] = 00, 01, 02)
THEN
IMP_PAIN = 1
ELSE IF (M0420_FREQ_PAIN = 01 AND M0420_FREQ_PAIN[2] = 01, 02, 03) OR
(M0420_FREQ_PAIN = 02 AND M0420_FREQ_PAIN[2] = 02, 03) OR
(M0420_FREQ_PAIN = 03 AND M0420_FREQ_PAIN[2] = 03)
THEN
IMP_PAIN = 0
ELSE IF M0420_FREQ_PAIN = 00
THEN
IMP_PAIN = MISSING

Improvement in Number of Surgical Wounds and Improvement in Status of Surgical Wounds

IF (M0440_LESION_OPEN_WND = 0 AND M0482_SURG_WOUND = 1) OR
((M0488_STAT_PRB_SURGWND = NA) AND (M0486_UNOBS_SURGWND NOT = 1 OR
M0484_NBR_SURGWND NOT = 00)) OR ((M0488_STAT_PRB_SURGWND[2] = NA) AND
THEN
IMP_NUMBERWOUNDS = MISSING
IMP_STATUSWOUNDS = MISSING 'SHOULD NEVER OCCUR'
ELSE
IF M0440_LESION_OPEN_WND = 0 OR M0482_SURG_WOUND = 0
THEN
NBR_INT1 = 00
ELSE IF M0482_SURG_WOUND = 1
THEN
NBR_INT1 = M0484_NBR_SURGWND

THEN
NBR_INT2 = 00
ELSE IF M0482_SURG_WOUND[2] = 1
THEN
    NBR_INT2 = M0484_NBR_SURGWND[2]

IF ((M0440_LESION_OPEN_WND = 1 OR M0482_SURG_WOUND = 1) AND NBR_INT1
    NOT = 00, 01, 02, 03, 04) OR
     NBR_INT2 NOT = 00, 01, 02, 03, 04)
THEN
    IMP_NUMBERWOUNDS = MISSING  ['SHOULDN'T NEVER OCCUR']
ELSE IF (NBR_INT1 = 01 AND NBR_INT2 = 00) OR (NBR_INT1 = 02 AND NBR_INT2 = 00,
    01) OR (NBR_INT1 = 03 AND NBR_INT2 = 00, 01, 02) OR (NBR_INT1 = 04 AND
    NBR_INT2 = 00, 01, 02, 03)
THEN
    IMP_NUMBERWOUNDS = 1
ELSE IF (NBR_INT1 = 01 AND NBR_INT2 = 01, 02, 03, 04) OR
    (NBR_INT1 = 02 AND NBR_INT2 = 02, 03, 04) OR (NBR_INT1 = 03 AND NBR_INT2
    = 03, 04) OR (NBR_INT1 = 04 AND NBR_INT2 = 04)
THEN
    IMP_NUMBERWOUNDS = 0
ELSE IF NBR_INT1 = 00
THEN
    IMP_NUMBERWOUNDS = MISSING

IF M0440_LESION_WND = 0 OR M0482_SURG_WOUND = 0
THEN
    STAT_INT1 = 00
ELSE IF M0482_SURG_WOUND = 1
THEN
    STAT_INT1 = M0488_STAT_PRB_SURGWND

THEN
    STAT_INT2 = 00
ELSE IF M0482_SURG_WOUND[2] = 1
THEN
    STAT_INT2 = M0488_STAT_PRB_SURGWND[2]

IF ((M0440_LESION_OPEN_WND = 1 OR M0482_SURG_WOUND = 1) AND
    STAT_INT1 NOT = 00, 01, 02, 03, NA) OR ((M0440_LESION_OPEN_WND[2] = 1 OR
    M0482_SURG_WOUND[2] = 1) AND STAT_INT2 NOT = 00, 01, 02, 03, NA)
THEN
    IMP_STATUSWOUNDS = MISSING  ['SHOULDN'T NEVER OCCUR']
ELSE IF (STAT_INT1 = 01 AND STAT_INT2 = 00) OR (STAT_INT1 = 02 AND
    STAT_INT2 = 00, 01) OR (STAT_INT1 = 03 AND STAT_INT2 = 00, 01, 02)
THEN
    IMP_STATUSWOUNDS = 1
ELSE IF (STAT_INT1 = 01 AND STAT_INT2 = 01, 02, 03) OR (STAT_INT1 = 02 AND
    STAT_INT2 = 02, 03) OR (STAT_INT1 = 03 AND STAT_INT2 = 03)
THEN
    IMP_STATUSWOUNDS = 0
ELSE IF (STAT_INT1 = 00, NA) OR (STAT_INT2 = NA)
THEN
    IMP_STATUSWOUNDS = MISSING
OUTCOME MEASURE TRANSFORMATION DOCUMENTATION

**Improvement in Dyspnea**

IF M0490_WHEN_DYSPNEIC NOT = 00, 01, 02, 03, 04 OR M0490_WHEN_DYSPNEIC[2] NOT = 00, 01, 02, 03, 04
THEN IMP_DYSPNEA = MISSING
ELSE
IF (M0490_WHEN_DYSPNEIC = 01 AND M0490_WHEN_DYSPNEIC[2] = 00) OR (M0490_WHEN_DYSPNEIC = 02 AND M0490_WHEN_DYSPNEIC[2] = 00, 01) OR (M0490_WHEN_DYSPNEIC = 03 AND M0490_WHEN_DYSPNEIC[2] = 00, 01, 02) OR (M0490_WHEN_DYSPNEIC = 04 AND M0490_WHEN_DYSPNEIC[2] = 00, 01, 02, 03)
THEN IMP_DYSPNEA = 1
THEN IMP_DYSPNEA = 0
ELSE IF M0490_WHEN_DYSPNEIC = 00
THEN IMP_DYSPNEA = MISSING

**Improvement in Urinary Tract Infection**

IF M0510_UTI NOT = 00, 01, NA, UK OR M0510_UTI[2] NOT = 00, 01, NA, UK
THEN IMP_UTI = MISSING
ELSE
IF (M0510_UTI = 01 AND M0510_UTI[2] = 00)
THEN IMP_UTI = 1
ELSE IF (M0510_UTI = 01 AND M0510_UTI[2] = 01)
THEN IMP_UTI = 0
ELSE IF M0510_UTI = 00, NA, UK OR M0510_UTI[2] = NA, UK
THEN IMP_UTI = MISSING

**Improvement in Urinary Incontinence**

IF M0520_UR_INCONT NOT = 00, 01, 02 OR (M0520_UR_INCONT = 01 AND M0530_UR_INCONT_OCCURS NOT = 00, 01, 02) OR (M0520_UR_INCONT = 00,02 AND M0530_UR_INCONT_OCCURS = 00,01,02) OR (M0520_UR_INCONT[2] NOT = 00, 01, 02 OR (M0520_UR_INCONT[2] = 01 AND M0530_UR_INCONT_OCCURS[2] NOT = 00, 01, 02) OR (M0520_UR_INCONT[2] = 00,02 AND M0530_UR_INCONT_OCCURS[2] = 00,01,02)

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THEN
  OUT_INTERIM1 = MISSING
  OUT_INTERIM2 = MISSING

[SHOULD NEVER OCCUR]
ELSE
  IF M0520_UR_INCONT = 00
    THEN
      OUT_INTERIM1 = 0
  ELSE IF M0530_UR_INCONT_OCCURS = 00
    THEN
      OUT_INTERIM1 = 1
  ELSE IF M0530_UR_INCONT_OCCURS = 01
    THEN
      OUT_INTERIM1 = 2
  ELSE IF M0530_UR_INCONT_OCCURS = 02
    THEN
      OUT_INTERIM1 = 3
  ELSE IF M0530_UR_INCONT_OCCURS = 03
    THEN
      OUT_INTERIM1 = 4

  IF M0520_UR_INCONT[2] = 00
    THEN
      OUT_INTERIM2 = 0
  ELSE IF M0530_UR_INCONT_OCCURS[2] = 00
    THEN
      OUT_INTERIM2 = 1
  ELSE IF M0530_UR_INCONT_OCCURS[2] = 01
    THEN
      OUT_INTERIM2 = 2
  ELSE IF M0530_UR_INCONT_OCCURS[2] = 02
    THEN
      OUT_INTERIM2 = 3
  ELSE IF M0520_UR_INCONT[2] = 02
    THEN
      OUT_INTERIM2 = 4

  IF OUT_INTERIM1 NOT = 0, 1, 2, 3, 4 OR OUT_INTERIM2 NOT = 0, 1, 2, 3, 4
  THEN
    IMP_INCONT = MISSING

[SHOULD NEVER OCCUR]
ELSE IF (OUT_INTERIM1 = 1 AND OUT_INTERIM2 = 0) OR (OUT_INTERIM1 = 2 AND
  OUT_INTERIM2 = 0, 1) OR (OUT_INTERIM1 = 3 AND OUT_INTERIM2 = 0, 1, 2) OR
  (OUT_INTERIM1 = 4 AND OUT_INTERIM2 = 0, 1, 2, 3)
  THEN
    IMP_INCONT = 1

ELSE IF (OUT_INTERIM1 = 1 AND OUT_INTERIM2 = 1, 2, 3, 4) OR
  (OUT_INTERIM1 = 2 AND OUT_INTERIM2 = 2, 3, 4) OR (OUT_INTERIM1 = 3 AND
  OUT_INTERIM2 = 3, 4) OR (OUT_INTERIM1 = 4 AND OUT_INTERIM2 = 4)
  THEN
    IMP_INCONT = 0
ELSE IF OUT_INTERIM1 = 0
  THEN
    IMP_INCONT = 0

IMPRINT = MISSING
OUTCOME MEASURE TRANSFORMATION DOCUMENTATION

Improvement in Bowel Incontinence

IF M0540_BWL_INCONT NOT = 00, 01, 02, 03, 04, 05, NA, UK OR
M0540_BWL_INCONT[2] NOT = 00, 01, 02, 03, 04, 05, NA, UK
THEN
IMP_BOWELINCONT = MISSING
[SHOULD NEVER OCCUR]
ELSE
IF (M0540_BWL_INCONT = 01 AND M0540_BWL_INCONT[2] = 00) OR
(M0540_BWL_INCONT = 02 AND M0540_BWL_INCONT[2] = 00, 01) OR
(M0540_BWL_INCONT = 03 AND M0540_BWL_INCONT[2] = 00, 01, 02) OR
(M0540_BWL_INCONT = 04 AND M0540_BWL_INCONT[2] = 00, 01, 02, 03) OR
(M0540_BWL_INCONT = 05 AND M0540_BWL_INCONT[2] = 00, 01, 02, 03, 04)
THEN
IMP_BOWELINCONT = 1
ELSE IF (M0540_BWL_INCONT = 01 AND M0540_BWL_INCONT[2] = 01, 02, 03, 04, 05)
OR (M0540_BWL_INCONT = 02 AND M0540_BWL_INCONT[2] = 02, 03, 04, 05)
OR (M0540_BWL_INCONT = 03 AND M0540_BWL_INCONT[2] = 03, 04, 05)
OR (M0540_BWL_INCONT = 04 AND M0540_BWL_INCONT[2] = 04, 05)
OR (M0540_BWL_INCONT = 05 AND M0540_BWL_INCONT[2] = 05)
THEN
IMP_BOWELINCONT = 0
ELSE IF M0540_BWL_INCONT = 00, NA, UK OR M0540_BWL_INCONT[2] = NA, UK
THEN
IMP_BOWELINCONT = MISSING

Improvement in Cognitive Functioning and Stabilization in Cognitive Functioning

IF M0560_COG_FUNCTION NOT = 00, 01, 02, 03, 04
M0560_COG_FUNCTION[2] NOT = 00, 01, 02, 03
THEN
IMP_COGNITIVE = MISSING
STAB_COGNITIVE = MISSING
[SHOULD NEVER OCCUR]
ELSE
IF (M0560_COG_FUNCTION = 01 AND M0560_COG_FUNCTION[2] = 00)
OR (M0560_COG_FUNCTION = 02 AND M0560_COG_FUNCTION[2] = 00, 01)
OR (M0560_COG_FUNCTION = 03 AND M0560_COG_FUNCTION[2] = 00, 01, 02)
OR (M0560_COG_FUNCTION = 04 AND M0560_COG_FUNCTION[2] = 00, 01, 02, 03)
THEN
IMP_COGNITIVE = 1
ELSE IF (M0560_COG_FUNCTION = 01 AND
M0560_COG_FUNCTION[2] = 01, 02, 03, 04)
OR (M0560_COG_FUNCTION = 02
AND M0560_COG_FUNCTION[2] = 02, 03, 04)
OR (M0560_COG_FUNCTION = 03
AND M0560_COG_FUNCTION[2] = 03, 04)
OR (M0560_COG_FUNCTION = 04
AND M0560_COG_FUNCTION[2] = 04)
THEN
IMP_COGNITIVE = 0
ELSE IF M0560_COG_FUNCTION = 00
THEN
IMP_COGNITIVE = MISSING
IF (M0560_COG_FUNCTION = 00 AND M0560_COG_FUNCTION[2] = 00) OR
    (M0560_COG_FUNCTION = 01 AND M0560_COG_FUNCTION[2] = 00, 01) OR
    (M0560_COG_FUNCTION = 02 AND M0560_COG_FUNCTION[2] = 00, 01, 02) OR
    (M0560_COG_FUNCTION = 03 AND M0560_COG_FUNCTION[2] = 00, 01, 02, 03)
THEN
    STAB_COGNITIVE = 1
ELSE IF (M0560_COG_FUNCTION = 00 AND
        M0560_COG_FUNCTION[2] = 01, 02, 03, 04) OR (M0560_COG_FUNCTION = 01
        AND M0560_COG_FUNCTION[2] = 02, 03, 04) OR (M0560_COG_FUNCTION = 02
        AND M0560_COG_FUNCTION[2] = 03, 04) OR (M0560_COG_FUNCTION = 03
        AND M0560_COG_FUNCTION[2] = 04)
THEN
    STAB_COGNITIVE = 0
ELSE IF M0560_COG_FUNCTION = 04
THEN
    STAB_COGNITIVE = MISSING

Improvement in Confusion Frequency

IF M0570_WHEN_CONFUSED NOT = 00, 01, 02, 03, 04, NA OR
    M0570_WHEN_CONFUSED[2] NOT = 00, 01, 02, 03, 04, NA
THEN
    IMP_CONFUSION = MISSING [SHOULD NEVER OCCUR]
ELSE
    IF (M0570_WHEN_CONFUSED = 01 AND M0570_WHEN_CONFUSED[2] = 00) OR
        (M0570_WHEN_CONFUSED = 02 AND M0570_WHEN_CONFUSED[2] = 00, 01) OR
        (M0570_WHEN_CONFUSED = 03 AND M0570_WHEN_CONFUSED[2] = 00, 01, 02)
        OR (M0570_WHEN_CONFUSED = 04 AND
            M0570_WHEN_CONFUSED[2] = 00, 01, 02, 03)
THEN
    IMP_CONFUSION = 1
ELSE IF (M0570_WHEN_CONFUSED = 01 AND
            M0570_WHEN_CONFUSED[2] = 01, 02, 03, 04) OR
        (M0570_WHEN_CONFUSED = 02 AND
            M0570_WHEN_CONFUSED[2] = 02, 03, 04) OR (M0570_WHEN_CONFUSED = 03
            AND M0570_WHEN_CONFUSED[2] = 03, 04) OR (M0570_WHEN_CONFUSED = 04
            AND M0570_WHEN_CONFUSED[2] = 04)
THEN
    IMP_CONFUSION = 0
ELSE IF M0570_WHEN_CONFUSED = 00 OR M0570_WHEN_CONFUSED[2] = NA
THEN
    IMP_CONFUSION = MISSING
Improvement and Stabilization in Anxiety Level

IF M0580_WHEN_ANXIOUS NOT = 00, 01, 02, 03, NA OR
M0580_WHEN_ANXIOUS[2] NOT = 00, 01, 02, 03, NA
THEN
IMENTRY = MISSING
STAB_ANXIETY = MISSING
[SHOULD NEVER OCCUR]
ELSE

IF (M0580_WHEN_ANXIOUS = 01 AND M0580_WHEN_ANXIOUS[2] = 00) OR
(M0580_WHEN_ANXIOUS = 02 AND M0580_WHEN_ANXIOUS[2] = 00, 01) OR
(M0580_WHEN_ANXIOUS = 03 AND M0580_WHEN_ANXIOUS[2] = 00, 01, 02)
THEN
IMENTRY = 1
ELSE IF (M0580_WHEN_ANXIOUS = 01 AND M0580_WHEN_ANXIOUS[2] = 01, 02, 03)
OR (M0580_WHEN_ANXIOUS = 02 AND M0580_WHEN_ANXIOUS[2] = 02, 03)
OR (M0580_WHEN_ANXIOUS = 03 AND M0580_WHEN_ANXIOUS[2] = 03)
THEN
IMENTRY = 0
ELSE IF M0580_WHEN_ANXIOUS = 00 OR M0580_WHEN_ANXIOUS[2] = NA
THEN
IMENTRY = MISSING

IF (M0580_WHEN_ANXIOUS = 00 AND M0580_WHEN_ANXIOUS[2] = 00) OR
(M0580_WHEN_ANXIOUS = 01 AND M0580_WHEN_ANXIOUS[2] = 00, 01) OR
(M0580_WHEN_ANXIOUS = 02 AND M0580_WHEN_ANXIOUS[2] = 00, 01, 02)
THEN
STAB_ANXIETY = 1
ELSE IF (M0580_WHEN_ANXIOUS = 00 AND M0580_WHEN_ANXIOUS[2] = 01, 02, 03)
OR (M0580_WHEN_ANXIOUS = 01 AND M0580_WHEN_ANXIOUS[2] = 02, 03)
OR (M0580_WHEN_ANXIOUS = 02 AND M0580_WHEN_ANXIOUS[2] = 03)
THEN
STAB_ANXIETY = 0
ELSE IF M0580_WHEN_ANXIOUS = 03 OR M0580_WHEN_ANXIOUS[2] = NA
THEN
STAB_ANXIETY = MISSING

Improvement in Behavior Problem Frequency

IF M0620_BEH_PROB_FREQ NOT = 00, 01, 02, 03, 04, 05 OR
M0620_BEH_PROB_FREQ[2] NOT = 00, 01, 02, 03, 04, 05
THEN
IMENTRY = MISSING
[SHOULD NEVER OCCUR]
ELSE

ELSE IF (M0620_BEH_PROB_FREQ = 01 AND M0620_BEH_PROB_FREQ[2] = 00) OR
(M0620_BEH_PROB_FREQ = 02 AND M0620_BEH_PROB_FREQ[2] = 00, 01) OR
(M0620_BEH_PROB_FREQ = 03 AND M0620_BEH_PROB_FREQ[2] = 00, 01, 02)
OR (M0620_BEH_PROB_FREQ = 04 AND
M0620_BEH_PROB_FREQ[2] = 00, 01, 02, 03) OR (M0620_BEH_PROB_FREQ = 05
AND M0620_BEH_PROB_FREQ[2] = 00, 01, 02, 03, 04)
THEN
IMENTRY = 1
OUTCOME MEASURE TRANSFORMATION DOCUMENTATION

THEN
IMP_BEHAVIOR = 0
ELSE IF M0620_BEH_PROB_FREQ = 00
THEN
IMP_BEHAVIOR = MISSING

Utilization Outcomes

Utilization Outcomes are measurements of patients' usage of additional health care services while on service or upon leaving the care of the home health agency. Utilization Outcomes are not computed for patients who died [RFA = 08]).

IF M0100_ASSMT_REASON[2] = 06, 07, 09
THEN

Any Emergent Care

THEN
UTIL_EMERGENT = MISSING
[SHOULD NEVER OCCUR]
ELSE
IF M0830_UNKNOWN[2] = 1
THEN
UTIL_EMERGENT = MISSING
ELSE IF M0830_EC_NONE[2] = 0
THEN
UTIL_EMERGENT = 1
ELSE IF M0830_EC_NONE[2] = 1
THEN
UTIL_EMERGENT = 0
OUTCOME MEASURE TRANSFORMATION DOCUMENTATION

Discharged to Community

THEN
  UTIL_DCCOMM = MISSING
ELSE
  THEN
    UTIL_DCCOMM = 1
          M0100_ASSMT_REASON[2] = 06, 07
  THEN
    UTIL_DCCOMM = 0
  ELSE IF M0870_DSCHG_DISP[2] = UK
  THEN
    UTIL_DCCOMM = MISSING

Acute Care Hospitalization

(M0855_INPAT_FACILITY[2] = 01 AND M0890_HOSP_RSN[2] NOT = 01, 02, 03, UK)
THEN
  UTIL_HOSPDC = MISSING
ELSE
  THEN
    UTIL_HOSPDC = 1
  ELSE
    UTIL_HOSPDC = 0

Exclusions for All Outcome Measures

For all outcome measures, pediatric patients, patients with implausibly high age, and patients who are
comatose or nonresponsive at start of care are excluded.

IF AGE < 18 OR AGE > 120 OR M0570_WHEN_CONFUSED = NA OR M0580_WHEN_ANXIOUS = NA
THEN
  IMP_GROOMING = MISSING
  STAB_GROOMING = MISSING
  IMP_UPPERDRESS = MISSING
  IMP_LOWERDRESS = MISSING
  IMP_BATHING = MISSING
  STAB_BATHING = MISSING
  IMP_TOILETING = MISSING
  IMP_TRANSFERRING = MISSING
  STAB_TRANSFERRING = MISSING
  IMP_AMBULATION = MISSING
  STAB_AMBULATION = MISSING
  IMP_EATING = MISSING
  IMP_LIGHTMEAL = MISSING
  STAB_LIGHTMEAL = MISSING
  IMP_LAUNDRY = MISSING
  STAB_LAUNDRY = MISSING
  IMP_HOUSEKEEP = MISSING
SSTAB_HOUSEKEEP = MISSING
IMP_SHOPPING = MISSING
STAB_SHOPPING = MISSING
IMP_PHONE = MISSING
STAB_PHONE = MISSING
IMP_ORALMEDS = MISSING
STAB_ORALMEDS = MISSING
IMP_SPEECH = MISSING
STAB_SPEECH = MISSING
IMP_PAIN = MISSING
IMP_NUMBERWOUNDS = MISSING
IMP_STATUSWOUNDS = MISSING
IMP_DYSPNEA = MISSING
IMP_UTI = MISSING
IMP_INCONT = MISSING
IMP_BOWELINCONT = MISSING
IMP_COGNITIVE = MISSING
STAB_COGNITIVE = MISSING
IMP_CONFUSION = MISSING
IMP_ANXIETY = MISSING
STAB_ANXIETY = MISSING
IMP_BEHAVIOR = MISSING
UTIL_EMERGENT = MISSING
UTIL_DCCOMM = MISSING
UTIL_HOSP = MISSING
CASE MIX TRANSFORMATION DOCUMENTATION

The transformation documentation below indicates, for each measure that appears in the Case Mix Profile, the name of the measure as it appears on the report, followed by a formula OR logical expression indicating how the measure is calculated from specific OASIS data fields. Where a measure is coded for reporting exactly as it is coded for the corresponding item on the OASIS data record, the notation "[as originally coded]" appears. Case Mix Measures that are identical to Risk Factor Measures used for outcome reporting are designated by an asterisk.

Data Transformation Pseudo-Code

Demographics

*Age (average in years)
M0090_INFO_COMPLETED_DT minus M0066_PAT_BIRTH_DT, rounded down to the nearest year.

*Gender: Female (%)
1 IF M0069_PAT_GENDER = 2
0 OTHERWISE.

Race: Black (%)
MISSING IF M0140_ETHNIC_UK = 1;
OTHERWISE M0140_ETHNIC_BLACK [as originally coded].

Race: White (%)
MISSING IF M0140_ETHNIC_UK = 1;
OTHERWISE M0140_ETHNIC_WHITE [as originally coded].

Race: Other (%)
MISSING IF M0140_ETHNIC_UK = 1,
Otherwise:
1 IF M0140_ETHNIC_BLACK = 0 AND M0140_ETHNIC_WHITE = 0;
0 OTHERWISE.

Payment Source

All MISSING IF M0150_CPAY_UNKNOWN = 1
Otherwise:

*Any Medicare (%)
1 IF (M0150_CPAY_MCARE_FFS = 1 OR M0150_CPAY_MCARE_HMO = 1);
0 OTHERWISE.

Any Medicaid (%)
1 IF (M0150_CPAY_MCAID_FFS = 1 OR M0150_CPAY_MCAID_HMO = 1);
0 OTHERWISE.

Any HMO (%)
1 IF (M0150_CPAY_MCARE_HMO = 1 OR M0150_CPAY_MCAID_HMO = 1 OR M0150_CPAY_PRIV_HMO = 1);
0 OTHERWISE.

---

2 Where the name of the measure is followed by "(%)", the measure is coded as zero OR one, with zero representing absence and one indicating presence of the attribute in question. The percentage reported on the case mix report is the number of ones divided by the total number of valid cases, multiplied by 100. Where the name of the measure is followed by "(0-x, scale average)"; x indicates the maximum valid scale value the measure can take on, and the number reported on the report is the mean numeric value of the measure across all cases with valid (non-missing) values.
Medicare HMO (%)  
1 IF M0150_CPAY_MCARE_HMO = 1; 0 OTHERWISE.

Any third party (%)  
1 IF (M0150_CPAY_PRIV_HMO = 1 OR M0150_CPAY_PRIV_INS = 1); 0 OTHERWISE.

Current Residence

*Own home (%)  
1 IF M0300_CURR_RESIDENCE = 01; 0 OTHERWISE.

Family member home (%)  
1 IF M0300_CURR_RESIDENCE = 02; 0 OTHERWISE.

Current Living Situation

*Lives alone (%)  
M0340_LIV_ALONE [as originally coded]

*With family member (%)  
1 IF M0340_LIV_SPOUSE = 1 OR M0340_LIV_OTH_FAMILY = 1; 0 OTHERWISE.

With friend (%)  
M0340_LIV_FRIEND [as originally coded]

With paid help (%)  
M0340_LIV_PD_HELP [as originally coded]

Assisting Persons

All MISSING IF M0350_AP_UNKNOWN = 1
Otherwise:

Person residing in home (%)  
M0350_AP_HM_RESIDENT [as originally coded]

Person residing outside home (%)  
M0350_AP_REL_FRIEND [as originally coded]

Paid help (%)  
M0350_AP_PD_HELP [as originally coded]

Primary Caregiver

All MISSING IF M0360_PRIMARY_CAREGIVER = UK OR M0350_UNKNOWN = 1, All 0 IF M0350_AP_NONE = 1, Otherwise:

Spouse/significant other (%)  
1 IF M0360_PRIMARY_CAREGIVER = 01; 0 OTHERWISE.

Daughter/son (%)  
1 IF M0360_PRIMARY_CAREGIVER = 02; 0 OTHERWISE.

Paid help (%)  
1 IF M0360_PRIMARY_CAREGIVER = 05; 0 OTHERWISE.

No one person (%)  
1 IF M0360_PRIMARY_CAREGIVER = 00 OR M0350_AP_NONE = 1; 0 OTHERWISE.
Primary Caregiver Assistance

*Freq. of assistance* (0-6, scale avg.)
MISSING IF (M0360_PRIMARY_CAREGIVER = UK OR M0350_AP_UNKNOWN = 1 OR M0370_FREQ_PRM_ASSTANCE = UK);
Otherwise,
  0 IF M0360_PRIMARY_CAREGIVER = 00 OR M0350_AP_NONE = 1;
  1 IF M0370_FREQ_PRM_ASSTANCE = 06;
  2 IF M0370_FREQ_PRM_ASSTANCE = 05;
  3 IF M0370_FREQ_PRM_ASSTANCE = 04;
  4 IF M0370_FREQ_PRM_ASSTANCE = 03;
  5 IF M0370_FREQ_PRM_ASSTANCE = 02;
  6 IF M0370_FREQ_PRM_ASSTANCE = 01

Inpatient Discharge within 14 Days of SOC

One of two different transformations applies, depending upon the OASIS version, and corresponding data submission specifications version.

**OASIS-B1 10/98 -- Data Submission Specifications Version 1.04 and earlier**
*From hospital* (%)
  M0170_DC_HOSP_14_DAYS [as originally coded]
*From rehab facility* (%)
  M0170_DC_REHAB_14_DAYS [as originally coded]
*From nursing home* (%)
  M0170_DC_NURS_HOME_14_DAYS [as originally coded]

**OASIS-B1 08/2000 -- Data Submission Specifications Version 1.10 and later**
*From hospital* (%)
  M0175_DC_HOSP_14_DAYS [as originally coded]
*From rehab facility* (%)
  M0175_DC_REHAB_14_DAYS [as originally coded]
*From nursing home* (%)
  1 IF M0175_DC_SNF_14_DAYS = 1 OR M0175_DC_NH_14_DAYS = 1;
  0 OTHERWISE.

*Med. Reg. Chg. w/in 14 Days of SOC
  M0200_REG_CHG_14_DAYS [as originally coded]

Prognoses

*Moderate recovery prognosis* (%)
  MISSING IF M0260_OVERALL_PROGNOSIS = UK,
  Otherwise, M0260_OVERALL_PROGNOSIS [as originally coded]
*Good rehab prognosis* (%)
  MISSING IF M0270_REHAB_PROGNOSIS = UK,
  Otherwise, M0270_REHAB_PROGNOSIS [as originally coded]
ADL Disabilities at SOC

*Grooming* (0-3, scale average)
M0640_CUR_GROOMING [as originally coded]

*Dress upper body* (0-3, scale avg.)
M0650_CUR_DRESS_UPPER [as originally coded]

*Dress lower body* (0-3, scale avg.)
M0660_CUR_DRESS_LOWER [as originally coded]

*Bathing* (0-5, scale average)
M0670_CUR_BATHING [as originally coded]

*Toileting* (0-4, scale average)
M0680_CUR_TOILETING [as originally coded]

*Transferring* (0-5, scale average)
M0690_CUR_TRANSFERRING [as originally coded]

*Ambulation* (0-5, scale average)
M0700_CUR_AMBULATION [as originally coded]

*Eating* (0-5, scale average)
M0710_CUR_FEEDING [as originally coded]

ADL Status Prior to SOC

Grooming (0-3, scale average)
MISSING IF M0640_PR_GROOMING = UK,
Otherwise, M0640_PR_GROOMING [as originally coded]

Dress upper body (0-3, scale avg.)
MISSING IF M0650_PR_DRESS_UPPER = UK,
Otherwise, M0650_PR_DRESS_UPPER [as originally coded]

Dress lower body (0-3, scale avg.)
MISSING IF M0660_PR_DRESS_LOWER = UK,
Otherwise, M0660_PR_DRESS_LOWER [as originally coded]

Bathing (0-5, scale average)
MISSING IF M0670_PR_BATHING = UK,
Otherwise, M0670_PR_BATHING [as originally coded]

Toileting (0-4, scale average)
MISSING IF M0680_PR_TOILETING = UK,
Otherwise, M0680_PR_TOILETING [as originally coded]

Transferring (0-5, scale average)
MISSING IF M0690_PR_TRANSFERRING = UK,
Otherwise, M0690_PR_TRANSFERRING [as originally coded]

Ambulation (0-5, scale average)
MISSING IF M0700_PR_AMBULATION = UK,
Otherwise, M0700_PR_AMBULATION [as originally coded]

Eating (0-5, scale average)
MISSING IF M0710_PR_FEEDING = UK
Otherwise, M0710_PR_FEEDING [as originally coded]
CASE MIX TRANSFORMATION DOCUMENTATION

IADL Disabilities at SOC

*Light meal prep (0-2, scale avg.)
  M0720_CUR_PREP_LT_MEALS [as originally coded]

*Transportation (0-2, scale avg.)
  M0730_CUR_TRANSPORTATION [as originally coded]

*Laundry (0-2, scale average)
  M0740_CUR_LAUNDRY [as originally coded]

*Housekeeping (0-4, scale avg.)
  M0750_CUR_HOUSEKEEPING [as originally coded]

*Shopping (0-3, scale average)
  M0760_CUR_SHOPPING [as originally coded]

*Phone use (0-5, scale average)
  MISSING IF M0770_CUR_PHONE_USE = NA,
  Otherwise, M0770_CUR_PHONE_USE [as originally coded]

*Mgmt. oral meds (0-2, scale avg.)
  MISSING IF M0780_CUR_ORAL_MEDS = NA,
  Otherwise, M0780_CUR_ORAL_MEDS [as originally coded]

IADL Status Prior to SOC

Light meal prep (0-2, scale avg.)
  MISSING IF M0720_PR_PREP_LT_MEALS = UK,
  Otherwise, M0720_PR_PREP_LT_MEALS [as originally coded]

Transportation (0-2, scale avg.)
  MISSING IF M0730_PR_TRANSPORTATION = UK,
  Otherwise, M0730_PR_TRANSPORTATION [as originally coded]

Laundry (0-2, scale average)
  MISSING IF M0740_PR_LAUNDRY = UK,
  Otherwise, M0740_PR_LAUNDRY [as originally coded]

Housekeeping (0-4, scale avg.)
  MISSING IF M0750_PR_HOUSEKEEPING = UK,
  Otherwise, M0750_PR_HOUSEKEEPING [as originally coded]

Shopping (0-3, scale average)
  MISSING IF M0760_PR_SHOPPING = UK,
  Otherwise, M0760_PR_SHOPPING [as originally coded]

Phone use (0-5, scale average)
  MISSING IF M0770_PR_PHONE_USE = NA, UK
  Otherwise, M0770_PR_PHONE_USE [as originally coded]

Mgmt. oral meds (0-2, scale avg.)
  MISSING IF M0780_PR_ORAL_MEDS = NA, UK
  Otherwise, M0780_PR_ORAL_MEDS [as originally coded]

Respiratory Status

*Dyspnea (0-4, scale average)
  M0490_WHEN_DYSPNEIC [as originally coded]
CASE MIX TRANSFORMATION DOCUMENTATION

Therapies Received at Home

IV/infusion therapy (%)
M0250_THH_IV_INFUSION [as originally coded]

Parenteral nutrition (%)
M0250_THH_PAR_NUTRITION [as originally coded]

Enteral nutrition (%)
M0250_THH_ENT_NUTRITION [as originally coded]

Sensory Status

*Vision impairment (0-2, scale avg.)
M0390_VISION [as originally coded]

*Hearing impair. (0-4, scale avg.)
M0400_HEARING [as originally coded]

*Speech/language (0-5, scale avg.)
M0410_SPEECH [as originally coded]

Pain

*Pain interfer. w/activity (0-3, scale avg.)
M0420_FREQ_PAIN [as originally coded]

*Intractable pain (%)
M0430_INTRACT_PAIN [as originally coded]

Neuro/Emotional/Behavioral Status

Moderate cognitive disability (%)
1 IF M0560_COG_FUNCTION = 02,03,04;
0 OTHERWISE.

Severe confusion disability (%)
MISSING IF M0570_WHEN_CONFUSED = NA,
Otherwise:
1 IF M0570_WHEN_CONFUSED = 03,04;
0 OTHERWISE.

Severe anxiety level (%)
MISSING IF M0580_WHEN_ANXIOUS = NA,
Otherwise:
1 IF M0580_WHEN_ANXIOUS = 02,03;
0 OTHERWISE.

Behav probs > twice a week (%)
1 IF M0620_BEH_PROB_FREQ = 04,05;
0 OTHERWISE.
CASE MIX TRANSFORMATION DOCUMENTATION

Integumentary Status

Presence of wound/lesion (%)  
M0440_LESION_OPEN_WND [as originally coded]

*Stasis ulcer(s) present (%)  
M0468_STASIS_ULCER [as originally coded]

*Surgical wound(s) present (%)  
M0482_SURG_WOUND [as originally coded]

*Pressure ulcer(s) present (%)  
1 IF M0450_NBR_PRSULC_STG1 > 0 OR M0450_NBR_PRSULC_STG2 > 0 OR  
M0450_NBR_PRSULC_STG3 > 0 OR M0450_NBR_PRSULC_STG4 > 0;  
0 OTHERWISE.

*Stage 2-4 ulcer(s) present (%)  
1 IF M0450_NBR_PRSULC_STG2 > 0 OR M0450_NBR_PRSULC_STG3 > 0 OR  
M0450_NBR_PRSULC_STG4 > 0;  
0 OTHERWISE.

*Stage 3-4 ulcer(s) present (%)  
1 IF M0450_NBR_PRSULC_STG3 > 0 OR M0450_NBR_PRSULC_STG4 > 0;  
0 OTHERWISE.

Elimination Status

UTI within past 14 days (%)  
MISSING IF M0510_UTI = NA, UK  
Otherwise, M0510_UTI [as originally coded]

Urinary incont/catheter present (%)  
1 IF M0520_UR_INCONT = 01,02;  
0 OTHERWISE.

*Incontinent day and night (%)  
1 IF M0530_UR_INCONT_OCCURS = 02;  
0 OTHERWISE.

*Urinary catheter (%)  
1 IF M0520_UR_INCONT = 02;  
0 OTHERWISE.

Bowel incont. (0-5, scale avg.)  
MISSING IF M0540_BWL_INCONT = NA, UK  
Otherwise, M0540_BWL_INCONT [as originally coded]

Acute Conditions

Some of these measures are complex transformations based on a combination of data items and select groups of ICD-9 codes. The following terms have been used throughout the section to simplify the explanations:

“Inpatient facility discharge” indicates that one of the following conditions applies:

OASIS-B1 10/98 -- Data Submission Specifications Version 1.04 and earlier  
M0170_DC_HOSP_14_DAYS = 1 OR  
M0170_DC_REHAB_14_DAYS = 1 OR  
M0170_DC_NURS_HOME_14_DAYS = 1
CASE MIX TRANSFORMATION DOCUMENTATION

OASIS-B1 08/2000 -- Data Submission Specifications Version 1.10 and later

M0175_DC_HOSP_14_DAYS = 1 OR
M0175_DC_REHAB_14_DAYS = 1 OR
M0175_DC_SNF_14_DAYS = 1 OR
M0175_DC_NH_14_DAYS = 1

“Medical Regimen Change” indicates that:
M0200_REG_CHG_14_DAYS = 1

“Appropriate diagnosis codes” are as follows for the individual measures:

<table>
<thead>
<tr>
<th>Measure</th>
<th>ICD-9 Codes (Values and ranges listed below include 4 OR 5 digit codes beginning with the specified three digits.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orthopedic (%)</td>
<td>170-171, 213, 274, 710-739, 781, 800-848, 885-887, 895-897, 905, 927-928</td>
</tr>
<tr>
<td>Open wounds/lesions (%)</td>
<td>707, 870-884, 890-894, 940-949</td>
</tr>
<tr>
<td>Cardiac/peripheral vascular (%)</td>
<td>391, 393-398, 401-405, 410-417, 420-429, 440-448, 451-455, 456-459, 785</td>
</tr>
<tr>
<td>Pulmonary (%)</td>
<td>011-012, 160-165, 197, 212, 231, 460-466, 470-478, 480-487, 490-496, 500-508, 510-519, 786, 860-862</td>
</tr>
<tr>
<td>Diabetes Mellitus (%)</td>
<td>250</td>
</tr>
<tr>
<td>Gastrointestinal disorder (%)</td>
<td>001-009, 127, 129, 150-154, 156, 159, 211, 230, 530-537, 550-553, 555-558, 560-579, 787, 863</td>
</tr>
</tbody>
</table>

*Orthopedic (%)
1 IF (inpatient facility discharge AND appropriate diagnosis code entered in M0190_14_DAY_INP1_ICD OR M0190_14_DAY_INP2_ICD) OR (medical regimen change AND appropriate diagnosis code entered in M0210_CHGREG_ICD1 OR M0210_CHGREG_ICD2 OR M0210_CHGREG_ICD3 OR M0210_CHGREG_ICD4);
0 OTHERWISE.

*Neurologic (%)
1 IF (inpatient facility discharge AND appropriate diagnosis code entered in M0190_14_DAY_INP1_ICD OR M0190_14_DAY_INP2_ICD) OR (medical regimen change AND appropriate diagnosis code entered in M0210_CHGREG_ICD1 OR M0210_CHGREG_ICD2 OR M0210_CHGREG_ICD3 OR M0210_CHGREG_ICD4);
0 OTHERWISE.

*Open wounds/lesions (%)
1 IF (inpatient facility discharge AND appropriate diagnosis code entered in M0190_14_DAY_INP1_ICD OR M0190_14_DAY_INP2_ICD) OR (medical regimen change AND appropriate diagnosis code entered in M0210_CHGREG_ICD1 OR M0210_CHGREG_ICD2 OR M0210_CHGREG_ICD3 OR M0210_CHGREG_ICD4) OR M0440_LESION_OPEN_WND = 1;
0 OTHERWISE.
*Terminal condition (%)  1 IF M0280_LIFE_EXPECTANCY = 01;  0 OTHERWISE

*Cardiac/peripheral vascular (%)  1 IF (inpatient facility discharge AND appropriate diagnosis code entered in M0190_14_DAY_INP1_ICD OR M0190_14_DAY_INP2_ICD) OR (medical regimen change AND appropriate diagnosis code entered in M0210_CHGREG_ICD1 OR M0210_CHGREG_ICD2 OR M0210_CHGREG_ICD3 OR M0210_CHGREG_ICD4);  0 OTHERWISE.

*Pulmonary (%)  1 IF (inpatient facility discharge AND appropriate diagnosis code entered in M0190_14_DAY_INP1_ICD OR M0190_14_DAY_INP2_ICD) OR (medical regimen change AND appropriate diagnosis code entered in M0210_CHGREG_ICD1 OR M0210_CHGREG_ICD2 OR M0210_CHGREG_ICD3 OR M0210_CHGREG_ICD4);  0 OTHERWISE.

*Diabetes mellitus (%)  1 IF (inpatient facility discharge AND appropriate diagnosis code entered in M0190_14_DAY_INP1_ICD OR M0190_14_DAY_INP2_ICD) OR (medical regimen change AND appropriate diagnosis code entered in M0210_CHGREG_ICD1 OR M0210_CHGREG_ICD2 OR M0210_CHGREG_ICD3 OR M0210_CHGREG_ICD4);  0 OTHERWISE.

*Gastrointestinal disorder (%)  1 IF (inpatient facility discharge AND appropriate diagnosis code entered in M0190_14_DAY_INP1_ICD OR M0190_14_DAY_INP2_ICD) OR (medical regimen change AND appropriate diagnosis code entered in M0210_CHGREG_ICD1 OR M0210_CHGREG_ICD2 OR M0210_CHGREG_ICD3 OR M0210_CHGREG_ICD4) OR M0550_OSTOMY = 01;  0 OTHERWISE.

*Contagious/communicable (%)  1 IF (inpatient facility discharge AND appropriate diagnosis code entered in M0190_14_DAY_INP1_ICD OR M0190_14_DAY_INP2_ICD) OR (medical regimen change AND appropriate diagnosis code entered in M0210_CHGREG_ICD1 OR M0210_CHGREG_ICD2 OR M0210_CHGREG_ICD3 OR M0210_CHGREG_ICD4);  0 OTHERWISE.

*Urinary incont./catheter (%)  1 IF (inpatient facility discharge OR medical regimen change) AND (M0520_UR_INCONT = 01,02) AND (M0220_PRIOR_UR_INCON ≠ 1 AND M0220_PRIOR_CATH ≠ 1);  0 OTHERWISE.

*Mental/emotional (%)  M0630_REC_PSYCH_NURS [as originally coded]

*Oxygen therapy (%)  M0500_RESPTX_OXYGEN [as originally coded]
CASE MIX TRANSFORMATION DOCUMENTATION

*IV/infusion therapy (%)  
M0250_THH_IV_INFUSION [as originally coded]

*Enteral/parenteral nutrition (%)  
M0250_THH_PAR_NUTRITION [as originally coded]

*Ventilator (%)  
M0500_RESPTX_VENTILATOR [as originally coded]

Chronic Conditions

These measures are complex transformations based on a series of OASIS data items and, as with the “Acute Conditions”, the following terms have been used throughout the section to simplify the explanations.

“Inpatient facility discharge” indicates that one of the following conditions applies:

OASIS-B1 10/98 -- Data Submission Specifications Version 1.04 and earlier

M0170_DC_HOSP_14_DAYS = 1 OR  
M0170_DC_REHAB_14_DAYS = 1 OR  
M0170_DC_NURS_HOME_14_DAYS = 1

OASIS-B1 08/2000 -- Data Submission Specifications Version 1.10 and later

M0175_DC_HOSP_14_DAYS = 1 OR  
M0175_DC_REHAB_14_DAYS = 1 OR  
M0175_DC_SNF_14_DAYS = 1 OR  
M0175_DC_NH_14_DAYS = 1

“Medical Regimen Change” indicates that:

M0200_REG_CHG_14_DAYS = 1

*Dependence in living skills (%)  
1 IF ((inpatient facility discharge OR medical regimen change) AND  
M0720_PR_PREP_LT_MEALS = 01,02 AND any of the following combinations:  
(M0730_PR_TRANSPORTATION = 01,02 AND (M0740_PR_LAUNDRY = 01,02 OR  
M0750_PR_HOUSEKEEPING = 03,04 OR M0760_PR_SHOPPING = 02,03 OR  
M0770_PR_PHONE_USE = 04,05)) OR  
(M0740_PR_LAUNDRY = 01,02 AND (M0750_PR_HOUSEKEEPING = 03,04 OR  
M0760_PR_SHOPPING = 02,03 OR M0770_PR_PHONE_USE = 04,05)) OR  
(M0750_PR_HOUSEKEEPING = 03,04 AND (M0760_PR_SHOPPING = 02,03 OR  
M0770_PR_PHONE_USE = 04,05)) OR  
(M0760_PR_SHOPPING = 02,03 AND M0770_PR_PHONE_USE = 04,05)) OR  
(no inpatient facility discharge AND no medical regimen change AND  
M0720_CUR_PREP_LT_MEALS = 01,02 AND any of the following combinations:  
(M0730_CUR_TRANSPORTATION = 01,02 AND  
(M0740_CUR_LAUNDRY = 01,02 OR M0750_CUR_HOUSEKEEPING = 03,04 OR  
M0760_CUR_SHOPPING = 02,03 OR M0770_CUR_PHONE_USE = 04,05)) OR  
(M0740_CUR_LAUNDRY = 01,02 AND (M0750_CUR_HOUSEKEEPING = 03,04 OR  
M0760_CUR_SHOPPING = 02,03 OR M0770_CUR_PHONE_USE = 04,05)) OR  
(M0750_CUR_HOUSEKEEPING = 03,04 AND (M0760_CUR_SHOPPING = 02,03 OR  
M0770_CUR_PHONE_USE = 04,05)) OR  
(M0760_CUR_SHOPPING = 02,03 AND M0770_CUR_PHONE_USE = 04,05));  
0 OTHERWISE.
*Dependence in personal care (%) 
1 IF (inpatient facility discharge OR medical regimen change) AND  
(M0670_PR_BATHING = 03,04,05 OR M0640_PR_GROOMING = 02,03 AND  
(M0650_PR_DRESS_UPPER = 02,03 OR M0660_PR_DRESS_LOWER = 02,03)) OR  
(no inpatient facility discharge AND no medical regimen change AND  
(M0670_CUR_BATHING = 03,04,05 OR M0640_CUR_GROOMING = 02,03 AND  
(M0650_CUR_DRESS_UPPER = 02,03 OR M0660_CUR_DRESS_LOWER = 02,03))),  
0 OTHERWISE.

*Impaired ambulation/mobility (%) 
1 IF ((inpatient facility discharge OR medical regimen change) AND  
(M0680_PR_TOILETING = 03,04 OR M0690_PR_TRANSFERRING = 02,03,04,05 OR  
M0700_PR_AMBULATION = 02,03,04,05)) OR  
((no inpatient facility discharge AND no medical regimen change) AND  
(M0680_CUR_TOILETING = 03,04 OR M0690_CUR_TRANSFERRING = 02,03,04,05 OR  
M0700_CUR_AMBULATION = 02,03,04,05));  
0 OTHERWISE.

*Eating disability (%) 
1 IF ((inpatient facility discharge OR medical regimen change) AND  
M0710_PR_FEEDING = 02,03,04,05) OR (no inpatient facility discharge AND  
no medical regimen change AND M0710_CUR_FEEDING = 02,03,04,05);  
0 OTHERWISE.

*Urinary incontinence/catheter (%) 
1 IF ((inpatient facility discharge OR medical regimen change) AND M0520_UR_INCONT = 01,02  
AND (M0220_PRIOR_UR_INCON = 1 OR M0220_PRIOR_CATH = 1)) OR  
(no inpatient facility discharge AND no medical regimen change AND  
M0520_UR_INCONT = 01,02);  
0 OTHERWISE.

*Dependence in med. admin. (%)  
1 IF (if inpatient facility discharge OR medical regimen change) AND  
(M0780_PR_ORAL_MEDS = 01,02 OR M0790_PR_INHAL_MEDS = 01,02 OR  
M0800_PR_INJECT_MEDS = 01,02)) OR  
(no inpatient facility discharge AND no medical regimen change AND  
(M0780_CUR_ORAL_MEDS = 01,02 OR M0790_CUR_INHAL_MEDS = 01,02 OR  
M0800_CUR_INJECT_MEDS = 01,02));  
0 OTHERWISE.

*Chronic pain (%) 
1 IF ((inpatient facility discharge OR medical regimen change) AND  
(M0430_INTRACT_PAIN = 1 AND M0220_PRIOR_INTRACT_PAIN = 1), OR  
(no inpatient facility discharge AND no medical regimen change AND  
M0430_INTRACT_PAIN = 1);  
0 OTHERWISE.
**Cognitive/mental/behavioral (%)**
1 IF ((inpatient facility discharge OR medical regimen change) AND (M0220_PRIOR_IMPR_DECSN = 1 OR M0220_PRIOR_DISRUPTIVE = 1 OR M0220_PRIOR_MEM_LOSS = 1 OR M0610_BD_MEM_DEFICIT = 1 OR M0610_BD_IMP_DECISN = 1 OR M0610_BD_VERBAL = 1 OR M0610_BD_PHYSICAL = 1 OR M0610_BD_SOC_INAPPRO = 1 OR M0610_BD_DELUSIONS = 1)) OR ((no inpatient facility discharge AND no medical regimen change) AND (M0610_BD_MEM_DEFICIT = 1 OR M0610_BD_IMP_DECISN = 1 OR M0610_BD_VERBAL = 1 OR M0610_BD_PHYSICAL = 1 OR M0610_BD_SOC_INAPPRO = 1 OR M0610_BD_DELUSIONS = 1));
0 OTHERWISE.

**Chronic pt. with caregiver (%)**
1 IF M0350_AP_HM_RESIDENT = 1 AND Any of the other eight chronic conditions have values of 1;
0 OTHERWISE.

**Diagnoses for Which Patients are Receiving Home Care**

This series of data items is based on the six OASIS 'home care diagnosis' data items and their corresponding severity ratings. Note that the values and ranges of ICD-9 codes listed below are inclusive of 4 OR 5 digit codes beginning with the specified three digits. The data items are as follows:

<table>
<thead>
<tr>
<th>Home Care Diagnosis Code</th>
<th>Corresponding Severity Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>M0230_PRIMARY_DIAG_ICD...</td>
<td>M0230_PRIMARY_DIAG_SEVERITY</td>
</tr>
<tr>
<td>M0240_OTH_DIAG1_ICD......</td>
<td>M0240_OTH_DIAG1_SEVERITY</td>
</tr>
<tr>
<td>M0240_OTH_DIAG2_ICD......</td>
<td>M0240_OTH_DIAG2_SEVERITY</td>
</tr>
<tr>
<td>M0240_OTH_DIAG3_ICD......</td>
<td>M0240_OTH_DIAG3_SEVERITY</td>
</tr>
<tr>
<td>M0240_OTH_DIAG4_ICD......</td>
<td>M0240_OTH_DIAG4_SEVERITY</td>
</tr>
<tr>
<td>M0240_OTH_DIAG5_ICD......</td>
<td>M0240_OTH_DIAG5_SEVERITY</td>
</tr>
</tbody>
</table>

**Infectious/parasitic diseases (%)**
1 IF any home care diagnosis code is in range 001-139 AND the corresponding severity rating is >=1;
0 OTHERWISE.

**Neoplasms (%)**
1 IF any home care diagnosis code is in range 140-239 AND the corresponding severity rating is >=1;
0 OTHERWISE.

**Endocrine/nutrit./metabolic (%)**
1 IF any home care diagnosis code is in range 240-279 AND the corresponding severity rating is >=1;
0 OTHERWISE.

**Blood diseases (%)**
1 IF any home care diagnosis code is in range 280-289 AND the corresponding severity rating is >=1;
0 OTHERWISE.
Mental diseases (%)  
1 IF any home care diagnosis code is in range 290-319 AND  
the corresponding severity rating is >=1;  
0 OTHERWISE.

Nervous system diseases (%)  
1 IF any home care diagnosis code is in range 320-389 AND  
the corresponding severity rating is >=1;  
0 OTHERWISE.

Circulatory system diseases (%)  
1 IF any home care diagnosis code is in range 390-459 AND  
the corresponding severity rating is >=1;  
0 OTHERWISE.

Respiratory system diseases (%)  
1 IF any home care diagnosis code is in range 460-519 AND  
the corresponding severity rating is >=1;  
0 OTHERWISE.

Digestive system diseases (%)  
1 IF any home care diagnosis code is in range 520-579 AND  
the corresponding severity rating is >=1;  
0 OTHERWISE.

Genitourinary sys. diseases (%)  
1 IF any home care diagnosis code is in range 580-629 AND  
the corresponding severity rating is >=1;  
0 OTHERWISE.

Pregnancy problems (%)  
1 IF any home care diagnosis code is in range 630-676 AND  
the corresponding severity rating is >=1;  
0 OTHERWISE.

Skin/subcutaneous diseases (%)  
1 IF any home care diagnosis code is in range 680-709 AND  
the corresponding severity rating is >=1;  
0 OTHERWISE.

Musculoskeletal sys. diseases (%)  
1 IF any home care diagnosis code is in range 710-739 AND  
the corresponding severity rating is >=1;  
0 OTHERWISE.

Congenital anomalies (%)  
1 IF any home care diagnosis code is in range 740-759 AND  
the corresponding severity rating is >=1;  
0 OTHERWISE.
Ill-defined conditions (%)  
1 IF any home care diagnosis code is in range 780-799 AND  
the corresponding severity rating is >=1;  
0 OTHERWISE.

Fractures (%)  
1 IF any home care diagnosis code is in range 800-848 AND  
the corresponding severity rating is >=1;  
0 OTHERWISE.

Intracranial injury (%)  
1 IF any home care diagnosis code is in range 850-854 AND  
the corresponding severity rating is >=1;  
0 OTHERWISE.

Other injury (%)  
1 IF any home care diagnosis code is in range 860-959 AND  
the corresponding severity rating is >=1;  
0 OTHERWISE.

Iatrogenic conditions (%)  
1 IF any home care diagnosis code is in range 960-999 AND  
the corresponding severity rating is >=1;  
0 OTHERWISE.

Length of Stay

*LOS until discharge (avg. in days)*  
For episodes beginning with SOC assessment:  
(M0906_DC_TRAN_DTH_DT[2] – M0030_START_CARE_DT) + 1  
For episodes beginning with ROC assessment:  
(M0906_DC_TRAN_DTH_DT[2] – M0032_ROC_DT) + 1

LOS from 1 to 31 days (%)  
1 IF LOS until discharge <= 31;  
0 OTHERWISE.

LOS from 32 to 62 days (%)  
1 IF LOS until discharge >= 32 AND <= 62;  
0 OTHERWISE.

LOS from 63 to 124 days (%)  
1 IF LOS until discharge >= 63 AND <= 124;  
0 OTHERWISE.

LOS more than 124 days (%)  
1 IF LOS until discharge > 124;  
0 OTHERWISE.
Risk Factors

There are 143 measures used as potential risk factors in the risk adjustment process. Among these, 66 are defined identically to measures that appear in the Case Mix Profile. Therefore, they are described below by reference to the Case Mix Transformation Documentation in the preceding section of this document. These are designated by a “Yes” in the rightmost column of the table below. A further 36 measures used as risk factors are based on case mix measures, with modifications for purposes of risk adjustment. These are designated by a "No*" in the final column of the table. The remaining risk factor measures do not appear in any form on the Case Mix Profile. Throughout the remainder of this document, risk factor measures are referred to by the names indicated in the second column of the table below. The descriptive names appearing in the leftmost column are included for cross-reference with Documentation of Prediction Models Used for Risk Adjustment of Home Health Agency Outcome Reports, available at http://www.cms.hhs.gov/oasis/riskadj1appa.pdf.

<table>
<thead>
<tr>
<th>Risk Factor Description</th>
<th>Data Item Name</th>
<th>Same as Case Mix Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute condition: orthopedic (0-1)</td>
<td>ACUTE_1</td>
<td>Yes</td>
</tr>
<tr>
<td>Acute condition: urinary incontinence/catheter (0-1)</td>
<td>ACUTE_10</td>
<td>Yes</td>
</tr>
<tr>
<td>Acute condition: mental/emotional (0-1)</td>
<td>ACUTE_11</td>
<td>Yes</td>
</tr>
<tr>
<td>Acute condition: oxygen therapy (0-1)</td>
<td>ACUTE_12</td>
<td>Yes</td>
</tr>
<tr>
<td>Acute condition: IV/Infusion therapy (0-1)</td>
<td>ACUTE_13</td>
<td>Yes</td>
</tr>
<tr>
<td>Acute condition: enteral/parenteral nutrition (0-1)</td>
<td>ACUTE_14</td>
<td>Yes</td>
</tr>
<tr>
<td>Acute condition: ventilator (0-1)</td>
<td>ACUTE_15</td>
<td>Yes</td>
</tr>
<tr>
<td>Acute condition: other #</td>
<td>ACUTE_16 *</td>
<td>Yes</td>
</tr>
<tr>
<td>Acute condition: neurologic (0-1)</td>
<td>ACUTE_2</td>
<td>Yes</td>
</tr>
<tr>
<td>Acute condition: open wound/lesion (0-1)</td>
<td>ACUTE_3</td>
<td>Yes</td>
</tr>
<tr>
<td>Acute condition: terminal (0-1)</td>
<td>ACUTE_4</td>
<td>Yes</td>
</tr>
<tr>
<td>Acute condition: cardiac/peripheral vascular (0-1)</td>
<td>ACUTE_5</td>
<td>Yes</td>
</tr>
<tr>
<td>Acute condition: pulmonary (0-1)</td>
<td>ACUTE_6</td>
<td>Yes</td>
</tr>
<tr>
<td>Acute condition: diabetes mellitus (0-1)</td>
<td>ACUTE_7</td>
<td>Yes</td>
</tr>
<tr>
<td>Acute condition: gastrointestinal disorder (0-1)</td>
<td>ACUTE_8</td>
<td>Yes</td>
</tr>
<tr>
<td>Acute condition: contagious/communicable disease (0-1)</td>
<td>ACUTE_9</td>
<td>Yes</td>
</tr>
<tr>
<td>Age (in years)</td>
<td>AGE</td>
<td>Yes</td>
</tr>
<tr>
<td>Disability in ambulation (0-5)</td>
<td>AMBULATION</td>
<td>Yes</td>
</tr>
<tr>
<td>Anxiety level (0-3)</td>
<td>ANXIETYLEVEL</td>
<td>No</td>
</tr>
<tr>
<td>Diagnosis: infectious/parasitic disease (0-1)</td>
<td>ANYDIAG_1</td>
<td>No*</td>
</tr>
<tr>
<td>Diagnosis: genitourinary system diseases (0-1)</td>
<td>ANYDIAG_10</td>
<td>No*</td>
</tr>
<tr>
<td>Diagnosis: pregnancy problems (0-1)</td>
<td>ANYDIAG_11</td>
<td>No*</td>
</tr>
<tr>
<td>Diagnosis: skin/subcutaneous diseases (0-1)</td>
<td>ANYDIAG_12</td>
<td>No*</td>
</tr>
<tr>
<td>Diagnosis: musculoskeletal system diseases (0-1)</td>
<td>ANYDIAG_13</td>
<td>No*</td>
</tr>
<tr>
<td>Diagnosis: congenital anomalies (0-1)</td>
<td>ANYDIAG_14</td>
<td>No*</td>
</tr>
<tr>
<td>Diagnosis: ill-defined conditions (0-1)</td>
<td>ANYDIAG_15</td>
<td>No*</td>
</tr>
<tr>
<td>Diagnosis: fractures (0-1)</td>
<td>ANYDIAG_16</td>
<td>No*</td>
</tr>
<tr>
<td>Diagnosis: intracranial injury (0-1)</td>
<td>ANYDIAG_17</td>
<td>No*</td>
</tr>
<tr>
<td>Diagnosis: other injury (0-1)</td>
<td>ANYDIAG_18</td>
<td>No*</td>
</tr>
<tr>
<td>Diagnosis: neoplasms (0-1)</td>
<td>ANYDIAG_2</td>
<td>No*</td>
</tr>
<tr>
<td>Diagnosis: endocrine/nutritional/metabolic (0-1)</td>
<td>ANYDIAG_3</td>
<td>No*</td>
</tr>
<tr>
<td>Diagnosis: blood diseases (0-1)</td>
<td>ANYDIAG_4</td>
<td>No*</td>
</tr>
<tr>
<td>Diagnosis: mental disease (0-1)</td>
<td>ANYDIAG_5</td>
<td>No*</td>
</tr>
<tr>
<td>Risk Factor Description</td>
<td>Data Item Name</td>
<td>Same as Case Mix Measure</td>
</tr>
<tr>
<td>----------------------------------------------------------------------------------------</td>
<td>----------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Diagnosis: nervous system disorder (0-1)</td>
<td>ANYDIAG_6</td>
<td>No*</td>
</tr>
<tr>
<td>Diagnosis: circulatory system diseases (0-1)</td>
<td>ANYDIAG_7</td>
<td>No*</td>
</tr>
<tr>
<td>Diagnosis: respiratory system diseases (0-1)</td>
<td>ANYDIAG_8</td>
<td>No*</td>
</tr>
<tr>
<td>Diagnosis: digestive system diseases (0-1)</td>
<td>ANYDIAG_9</td>
<td>No*</td>
</tr>
<tr>
<td>Primary caregiver present (0-1)</td>
<td>ANYPRIMARY</td>
<td>No</td>
</tr>
<tr>
<td>Total number of acute conditions reported (0-16)</td>
<td>AQUIGN</td>
<td>No</td>
</tr>
<tr>
<td>Disability in bathing (0-5)</td>
<td>BATHING</td>
<td>Yes</td>
</tr>
<tr>
<td>Demonstrated behavior: memory deficit (0-1)</td>
<td>BEHAVE_1</td>
<td>No</td>
</tr>
<tr>
<td>Demonstrated behavior: impaired decision-making (0-1)</td>
<td>BEHAVE_2</td>
<td>No</td>
</tr>
<tr>
<td>Demonstrated behavior: verbal disruption (0-1)</td>
<td>BEHAVE_3</td>
<td>No</td>
</tr>
<tr>
<td>Demonstrated behavior: disruptive, infant, socially inappr. (0-1)</td>
<td>BEHAVE_4</td>
<td>No</td>
</tr>
<tr>
<td>Bowel incontinence frequency (0-5)</td>
<td>BOWEL_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>ADL assistance provided by caregiver (0-1)</td>
<td>CAREGIVER_1</td>
<td>No</td>
</tr>
<tr>
<td>IADL assistance provided by caregiver (0-1)</td>
<td>CAREGIVER_2</td>
<td>No</td>
</tr>
<tr>
<td>Urinary catheter (0-1)</td>
<td>CATHETER</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic condition: dependence in living skills (0-1)</td>
<td>CHRONIC_1</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic condition: dependence in personal care (0-1)</td>
<td>CHRONIC_2</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic condition: impaired ambulation/mobility (0-1)</td>
<td>CHRONIC_3</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic condition: eating disability (0-1)</td>
<td>CHRONIC_4</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic condition: urinary incontinence/catheter (0-1)</td>
<td>CHRONIC_5</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic condition: dependence in medication admin. (0-1)</td>
<td>CHRONIC_6</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic condition: chronic pain (0-1)</td>
<td>CHRONIC_7</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic condition: cognitive/mental/behavioral problems (0-1)</td>
<td>CHRONIC_8</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic condition: at least one, but caregiver present (0-1)</td>
<td>CHRONIC_9</td>
<td>Yes</td>
</tr>
<tr>
<td>Disability in cognitive functioning (0-4)</td>
<td>COGNITIVEFUNC</td>
<td>No</td>
</tr>
<tr>
<td>Confusion scale (0-4)</td>
<td>CONFUSIONFREQ</td>
<td>No</td>
</tr>
<tr>
<td>Total number of chronic conditions reported (0-9)</td>
<td>CQUIGN</td>
<td>No</td>
</tr>
<tr>
<td>Depression scale (0-5)</td>
<td>DEPRESSION</td>
<td>No</td>
</tr>
<tr>
<td>Dyspnea (0-4)</td>
<td>DPSNEA</td>
<td>Yes</td>
</tr>
<tr>
<td>Disability in eating (0-5)</td>
<td>EATING</td>
<td>Yes</td>
</tr>
<tr>
<td>Infrequency of caregiver assistance (1-7)</td>
<td>FREQASST</td>
<td>Yes</td>
</tr>
<tr>
<td>Gender: female (0-1)</td>
<td>GENDER</td>
<td>Yes</td>
</tr>
<tr>
<td>Disability in grooming (0-3)</td>
<td>GROOMING</td>
<td>Yes</td>
</tr>
<tr>
<td>Hearing impairment (0-4)</td>
<td>HEARING</td>
<td>Yes</td>
</tr>
<tr>
<td>Disability in housekeeping (0-4)</td>
<td>HOUSEKEEPING</td>
<td>Yes</td>
</tr>
<tr>
<td>Incontinent during day and night (0-1)</td>
<td>INCONT</td>
<td>Yes</td>
</tr>
<tr>
<td>Urinary incontinence severity 1 (0-4)</td>
<td>INCONTBASE</td>
<td>No</td>
</tr>
<tr>
<td>Presence of urinary incontinence (0-1)</td>
<td>INCONTCATH</td>
<td>No</td>
</tr>
<tr>
<td>Urinary incontinence severity 2 (0-4)</td>
<td>INCONTSEV</td>
<td>No</td>
</tr>
<tr>
<td>Inpatient discharge from hospital (0-1)</td>
<td>INPT_1</td>
<td>Yes</td>
</tr>
<tr>
<td>Inpatient discharge from rehab. facility (0-1)</td>
<td>INPT_2</td>
<td>Yes</td>
</tr>
<tr>
<td>Inpatient discharge from nursing home (0-1)</td>
<td>INPT_3</td>
<td>Yes</td>
</tr>
<tr>
<td>Intractable pain (0-1)</td>
<td>INTPAIN</td>
<td>Yes</td>
</tr>
<tr>
<td>Disability in laundry (0-2)</td>
<td>LAUNDRY</td>
<td>Yes</td>
</tr>
<tr>
<td>Patient lives alone (0-1)</td>
<td>LIVE_1</td>
<td>Yes</td>
</tr>
<tr>
<td>Patient lives with family member (0-1)</td>
<td>LIVE_2</td>
<td>Yes</td>
</tr>
<tr>
<td>Length of stay: more than 124 days (0-1)</td>
<td>LOS_4MO</td>
<td>Yes</td>
</tr>
<tr>
<td>Length of stay: more than 31 days (0-1)</td>
<td>LOSGT31</td>
<td>No*</td>
</tr>
<tr>
<td>Risk Factor Description</td>
<td>Data Item Name</td>
<td>Same as Case Mix Measure</td>
</tr>
<tr>
<td>------------------------------------------------------------------</td>
<td>------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Length of stay: more than 62 days (0-1)</td>
<td>LOSGT62</td>
<td>No*</td>
</tr>
<tr>
<td>Disability in dressing lower body (0-3)</td>
<td>LOWERDRESS</td>
<td>Yes</td>
</tr>
<tr>
<td>Maximum severity rating among all diagnoses (0-4)</td>
<td>MAXIMUMSEV</td>
<td>No</td>
</tr>
<tr>
<td>Disability in light meal preparation (0-2)</td>
<td>MEALPREP</td>
<td>Yes</td>
</tr>
<tr>
<td>Medical regimen change in past 14 days (0-1)</td>
<td>MEDREG</td>
<td>Yes</td>
</tr>
<tr>
<td>Patient has unpaid live-in help (0-1)</td>
<td>NEWASSIST</td>
<td>No</td>
</tr>
<tr>
<td>Disability in mgt. of oral medications (0-2)</td>
<td>ORALMeds</td>
<td>Yes</td>
</tr>
<tr>
<td>Bowel ostomy (0-1)</td>
<td>OSTOMY</td>
<td>No</td>
</tr>
<tr>
<td>Prior (2 weeks ago) disability in ambulation (0-5)</td>
<td>P_AMBULATION_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>Prior (2 weeks ago) disability in bathing (0-5)</td>
<td>P_BATHING_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>Prior (2 weeks ago) disability in eating (0-5)</td>
<td>P_EATING_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>Prior (2 weeks ago) disability in grooming (0-3)</td>
<td>P_GROOMING_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>Prior (2 weeks ago) disability in housekeeping (0-4)</td>
<td>P_HOUSEKEEPING_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>Prior (2 weeks ago) disability in laundry (0-2)</td>
<td>P_LAUNDRY_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>Prior (2 weeks ago) disability in dressing lower body (0-3)</td>
<td>P_LOWERDRESS_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>Prior (2 weeks ago) disability in light meal preparation (0-2)</td>
<td>P_MEALPREP_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>Prior (2 weeks ago) disability in mgt. of oral medications (0-2)</td>
<td>P_ORALMeds_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>Prior (2 weeks ago) disability in telephone use (0-5)</td>
<td>P_PHONEUSE_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>Prior (2 weeks ago) disability in shopping (0-3)</td>
<td>P_SHOPPING_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>Prior (2 weeks ago) disability in toiletng (0-4)</td>
<td>P_TOILETING_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>Prior (2 weeks ago) disability in transportation (0-2)</td>
<td>P_TRANSFERRING_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>Prior (2 weeks ago) disability in transferring (0-5)</td>
<td>P_TRANSPORT_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>Prior (2 weeks ago) disability in dressing upper body (0-3)</td>
<td>P_UPPERDRESS_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>Pain interfering with activity (0-3)</td>
<td>PAIN</td>
<td>Yes</td>
</tr>
<tr>
<td>Medicare as a payment source (0-1)</td>
<td>PAY_1</td>
<td>Yes</td>
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<tr>
<td>Disability in telephone use (0-5)</td>
<td>PHONEUSE</td>
<td>Yes</td>
</tr>
<tr>
<td>Stage 1-4 pressure ulcer(s) present (0-1)</td>
<td>PRESSURE</td>
<td>Yes</td>
</tr>
<tr>
<td>Status of most problematic pressure ulcer (0-3)</td>
<td>PRESSURESTATUS</td>
<td>No</td>
</tr>
<tr>
<td>Stage of most problematic pressure ulcer (0-4)</td>
<td>PRESSUREULCER</td>
<td>No</td>
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<tr>
<td>Urinary incontinence with past 2 weeks (0-1)</td>
<td>PRIOR_1</td>
<td>No</td>
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<tr>
<td>Urinary catheter within past 2 weeks (0-1)</td>
<td>PRIOR_2</td>
<td>No</td>
</tr>
<tr>
<td>Intractable pain within past 2 weeks (0-1)</td>
<td>PRIOR_3</td>
<td>No</td>
</tr>
<tr>
<td>Impaired decision-making within past 2 weeks (0-1)</td>
<td>PRIOR_4</td>
<td>No</td>
</tr>
<tr>
<td>Disruptive/socially inappropriate behavior, past 2 weeks (0-1)</td>
<td>PRIOR_5</td>
<td>No</td>
</tr>
<tr>
<td>Memory loss requiring supervision within past 2 weeks (0-1)</td>
<td>PRIOR_6</td>
<td>No</td>
</tr>
<tr>
<td>Behavior problem frequency (0-5)</td>
<td>PROBFREQ</td>
<td>No</td>
</tr>
<tr>
<td>Moderate functional status recovery prognosis (0-1)</td>
<td>PROG</td>
<td>Yes</td>
</tr>
<tr>
<td>Good functional status rehabilitation prognosis (0-1)</td>
<td>REHAB</td>
<td>Yes</td>
</tr>
<tr>
<td>Patient lives in own home (0-1)</td>
<td>RESIDE_1</td>
<td>Yes</td>
</tr>
<tr>
<td>Heavy smoking at SOC (0-1)</td>
<td>RISK_1</td>
<td>No</td>
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<tr>
<td>Obese at SOC (0-1)</td>
<td>RISK_2</td>
<td>No</td>
</tr>
<tr>
<td>Alcoholism at SOC (0-1)</td>
<td>RISK_3</td>
<td>No</td>
</tr>
<tr>
<td>Drug dependency at SOC (0-1)</td>
<td>RISK_4</td>
<td>No</td>
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<tr>
<td>Intervening inpatient care (0-1)</td>
<td>ROCIND</td>
<td>No</td>
</tr>
<tr>
<td>Severity rating for primary diagnosis (0-4)</td>
<td>SEVERITY</td>
<td>No</td>
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<tr>
<td>Number of diagnoses with severity rating &gt; 2 (0-6)</td>
<td>SEVERITY2</td>
<td>No</td>
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<tr>
<td>Disability in shopping (0-3)</td>
<td>SHOPPING</td>
<td>Yes</td>
</tr>
<tr>
<td>Speech/language impairment (0-5)</td>
<td>SPEECH</td>
<td>Yes</td>
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</tbody>
</table>
### Risk Factor Transformation Documentation

<table>
<thead>
<tr>
<th>Risk Factor Description</th>
<th>Data Item Name</th>
<th>Same as Case Mix Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stasis ulcer(s) present (0-1)</td>
<td>STASIS</td>
<td>Yes</td>
</tr>
<tr>
<td>Status of most problematic stasis ulcer (0-3)</td>
<td>STASISSTATUS</td>
<td>No</td>
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<tr>
<td>Number of stasis ulcers present (0-4)</td>
<td>STASISULCER</td>
<td>No</td>
</tr>
<tr>
<td>Surgical wound(s) present (0-1)</td>
<td>SURGICAL</td>
<td>Yes</td>
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<tr>
<td>Status of surgical wound (0-3)</td>
<td>SURGICALSTATUS</td>
<td>No</td>
</tr>
<tr>
<td>Number of surgical wounds present (0-4)</td>
<td>SURGICALWOUND</td>
<td>No</td>
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<tr>
<td>Disability in toileting (0-4)</td>
<td>TOILETING</td>
<td>Yes</td>
</tr>
<tr>
<td>Disability in transferring (0-5)</td>
<td>TRANSFERRING</td>
<td>Yes</td>
</tr>
<tr>
<td>Disability in transportation (0-2)</td>
<td>TRANSPORT</td>
<td>Yes</td>
</tr>
<tr>
<td>Stage 2-4 pressure ulcer(s) present (0-1)</td>
<td>ULC_1</td>
<td>Yes</td>
</tr>
<tr>
<td>Stage 3-4 pressure ulcer(s) present (0-1)</td>
<td>ULC_2</td>
<td>Yes</td>
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<tr>
<td>Disability in dressing upper body (0-3)</td>
<td>UPPERSIZE</td>
<td>Yes</td>
</tr>
<tr>
<td>Urinary tract infection (0-1)</td>
<td>UTI_OUT</td>
<td>No*</td>
</tr>
<tr>
<td>Vision impairment (0-2)</td>
<td>VISION</td>
<td>Yes</td>
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</tbody>
</table>

* This item is not used as an individual risk factor, but is used to compute AQUIGN.

* Indicates that these data items are very similar to and, indeed, based on the measure used for the Case Mix Profile.

### Data Transformation Pseudo-Code

**Anxiety Level**

```plaintext
IF M0580_WHEN_ANXIOUS = 00 THEN
    ANXIETYLEVEL = 0
ELSE IF M0580_WHEN_ANXIOUS = 01 THEN
    ANXIETYLEVEL = 1
ELSE IF M0580_WHEN_ANXIOUS = 02 THEN
    ANXIETYLEVEL = 2
ELSE IF M0580_WHEN_ANXIOUS = 03 THEN
    ANXIETYLEVEL = 3
ELSE IF M0580_WHEN_ANXIOUS = NA THEN
    ANXIETY = MISSING
ELSE
    ANXIETY = MISSING
          *[SHOULD NEVER OCCUR]*
```

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Diagnostic Groupings

The following range references apply for the ANYDIAG_1 through ANYDIAG_18 transformations.

<table>
<thead>
<tr>
<th>ICD-9 Codes</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-139</td>
<td>RANGE1</td>
</tr>
<tr>
<td>140-239</td>
<td>RANGE2</td>
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<tr>
<td>240-279</td>
<td>RANGE3</td>
</tr>
<tr>
<td>280-289</td>
<td>RANGE4</td>
</tr>
<tr>
<td>290-319</td>
<td>RANGE5</td>
</tr>
<tr>
<td>320-389</td>
<td>RANGE6</td>
</tr>
<tr>
<td>390-459</td>
<td>RANGE7</td>
</tr>
<tr>
<td>460-519</td>
<td>RANGE8</td>
</tr>
<tr>
<td>520-579</td>
<td>RANGE9</td>
</tr>
<tr>
<td>580-629</td>
<td>RANGE10</td>
</tr>
<tr>
<td>630-676</td>
<td>RANGE11</td>
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<tr>
<td>680-709</td>
<td>RANGE12</td>
</tr>
<tr>
<td>710-739</td>
<td>RANGE13</td>
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<tr>
<td>740-759</td>
<td>RANGE14</td>
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<tr>
<td>780-799</td>
<td>RANGE15</td>
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<tr>
<td>800-848</td>
<td>RANGE16</td>
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<tr>
<td>850-854</td>
<td>RANGE17</td>
</tr>
<tr>
<td>860-959</td>
<td>RANGE18</td>
</tr>
</tbody>
</table>

IF M0190_14_DAY_INP1_ICD IS IN RANGE1 OR M0190_14_DAY_INP2_ICD IS IN RANGE1 OR M0210_CHGREG_ICD1 IS IN RANGE1 OR M0210_CHGREG_ICD2 IS IN RANGE1 OR M0210_CHGREG_ICD3 IS IN RANGE1 OR M0210_CHGREG_ICD4 IS IN RANGE1 OR M0230_PRIMARY_DIAG_ICD IS IN RANGE1 OR M0240_OTH_DIAG1_ICD IS IN RANGE1 OR M0240_OTH_DIAG2_ICD IS IN RANGE1 OR M0240_OTH_DIAG3_ICD IS IN RANGE1 OR M0240_OTH_DIAG4_ICD IS IN RANGE1 OR M0240_OTH_DIAG5_ICD IS IN RANGE1 THEN ANYDIAG_1 = 1 ELSE ANYDIAG_1 = 0

IF M0190_14_DAY_INP1_ICD IS IN RANGE2 OR M0190_14_DAY_INP2_ICD IS IN RANGE2 OR M0210_CHGREG_ICD1 IS IN RANGE2 OR M0210_CHGREG_ICD2 IS IN RANGE2 OR M0210_CHGREG_ICD3 IS IN RANGE2 OR M0210_CHGREG_ICD4 IS IN RANGE2 OR M0230_PRIMARY_DIAG_ICD IS IN RANGE2 OR M0240_OTH_DIAG1_ICD IS IN RANGE2 OR M0240_OTH_DIAG2_ICD IS IN RANGE2 OR M0240_OTH_DIAG3_ICD IS IN RANGE2 OR M0240_OTH_DIAG4_ICD IS IN RANGE2 OR M0240_OTH_DIAG5_ICD IS IN RANGE2 THEN ANYDIAG_2 = 1 ELSE ANYDIAG_2 = 0

IF M0190_14_DAY_INP1_ICD IS IN RANGE3 OR M0190_14_DAY_INP2_ICD IS IN RANGE3 OR M0210_CHGREG_ICD1 IS IN RANGE3 OR M0210_CHGREG_ICD2 IS IN RANGE3 OR M0210_CHGREG_ICD3 IS IN RANGE3 OR M0210_CHGREG_ICD4 IS IN RANGE3 OR M0230_PRIMARY_DIAG_ICD IS IN RANGE3 OR M0240_OTH_DIAG1_ICD IS IN RANGE3 OR M0240_OTH_DIAG2_ICD IS IN RANGE3 OR M0240_OTH_DIAG3_ICD IS IN RANGE3 OR M0240_OTH_DIAG4_ICD IS IN RANGE3 OR M0240_OTH_DIAG5_ICD IS IN RANGE3 THEN ANYDIAG_3 = 1 ELSE ANYDIAG_3 = 0
IF M0190_14_DAY_INP1_ICD IS IN RANGE4 OR M0190_14_DAY_INP2_ICD IS IN RANGE4 OR M0210_CHGREG_ICD1 IS IN RANGE4 OR M0210_CHGREG_ICD2 IS IN RANGE4 OR M0210_CHGREG_ICD3 IS IN RANGE4 OR M0210_CHGREG_ICD4 IS IN RANGE4 OR M0230_PRIMARY_DIAG_ICD IS IN RANGE4 OR M0240_OTH_DIAG1_ICD IS IN RANGE4 OR M0240_OTH_DIAG2_ICD IS IN RANGE4 OR M0240_OTH_DIAG3_ICD IS IN RANGE4 OR M0240_OTH_DIAG4_ICD IS IN RANGE4 OR M0240_OTH_DIAG5_ICD IS IN RANGE4
THEN
    ANYDIAG_4 = 1
ELSE
    ANYDIAG_4 = 0

IF M0190_14_DAY_INP1_ICD IS IN RANGE5 OR M0190_14_DAY_INP2_ICD IS IN RANGE5 OR M0210_CHGREG_ICD1 IS IN RANGE5 OR M0210_CHGREG_ICD2 IS IN RANGE5 OR M0210_CHGREG_ICD3 IS IN RANGE5 OR M0210_CHGREG_ICD4 IS IN RANGE5 OR M0230_PRIMARY_DIAG_ICD IS IN RANGE5 OR M0240_OTH_DIAG1_ICD IS IN RANGE5 OR M0240_OTH_DIAG2_ICD IS IN RANGE5 OR M0240_OTH_DIAG3_ICD IS IN RANGE5 OR M0240_OTH_DIAG4_ICD IS IN RANGE5 OR M0240_OTH_DIAG5_ICD IS IN RANGE5
THEN
    ANYDIAG_5 = 1
ELSE
    ANYDIAG_5 = 0

IF M0190_14_DAY_INP1_ICD IS IN RANGE6 OR M0190_14_DAY_INP2_ICD IS IN RANGE6 OR M0210_CHGREG_ICD1 IS IN RANGE6 OR M0210_CHGREG_ICD2 IS IN RANGE6 OR M0210_CHGREG_ICD3 IS IN RANGE6 OR M0210_CHGREG_ICD4 IS IN RANGE6 OR M0230_PRIMARY_DIAG_ICD IS IN RANGE6 OR M0240_OTH_DIAG1_ICD IS IN RANGE6 OR M0240_OTH_DIAG2_ICD IS IN RANGE6 OR M0240_OTH_DIAG3_ICD IS IN RANGE6 OR M0240_OTH_DIAG4_ICD IS IN RANGE6 OR M0240_OTH_DIAG5_ICD IS IN RANGE6
THEN
    ANYDIAG_6 = 1
ELSE
    ANYDIAG_6 = 0

IF M0190_14_DAY_INP1_ICD IS IN RANGE7 OR M0190_14_DAY_INP2_ICD IS IN RANGE7 OR M0210_CHGREG_ICD1 IS IN RANGE7 OR M0210_CHGREG_ICD2 IS IN RANGE7 OR M0210_CHGREG_ICD3 IS IN RANGE7 OR M0210_CHGREG_ICD4 IS IN RANGE7 OR M0230_PRIMARY_DIAG_ICD IS IN RANGE7 OR M0240_OTH_DIAG1_ICD IS IN RANGE7 OR M0240_OTH_DIAG2_ICD IS IN RANGE7 OR M0240_OTH_DIAG3_ICD IS IN RANGE7 OR M0240_OTH_DIAG4_ICD IS IN RANGE7 OR M0240_OTH_DIAG5_ICD IS IN RANGE7
THEN
    ANYDIAG_7 = 1
ELSE
    ANYDIAG_7 = 0

IF M0190_14_DAY_INP1_ICD IS IN RANGE8 OR M0190_14_DAY_INP2_ICD IS IN RANGE8 OR M0210_CHGREG_ICD1 IS IN RANGE8 OR M0210_CHGREG_ICD2 IS IN RANGE8 OR M0210_CHGREG_ICD3 IS IN RANGE8 OR M0210_CHGREG_ICD4 IS IN RANGE8 OR M0230_PRIMARY_DIAG_ICD IS IN RANGE8 OR M0240_OTH_DIAG1_ICD IS IN RANGE8 OR M0240_OTH_DIAG2_ICD IS IN RANGE8 OR M0240_OTH_DIAG3_ICD IS IN RANGE8 OR M0240_OTH_DIAG4_ICD IS IN RANGE8 OR M0240_OTH_DIAG5_ICD IS IN RANGE8
THEN
    ANYDIAG_8 = 1
ELSE
    ANYDIAG_8 = 0

IF M0190_14_DAY_INP1_ICD IS IN RANGE9 OR M0190_14_DAY_INP2_ICD IS IN RANGE9 OR
    M0210_CHGREG_ICD1 IS IN RANGE9 OR M0210_CHGREG_ICD2 IS IN RANGE9 OR
    M0210_CHGREG_ICD3 IS IN RANGE9 OR M0210_CHGREG_ICD4 IS IN RANGE9 OR
    M0230_PRIMARY_DIAG_ICD IS IN RANGE9 OR M0240_OTH_DIAG1_ICD IS IN RANGE9 OR
    M0240_OTH_DIAG2_ICD IS IN RANGE9 OR M0240_OTH_DIAG3_ICD IS IN RANGE9 OR
    M0240_OTH_DIAG4_ICD IS IN RANGE9 OR M0240_OTH_DIAG5_ICD IS IN RANGE9
    THEN
    ANYDIAG_9 = 1
ELSE
    ANYDIAG_9 = 0

IF M0190_14_DAY_INP1_ICD IS IN RANGE10 OR M0190_14_DAY_INP2_ICD IS IN RANGE10 OR
    M0210_CHGREG_ICD1 IS IN RANGE10 OR M0210_CHGREG_ICD2 IS IN RANGE10 OR
    M0210_CHGREG_ICD3 IS IN RANGE10 OR M0210_CHGREG_ICD4 IS IN RANGE10 OR
    M0230_PRIMARY_DIAG_ICD IS IN RANGE10 OR M0240_OTH_DIAG1_ICD IS IN RANGE10 OR
    M0240_OTH_DIAG2_ICD IS IN RANGE10 OR M0240_OTH_DIAG3_ICD IS IN RANGE10 OR
    M0240_OTH_DIAG4_ICD IS IN RANGE10 OR M0240_OTH_DIAG5_ICD IS IN RANGE10
    THEN
    ANYDIAG_10 = 1
ELSE
    ANYDIAG_10 = 0

IF M0190_14_DAY_INP1_ICD IS IN RANGE11 OR M0190_14_DAY_INP2_ICD IS IN RANGE11 OR
    M0210_CHGREG_ICD1 IS IN RANGE11 OR M0210_CHGREG_ICD2 IS IN RANGE11 OR
    M0210_CHGREG_ICD3 IS IN RANGE11 OR M0210_CHGREG_ICD4 IS IN RANGE11 OR
    M0230_PRIMARY_DIAG_ICD IS IN RANGE11 OR M0240_OTH_DIAG1_ICD IS IN RANGE11 OR
    M0240_OTH_DIAG2_ICD IS IN RANGE11 OR M0240_OTH_DIAG3_ICD IS IN RANGE11 OR
    M0240_OTH_DIAG4_ICD IS IN RANGE11 OR M0240_OTH_DIAG5_ICD IS IN RANGE11
    THEN
    ANYDIAG_11 = 1
ELSE
    ANYDIAG_11 = 0

IF M0190_14_DAY_INP1_ICD IS IN RANGE12 OR M0190_14_DAY_INP2_ICD IS IN RANGE12 OR
    M0210_CHGREG_ICD1 IS IN RANGE12 OR M0210_CHGREG_ICD2 IS IN RANGE12 OR
    M0210_CHGREG_ICD3 IS IN RANGE12 OR M0210_CHGREG_ICD4 IS IN RANGE12 OR
    M0230_PRIMARY_DIAG_ICD IS IN RANGE12 OR M0240_OTH_DIAG1_ICD IS IN RANGE12 OR
    M0240_OTH_DIAG2_ICD IS IN RANGE12 OR M0240_OTH_DIAG3_ICD IS IN RANGE12 OR
    M0240_OTH_DIAG4_ICD IS IN RANGE12 OR M0240_OTH_DIAG5_ICD IS IN RANGE12
    THEN
    ANYDIAG_12 = 1
ELSE
    ANYDIAG_12 = 0

IF M0190_14_DAY_INP1_ICD IS IN RANGE13 OR M0190_14_DAY_INP2_ICD IS IN RANGE13 OR
    M0210_CHGREG_ICD1 IS IN RANGE13 OR M0210_CHGREG_ICD2 IS IN RANGE13 OR
    M0210_CHGREG_ICD3 IS IN RANGE13 OR M0210_CHGREG_ICD4 IS IN RANGE13 OR
    M0230_PRIMARY_DIAG_ICD IS IN RANGE13 OR M0240_OTH_DIAG1_ICD IS IN RANGE13 OR
    M0240_OTH_DIAG2_ICD IS IN RANGE13 OR M0240_OTH_DIAG3_ICD IS IN RANGE13 OR
    M0240_OTH_DIAG4_ICD IS IN RANGE13 OR M0240_OTH_DIAG5_ICD IS IN RANGE13
THEN
ANYDIAG_13 = 1
ELSE
ANYDIAG_13 = 0

IF M0190_14_DAY_INP1_ICD IS IN RANGE14 OR M0190_14_DAY_INP2_ICD IS IN RANGE14 OR M0210_CHGREG_ICD1 IS IN RANGE14 OR M0210_CHGREG_ICD2 IS IN RANGE14 OR M0210_CHGREG_ICD3 IS IN RANGE14 OR M0210_CHGREG_ICD4 IS IN RANGE14 OR M0230_PRIMARY_DIAG_ICD IS IN RANGE14 OR M0240_OTH_DIAG1_ICD IS IN RANGE14 OR M0240_OTH_DIAG2_ICD IS IN RANGE14 OR M0240_OTH_DIAG3_ICD IS IN RANGE14 OR M0240_OTH_DIAG4_ICD IS IN RANGE14 OR M0240_OTH_DIAG5_ICD IS IN RANGE14
THEN
ANYDIAG_14 = 1
ELSE
ANYDIAG_14 = 0

IF M0190_14_DAY_INP1_ICD IS IN RANGE15 OR M0190_14_DAY_INP2_ICD IS IN RANGE15 OR M0210_CHGREG_ICD1 IS IN RANGE15 OR M0210_CHGREG_ICD2 IS IN RANGE15 OR M0210_CHGREG_ICD3 IS IN RANGE15 OR M0210_CHGREG_ICD4 IS IN RANGE15 OR M0230_PRIMARY_DIAG_ICD IS IN RANGE15 OR M0240_OTH_DIAG1_ICD IS IN RANGE15 OR M0240_OTH_DIAG2_ICD IS IN RANGE15 OR M0240_OTH_DIAG3_ICD IS IN RANGE15 OR M0240_OTH_DIAG4_ICD IS IN RANGE15 OR M0240_OTH_DIAG5_ICD IS IN RANGE15
THEN
ANYDIAG_15 = 1
ELSE
ANYDIAG_15 = 0

IF M0190_14_DAY_INP1_ICD IS IN RANGE16 OR M0190_14_DAY_INP2_ICD IS IN RANGE16 OR M0210_CHGREG_ICD1 IS IN RANGE16 OR M0210_CHGREG_ICD2 IS IN RANGE16 OR M0210_CHGREG_ICD3 IS IN RANGE16 OR M0210_CHGREG_ICD4 IS IN RANGE16 OR M0230_PRIMARY_DIAG_ICD IS IN RANGE16 OR M0240_OTH_DIAG1_ICD IS IN RANGE16 OR M0240_OTH_DIAG2_ICD IS IN RANGE16 OR M0240_OTH_DIAG3_ICD IS IN RANGE16 OR M0240_OTH_DIAG4_ICD IS IN RANGE16 OR M0240_OTH_DIAG5_ICD IS IN RANGE16
THEN
ANYDIAG_16 = 1
ELSE
ANYDIAG_16 = 0

IF M0190_14_DAY_INP1_ICD IS IN RANGE17 OR M0190_14_DAY_INP2_ICD IS IN RANGE17 OR M0210_CHGREG_ICD1 IS IN RANGE17 OR M0210_CHGREG_ICD2 IS IN RANGE17 OR M0210_CHGREG_ICD3 IS IN RANGE17 OR M0210_CHGREG_ICD4 IS IN RANGE17 OR M0230_PRIMARY_DIAG_ICD IS IN RANGE17 OR M0240_OTH_DIAG1_ICD IS IN RANGE17 OR M0240_OTH_DIAG2_ICD IS IN RANGE17 OR M0240_OTH_DIAG3_ICD IS IN RANGE17 OR M0240_OTH_DIAG4_ICD IS IN RANGE17 OR M0240_OTH_DIAG5_ICD IS IN RANGE17
THEN
ANYDIAG_17 = 1
ELSE
ANYDIAG_17 = 0
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IF M0190_14_DAY_INP1_ICD IS IN RANGE18 OR M0190_14_DAY_INP2_ICD IS IN RANGE18 OR M0210_CHGREG_ICD1 IS IN RANGE18 OR M0210_CHGREG_ICD2 IS IN RANGE18 OR M0210_CHGREG_ICD3 IS IN RANGE18 OR M0210_CHGREG_ICD4 IS IN RANGE18 OR M0230_PRIMARY_DIAG_ICD IS IN RANGE18 OR M0240_OTH_DIAG1_ICD IS IN RANGE18 OR M0240_OTH_DIAG2_ICD IS IN RANGE18 OR M0240_OTH_DIAG3_ICD IS IN RANGE18 OR M0240_OTH_DIAG4_ICD IS IN RANGE18 OR M0240_OTH_DIAG5_ICD IS IN RANGE18 THEN
ANYDIAG_18 = 1
ELSE
ANYDIAG_18 = 0

NOTE: For diagnoses, INVALID means that the format of the diagnosis code does not meet the following criteria:
- Character 1 must be a space.
- Character 2 must be a 0 (zero) thru 9.
- Characters 3 thru 4 must be 0 (zero) thru 9.
- Character 5 must be a decimal point.
- Characters 6 and 7 must be 0 (zero) thru 9 or space.
- If character 6 is a space, then character 7 must be a space.

IF (M0230_PRIMARY_DIAG_ICD = BLANK, INVALID) OR (M0240_OTH_DIAG1_ICD = INVALID) OR (M0240_OTH_DIAG2_ICD = INVALID) OR (M0240_OTH_DIAG3_ICD = INVALID) OR (M0240_OTH_DIAG4_ICD = INVALID) OR (M0240_OTH_DIAG5_ICD = INVALID) THEN
ANYDIAG_1 = MISSING
ANYDIAG_2 = MISSING
ANYDIAG_3 = MISSING
ANYDIAG_4 = MISSING
ANYDIAG_5 = MISSING
ANYDIAG_6 = MISSING
ANYDIAG_7 = MISSING
ANYDIAG_8 = MISSING
ANYDIAG_9 = MISSING
ANYDIAG_10 = MISSING
ANYDIAG_11 = MISSING
ANYDIAG_12 = MISSING
ANYDIAG_13 = MISSING
ANYDIAG_14 = MISSING
ANYDIAG_15 = MISSING
ANYDIAG_16 = MISSING
ANYDIAG_17 = MISSING
ANYDIAG_18 = MISSING

[SHOULD NEVER OCCUR]

IF M0350_AP_NONE = 1 THEN
ANYPRIMARY = 0
ELSE IF M0360_PRIMARY_CAREGIVER = 00 THEN
ANYPRIMARY = 0
ELSE IF M0360_PRIMARY_CAREGIVER = 01, 02, 03, 04, 05 THEN
ANYPRIMARY = 1

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ELSE IF M0360_PRIMARY_CAREGIVER = UK
THEN
   ANYPRIMARY = MISSING
ELSE IF M0350_APUNKNOWN = 1
THEN
   ANYPRIMARY = MISSING
ELSE
   ANYPRIMARY = MISSING 'SHOULD NEVER OCCUR' [SHOULD NEVER OCCUR]

Acute Condition: Other (ACUTE_16)

The following references apply for the ACUTE_16 transformation.

<table>
<thead>
<tr>
<th>Data Item</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>M0170_DC_HOSP_14_DAYS OR M0175_DC_HOSP_14_DAYS</td>
<td>DISCHARGE1</td>
</tr>
<tr>
<td>M0170_DC_REHAB_14_DAYS OR M0175_DC_REHAB_14_DAYS</td>
<td>DISCHARGE2</td>
</tr>
<tr>
<td>M0170_DC_NURS_HOME_14_DAYS OR M0175_DC_SNF_14_DAYS OR M0175_DC_NH_14_DAYS</td>
<td>DISCHARGE3</td>
</tr>
<tr>
<td>M0190_14_DAY_INP1_ICD</td>
<td>DISICD1</td>
</tr>
<tr>
<td>M0190_14_DAY_INP2_ICD</td>
<td>DISICD2</td>
</tr>
<tr>
<td>M0200_REG_CHG_14_DAYS</td>
<td>REGIMEN</td>
</tr>
<tr>
<td>M0210_CHGREG_ICD1</td>
<td>REGICD1</td>
</tr>
<tr>
<td>M0210_CHGREG_ICD2</td>
<td>REGICD2</td>
</tr>
<tr>
<td>M0210_CHGREG_ICD3</td>
<td>REGICD3</td>
</tr>
<tr>
<td>M0210_CHGREG_ICD4</td>
<td>REGICD4</td>
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<table>
<thead>
<tr>
<th>ICD-9 Codes</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>170-171, 213, 274, 710-739, 781, 800-848, 885-887, 895-897, 905, 927-928</td>
<td>GROUP1</td>
</tr>
<tr>
<td>707, 870-884, 890-894, 940-949</td>
<td>GROUP3</td>
</tr>
<tr>
<td>391, 393-398, 401-405, 410-417, 420-429, 440-448, 451-455, 456-459, 785</td>
<td>GROUP4</td>
</tr>
<tr>
<td>290-319, 797</td>
<td>GROUP8</td>
</tr>
<tr>
<td>250</td>
<td>GROUP9</td>
</tr>
</tbody>
</table>
NOTE: For diagnoses, INVALID means that the format of the diagnosis code does not meet the following criteria:
- Character 1 must be a space.
- Character 2 must be a 0 (zero) thru 9.
- Characters 3 thru 4 must be 0 (zero) thru 9.
- Character 5 must be a decimal point.
- Characters 6 and 7 must be 0 (zero) thru 9 or space.
- If character 6 is a space, then character 7 must be a space.

IF (DISCHARGE1 NOT = 0,1 OR DISCHARGE2 NOT = 0,1 OR DISCHARGE3 NOT = 0,1) OR
((DISCHARGE1 = 1 OR DISCHARGE2 = 1 OR DISCHARGE3 =1) AND
DISICD1 = BLANK, INVALID AND DISICD2 = BLANK, INVALID) OR
(REGIMEN NOT = 0,1 OR (REGIMEN = 1 AND
REGICD1 = BLANK, INVALID AND REGICD2 = BLANK, INVALID AND
REGICD3 = BLANK, INVALID AND REGICD4 = BLANK, INVALID))
THEN
ACUTE_16 = MISSING
[SHOULD NEVER OCCUR]
ELSE
IF ((DISCID1 NOT IN GROUP1, GROUP2, GROUP3, GROUP4, GROUP5, GROUP6, GROUP7, GROUP8, GROUP9 AND
DISICD2 NOT IN GROUP1, GROUP2, GROUP3, GROUP4, GROUP5, GROUP6, GROUP7, GROUP8, GROUP9)) OR
((REGIMEN = 1) AND
REGICD1 NOT IN GROUP1, GROUP2, GROUP3, GROUP4, GROUP5, GROUP6, GROUP7, GROUP8, GROUP9 AND
REGICD2 NOT IN GROUP1, GROUP2, GROUP3, GROUP4, GROUP5, GROUP6, GROUP7, GROUP8, GROUP9 AND
REGICD3 NOT IN GROUP1, GROUP2, GROUP3, GROUP4, GROUP5, GROUP6, GROUP7, GROUP8, GROUP9 AND
REGICD4 NOT IN GROUP1, GROUP2, GROUP3, GROUP4, GROUP5, GROUP6, GROUP7, GROUP8, GROUP9))
THEN
ACUTE_16 = 1
ELSE
ACUTE_16 = 0

IF ACUTE_1 = 0, 1 AND ACUTE_2 = 0, 1 AND ACUTE_3 = 0, 1 AND
ACUTE_4 = 0, 1 AND ACUTE_5 = 0, 1 AND ACUTE_6 = 0, 1 AND ACUTE_7 = 0, 1 AND
ACUTE_8 = 0, 1 AND ACUTE_9 = 0, 1 AND ACUTE_10 = 0, 1 AND ACUTE_11 = 0, 1 AND
ACUTE_12 = 0, 1 AND ACUTE_13 = 0, 1 AND ACUTE_14 = 0, 1 AND ACUTE_15 = 0, 1
AND ACUTE_16 = 0, 1
THEN
AQUIGN = ACUTE_1 + ACUTE_2 + ACUTE_3 + ACUTE_4 + ACUTE_5 + ACUTE_6 +
ACUTE_7 + ACUTE_8 + ACUTE_9 + ACUTE_10 + ACUTE_11 + ACUTE_12 +
ACUTE_13 + ACUTE_14 + ACUTE_15 + ACUTE_16
ELSE
AQUIGN = MISSING
[SHOULD NEVER OCCUR]
Demonstrated Behavior

IF ((M0610_BD_MEM_DEFICIT = 0 AND M0610_BD_IMP_DECISN = 0 AND M0610_BD_VERBAL = 0 AND M0610_BD_PHYSICAL = 0 AND M0610_BD_SOC_INAPPRO = 0 AND M0610_BD_DELUSIONS = 0 AND M0610_BD_NONE = 0) OR (M0610_BD_NONE = 1 AND (M0610_BD_MEM_DEFICIT = 1 OR M0610_BD_IMP_DECISN = 1 OR M0610_BD_VERBAL = 1 OR M0610_BD_SOC_INAPPRO = 1 OR M0610_BD_DELUSIONS = 1))) OR M0610_BD_MEM_DEFICIT NOT = 0, 1 OR M0610_BD_IMP_DECISN NOT = 0, 1 OR M0610_BD_VERBAL NOT = 0, 1 OR M0610_BD_SOC_INAPPRO NOT = 0, 1

THEN
BEHAVE_1 = MISSING
BEHAVE_2 = MISSING
BEHAVE_3 = MISSING
BEHAVE_4 = MISSING

ELSE

IF M0610_BD_MEM_DEFICIT = 1
THEN
BEHAVE_1 = 1
ELSE IF M0610_BD_MEM_DEFICIT = 0
THEN
BEHAVE_1 = 0

IF M0610_BD_IMP_DECISN = 1
THEN
BEHAVE_2 = 1
ELSE IF M0610_BD_IMP_DECISN = 0
THEN
BEHAVE_2 = 0

IF M0610_BD_VERBAL = 1
THEN
BEHAVE_3 = 1
ELSE IF M0610_BD_VERBAL = 0
THEN
BEHAVE_3 = 0

IF M0610_BD_SOC_INAPPRO = 1
THEN
BEHAVE_4 = 1
ELSE IF M0610_BD_SOC_INAPPRO = 0
THEN
BEHAVE_4 = 0

Bowel Incontinence Frequency

IF M0540_BWL_INCONT = 00,NA
THEN
BOWEL_OUT = 0
ELSE IF M0540_BWL_INCONT = 01
THEN
BOWEL_OUT = 1
ELSE IF M0540_BWL_INCONT = 02 THEN
  BOWEL_OUT = 2
ELSE IF M0540_BWL_INCONT = 03 THEN
  BOWEL_OUT = 3
ELSE IF M0540_BWL_INCONT = 04 THEN
  BOWEL_OUT = 4
ELSE IF M0540_BWL_INCONT = 05 THEN
  BOWEL_OUT = 5
ELSE IF M0540_BWL_INCONT = UK THEN
  BOWEL_OUT = MISSING
ELSE
  BOWEL_OUT = MISSING [SHOULD NEVER OCCUR]

ADL/IADL assistance provided by caregiver

IF (M0360_PRIMARY_CAREGIVER NOT = 00, UK) AND
  (M0350_AP_NONE NOT = 1 AND M0350_AP_UNKNOWN NOT = 1) AND
  (M0380_CA_ADL NOT = 0,1 OR M0380_CA_IADL NOT = 0,1) OR
((M0360_PRIMARY_CAREGIVER NOT = 00, UK) AND
  (M0350_AP_NONE NOT = 1 AND M0350_AP_UNKNOWN NOT = 1) AND
  (M0380_CA_ADL = 0 AND M0380_CA_IADL = 0 AND M0380_CA_ENVIRONMENT = 0 AND
  M0380_CA_PSYCHSOC = 0 AND M0380_CA_MEDICAL = 0 AND M0380_CA_FIN_LEGAL = 0
  AND M0380_CA_HLTH_CARE = 0 AND M0380_CA_UNKNOWN = 0) OR
((M0360_PRIMARY_CAREGIVER NOT = 00, UK) AND
  (M0350_AP_NONE NOT = 1 AND M0350_AP_UNKNOWN NOT = 1) AND
  (M0380_CA_ADL = 1 OR M0380_CA_IADL = 1 OR M0380_CA_ENVIRONMENT = 1 OR
  M0380_CA_PSYCHSOC = 1 OR M0380_CA_MEDICAL = 1 OR
  M0380_CA_FIN_LEGAL = 1 OR M0380_CA_HLTH_CARE = 1))) OR
((M0360_PRIMARY_CAREGIVER NOT = 00, UK) AND
  (M0350_AP_NONE = 1 OR M0350_AP_UNKNOWN = 1) AND
  (M0380_CA_ADL = 0,1 OR M0380_CA_IADL = 0,1 OR
  M0380_CA_ENVIRONMENT = 0,1 OR M0380_CA_PSYCHSOC = 0,1 OR
  M0380_CA_MEDICAL = 0,1 OR M0380_CA_FIN_LEGAL = 0,1 OR
  M0380_CA_HLTH_CARE = 0,1 OR M0380_CA_UNKNOWN = 0,1)) THEN
  CAREGIVER_1 = MISSING
  CAREGIVER_2 = MISSING [SHOULD NEVER OCCUR]
ELSE IF M0380_CA_UNKNOWN = 1 OR M0350_AP_UNKNOWN = 1 OR
  M0360_PRIMARY_CAREGIVER = UK THEN
  CAREGIVER_1 = MISSING
  CAREGIVER_2 = MISSING
ELSE
  IF M0380_CA_ADL = 1 THEN
    CAREGIVER_1 = 1
ELSE IF M0380_CA_ADL = 0 OR (M0360_PRIMARY_CAREGIVER = 00 OR M0350_AP_NONE = 1) THEN
  CAREGIVER_1 = 0
IF M0380_CA_IADL = 1 THEN
  CAREGIVER_2 = 1
ELSE IF M0380_CA_IADL = 0 OR (M0360_PRIMARY_CAREGIVER = 00 OR M0350_AP_NONE = 1) THEN
  CAREGIVER_2 = 0

Disability in Cognitive Functioning

IF M0560_COG_FUNCTION = 00 THEN
  COGNITIVEFUNC = 0
ELSE IF M0560_COG_FUNCTION = 01 THEN
  COGNITIVEFUNC = 1
ELSE IF M0560_COG_FUNCTION = 02 THEN
  COGNITIVEFUNC = 2
ELSE IF M0560_COG_FUNCTION = 03 THEN
  COGNITIVEFUNC = 3
ELSE IF M0560_COG_FUNCTION = 04 THEN
  COGNITIVEFUNC = 4
ELSE COGNITIVEFUNC = MISSING 'SHOULD NEVER OCCUR'

Confusion Scale

IF M0570_WHEN_CONFUSED = 00 THEN
  CONFUSIONFREQ = 0
ELSE IF M0570_WHEN_CONFUSED = 01 THEN
  CONFUSIONFREQ = 1
ELSE IF M0570_WHEN_CONFUSED = 02 THEN
  CONFUSIONFREQ = 2
ELSE IF M0570_WHEN_CONFUSED = 03 THEN
  CONFUSIONFREQ = 3
ELSE IF M0570_WHEN_CONFUSED = 04, NA THEN
  CONFUSIONFREQ = 4
ELSE
  CONFUSIONFREQ = MISSING 'SHOULD NEVER OCCUR'
Total Number of Chronic Conditions Reported

IF CHRONIC_1 = 0, 1 AND CHRONIC_2 = 0, 1 AND CHRONIC_3 = 0, 1 AND CHRONIC_4 = 0, 1 AND
CHRONIC_5 = 0, 1 AND CHRONIC_6 = 0, 1 AND CHRONIC_7 = 0, 1 AND CHRONIC_8 = 0, 1
THEN
CQUIGN = CHRONIC_1 + CHRONIC_2 + CHRONIC_3 + CHRONIC_4 + CHRONIC_5 +
CHRONIC_6 + CHRONIC_7 + CHRONIC_8
ELSE
CQUIGN = MISSING [SHOULD NEVER OCCUR]

Depression Scale

IF M0590_DP_MOOD NOT = 0, 1 OR M0590_DP_SENSE_FAILURE NOT = 0, 1 OR
M0590_DP HOPELESSNESS NOT = 0, 1 OR M0590_DP_DEATH NOT = 0, 1 OR
M0590_DP_SUICIDE NOT = 0, 1 OR (M0590_DP_MOOD = 0 AND
M0590_DP_SENSE_FAILURE = 0 AND M0590_DP HOPELESSNESS = 0 AND
M0590_DP_DEATH = 0 AND M0590_DP_SUICIDE = 0 AND M0590_DP_NONE = 0) OR
((M0590_DP_NONE = 1 AND (M0590_DP_MOOD = 1 OR M0590_DP_SENSE_FAILURE = 1 OR
M0590_DP HOPELESSNESS = 1 OR M0590_DP DEATH = 1 OR M0590_DP_SUICIDE = 1)))
THEN
DEPRESSION = MISSING [SHOULD NEVER OCCUR]
ELSE
DEPRESSION = M0590_DP_MOOD + M0590_DP_SENSE_FAILURE +
M0590_DP HOPELESSNESS + M0590_DP_DEATH + M0590_DP_SUICIDE

Urinary Incontinence Severity 1

IF M0520_UR_INCONT = 00
THEN
INCONTBASE = 0
ELSE IF M0530_UR_INCONT_OCCURS = 00
THEN
INCONTBASE = 1
ELSE IF M0530_UR_INCONT_OCCURS = 01
THEN
INCONTBASE = 2
ELSE IF M0530_UR_INCONT_OCCURS = 02
THEN
INCONTBASE = 3
ELSE IF M0520_UR_INCONT = 02
THEN
INCONTBASE = 4
ELSE
INCONTBASE = MISSING [SHOULD NOT OCCUR]
**RISK FACTOR TRANSFORMATION DOCUMENTATION**

**Presence of Urinary Incontinence**

IF M0520_UR_INCONT = 00, 02
THEN
  INCONTCATH = 0
ELSE IF M0520_UR_INCONT = 01
THEN
  INCONTCATH = 1
ELSE
  INCONTCATH = MISSING  
* [SHOULD NEVER OCCUR]*

**Urinary Incontinence Severity 2**

IF M0520_UR_INCONT = 00
THEN
  INCONTSEV = 0
ELSE IF M0520_UR_INCONT = 02
THEN
  INCONTSEV = 1
ELSE IF M0530_UR_INCONT_OCCURS = 00
THEN
  INCONTSEV = 2
ELSE IF M0530_UR_INCONT_OCCURS = 01
THEN
  INCONTSEV = 3
ELSE IF M0530_UR_INCONT_OCCURS = 02
THEN
  INCONTSEV = 4
ELSE
  INCONTSEV = MISSING  
* [SHOULD NOT OCCUR]*

**Length of Stay: More than 31 days**

IF LOSDAYS > 31
THEN
  LOSGT31 = 1
ELSE
  LOSGT31 = 0

**Length of Stay: More than 62 days**

IF LOSDAYS > 62
THEN
  LOSGT62 = 1
ELSE
  LOSGT62 = 0
Maximum Severity Rating among All Diagnoses

IF M0230_PRIMARY_DIAG_SEVERITY = 00 THEN
  INTSEV0 = 0
ELSE IF M0230_PRIMARY_DIAG_SEVERITY = 01 THEN
  INTSEV0 = 1
ELSE IF M0230_PRIMARY_DIAG_SEVERITY = 02 THEN
  INTSEV0 = 2
ELSE IF M0230_PRIMARY_DIAG_SEVERITY = 03 THEN
  INTSEV0 = 3
ELSE IF M0230_PRIMARY_DIAG_SEVERITY = 04 THEN
  INTSEV0 = 4
ELSE INTSEV0 = MISSING  

[SHOULD NEVER OCCUR]

IF M0240_OTH_DIAG_ICD1 NOT = BLANK, INVALID THEN
  IF M0240_OTH_DIAG1_SEVERITY = 00 THEN
    INTSEV1 = 0
  ELSE IF M0240_OTH_DIAG1_SEVERITY = 01 THEN
    INTSEV1 = 1
  ELSE IF M0240_OTH_DIAG1_SEVERITY = 02 THEN
    INTSEV1 = 2
  ELSE IF M0240_OTH_DIAG1_SEVERITY = 03 THEN
    INTSEV1 = 3
  ELSE IF M0240_OTH_DIAG1_SEVERITY = 04 THEN
    INTSEV1 = 4
  ELSE
    INTSEV1 = MISSING  

[SHOULD NEVER OCCUR]

IF M0240_OTH_DIAG_ICD2 NOT = BLANK, INVALID THEN
  IF M0240_OTH_DIAG2_SEVERITY = 00 THEN
    INTSEV2 = 0
  ELSE IF M0240_OTH_DIAG2_SEVERITY = 01 THEN
    INTSEV2 = 1
  ELSE IF M0240_OTH_DIAG2_SEVERITY = 02 THEN
    INTSEV2 = 2
  ELSE IF M0240_OTH_DIAG2_SEVERITY = 03 THEN
    INTSEV2 = 3
ELSE IF M0240_OTH_DIAG2_SEVERITY = 04
THEN
  INTSEV2 = 4
ELSE
  INTSEV2 = MISSING
  *[SHOULD NEVER OCCUR]*

IF M0240_OTH_DIAG_ICD3 NOT = BLANK, INVALID
THEN
  IF M0240_OTH_DIAG3_SEVERITY = 00
  THEN
    INTSEV3 = 0
  ELSE IF M0240_OTH_DIAG3_SEVERITY = 01
  THEN
    INTSEV3 = 1
  ELSE IF M0240_OTH_DIAG3_SEVERITY = 02
  THEN
    INTSEV3 = 2
  ELSE IF M0240_OTH_DIAG3_SEVERITY = 03
  THEN
    INTSEV3 = 3
  ELSE IF M0240_OTH_DIAG3_SEVERITY = 04
  THEN
    INTSEV3 = 4
  ELSE
    INTSEV3 = MISSING
    *[SHOULD NEVER OCCUR]*

IF M0240_OTH_DIAG_ICD4 NOT = BLANK, INVALID
THEN
  IF M0240_OTH_DIAG4_SEVERITY = 00
  THEN
    INTSEV4 = 0
  ELSE IF M0240_OTH_DIAG4_SEVERITY = 01
  THEN
    INTSEV4 = 1
  ELSE IF M0240_OTH_DIAG4_SEVERITY = 02
  THEN
    INTSEV4 = 2
  ELSE IF M0240_OTH_DIAG4_SEVERITY = 03
  THEN
    INTSEV4 = 3
  ELSE IF M0240_OTH_DIAG4_SEVERITY = 04
  THEN
    INTSEV4 = 4
  ELSE
    INTSEV4 = MISSING
    *[SHOULD NEVER OCCUR]*

IF M0240_OTH_DIAG_ICD5 NOT = BLANK, INVALID
THEN
  IF M0240_OTH_DIAG5_SEVERITY = 00
  THEN
    INTSEV5 = 0
  ELSE IF M0240_OTH_DIAG5_SEVERITY = 01
  THEN
    INTSEV5 = 1
ELSE IF M0240_OTH_DIAG5_SEVERITY = 02
  THEN
    INTSEV5 = 2
ELSE IF M0240_OTH_DIAG5_SEVERITY = 03
  THEN
    INTSEV5 = 3
ELSE IF M0240_OTH_DIAG5_SEVERITY = 04
  THEN
    INTSEV5 = 4
ELSE
  INTSEV5 = MISSING

{SHOULD NEVER OCCUR}

MAXIMUMSEV = 0.
IF INTSEV0 > 0
  THEN
    MAXIMUMSEV = INTSEV0
IF INTSEV1 > MAXIMUMSEV
  THEN
    MAXIMUMSEV = INTSEV1
IF INTSEV2 > MAXIMUMSEV
  THEN
    MAXIMUMSEV = INTSEV2
IF INTSEV3 > MAXIMUMSEV
  THEN
    MAXIMUMSEV = INTSEV3
IF INTSEV4 > MAXIMUMSEV
  THEN
    MAXIMUMSEV = INTSEV4
IF INTSEV5 > MAXIMUMSEV
  THEN
    MAXIMUMSEV = INTSEV5

Patient has Unpaid Live-in Help

IF M0350_AP_HM_RESIDENT = 1 OR M0350_AP_REL_FRIEND = 1
  THEN
    NEWASSIST = 1
ELSE
  NEWASSIST = 0

Bowel Ostomy

IF M0540_BWL_INCONT = NA
  THEN
    OSTOMY = 1
ELSE IF M0540_BWL_INCONT = 00, 01, 02, 03, 04, 05
  THEN
    OSTOMY = 0
ELSE IF M0540_BWL_INCONT = UK
  THEN
    OSTOMY = MISSING
ELSE
  OSTOMY = MISSING

{SHOULD NEVER OCCUR}
Prior (2 weeks ago) Disability in....

IF M0640_PR_GROOMING = UK THEN  
   P_GROOMING_OUT = GROOMING  
ELSE  
   P_GROOMING_OUT = M0640_PR_GROOMING

IF M0650_PR_DRESS_UPPER = UK THEN  
   P_DRESS_UPPER_OUT = UPPERDRESS  
ELSE  
   P_DRESS_UPPER_OUT = M0650_PR_DRESS_UPPER

IF M0660_PR_DRESS_LOWER = UK THEN  
   P_DRESS_LOWER_OUT = LOWERDRESS  
ELSE  
   P_DRESS_LOWER = M0660_PR_DRESS_LOWER

IF M0670_PR_BATHING = UK THEN  
   P_BATHING_OUT = BATHING  
ELSE  
   P_BATHING_OUT = M0670_PR_BATHING

IF M0680_PR_TOILETING = UK THEN  
   P_TOILETING_OUT = TOILETING  
ELSE  
   P_TOILETING_OUT = M0680_PR_TOILETING

IF M0690_PR_TRANSFERRING = UK THEN  
   P_TRANSFERRING_OUT = TRANSFERRING  
ELSE  
   P_TRANSFERRING_OUT = M0690_PR_TRANSFERRING

IF M0700_PR_AMBULATION = UK THEN  
   P_AMBULATION_OUT = AMBULATION  
ELSE  
   P_AMBULATION_OUT = M0700_PR_AMBULATION

IF M0710_PR_FEEDING = UK THEN  
   P_EATING_OUT = EATING  
ELSE  
   P_EATING_OUT = M0710_PR_FEEDING

IF M0720_PR_PREP_LT_MEALS = UK THEN  
   P_MEALPREP_OUT = MEALPREP
ELSE
   P_MEALPREP_OUT = M0720_PR_PREP_LT_MEALS

IF M0730_PR_TRANSPORTION = UK
THEN
   P_TRANSPORT_OUT = TRANSPORT
ELSE
   P_TRANSPORT_OUT = M0730_PR_TRANSPORTION

IF M0740_PR_LAUNDRY = UK
THEN
   P_LAUNDRY_OUT = LAUNDRY
ELSE
   P_LAUNDRY_OUT = M0740_PR_LAUNDRY

IF M0750_PR_HOUSEKEEPING = UK
THEN
   P_HOUSEKEEPING_OUT = HOUSEKEEPING
ELSE
   P_HOUSEKEEPING_OUT = M0750_PR_HOUSEKEEPING

IF M0760_PR_SHOPPING = UK
THEN
   P_SHOPPING_OUT = SHOPPING
ELSE
   P_SHOPPING_OUT = M0760_PR_SHOPPING

IF M0770_PR_PHONE_USE = NA, UK
THEN
   P_PHONEUSE_OUT = PHONEUSE
ELSE
   P_PHONEUSE_OUT = M0770_PR_PHONE_USE

IF M0780_PR_ORAL_MEDS = NA, UK
THEN
   P_ORALMEDS_OUT = ORALMEDS
ELSE
   P_ORALMEDS_OUT = M0780_PR_ORAL_MEDS

Status of Most Problem Pressure Ulcer

IF M0440_LESION_OPEN_WND = 0 OR
   (M0440_LESION_OPEN_WND = 1 AND M0445_PRESS_ULCER = 0)
THEN
   PRESSURESTATUS = 0
   PRESSUREULCER = 0

IF M0445_PRESS_ULCER = 1 AND M0464_STAT_PRBLM_PRSULC NOT = 01, 02, 03, NA
THEN
   PRESSURESTATUS = MISSING
   [SHOULD NEVER OCCUR]
ELSE
   IF M0464_STAT_PRBLM_PRSULC = 01
THEN
  PRESSURESTATUS = 1
ELSE IF M0464_STAT_PRBLM_PRSULC = 02
  THEN
    PRESSURESTATUS = 2
ELSE IF M0464_STAT_PRBLM_PRSULC = 03
  THEN
    PRESSURESTATUS = 3
ELSE IF M0464_STAT_PRBLM_PRSULC = NA
  THEN
    PRESSURESTATUS = MISSING

Stage of Most Problem Pressure Ulcer

IF M0445_PRESS_ULCER = 1 AND M0460_STG_PRBLM_ULCER NOT = 01, 02, 03, 04, NA
  THEN
    PRESSUREULCER = MISSING  
      '[SHOULD NEVER OCCUR]
ELSE
  IF M0460_STG_PRBLM_ULCER = 01
    THEN
      PRESSUREULCER = 1
  ELSE IF M0460_STG_PRBLM_ULCER = 02
    THEN
      PRESSUREULCER = 2
  ELSE IF M0460_STG_PRBLM_ULCER = 03
    THEN
      PRESSUREULCER = 3
  ELSE IF M0460_STG_PRBLM_ULCER = 04
    THEN
      PRESSUREULCER = 4
  ELSE IF M0460_STG_PRBLM_ULCER = NA
    THEN
      PRESSUREULCER = MISSING

Prior (more than 2 weeks) Physical, Cognitive, or Behavioral Problems

IF (M0220_PRIOR_UR_INCON NOT = 0, 1 OR M0220_PRIOR_CATH NOT = 0, 1 OR
  M0220_PRIOR_INTRACT_PAIN NOT = 0, 1 OR M0220_PRIOR_IMPR_DECSN NOT = 0, 1 OR
  M0220_PRIOR_DISRUPTIVE NOT = 0, 1 OR M0220_PRIOR_MEM_LOSS NOT = 0, 1) OR
  ((DISCHARGE1 = 0 AND DISCHARGE2 = 0 AND DISCHARGE3 = 0 AND REGIMEN = 0) AND
   (M0175_DC_OTHER = 0 OR M0170_DC_OTHER = 0) AND (M0220_PRIOR_UNKNOWN = 1))
  THEN
    PRIOR_1 = MISSING
    PRIOR_2 = MISSING
    PRIOR_3 = MISSING
    PRIOR_4 = MISSING
    PRIOR_5 = MISSING
    PRIOR_6 = MISSING  
      '[SHOULD NEVER OCCUR]
ELSE IF M0220_PRIOR_UNKNOWN = 1

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THEN
PRIOR_1 = MISSING
PRIOR_2 = MISSING
PRIOR_3 = MISSING
PRIOR_4 = MISSING
PRIOR_5 = MISSING
PRIOR_6 = MISSING

ELSE
IF M0220_PRIOR_Urine_Incontinence = 1 OR (((M0170_NONE_14_DAYS = 1 OR
    M0175_NONE_14_DAYS = 1) AND M0200_REG_CHG_14_DAYS = 0) AND
    M0520.UR_INCONT = 01)
THEN
PRIOR_1 = 1
ELSE IF M0220_PRIOR_Urine_Incontinence = 0 OR (((M0170_NONE_14_DAYS = 1 OR
    M0175_NONE_14_DAYS = 1) AND M0200_REG_CHG_14_DAYS = 0) AND
    M0520.UR_INCONT = 00, 02))
THEN
PRIOR_1 = 0

IF M0220_PRIOR_Catheterization = 1 OR (((M0170_NONE_14_DAYS = 1 OR
    M0175_NONE_14_DAYS = 1) AND M0200_REG_CHG_14_DAYS = 0) AND
    M0520.UR_INCONT = 02)
THEN
PRIOR_2 = 1
ELSE IF M0220_PRIOR_Catheterization = 0 OR (((M0170_NONE_14_DAYS = 1 OR
    M0175_NONE_14_DAYS = 1) AND M0200_REG_CHG_14_DAYS = 0) AND
    M0520.UR_INCONT = 00, 01)
THEN
PRIOR_2 = 0

IF M0220_PRIOR_Intractable_Pain = 1 OR (((M0170_NONE_14_DAYS = 1 OR
    M0175_NONE_14_DAYS = 1) AND M0200_REG_CHG_14_DAYS = 0) AND
    M0430.INTRACT_PAIN = 1)
THEN
PRIOR_3 = 1
ELSE IF M0220_PRIOR_Intractable_Pain = 0 OR (((M0170_NONE_14_DAYS = 1 OR
    M0175_NONE_14_DAYS = 1) AND M0200_REG_CHG_14_DAYS = 0) AND
    M0430.INTRACT_PAIN = 0)
THEN
PRIOR_3 = 0

IF M0220_PRIOR_Impaired_Decisional = 1 OR (((M0170_NONE_14_DAYS = 1 OR
    M0175_NONE_14_DAYS = 1) AND M0200_REG_CHG_14_DAYS = 0) AND
    M0610.BD_IMP_DECISN = 1)
THEN
PRIOR_4 = 1
ELSE IF M0220_PRIOR_Impaired_Decisional = 0 OR (((M0170_NONE_14_DAYS = 1 OR
    M0175_NONE_14_DAYS = 1) AND M0200_REG_CHG_14_DAYS = 0) AND
    M0610.BD_IMP_DECISN = 0)
THEN
PRIOR_4 = 0
IF M0220_PRIOR_DISRUPTIVE = 1 OR (((M0170_NONE_14_DAYS = 1 OR M0175_NONE_14_DAYS = 1) AND M0200_REG_CHG_14_DAYS = 0) AND M0610_BD_SOC_INAPPRO = 1)
THEN
PRIOR_5 = 1
ELSE IF M0220_PRIOR_DISRUPTIVE = 0 OR (((M0170_NONE_14_DAYS = 1 OR M0175_NONE_14_DAYS = 1) AND M0200_REG_CHG_14_DAYS = 0) AND M0610_BD_SOC_INAPPRO = 0)
THEN
PRIOR_5 = 0

IF M0220_PRIOR_MEM_LOSS = 1 OR (((M0170_NONE_14_DAYS = 1 OR M0175_NONE_14_DAYS = 1) AND M0200_REG_CHG_14_DAYS = 0) AND M0610_BD_MEM_DEFICIT = 1)
THEN
PRIOR_6 = 1
ELSE IF M0220_PRIOR_MEM_LOSS = 0 OR (((M0170_NONE_14_DAYS = 1 OR M0175_NONE_14_DAYS = 1) AND M0200_REG_CHG_14_DAYS = 0) AND M0610_BD_MEM_DEFICIT = 0)
THEN
PRIOR_6 = 0

Behavior Problem Frequency

IF M0620_BEH_PROB_FREQ = 00
THEN
PROBFREQ = 0
ELSE IF M0620_BEH_PROB_FREQ = 01
THEN
PROBFREQ = 1
ELSE IF M0620_BEH_PROB_FREQ = 02
THEN
PROBFREQ = 2
ELSE IF M0620_BEH_PROB_FREQ = 03
THEN
PROBFREQ = 3
ELSE IF M0620_BEH_PROB_FREQ = 04
THEN
PROBFREQ = 4
ELSE IF M0620_BEH_PROB_FREQ = 05
THEN
PROBFREQ = 5
ELSE
PROBFREQ = MISSING

[SHOULD NEVER OCCUR]
Increased Risk Conditions Present

IF M0290_RISK_SMOKING NOT = 0, 1 OR M0290_RISK_OBESITY NOT = 0, 1 OR
M0290_RISK_ALCOHOLISM NOT = 0, 1 OR M0290_RISK_DRUGS NOT = 0, 1 OR
(M0290_RISK_SMOKING = 0 AND M0290_RISK_OBESITY = 0 AND
M0290_RISK_ALCOHOLISM = 0 AND M0290_RISK_DRUGS = 0 AND M0290_RISK_NONE = 0
AND M0290_RISK_UNKNOWN = 0) OR ((M0290_RISK_NONE = 1 OR
M0290_RISK_UNKNOWN = 1) AND (M0290_RISK_SMOKING = 1 OR
M0290_RISK_OBESITY = 1 OR M0290_RISK_ALCOHOLISM = 1 OR M0290_RISK_DRUGS = 1))
OR (M0290_RISK_NONE = 1 AND M0290_RISK_UNKNOWN = 1)

THEN

RISK_1 = MISSING
RISK_2 = MISSING
RISK_3 = MISSING
RISK_4 = MISSING

[SHOULD NEVER OCCUR]

ELSE

IF (M0290_RISK_UNKNOWN = 1)

THEN

RISK_1 = MISSING
RISK_2 = MISSING
RISK_3 = MISSING
RISK_4 = MISSING

ELSE

IF M0290_RISK_SMOKING = 1

THEN

RISK_1 = 1
ELSE IF M0290_RISK_SMOKING = 0

THEN

RISK_1 = 0

IF M0290_RISK_OBESITY = 1

THEN

RISK_2 = 1
ELSE IF M0290_RISK_OBESITY = 0

THEN

RISK_2 = 0

IF M0290_RISK_ALCOHOLISM = 1

THEN

RISK_3 = 1
ELSE IF M0290_RISK_ALCOHOLISM = 0

THEN

RISK_3 = 0

IF M0290_RISK_DRUGS = 1

THEN

RISK_4 = 1
ELSE IF M0290_RISK_DRUGS = 0

THEN

RISK_4 = 0
Intervening Inpatient Care

IF M0100_ASSMT_REASON = 01, 02
THEN
    ROCIND = 0
ELSE IF M0100_ASSMT_REASON = 03
THEN
    ROCIND = 1
ELSE
    ROCIND = MISSING  [SHOULD NEVER OCCUR]

Severity Rating for Primary Diagnosis

IF M0230_PRIMARY_DIAG_SEVERITY = 00
THEN
    SEVERITY = 0
ELSE IF M0230_PRIMARY_DIAG_SEVERITY = 01
THEN
    SEVERITY = 1
ELSE IF M0230_PRIMARY_DIAG_SEVERITY = 02
THEN
    SEVERITY = 2
ELSE IF M0230_PRIMARY_DIAG_SEVERITY = 03
THEN
    SEVERITY = 3
ELSE IF M0230_PRIMARY_DIAG_SEVERITY = 04
THEN
    SEVERITY = 4
ELSE
    SEVERITY = MISSING  [SHOULD NEVER OCCUR]

Number of Diagnoses with Severity Rating > 2

SEVERITY2 = 0.
IF INTSEV0 >= 2
THEN
    SEVERITY2 = SEVERITY2 + 1
IF INTSEV1 >= 2
THEN
    SEVERITY2 = SEVERITY2 + 1
IF INTSEV2 >= 2
THEN
    SEVERITY2 = SEVERITY2 + 1
IF INTSEV3 >= 2
THEN
    SEVERITY2 = SEVERITY2 + 1
IF INTSEV4 >= 2
THEN
    SEVERITY2 = SEVERITY2 + 1
IF INTSEV5 >= 2
THEN
    SEVERITY2 = SEVERITY2 + 1
Status of Most Problematic Stasis Ulcer

IF M0440_LESION_OPEN_WND = 0 OR (M0440_LESION_OPEN_WND = 1 AND M0468_STASIS_ULCER = 0)
THEN
  STASISSTATUS = 0
  STASISULCER = 0

IF M0468_STASIS_ULCER = 1 AND M0476_STAT_PRB_STASULC NOT = 01, 02, 03, NA
THEN
  STASISSTATUS = MISSING                           '[SHOULD NEVER OCCUR]
ELSE
  IF M0476_STAT_PRB_STASULC = 01
  THEN
    STASISSTATUS = 1
  ELSE IF M0476_STAT_PRB_STASULC = 02
  THEN
    STASISSTATUS = 2
  ELSE IF M0476_STAT_PRB_STASULC = 03
  THEN
    STASISSTATUS = 3
  ELSE IF M0476_STAT_PRB_STASULC = NA
  THEN
    STASISSTATUS = MISSING

Stage of Most Problematic Stasis Ulcer

IF M0468_STASIS_ULCER = 1 AND M0470_NBR_STASULC NOT = 00, 01, 02, 03, 04
THEN
  STASISULCER = MISSING                           '[SHOULD NEVER OCCUR]
ELSE
  IF M0470_NBR_STASULC = 00
  THEN
    STASISULCER = 0
  ELSE IF M0470_NBR_STASULC = 01
  THEN
    STASISULCER = 1
  ELSE IF M0470_NBR_STASULC = 02
  THEN
    STASISULCER = 2
  ELSE IF M0470_NBR_STASULC = 03
  THEN
    STASISULCER = 3
  ELSE IF M0470_NBR_STASULC = 04
  THEN
    STASISULCER = 4
Status of Surgical Wound

IF M0440_LESION_OPEN_WND = 0 OR (M0440_LESION_OPEN_WND = 1 AND M0482_SURG_WOUND = 0) THEN
  SURGICALSTATUS = 0
  SURGICALWOUND = 0

IF M0482_SURG_WOUND = 1 AND M0488_STAT_PRB_SURGWND NOT = 01, 02, 03, NA THEN
  SURGICALSTATUS = MISSING [SHOULD NEVER OCCUR]
ELSE IF M0488_STAT_PRB_SURGWND = 01 THEN
  SURGICALSTATUS = 1
ELSE IF M0488_STAT_PRB_SURGWND = 02 THEN
  SURGICALSTATUS = 2
ELSE IF M0488_STAT_PRB_SURGWND = 03 THEN
  SURGICALSTATUS = 3
ELSE IF M0488_STAT_PRB_SURGWND = NA THEN
  SURGICALSTATUS = MISSING

Number of Surgical Wounds Present

IF M0482_SURG_WOUND = 1 AND M0484_NBR_SURGWND NOT = 00, 01, 02, 03, 04 THEN
  SURGICALWOUND = MISSING [SHOULD NEVER OCCUR]
ELSE
  IF M0484_NBR_SURGWND = 00 THEN
    SURGICALWOUND = 0
  ELSE IF M0484_NBR_SURGWND = 01 THEN
    SURGICALWOUND = 1
  ELSE IF M0484_NBR_SURGWND = 02 THEN
    SURGICALWOUND = 2
  ELSE IF M0484_NBR_SURGWND = 03 THEN
    SURGICALWOUND = 3
  ELSE IF M0484_NBR_SURGWND = 04 THEN
    SURGICALWOUND = 4
Urinary Tract Infection

IF M0510_UTI = 00, NA
THEN
UTI_OUT = 0
ELSE IF M0510_UTI = 01
THEN
UTI_OUT = 1
ELSE IF M0510_UTI = UK
THEN
UTI_OUT = MISSING
ELSE
UTI_OUT = MISSING  'SHOULD NEVER OCCUR'

Mean Substitution for Missing Data on Risk Factor Measures

Before predicted outcome values can be estimated, missing values for risk factors are replaced with the mean value of valid data for the risk factor derived from the data set used to build the predictive model. As end result outcome models and utilization outcome models are based on different samples, two sets of mean values are used for substitution.

IF M0100_ASSMT_REASON[2] = '09'
THEN
ERO_ACUTE_1 = ACUTE_1
ERO_ACUTE_2 = ACUTE_2
ERO_ACUTE_3 = ACUTE_3
ERO_ACUTE_4 = ACUTE_4
ERO_ACUTE_5 = ACUTE_5
ERO_ACUTE_6 = ACUTE_6
ERO_ACUTE_7 = ACUTE_7
ERO_ACUTE_8 = ACUTE_8
ERO_ACUTE_9 = ACUTE_9
ERO_ACUTE_10 = ACUTE_10
ERO_ACUTE_11 = ACUTE_11
ERO_ACUTE_12 = ACUTE_12
ERO_ACUTE_13 = ACUTE_13
ERO_ACUTE_14 = ACUTE_14
ERO_ACUTE_15 = ACUTE_15
ERO_ACUTE_16 = ACUTE_16
ERO_AGE = AGE
ERO_AMBULATION = AMBULATION
ERO_ANXIETYLEVEL = ANXIETYLEVEL
ERO_ANYDIAG_1 = ANYDIAG_1
ERO_ANYDIAG_2 = ANYDIAG_2
ERO_ANYDIAG_3 = ANYDIAG_3
ERO_ANYDIAG_4 = ANYDIAG_4
ERO_ANYDIAG_5 = ANYDIAG_5
ERO_ANYDIAG_6 = ANYDIAG_6
ERO_ANYDIAG_7 = ANYDIAG_7
ERO_ANYDIAG_8 = ANYDIAG_8
ERO_ANYDIAG_9 = ANYDIAG_9
ERO_ANYDIAG_10 = ANYDIAG_10
ERO_ANYDIAG_11 = ANYDIAG_11
ERO_ANYDIAG_12 = ANYDIAG_12
ERO_ANYDIAG_13 = ANYDIAG_13
ERO_ANYDIAG_14 = ANYDIAG_14
ERO_ANYDIAG_15 = ANYDIAG_15
ERO_ANYDIAG_16 = ANYDIAG_16
ERO_ANYDIAG_17 = ANYDIAG_17
ERO_ANYDIAG_18 = ANYDIAG_18
ERO_ANYPRIMARY = ANYPRIMARY
ERO_AQUIGN = AQUIGN
ERO_BATHING = BATHING
ERO_BEHAVE_1 = BEHAVE_1
ERO_BEHAVE_2 = BEHAVE_2
ERO_BEHAVE_3 = BEHAVE_3
ERO_BEHAVE_4 = BEHAVE_4
ERO_BOWEL_OUT = BOWEL_OUT
ERO_CAREGIVER_1 = CAREGIVER_1
ERO_CAREGIVER_2 = CAREGIVER_2
ERO_CATHETER = CATHETER
ERO_CHRONIC_1 = CHRONIC_1
ERO_CHRONIC_2 = CHRONIC_2
ERO_CHRONIC_3 = CHRONIC_3
ERO_CHRONIC_4 = CHRONIC_4
ERO_CHRONIC_5 = CHRONIC_5
ERO_CHRONIC_6 = CHRONIC_6
ERO_CHRONIC_7 = CHRONIC_7
ERO_CHRONIC_8 = CHRONIC_8
ERO_CHRONIC_9 = CHRONIC_9
ERO_COGNITIVEFUNC = COGNITIVEFUNC
ERO_CONFUSIONFREQ = CONFUSIONFREQ
ERO_CQUIGN = CQUIGN
ERO_DEPRESSION = DEPRESSION
ERO_DYSPNEA = DYSPNEA
ERO_EATING = EATING
ERO_FREQASST = FREQASST
ERO_GENDER = GENDER
ERO_GROOMING = GROOMING
ERO_HEARING = HEARING
ERO_HOUSEKEEPING = HOUSEKEEPING
ERO_INCONT = INCONT
ERO_INCONTBASE = INCONTBASE
ERO_INCONTCATH = INCONTCATH
ERO_INCONTSEV = INCONTSEV
ERO_INPT_1 = INPT_1
ERO_INPT_2 = INPT_2
ERO_INPT_3 = INPT_3
ERO_INTPAIN = INTPAIN
ERO_LAUNDRY = LAUNDRY
ERO_LIVE_1 = LIVE_1
ERO_LIVE_2 = LIVE_2
ERO_LOS_4MO = LOS_4MO
ERO_LOSGT31 = LOSGT31
ERO_LOSGT62 = LOSGT62
ERO_LOWERDRESS = LOWERDRESS
ERO_MAXIMUMSEV = MAXIMUMSEV
ERO_MEALPREP = MEALPREP
ERO_MEDREG = MEDREG
ERO_NEWASSIST = NEWASSIST
ERO_ORALMEDS = ORALMEDS
ERO_OSTOMY = OSTOMY
ERO_P_AMBULATION_OUT = P_AMBULATION_OUT
ERO_P_BATHING_OUT = P_BATHING_OUT
ERO_P_EATING_OUT = P_EATING_OUT
ERO_P_GROOMING_OUT = P_GROOMING_OUT
ERO_P_HOUSEKEEPING_OUT = P_HOUSEKEEPING_OUT
ERO_P_LAUNDRY_OUT = P_LAUNDRY_OUT
ERO_P_LOWERDRESS_OUT = P_LOWERDRESS_OUT
ERO_P_MEALPREP_OUT = P_MEALPREP_OUT
ERO_P_ORALMEDS_OUT = P_ORALMEDS_OUT
ERO_P_PHONEUSE_OUT = P_PHONEUSE_OUT
ERO_P_SHOPPING_OUT = P_SHOPPING_OUT
ERO_P_TOILETING_OUT = P_TOILETING_OUT
ERO_P_TRANSMISSING_OUT = P_TRANSMISSING_OUT
ERO_P_TRANSPORT_OUT = P_TRANSPORT_OUT
ERO_P_UPPERDRESS_OUT = P_UPPERDRESS_OUT
ERO_PAIN = PAIN
ERO_PAY_1 = PAY_1
ERO_PRICEUSE = PRICEUSE
ERO_PRESSURE = PRESSURE
ERO_PRESSURESTATUS = PRESSURESTATUS
ERO_PRESSUREULCER = PRESSUREULCER
ERO_PRIOR_1 = PRIOR_1
ERO_PRIOR_2 = PRIOR_2
ERO_PRIOR_3 = PRIOR_3
ERO_PRIOR_4 = PRIOR_4
ERO_PRIOR_5 = PRIOR_5
ERO_PRIOR_6 = PRIOR_6
ERO_PROBFREQ = PROBFREQ
ERO_PROG = PROG
ERO_REHAB = REHAB
ERO_RESIDE_1 = RESIDE_1
ERO_RISK_1 = RISK_1
ERO_RISK_2 = RISK_2
ERO_RISK_3 = RISK_3
ERO_RISK_4 = RISK_4
ERO_ROCIND = ROCIND
ERO_SEVERITY = SEVERITY
ERO_SEVERITY2 = SEVERITY2
ERO_SHOPPING = SHOPPING
ERO_SPEECH = SPEECH
ERO_STASIS = STASIS
ERO_STASISSTATUS = STASISSTATUS
ERO_STASISULCER = STASISULCER
ERO_SURGICAL = SURGICAL
ERO_SURGICALSTATUS = SURGICALSTATUS
ERO_SURGICALWOUND = SURGICALWOUND
ERO_TOILETING = TOILETING
ERO_TRANSFERRING = TRANSFERRING
ERO_TRANSPORT = TRANSPORT
ERO_ULC_1 = ULC_1
ERO_ULC_2 = ULC_2
ERO_UPPERDRESS = UPPERDRESS
ERO_UTI_OUT = UTI_OUT
ERO_VISION = VISION

IF ERO_ACUTE_1 IS MISSING
THEN
   ERO_ACUTE_1 = 0.327475

IF ERO_ACUTE_2 IS MISSING
THEN
   ERO_ACUTE_2 = 0.100232

IF ERO_ACUTE_3 IS MISSING
THEN
   ERO_ACUTE_3 = 0.478219

IF ERO_ACUTE_4 IS MISSING
THEN
   ERO_ACUTE_4 = 0.025017

IF ERO_ACUTE_5 IS MISSING
THEN
   ERO_ACUTE_5 = 0.311126

IF ERO_ACUTE_6 IS MISSING
THEN
   ERO_ACUTE_6 = 0.151868

IF ERO_ACUTE_7 IS MISSING
THEN
   ERO_ACUTE_7 = 0.091758

IF ERO_ACUTE_8 IS MISSING
THEN
   ERO_ACUTE_8 = 0.106904

IF ERO_ACUTE_9 IS MISSING
THEN
   ERO_ACUTE_9 = 0.012819

IF ERO_ACUTE_10 IS MISSING
THEN
   ERO_ACUTE_10 = 0.096993

IF ERO_ACUTE_11 IS MISSING
THEN
   ERO_ACUTE_11 = 0.013737

IF ERO_ACUTE_12 IS MISSING
THEN
   ERO_ACUTE_12 = 0.113730

IF ERO_ACUTE_13 IS MISSING
THEN
   ERO_ACUTE_13 = 0.024686
RISK FACTOR TRANSFORMATION DOCUMENTATION

IF ERO_ACUTE_14 IS MISSING THEN
    ERO_ACUTE_14 = 0.015214
IF ERO_ACUTE_15 IS MISSING THEN
    ERO_ACUTE_15 = 0.000758
IF ERO_AGE IS MISSING THEN
    ERO_AGE = 75.677178
IF ERO_AMBULATION IS MISSING THEN
    ERO_AMBULATION = 1.250760
IF ERO_ANXIETYLEVEL IS MISSING THEN
    ERO_ANXIETYLEVEL = 0.573987
IF ERO_ANYDIAG_1 IS MISSING THEN
    ERO_ANYDIAG_1 = 0.027600
IF ERO_ANYDIAG_10 IS MISSING THEN
    ERO_ANYDIAG_10 = 0.112601
IF ERO_ANYDIAG_11 IS MISSING THEN
    ERO_ANYDIAG_11 = 0.001363
IF ERO_ANYDIAG_12 IS MISSING THEN
    ERO_ANYDIAG_12 = 0.079891
IF ERO_ANYDIAG_13 IS MISSING THEN
    ERO_ANYDIAG_13 = 0.348449
IF ERO_ANYDIAG_14 IS MISSING THEN
    ERO_ANYDIAG_14 = 0.008822
IF ERO_ANYDIAG_15 IS MISSING THEN
    ERO_ANYDIAG_15 = 0.318727
IF ERO_ANYDIAG_16 IS MISSING THEN
    ERO_ANYDIAG_16 = 0.108170
IF ERO_ANYDIAG_17 IS MISSING THEN
    ERO_ANYDIAG_17 = 0.003062
IF ERO_ANYDIAG_18 IS MISSING THEN
    ERO_ANYDIAG_18 = 0.064814
IF ERO_ANYDIAG_2 IS MISSING THEN
  ERO_ANYDIAG_2 = 0.099462

IF ERO_ANYDIAG_3 IS MISSING THEN
  ERO_ANYDIAG_3 = 0.280943

IF ERO_ANYDIAG_4 IS MISSING THEN
  ERO_ANYDIAG_4 = 0.073094

IF ERO_ANYDIAG_5 IS MISSING THEN
  ERO_ANYDIAG_5 = 0.094575

IF ERO_ANYDIAG_6 IS MISSING THEN
  ERO_ANYDIAG_6 = 0.108888

IF ERO_ANYDIAG_7 IS MISSING THEN
  ERO_ANYDIAG_7 = 0.558835

IF ERO_ANYDIAG_8 IS MISSING THEN
  ERO_ANYDIAG_8 = 0.188563

IF ERO_ANYDIAG_9 IS MISSING THEN
  ERO_ANYDIAG_9 = 0.117157

IF ERO_ANYPRIMARY IS MISSING THEN
  ERO_ANYPRIMARY = 0.812744

IF ERO_AQUIGN IS MISSING THEN
  ERO_AQUIGN = 2.206252

IF ERO_BATHING IS MISSING THEN
  ERO_BATHING = 2.460371

IF ERO_BEHAVE_1 IS MISSING THEN
  ERO_BEHAVE_1 = 0.109099

IF ERO_BEHAVE_2 IS MISSING THEN
  ERO_BEHAVE_2 = 0.100118

IF ERO_BEHAVE_3 IS MISSING THEN
  ERO_BEHAVE_3 = 0.012158

IF ERO_BEHAVE_4 IS MISSING THEN
  ERO_BEHAVE_4 = 0.006159
IF ERO_BOWEL_OUT IS MISSING THEN 
    ERO_BOWEL_OUT = 0.252154
IF ERO_CAREGIVER_1 IS MISSING THEN 
    ERO_CAREGIVER_1 = 0.511528
IF ERO_CAREGIVER_2 IS MISSING THEN 
    ERO_CAREGIVER_2 = 0.768758
IF ERO_CATHETER IS MISSING THEN 
    ERO_CATHETER = 0.038081
IF ERO_CHRONIC_1 IS MISSING THEN 
    ERO_CHRONIC_1 = 0.442362
IF ERO_CHRONIC_2 IS MISSING THEN 
    ERO_CHRONIC_2 = 0.311160
IF ERO_CHRONIC_3 IS MISSING THEN 
    ERO_CHRONIC_3 = 0.174689
IF ERO_CHRONIC_4 IS MISSING THEN 
    ERO_CHRONIC_4 = 0.033958
IF ERO_CHRONIC_5 IS MISSING THEN 
    ERO_CHRONIC_5 = 0.193621
IF ERO_CHRONIC_6 IS MISSING THEN 
    ERO_CHRONIC_6 = 0.451099
IF ERO_CHRONIC_7 IS MISSING THEN 
    ERO_CHRONIC_7 = 0.055171
IF ERO_CHRONIC_8 IS MISSING THEN 
    ERO_CHRONIC_8 = 0.204427
IF ERO_CHRONIC_9 IS MISSING THEN 
    ERO_CHRONIC_9 = 0.378335
IF ERO_COGNITIVEFUNC IS MISSING THEN 
    ERO_COGNITIVEFUNC = 0.468478
IF ERO_CONFUSIONFREQ IS MISSING THEN 
    ERO_CONFUSIONFREQ = 0.622357
IF ERO_CQUIGN IS MISSING THEN
   ERO_CQUIGN = 1.866637

IF ERO_DEPRESSION IS MISSING THEN
   ERO_DEPRESSION = 0.240598

IF ERO_DYSPNEA IS MISSING THEN
   ERO_DYSPNEA = 1.171838

IF ERO_EATING IS MISSING THEN
   ERO_EATING = 0.374081

IF ERO_FREQASST IS MISSING THEN
   ERO_FREQASST = 4.204024

IF ERO_GENDER IS MISSING THEN
   ERO_GENDER = 0.646163

IF ERO_GROOMING IS MISSING THEN
   ERO_GROOMING = 0.820413

IF ERO_HEARING IS MISSING THEN
   ERO_HEARING = 0.457343

IF ERO_HOUSEKEEPING IS MISSING THEN
   ERO_HOUSEKEEPING = 3.025456

IF ERO_INCONT IS MISSING THEN
   ERO_INCONT = 0.164373

IF ERO_INCONTBASE IS MISSING THEN
   ERO_INCONTBASE = 0.756180

IF ERO_INCONTCATH IS MISSING THEN
   ERO_INCONTCATH = 0.255470

IF ERO_INCONTSEV IS MISSING THEN
   ERO_INCONTSEV = 0.897407

IF ERO_INPT_1 IS MISSING THEN
   ERO_INPT_1 = 0.602716

IF ERO_INPT_2 IS MISSING THEN
   ERO_INPT_2 = 0.117134
IF ERO_INPT_3 IS MISSING THEN
  ERO_INPT_3 = 0.080365
IF ERO_INT_PAIN IS MISSING THEN
  ERO_INT_PAIN = 0.123984
IF ERO_LAUNDRY IS MISSING THEN
  ERO_LAUNDRY = 1.718983
IF ERO_LIVE_1 IS MISSING THEN
  ERO_LIVE_1 = 0.282734
IF ERO_LIVE_2 IS MISSING THEN
  ERO_LIVE_2 = 0.623147
IF ERO_LOS_4MO IS MISSING THEN
  ERO_LOS_4MO = 0.014484
IF ERO_LOSGT31 IS MISSING THEN
  ERO_LOSGT31 = 0.405627
IF ERO_LOSGT62 IS MISSING THEN
  ERO_LOSGT62 = 0.074560
IF ERO_LOWERDRESS IS MISSING THEN
  ERO_LOWERDRESS = 1.276318
IF ERO_MAXIMUMSEV IS MISSING THEN
  ERO_MAXIMUMSEV = 2.385965
IF ERO_MEALPREP IS MISSING THEN
  ERO_MEALPREP = 1.093463
IF ERO_MEDREG IS MISSING THEN
  ERO_MEDREG = 0.836522
IF ERO_NEWASSIST IS MISSING THEN
  ERO_NEWASSIST = 0.893276
IF ERO_ORALMeds IS MISSING THEN
  ERO_ORALMeds = 0.768829
IF ERO_OSTOMY IS MISSING THEN
  ERO_OSTOMY = 0.019834
RISK FACTOR TRANSFORMATION DOCUMENTATION

IF ERO_P_AMBULATION_OUT IS MISSING THEN
    ERO_P_AMBULATION_OUT = 0.858682

IF ERO_P_BATHING_OUT IS MISSING THEN
    ERO_P_BATHING_OUT = 1.492008

IF ERO_P_EATING_OUT IS MISSING THEN
    ERO_P_EATING_OUT = 0.263117

IF ERO_P_GROOMING_OUT IS MISSING THEN
    ERO_P_GROOMING_OUT = 0.548388

IF ERO_P_HOUSEKEEPING_OUT IS MISSING THEN
    ERO_P_HOUSEKEEPING_OUT = 2.011815

IF ERO_P_LAUNDRY_OUT IS MISSING THEN
    ERO_P_LAUNDRY_OUT = 1.138678

IF ERO_P_LOWERDRESS_OUT IS MISSING THEN
    ERO_P_LOWERDRESS_OUT = 0.750443

IF ERO_P_MEALPREP_OUT IS MISSING THEN
    ERO_P_MEALPREP_OUT = 0.726254

IF ERO_P_ORALMEDS_OUT IS MISSING THEN
    ERO_P_ORALMEDS_OUT = 0.648790

IF ERO_P_PHONEUSE_OUT IS MISSING THEN
    ERO_P_PHONEUSE_OUT = 0.621746

IF ERO_P_SHOPPING_OUT IS MISSING THEN
    ERO_P_SHOPPING_OUT = 1.471394

IF ERO_P_TOILETING_OUT IS MISSING THEN
    ERO_P_TOILETING_OUT = 0.433832

IF ERO_P_TRANSFERRING_OUT IS MISSING THEN
    ERO_P_TRANSFERRING_OUT = 0.575070

IF ERO_P_TRANSPORT_OUT IS MISSING THEN
    ERO_P_TRANSPORT_OUT = 0.749964

IF ERO_P_UPPERDRESS_OUT IS MISSING THEN
    ERO_P_UPPERDRESS_OUT = 0.623923
IF ERO_PAIN IS MISSING
THEN
    ERO_PAIN = 1.230063

IF ERO_PAY_1 IS MISSING
THEN
    ERO_PAY_1 = 0.942696

IF ERO_PHONEUSE IS MISSING
THEN
    ERO_PHONEUSE = 0.703433

IF ERO_PRESSURE IS MISSING
THEN
    ERO_PRESSURE = 0.053147

IF ERO_PRESSURESTATUS IS MISSING
THEN
    ERO_PRESSURESTATUS = 0.111023

IF ERO_PRESSUREULCER IS MISSING
THEN
    ERO_PRESSUREULCER = 0.110102

IF ERO_PRIOR_1 IS MISSING
THEN
    ERO_PRIOR_1 = 0.191636

IF ERO_PRIOR_2 IS MISSING
THEN
    ERO_PRIOR_2 = 0.017984

IF ERO_PRIOR_3 IS MISSING
THEN
    ERO_PRIOR_3 = 0.095135

IF ERO_PRIOR_4 IS MISSING
THEN
    ERO_PRIOR_4 = 0.121223

IF ERO_PRIOR_5 IS MISSING
THEN
    ERO_PRIOR_5 = 0.012344

IF ERO_PRIOR_6 IS MISSING
THEN
    ERO_PRIOR_6 = 0.100978

IF ERO_PROBFREQ IS MISSING
THEN
    ERO_PROBFREQ = 0.268449

IF ERO_PROG IS MISSING
THEN
    ERO_PROG = 0.934505

IF ERO_REHAB IS MISSING
THEN
    ERO_REHAB = 0.813899
IF ERO_RESIDE_1 IS MISSING THEN
    ERO_RESIDE_1 = 0.773538

IF ERO_RISK_1 IS MISSING THEN
    ERO_RISK_1 = 0.079093

IF ERO_RISK_2 IS MISSING THEN
    ERO_RISK_2 = 0.137931

IF ERO_RISK_3 IS MISSING THEN
    ERO_RISK_3 = 0.015844

IF ERO_RISK_4 IS MISSING THEN
    ERO_RISK_4 = 0.012290

IF ERO_ROCIND IS MISSING THEN
    ERO_ROCIND = .095448

IF ERO_SEVERITY IS MISSING THEN
    ERO_SEVERITY = 2.315974

IF ERO_SEVERITY2 IS MISSING THEN
    ERO_SEVERITY2 = 2.568906

IF ERO_SHOPPING IS MISSING THEN
    ERO_SHOPPING = 2.245576

IF ERO_SPEECH IS MISSING THEN
    ERO_SPEECH = 0.439300

IF ERO_STASIS IS MISSING THEN
    ERO_STASIS = 0.022108

IF ERO_STASISSSTATUS IS MISSING THEN
    ERO_STASISSSTATUS = 0.049092

IF ERO_STASISULCER IS MISSING THEN
    ERO_STASISULCER = 0.039925

IF ERO_SURGICAL IS MISSING THEN
    ERO_SURGICAL = 0.326506

IF ERO_SURGICALSTATUS IS MISSING THEN
    ERO_SURGICALSTATUS = 0.557624
RISK FACTOR TRANSFORMATION DOCUMENTATION

IF ERO_SURGICALWOUND IS MISSING THEN
  ERO_SURGICALWOUND = 0.513786
IF ERO_TOILETING IS MISSING THEN
  ERO_TOILETING = 0.592343
IF ERO_TRANSFERRING IS MISSING THEN
  ERO_TRANSFERRING = 0.854171
IF ERO_TRANSPORT IS MISSING THEN
  ERO_TRANSPORT = 1.019605
IF ERO_ULC_1 IS MISSING THEN
  ERO_ULC_1 = 0.043538
IF ERO_ULC_2 IS MISSING THEN
  ERO_ULC_2 = 0.011884
IF ERO_UPPERDRESS IS MISSING THEN
  ERO_UPPERDRESS = 0.963738
IF ERO_UTI_OUT IS MISSING THEN
  ERO_UTI_OUT = 0.079265
IF ERO_VISION IS MISSING THEN
  ERO_VISION = 0.287375
  UTIL_ACUTE_1 = ACUTE_1
  UTIL_ACUTE_10 = ACUTE_10
  UTIL_ACUTE_11 = ACUTE_11
  UTIL_ACUTE_12 = ACUTE_12
  UTIL_ACUTE_13 = ACUTE_13
  UTIL_ACUTE_14 = ACUTE_14
  UTIL_ACUTE_15 = ACUTE_15
  UTIL_ACUTE_16 = ACUTE_16
  UTIL_ACUTE_2 = ACUTE_2
  UTIL_ACUTE_3 = ACUTE_3
  UTIL_ACUTE_4 = ACUTE_4
  UTIL_ACUTE_5 = ACUTE_5
  UTIL_ACUTE_6 = ACUTE_6
  UTIL_ACUTE_7 = ACUTE_7
  UTIL_ACUTE_8 = ACUTE_8
  UTIL_ACUTE_9 = ACUTE_9
  UTIL_AGE = AGE
  UTIL_AMBULATION = AMBULATION
  UTIL_ANXIETYLEVEL = ANXIETYLEVEL
RISK FACTOR TRANSFORMATION DOCUMENTATION

UTIL_ANYDIAG_1 = ANYDIAG_1
UTIL_ANYDIAG_10 = ANYDIAG_10
UTIL_ANYDIAG_11 = ANYDIAG_11
UTIL_ANYDIAG_12 = ANYDIAG_12
UTIL_ANYDIAG_13 = ANYDIAG_13
UTIL_ANYDIAG_14 = ANYDIAG_14
UTIL_ANYDIAG_15 = ANYDIAG_15
UTIL_ANYDIAG_16 = ANYDIAG_16
UTIL_ANYDIAG_17 = ANYDIAG_17
UTIL_ANYDIAG_18 = ANYDIAG_18
UTIL_ANYDIAG_2 = ANYDIAG_2
UTIL_ANYDIAG_3 = ANYDIAG_3
UTIL_ANYDIAG_4 = ANYDIAG_4
UTIL_ANYDIAG_5 = ANYDIAG_5
UTIL_ANYDIAG_6 = ANYDIAG_6
UTIL_ANYDIAG_7 = ANYDIAG_7
UTIL_ANYDIAG_8 = ANYDIAG_8
UTIL_ANYDIAG_9 = ANYDIAG_9
UTIL_ANYPRIMARY = ANYPRIMARY
UTIL_AQUIGN = AQUIGN
UTIL_BATHING = BATHING
UTIL_BEHAVE_1 = BEHAVE_1
UTIL_BEHAVE_2 = BEHAVE_2
UTIL_BEHAVE_3 = BEHAVE_3
UTIL_BEHAVE_4 = BEHAVE_4
UTIL_BOWEL_OUT = BOWEL_OUT
UTIL_CAREGIVER_1 = CAREGIVER_1
UTIL_CAREGIVER_2 = CAREGIVER_2
UTIL_CATHETER = CATHETER
UTIL_CHRONIC_1 = CHRONIC_1
UTIL_CHRONIC_2 = CHRONIC_2
UTIL_CHRONIC_3 = CHRONIC_3
UTIL_CHRONIC_4 = CHRONIC_4
UTIL_CHRONIC_5 = CHRONIC_5
UTIL_CHRONIC_6 = CHRONIC_6
UTIL_CHRONIC_7 = CHRONIC_7
UTIL_CHRONIC_8 = CHRONIC_8
UTIL_CHRONIC_9 = CHRONIC_9
UTIL_COGNITIVEFUNC = COGNITIVEFUNC
UTIL_CONFUSIONFREQ = CONFUSIONFREQ
UTIL_CQUIGN = CQUIGN
UTIL_DEPRESSION = DEPRESSION
UTIL_DYSPEA = DYSPNEA
UTIL_EATING = EATING
UTIL_FREQASS = FREQASST
UTIL_GENDER = GENDER
UTIL_GROOMING = GROOMING
UTIL_HEARING = HEARING
UTIL_HOUSEKEEPING = HOUSEKEEPING
UTIL_INCONT = INCONT
UTIL_INCONTBASE = INCONTBASE
UTIL_INCTCATH = INCTCATH
UTIL_INTCSEV = INTCSEV
RISK FACTOR TRANSFORMATION DOCUMENTATION

UTIL_SEVERITY = SEVERITY
UTIL_SEVERITY2 = SEVERITY2
UTIL_SHOPPING = SHOPPING
UTIL_SPEECH = SPEECH
UTIL_STASIS = STASIS
UTIL_STASISSTATUS = STASISSTATUS
UTIL_STASISULCER = STASISULCER
UTIL_SURGICAL = SURGICAL
UTIL_SURGICALSTATUS = SURGICALSTATUS
UTIL_SURGICALWOUND = SURGICALWOUND
UTIL_TOILETING = TOILETING
UTIL_TRNSFERRING = TRANSFERRING
UTIL_TRANSPORT = TRANSPORT
UTIL_ULC_1 = ULC_1
UTIL_ULC_2 = ULC_2
UTIL_UPPERDRESS = UPPERDRESS
UTIL_UTI_OUT = UTI_OUT
UTIL_VISION = VISION

IF UTIL_ACUTE_1 IS MISSING
THEN
    UTIL_ACUTE_1 = 0.286704
IF UTIL_ACUTE_10 IS MISSING
THEN
    UTIL_ACUTE_10 = 0.104564
IF UTIL_ACUTE_11 IS MISSING
THEN
    UTIL_ACUTE_11 = 0.015656
IF UTIL_ACUTE_12 IS MISSING
THEN
    UTIL_ACUTE_12 = 0.143160
IF UTIL_ACUTE_13 IS MISSING
THEN
    UTIL_ACUTE_13 = 0.029812
IF UTIL_ACUTE_14 IS MISSING
THEN
    UTIL_ACUTE_14 = 0.022728
IF UTIL_ACUTE_15 IS MISSING
THEN
    UTIL_ACUTE_15 = 0.001076
IF UTIL_ACUTE_2 IS MISSING
THEN
    UTIL_ACUTE_2 = 0.097916
IF UTIL_ACUTE_3 IS MISSING
THEN
    UTIL_ACUTE_3 = 0.475152
IF UTIL_ACUTE_4 IS MISSING THEN
    UTIL_ACUTE_4 = 0.034876
IF UTIL_ACUTE_5 IS MISSING THEN
    UTIL_ACUTE_5 = 0.328756
IF UTIL_ACUTE_6 IS MISSING THEN
    UTIL_ACUTE_6 = 0.172524
IF UTIL_ACUTE_7 IS MISSING THEN
    UTIL_ACUTE_7 = 0.100868
IF UTIL_ACUTE_8 IS MISSING THEN
    UTIL_ACUTE_8 = 0.115560
IF UTIL_ACUTE_9 IS MISSING THEN
    UTIL_ACUTE_9 = 0.014648
IF UTIL_AGE IS MISSING THEN
    UTIL_AGE = 75.431020
IF UTIL_AMBULATION IS MISSING THEN
    UTIL_AMBULATION = 1.362232
IF UTIL_ANXIETYLEVEL IS MISSING THEN
    UTIL_ANXIETYLEVEL = 0.633220
IF UTIL_ANYDIAG_1 IS MISSING THEN
    UTIL_ANYDIAG_1 = 0.032380
IF UTIL_ANYDIAG_10 IS MISSING THEN
    UTIL_ANYDIAG_10 = 0.132980
IF UTIL_ANYDIAG_11 IS MISSING THEN
    UTIL_ANYDIAG_11 = 0.001160
IF UTIL_ANYDIAG_12 IS MISSING THEN
    UTIL_ANYDIAG_12 = 0.097836
IF UTIL_ANYDIAG_13 IS MISSING THEN
    UTIL_ANYDIAG_13 = 0.324160
IF UTIL_ANYDIAG_14 IS MISSING THEN
    UTIL_ANYDIAG_14 = 0.008828
IF UTIL_ANYDIAG_15 IS MISSING THEN 
    UTIL_ANYDIAG_15 = 0.330708
IF UTIL_ANYDIAG_16 IS MISSING THEN 
    UTIL_ANYDIAG_16 = 0.095160
IF UTIL_ANYDIAG_17 IS MISSING THEN 
    UTIL_ANYDIAG_17 = 0.002836
IF UTIL_ANYDIAG_18 IS MISSING THEN 
    UTIL_ANYDIAG_18 = 0.067880
IF UTIL_ANYDIAG_2 IS MISSING THEN 
    UTIL_ANYDIAG_2 = 0.111268
IF UTIL_ANYDIAG_3 IS MISSING THEN 
    UTIL_ANYDIAG_3 = 0.311892
IF UTIL_ANYDIAG_4 IS MISSING THEN 
    UTIL_ANYDIAG_4 = 0.084228
IF UTIL_ANYDIAG_5 IS MISSING THEN 
    UTIL_ANYDIAG_5 = 0.100364
IF UTIL_ANYDIAG_6 IS MISSING THEN 
    UTIL_ANYDIAG_6 = 0.111616
IF UTIL_ANYDIAG_7 IS MISSING THEN 
    UTIL_ANYDIAG_7 = 0.582332
IF UTIL_ANYDIAG_8 IS MISSING THEN 
    UTIL_ANYDIAG_8 = 0.212232
IF UTIL_ANYDIAG_9 IS MISSING THEN 
    UTIL_ANYDIAG_9 = 0.126152
IF UTIL_ANYPRIMARY IS MISSING THEN 
    UTIL_ANYPRIMARY = 0.818157
IF UTIL_AQUIGN IS MISSING THEN 
    UTIL_AQUIGN = 2.300536
IF UTIL_BATHING IS MISSING THEN 
    UTIL_BATHING = 2.583020
IF UTIL_BEHAVE_1 IS MISSING THEN
    UTIL_BEHAVE_1 = 0.122184
IF UTIL_BEHAVE_2 IS MISSING THEN
    UTIL_BEHAVE_2 = 0.117232
IF UTIL_BEHAVE_3 IS MISSING THEN
    UTIL_BEHAVE_3 = 0.014936
IF UTIL_BEHAVE_4 IS MISSING THEN
    UTIL_BEHAVE_4 = 0.007424
IF UTIL_BOWEL_OUT IS MISSING THEN
    UTIL_BOWEL_OUT = 0.330161
IF UTIL_CAREGIVER_1 IS MISSING THEN
    UTIL_CAREGIVER_1 = 0.530797
IF UTIL_CAREGIVER_2 IS MISSING THEN
    UTIL_CAREGIVER_2 = 0.775199
IF UTIL_CATHETER IS MISSING THEN
    UTIL_CATHETER = 0.055932
IF UTIL_CHRONIC_1 IS MISSING THEN
    UTIL_CHRONIC_1 = 0.492240
IF UTIL_CHRONIC_2 IS MISSING THEN
    UTIL_CHRONIC_2 = 0.358652
IF UTIL_CHRONIC_3 IS MISSING THEN
    UTIL_CHRONIC_3 = 0.206196
IF UTIL_CHRONIC_4 IS MISSING THEN
    UTIL_CHRONIC_4 = 0.046500
IF UTIL_CHRONIC_5 IS MISSING THEN
    UTIL_CHRONIC_5 = 0.220780
IF UTIL_CHRONIC_6 IS MISSING THEN
    UTIL_CHRONIC_6 = 0.501456
IF UTIL_CHRONIC_7 IS MISSING THEN
    UTIL_CHRONIC_7 = 0.060669
IF UTIL_CHRONIC_8 IS MISSING THEN
    UTIL_CHRONIC_8 = 0.231764
IF UTIL_CHRONIC_9 IS MISSING THEN
    UTIL_CHRONIC_9 = 0.414404
IF UTIL_COGNITIVEFUNC IS MISSING THEN
    UTIL_COGNITIVEFUNC = 0.529136
IF UTIL_CONFUSIONFREQ IS MISSING THEN
    UTIL_CONFUSIONFREQ = 0.696222
IF UTIL_CQUIGN IS MISSING THEN
    UTIL_CQUIGN = 2.118432
IF UTIL_DEPRESSION IS MISSING THEN
    UTIL_DEPRESSION = 0.274644
IF UTIL_DYSPNEA IS MISSING THEN
    UTIL_DYSPNEA = 1.319256
IF UTIL_EATING IS MISSING THEN
    UTIL_EATING = 0.439560
IF UTIL_FREQASST IS MISSING THEN
    UTIL_FREQASST = 4.268694
IF UTIL_GENDER IS MISSING THEN
    UTIL_GENDER = 0.634744
IF UTIL_GROOMING IS MISSING THEN
    UTIL_GROOMING = 0.934944
IF UTIL_HEARING IS MISSING THEN
    UTIL_HEARING = 0.491824
IF UTIL_HOUSEKEEPING IS MISSING THEN
    UTIL_HOUSEKEEPING = 3.121384
IF UTIL_INCONT IS MISSING THEN
    UTIL_INCONT = 0.181448
IF UTIL_INCONTBASE IS MISSING THEN
    UTIL_INCONTBASE = 0.879070
IF UTIL_INCONTCATH IS MISSING THEN
    UTIL_INCONTCATH = 0.272752

IF UTIL_INCONTSEV IS MISSING THEN
    UTIL_INCONTSEV = 0.983979

IF UTIL_INPT_1 IS MISSING THEN
    UTIL_INPT_1 = 0.625216

IF UTIL_INPT_2 IS MISSING THEN
    UTIL_INPT_2 = 0.105840

IF UTIL_INPT_3 IS MISSING THEN
    UTIL_INPT_3 = 0.077632

IF UTIL_INTPAIN IS MISSING THEN
    UTIL_INTPAIN = 0.134515

IF UTIL_LAUNDRY IS MISSING THEN
    UTIL_LAUNDRY = 1.748072

IF UTIL_LIVE_1 IS MISSING THEN
    UTIL_LIVE_1 = 0.274340

IF UTIL_LIVE_2 IS MISSING THEN
    UTIL_LIVE_2 = 0.632368

IF UTIL_LOS_4MO IS MISSING THEN
    UTIL_LOS_4MO = 0.021212

IF UTIL_LOSGT31 IS MISSING THEN
    UTIL_LOSGT31 = 0.370160

IF UTIL_LOSGT62 IS MISSING THEN
    UTIL_LOSGT62 = 0.087232

IF UTIL_LOWERDRESS IS MISSING THEN
    UTIL_LOWERDRESS = 1.371904

IF UTIL_MAXIMUMSEV IS MISSING THEN
    UTIL_MAXIMUMSEV = 2.445020

IF UTIL_MEALPREP IS MISSING THEN
    UTIL_MEALPREP = 1.160004
IF UTIL_MEDREG IS MISSING THEN
    UTIL_MEDREG = 0.841644
IF UTIL_NEWASSIST IS MISSING THEN
    UTIL_NEWASSIST = 0.894622
IF UTIL_ORALMEDS IS MISSING THEN
    UTIL_ORALMEDS = 0.850577
IF UTIL_OSTOMY IS MISSING THEN
    UTIL_OSTOMY = 0.022434
IF UTIL_P_AMBULATION_OUT IS MISSING THEN
    UTIL_P_AMBULATION_OUT = 0.979676
IF UTIL_P_BATHING_OUT IS MISSING THEN
    UTIL_P_BATHING_OUT = 1.690136
IF UTIL_P_EATING_OUT IS MISSING THEN
    UTIL_P_EATING_OUT = 0.321528
IF UTIL_P_GROOMING_OUT IS MISSING THEN
    UTIL_P_GROOMING_OUT = 0.656864
IF UTIL_P_HOUSEKEEPING_OUT IS MISSING THEN
    UTIL_P_HOUSEKEEPING_OUT = 2.210756
IF UTIL_P_LAUNDRY_OUT IS MISSING THEN
    UTIL_P_LAUNDRY_OUT = 1.236704
IF UTIL_P_LOWERDRESS_OUT IS MISSING THEN
    UTIL_P_LOWERDRESS_OUT = 0.872520
IF UTIL_P_MEALPREP_OUT IS MISSING THEN
    UTIL_P_MEALPREP_OUT = 0.815936
IF UTIL_P_ORALMEDS_OUT IS MISSING THEN
    UTIL_P_ORALMEDS_OUT = 0.722618
IF UTIL_P_PHONEUSE_OUT IS MISSING THEN
    UTIL_P_PHONEUSE_OUT = 0.732614
IF UTIL_P_SHOPPING_OUT IS MISSING THEN
    UTIL_P_SHOPPING_OUT = 1.605812
IF UTIL_P_TOILETING_OUT IS MISSING THEN
    UTIL_P_TOILETING_OUT = 0.538672
IF UTIL_P_TRANSFERRING_OUT IS MISSING THEN
    UTIL_PTRANSFERRING_OUT = 0.679192
IF UTIL_P_TRANSPORT_OUT IS MISSING THEN
    UTIL_P_TRANSPORT_OUT = 0.802836
IF UTIL_P_UPPERDRESS_OUT IS MISSING THEN
    UTIL_P_UPPERDRESS_OUT = 0.737492
IF UTIL_PAIN IS MISSING THEN
    UTIL_PAIN = 1.239976
IF UTIL_PAY_1 IS MISSING THEN
    UTIL_PAY_1 = 0.935284
IF UTIL_PHONEUSE IS MISSING THEN
    UTIL_PHONEUSE = 0.832728
IF UTIL_PRESSURE IS MISSING THEN
    UTIL_PRESSURE = 0.073184
IF UTIL_PRESSURESTATUS IS MISSING THEN
    UTIL_PRESSURESTATUS = 0.157469
IF UTIL_PRESSUREULCER IS MISSING THEN
    UTIL_PRESSUREULCER = 0.160296
IF UTIL_PRIOR_1 IS MISSING THEN
    UTIL_PRIOR_1 = 0.208902
IF UTIL_PRIOR_2 IS MISSING THEN
    UTIL_PRIOR_2 = 0.030975
IF UTIL_PRIOR_3 IS MISSING THEN
    UTIL_PRIOR_3 = 0.097118
IF UTIL_PRIOR_4 IS MISSING THEN
    UTIL_PRIOR_4 = 0.139318
IF UTIL_PRIOR_5 IS MISSING THEN
    UTIL_PRIOR_5 = 0.014796
IF UTIL_PRIOR_6 IS MISSING THEN
    UTIL_PRIOR_6 = 0.111602
IF UTIL_PROBFREQ IS MISSING THEN
    UTIL_PROBFREQ = 0.306468
IF UTIL_PROG IS MISSING THEN
    UTIL_PROG = 0.904335
IF UTIL_REHAB IS MISSING THEN
    UTIL_REHAB = 0.757504
IF UTIL_RESIDE_1 IS MISSING THEN
    UTIL_RESIDE_1 = 0.768220
IF UTIL_RISK_1 IS MISSING THEN
    UTIL_RISK_1 = 0.083944
IF UTIL_RISK_2 IS MISSING THEN
    UTIL_RISK_2 = 0.143893
IF UTIL_RISK_3 IS MISSING THEN
    UTIL_RISK_3 = 0.016142
IF UTIL_RISK_4 IS MISSING THEN
    UTIL_RISK_4 = 0.012729
IF UTIL_ROCIND IS MISSING THEN
    UTIL_ROCIND = .143724
IF UTIL_SEVERITY IS MISSING THEN
    UTIL_SEVERITY = 2.367367
IF UTIL_SEVERITY2 IS MISSING THEN
    UTIL_SEVERITY2 = 2.751812
IF UTIL_SHOPPING IS MISSING THEN
    UTIL_SHOPPING = 2.292888
IF UTIL_SPEECH IS MISSING THEN
    UTIL_SPEECH = 0.500148
IF UTIL_STASIS IS MISSING THEN
    UTIL_STASIS = 0.028228
IF UTIL_STASISSTATUS IS MISSING THEN
    UTIL_STASISSTATUS = 0.064600

IF UTIL_STASISULCER IS MISSING THEN
    UTIL_STASISULCER = 0.053507

IF UTIL_SURGICAL IS MISSING THEN
    UTIL_SURGICAL = 0.296984

IF UTIL_SURGICALSTATUS IS MISSING THEN
    UTIL_SURGICALSTATUS = 0.513856

IF UTIL_SURGICALWOUND IS MISSING THEN
    UTIL_SURGICALWOUND = 0.470939

IF UTIL_TOILETING IS MISSING THEN
    UTIL_TOILETING = 0.715276

IF UTIL_TRANSFERRING IS MISSING THEN
    UTIL_TRANSFERRING = 0.955488

IF UTIL_TRANSPORT IS MISSING THEN
    UTIL_TRANSPORT = 1.037188

IF UTIL_ULC_1 IS MISSING THEN
    UTIL_ULC_1 = 0.061644

IF UTIL_ULC_2 IS MISSING THEN
    UTIL_ULC_2 = 0.020984

IF UTIL_UPPERDRESS IS MISSING THEN
    UTIL_UPPERDRESS = 1.076556

IF UTIL_UTI_OUT IS MISSING THEN
    UTIL_UTI_OUT = 0.088495

IF UTIL_VISION IS MISSING THEN
    UTIL_VISION = 0.318588