OUTCOME-BASED QUALITY IMPROVEMENT REPORTS:

TECHNICAL DOCUMENTATION OF MEASURES

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CONTENTS

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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]

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

OUTCOME MEASURE TRANSFORMATION DOCUMENTATION

Data Transformation Pseudo-Code

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 <u>not</u> 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

OUTCOME MEASURE TRANSFORMATION DOCUMENTATION

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

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
    ELSE IF (M0680_CUR_TOILETING = 01 AND M0680_CUR_TOILETING[2] = 01, 02, 03, 04)
        OR (M0680_CUR_TOILETING = 02 AND M0680_CUR_TOILETING[2] = 02, 03, 04)
        OR (M0680_CUR_TOILETING = 03 AND M0680_CUR_TOILETING[2] = 03, 04) OR
        (M0680_CUR_TOILETING = 04 AND M0680_CUR_TOILETING[2] = 04)
    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) OR
        (M0690_CUR_TRANSFERRING = 05 AND
        M0690_CUR_TRANSFERRING[2] = 00,01,02,03,04)
    THEN
        IMP_TRANSFERRING = 1
    ELSE IF (M0690_CUR_TRANSFERRING = 01 AND
        M0690_CUR_TRANSFERRING[2] = 01, 02, 03, 04, 05) OR
        (M0690_CUR_TRANSFERRING = 02 AND
        M0690_CUR_TRANSFERRING[2] = 02,03,04,05) OR
        (M0690_CUR_TRANSFERRING = 03 AND
        M0690_CUR_TRANSFERRING[2] = 03, 04, 05) OR
        (M0690_CUR_TRANSFERRING = 04 AND
        M0690_CUR_TRANSFERRING[2] = 04, 05) OR
        (M0690_CUR_TRANSFERRING = 05 AND M0690_CUR_TRANSFERRING[2] = 05)
    THEN
        IMP_TRANSFERRING = 0

   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
  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 = 00
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

OUTCOME MEASURE TRANSFORMATION DOCUMENTATION

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 = 01 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

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
       ELSE IF (M0760_CUR_SHOPPING = 00 AND
              M0760_CUR_SHOPPING[2] = 01, 02, 03) OR (M0760_CUR_SHOPPING = 01 AND
              M0760_CUR_SHOPPING[2] = 02, 03) OR (M0760_CUR_SHOPPING = 02 AND
              M0760_CUR_SHOPPING[2] = 03)
       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] = 04, 05) OR
      (M0770_CUR_PHONE_USE = 04 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
(M0486_UNOBS_SURGWND[2] NOT = 1 OR M0484_NBR_SURGWND[2] NOT = 00))
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

    IF M0440_LESION_OPEN_WND[2] = 0 OR M0482_SURG_WOUND[2] = 0
    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
    ((M0440_LESION_OPEN_WND[2] = 1 OR M0482_SURG_WOUND[2] = 1) AND
    NBR_INT2 NOT = 00, 01, 02, 03, 04)
THEN
    IMP_NUMBERWOUNDS = MISSING   **'[SHOULD 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

IF M0440_LESION_WND[2] = 0 OR M0482_SURG_WOUND[2] = 0
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   **'[SHOULD 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   **'[SHOULD NEVER OCCUR]**
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
    ELSE IF (M0490_WHEN_DYSPNEIC = 01 AND
        M0490_WHEN_DYSPNEIC[2] = 01, 02, 03, 04) OR
        (M0490_WHEN_DYSPNEIC = 02 AND
        M0490_WHEN_DYSPNEIC[2] = 02, 03, 04) OR
        (M0490_WHEN_DYSPNEIC = 03 AND M0490_WHEN_DYSPNEIC[2] = 03, 04) OR
        (M0490_WHEN_DYSPNEIC = 04 AND M0490_WHEN_DYSPNEIC[2] = 04)
    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   **'[SHOULD NEVER OCCUR]**

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)

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 M0520_UR_INCONT = 02
    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 = MISSING

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 OR
    M0560_COG_FUNCTION[2] NOT = 00, 01, 02, 03, 04
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
     IMP_ANXIETY = 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
          IMP_ANXIETY = 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
          IMP_ANXIETY = 0
     ELSE IF M0580_WHEN_ANXIOUS = 00 OR M0580_WHEN_ANXIOUS[2] = NA
     THEN
          IMP_ANXIETY = 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
     IMP_BEHAVIOR = 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
          IMP_BEHAVIOR = 1

> **ELSE IF** (M0620_BEH_PROB_FREQ = 01 AND
> M0620_BEH_PROB_FREQ[2] = 01, 02, 03, 04, 05) OR
> (M0620_BEH_PROB_FREQ = 02 AND M0620_BEH_PROB_FREQ[2] = 02,03,04,05)
> OR (M0620_BEH_PROB_FREQ = 03 AND
> M0620_BEH_PROB_FREQ[2] = 03, 04, 05) OR (M0620_BEH_PROB_FREQ = 04
> AND M0620_BEH_PROB_FREQ[2] = 04, 05) OR (M0620_BEH_PROB_FREQ = 05
> AND M0620_BEH_PROB_FREQ[2] = 05)
> **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

IF M0830_EC_NONE[2] NOT = 0, 1 OR M0830_EC_EMER_ROOM[2] NOT = 0, 1 OR
M0830_EC_MD_OFF[2] NOT = 0, 1 OR M0830_EC_OUTPAT[2] NOT = 0, 1 OR
M0830_EC_UNKNOWN[2] NOT = 0, 1 OR
((M0830_EC_UNKNOWN[2] = 1 OR M0830_EC_NONE[2] = 1) AND
(M0830_EC_EMER_ROOM[2] = 1 OR M0830_EC_MD_OFF[2] = 1 OR
M0830_EC_OUTPAT[2] = 1)) OR (M0830_EC_NONE[2] = 0 AND
M0830_EC_EMER_ROOM[2] = 0 AND M0830_EC_MD_OFF[2] = 0 AND
M0830_EC_OUTPAT[2] = 0 AND M0830_EC_UNKNOWN[2] = 0) OR
(M0830_EC_UNKNOWN[2] = 1 AND M0830_EC_NONE[2] = 1)
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

IF M0100_ASSMT_REASON[2] = 09 AND M0870_DSCHG_DISP[2] NOT = 01, 02, 03, UK
THEN
    UTIL_DCCOMM = MISSING   '[**SHOULD NEVER OCCUR**]
ELSE
    IF M0100_ASSMT_REASON[2] = 09 AND M0870_DSCHG_DISP[2] = 01
    THEN
        UTIL_DCCOMM = 1
    ELSE IF (M0100_ASSMT_REASON[2] = 09 AND M0870_DSCHG_DISP[2] = 02, 03) OR
        M0100_ASSMT_REASON[2] = 06, 07
    THEN
        UTIL_DCCOMM = 0
    ELSE IF M0870_DSCHG_DISP[2] = UK
    THEN
        UTIL_DCCOMM = MISSING

Acute Care Hospitalization

IF (M0100_ASSMT_REASON[2] = 06, 07 AND M0855_INPAT_FACILITY[2] NOT = 01, 02, 03, 04)
    OR (M0100_ASSMT_REASON[2] = 09 AND M0855_INPAT_FACILITY[2] NOT = NA) OR
    (M0855_INPAT_FACILITY[2] = 01 AND M0890_HOSP_RSN[2] NOT = 01, 02, 03, UK)
THEN
    UTIL_HOSPDC = MISSING   '[**SHOULD NEVER OCCUR**]
ELSE
    IF (M0100_ASSMT_REASON[2] = 06, 07 AND M0855_INPAT_FACILITY [2]= 01)
    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
    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,[2] 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.

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[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.

CASE MIX TRANSFORMATION DOCUMENTATION

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.

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:

Measure	ICD-9 Codes (Values and ranges listed below include 4 OR 5 digit codes beginning with the specified three digits.)
Orthopedic (%)	170-171, 213, 274, 710-739, 781, 800-848, 885-887, 895-897, 905, 927-928
Neurologic (%)	045-049, 191-192, 225, 320-326, 330-337, 340-359, 430-438, 850-854, 907, 950-957
Open wounds/lesions (%)	707, 870-884, 890-894, 940-949
Cardiac/peripheral vascular (%)	391, 393-398, 401-405, 410-417, 420-429, 440-448, 451-455, 456-459, 785
Pulmonary (%)	011-012, 160-165, 197, 212, 231, 460-466, 470-478, 480-487, 490-496, 500-508, 510-519, 786, 860-862
Diabetes Mellitus (%)	250
Gastrointestinal disorder (%)	001-009, 127, 129, 150-154, 156, 159, 211, 230, 530-537, 550-553, 555-558, 560-579, 787, 863
Contagious/communicable (%)	001-018, 020-027, 030-037, 039-057, 060-066, 070-088, 090-104, 110-118, 120-136

*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.

CASE MIX TRANSFORMATION DOCUMENTATION

*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]

*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.

CASE MIX TRANSFORMATION DOCUMENTATION

*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 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:

Home Care Diagnosis Code	Corresponding Severity Rating
M0230_PRIMARY_DIAG_ICD	M0230_PRIMARY_DIAG_SEVERITY
M0240_OTH_DIAG1_ICD	M0240_OTH_DIAG1_SEVERITY
M0240_OTH_DIAG2_ICD	M0240_OTH_DIAG2_SEVERITY
M0240_OTH_DIAG3_ICD	M0240_OTH_DIAG3_SEVERITY
M0240_OTH_DIAG4_ICD	M0240_OTH_DIAG4_SEVERITY
M0240_OTH_DIAG5_ICD	M0240_OTH_DIAG5_SEVERITY

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 FACTOR TRANSFORMATION DOCUMENTATION

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.

Risk Factor Description	Data Item Name	Same as Case Mix Measure
Acute condition: orthopedic (0-1)	ACUTE_1	Yes
Acute condition: urinary incontinence/catheter (0-1)	ACUTE_10	Yes
Acute condition: mental/emotional (0-1)	ACUTE_11	Yes
Acute condition: oxygen therapy (0-1)	ACUTE_12	Yes
Acute condition: IV/Infusion therapy (0-1)	ACUTE_13	Yes
Acute condition: enteral/parenteral nutrition (0-1)	ACUTE_14	Yes
Acute condition: ventilator (0-1)	ACUTE_15	Yes
Acute condition: other [#]	ACUTE_16 [#]	No
Acute condition: neurologic (0-1)	ACUTE_2	Yes
Acute condition: open wound/lesion (0-1)	ACUTE_3	Yes
Acute condition: terminal (0-1)	ACUTE_4	Yes
Acute condition: cardiac/peripheral vascular (0-1)	ACUTE_5	Yes
Acute condition: pulmonary (0-1)	ACUTE_6	Yes
Acute condition: diabetes mellitus (0-1)	ACUTE_7	Yes
Acute condition: gastrointestinal disorder (0-1)	ACUTE_8	Yes
Acute condition: contagious/communicable disease (0-1)	ACUTE_9	Yes
Age (in years)	AGE	Yes
Disability in ambulation (0-5)	AMBULATION	Yes
Anxiety level (0-3)	ANXIETYLEVEL	No
Diagnosis: infectious/parasitic disease (0-1)	ANYDIAG_1	No*
Diagnosis: genitourinary system diseases (0-1)	ANYDIAG_10	No*
Diagnosis: pregnancy problems (0-1)	ANYDIAG_11	No*
Diagnosis: skin/subcutaneous diseases (0-1)	ANYDIAG_12	No*
Diagnosis: musculoskeletal system diseases (0-1)	ANYDIAG_13	No*
Diagnosis: congenital anomalies (0-1)	ANYDIAG_14	No*
Diagnosis: ill-defined conditions (0-1)	ANYDIAG_15	No*
Diagnosis: fractures (0-1)	ANYDIAG_16	No*
Diagnosis: intracranial injury (0-1)	ANYDIAG_17	No*
Diagnosis: other injury (0-1)	ANYDIAG_18	No*
Diagnosis: neoplasms (0-1)	ANYDIAG_2	No*
Diagnosis: endocrine/nutritional/metabolic (0-1)	ANYDIAG_3	No*
Diagnosis: blood diseases (0-1)	ANYDIAG_4	No*
Diagnosis: mental disease (0-1)	ANYDIAG_5	No*

RISK FACTOR TRANSFORMATION DOCUMENTATION

Risk Factor Description	Data Item Name	Same as Case Mix Measure
Diagnosis: nervous system disorder (0-1)	ANYDIAG_6	No*
Diagnosis: circulatory system diseases (0-1)	ANYDIAG_7	No*
Diagnosis: respiratory system diseases (0-1)	ANYDIAG_8	No*
Diagnosis: digestive system diseases (0-1)	ANYDIAG_9	No*
Primary caregiver present (0-1)	ANYPRIMARY	No
Total number of acute conditions reported (0-16)	AQUIGN	No
Disability in bathing (0-5)	BATHING	Yes
Demonstrated behavior: memory deficit (0-1)	BEHAVE_1	No
Demonstrated behavior: impaired decision-making (0-1)	BEHAVE_2	No
Demonstrated behavior: verbal disruption (0-1)	BEHAVE_3	No
Demonstrated behavior: disruptive, infant, socially inappr. (0-1)	BEHAVE_4	No
Bowel incontinence frequency (0-5)	BOWEL_OUT	No*
ADL assistance provided by caregiver (0-1)	CAREGIVER_1	No
IADL assistance provided by caregiver (0-1)	CAREGIVER_2	No
Urinary catheter (0-1)	CATHETER	Yes
Chronic condition: dependence in living skills (0-1)	CHRONIC_1	Yes
Chronic condition: dependence in personal care (0-1)	CHRONIC_2	Yes
Chronic condition: impaired ambulation/mobility (0-1)	CHRONIC_3	Yes
Chronic condition: eating disability (0-1)	CHRONIC_4	Yes
Chronic condition: urinary incontinence/catheter (0-1)	CHRONIC_5	Yes
Chronic condition: dependence in medication admin. (0-1)	CHRONIC_6	Yes
Chronic condition: chronic pain (0-1)	CHRONIC_7	Yes
Chronic condition: cognitive/mental/behavioral problems (0-1)	CHRONIC_8	Yes
Chronic condition: at least one, but caregiver present (0-1)	CHRONIC_9	Yes
Disability in cognitive functioning (0-4)	COGNITIVEFUNC	No
Confusion scale (0-4)	CONFUSIONFREQ	No
Total number of chronic conditions reported (0-9)	CQUIGN	No
Depression scale (0-5)	DEPRESSION	No
Dyspnea (0-4)	DYSPNEA	Yes
Disability in eating (0-5)	EATING	Yes
Infrequency of caregiver assistance (1-7)	FREQASST	Yes
Gender: female (0-1)	GENDER	Yes
Disability in grooming (0-3)	GROOMING	Yes
Hearing impairment (0-4)	HEARING	Yes
Disability in housekeeping (0-4)	HOUSEKEEPING	Yes
Incontinent during day and night (0-1)	INCONT	Yes
Urinary incontinence severity 1 (0-4)	INCONTBASE	No
Presence of urinary incontinence (0-1)	INCONTCATH	No
Urinary incontinence severity 2 (0-4)	INCONTSEV	No
Inpatient discharge from hospital (0-1)	INPT_1	Yes
Inpatient discharge from rehab. facility (0-1)	INPT_2	Yes
Inpatient discharge from nursing home (0-1)	INPT_3	Yes
Intractable pain (0-1)	INTPAIN	Yes
Disability in laundry (0-2)	LAUNDRY	Yes
Patient lives alone (0-1)	LIVE_1	Yes
Patient lives with family member (0-1)	LIVE_2	Yes
Length of stay: more than 124 days (0-1)	LOS_4MO	Yes
Length of stay: more than 31 days (0-1)	LOSGT31	No*

RISK FACTOR TRANSFORMATION DOCUMENTATION

Risk Factor Description	Data Item Name	Same as Case Mix Measure
Length of stay: more than 62 days (0-1)	LOSGT62	No*
Disability in dressing lower body (0-3)	LOWERDRESS	Yes
Maximum severity rating among all diagnoses (0-4)	MAXIMUMSEV	No
Disability in light meal preparation (0-2)	MEALPREP	Yes
Medical regimen change in past 14 days (0-1)	MEDREG	Yes
Patient has unpaid live-in help (0-1)	NEWASSIST	No
Disability in mgt. of oral medications (0-2)	ORALMEDS	Yes
Bowel ostomy (0-1)	OSTOMY	No
Prior (2 weeks ago) disability in ambulation (0-5)	P_AMBULATION_OUT	No*
Prior (2 weeks ago) disability in bathing (0-5)	P_BATHING_OUT	No*
Prior (2 weeks ago) disability in eating (0-5)	P_EATING_OUT	No*
Prior (2 weeks ago) disability in grooming (0-3)	P_GROOMING_OUT	No*
Prior (2 weeks ago) disability in housekeeping (0-4)	P_HOUSEKEEPING_OUT	No*
Prior (2 weeks ago) disability in laundry (0-2)	P_LAUNDRY_OUT	No*
Prior (2 weeks ago) disability in dressing lower body (0-3)	P_LOWERDRESS_OUT	No*
Prior (2 weeks ago) disability in light meal preparation (0-2)	P_MEALPREP_OUT	No*
Prior (2 weeks ago) disability in mgt. of oral medications (0-2)	P_ORALMEDS_OUT	No*
Prior (2 weeks ago) disability in telephone use (0-5)	P_PHONEUSE_OUT	No*
Prior (2 weeks ago) disability in shopping (0-3)	P_SHOPPING_OUT	No*
Prior (2 weeks ago) disability in toileting (0-4)	P_TOILETING_OUT	No*
Prior (2 weeks ago) disability in transportation (0-2)	P_TRANSFERRING_OUT	No*
Prior (2 weeks ago) disability in transferring (0-5)	P_TRANSPORT_OUT	No*
Prior (2 weeks ago) disability in dressing upper body (0-3)	P_UPPERDRESS_OUT	No*
Pain interfering with activity (0-3)	PAIN	Yes
Medicare as a payment source (0-1)	PAY_1	Yes
Disability in telephone use (0-5)	PHONEUSE	Yes
Stage 1-4 pressure ulcer(s) present (0-1)	PRESSURE	Yes
Status of most problematic pressure ulcer (0-3)	PRESSURESTATUS	No
Stage of most problematic pressure ulcer (0-4)	PRESSUREULCER	No
Urinary incontinence with past 2 weeks (0-1)	PRIOR_1	No
Urinary catheter within past 2 weeks (0-1)	PRIOR_2	No
Intractable pain within past 2 weeks (0-1)	PRIOR_3	No
Impaired decision-making within past 2 weeks (0-1)	PRIOR_4	No
Disruptive/socially inappropriate behavior, past 2 weeks (0-1)	PRIOR_5	No
Memory loss requiring supervision within past 2 weeks (0-1)	PRIOR_6	No
Behavior problem frequency (0-5)	PROBFREQ	No
Moderate functional status recovery prognosis (0-1)	PROG	Yes
Good functional status rehabilitation prognosis (0-1)	REHAB	Yes
Patient lives in own home (0-1)	RESIDE_1	Yes
Heavy smoking at SOC (0-1)	RISK_1	No
Obese at SOC (0-1)	RISK_2	No
Alcoholism at SOC (0-1)	RISK_3	No
Drug dependency at SOC (0-1)	RISK_4	No
Intervening inpatient care (0-1)	ROCIND	No
Severity rating for primary diagnosis (0-4)	SEVERITY	No
Number of diagnoses with severity rating > 2 (0-6)	SEVERITY2	No
Disability in shopping (0-3)	SHOPPING	Yes
Speech/language impairment (0-5)	SPEECH	Yes

RISK FACTOR TRANSFORMATION DOCUMENTATION

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

[#] 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

```
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]
```

RISK FACTOR TRANSFORMATION DOCUMENTATION

Diagnostic Groupings

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

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

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

RISK FACTOR TRANSFORMATION DOCUMENTATION

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

RISK FACTOR TRANSFORMATION DOCUMENTATION

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

RISK FACTOR TRANSFORMATION DOCUMENTATION

ELSE IF M0360_PRIMARY_CAREGIVER = UK
THEN
    ANYPRIMARY = MISSING
ELSE IF M0350_AP_UNKNOWN = 1
THEN
    ANYPRIMARY = MISSING
ELSE
    ANYPRIMARY = MISSING   **'[SHOULD NEVER OCCUR]**

Acute Condition: Other (ACUTE_16)

The following references apply for the ACUTE_16 transformation.

Data Item	Reference
M0170_DC_HOSP_14_DAYS OR	
M0175_DC_HOSP_14_DAYS	DISCHARGE1
M0170_DC_REHAB_14_DAYS OR	
M0175_DC_REHAB_14_DAYS	DISCHARGE2
M0170_DC_NURS_HOME_14_DAYS OR	
M0175_DC_SNF_14_DAYS OR	
M0175_DC_NH_14_DAYS	DISCHARGE3
M0190_14_DAY_INP1_ICD.....................	DISICD1
M0190_14_DAY_INP2_ICD.....................	DISICD2
M0200_REG_CHG_14_DAYS.................	REGIMEN
M0210_CHGREG_ICD1	REGICD1
M0210_CHGREG_ICD2	REGICD2
M0210_CHGREG_ICD3	REGICD3
M0210_CHGREG_ICD4	REGICD4

ICD-9 Codes	Reference
170-171, 213, 274, 710-739, 781, 800-848, 885-887, 895-897, 905, 927-928........................	GROUP1
045-049, 191-192, 225, 320-326, 330-337, 340-359, 430-438, 850-854, 907, 950-957	GROUP2
707, 870-884, 890-894, 940-949.......................	GROUP3
391, 393-398, 401-405, 410-417, 420-429, 440-448, 451-455, 456-459, 785........................	GROUP4
011-012, 160-165, 197, 212, 231, 460-466, 470-478, 480-487, 490-496, 500-508, 510-519, 786, 860-862	GROUP5
001-009, 127, 129, 150-154, 156, 159, 211, 230, 530-537, 550-553, 555-558, 560-579, 787, 863...	GROUP6
001-018, 020-027, 030-037, 039-057, 060-066, 070-088, 090-104, 110-118, 120-136	GROUP7
290-319, 797	GROUP8
250...	GROUP9

RISK FACTOR TRANSFORMATION DOCUMENTATION

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 ((DISCHARGE1 = 1 OR DISCHARGE2 = 1 OR DISCHARGE3 = 1) AND
(DISICD1 **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_PHYSICAL = 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   **'[SHOULD NEVER OCCUR]**
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_UNKNOWN = 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 = 00, UK OR
    M0350_AP_NONE = 1 OR M0350_AP_UNKNOWN = 1) AND
    (M0380_CA_IADL = 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]**

RISK FACTOR TRANSFORMATION DOCUMENTATION

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]**

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]**

RISK FACTOR TRANSFORMATION DOCUMENTATION

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_GROOMING

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

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

ELSE
    IF M0220_PRIOR_UR_INCON = 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_UR_INCON = 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_CATH = 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_CATH = 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_INTRACT_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_INTRACT_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_IMPR_DECSN = 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_IMPR_DECSN = 0 OR (((M0170_NONE_14_DAYS = 1 OR M0175_NONE_14_DAYS = 1) AND M0200_REG_CHG_14_DAYS = 0) AND M0610_BD_IMP_DECSN = 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]**

RISK FACTOR TRANSFORMATION DOCUMENTATION

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

RISK FACTOR TRANSFORMATION DOCUMENTATION

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

RISK FACTOR TRANSFORMATION DOCUMENTATION

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_TRANSFERRING_OUT = P_TRANSFERRING_OUT
ERO_P_TRANSPORT_OUT = P_TRANSPORT_OUT
ERO_P_UPPERDRESS_OUT = P_UPPERDRESS_OUT
ERO_PAIN = PAIN
ERO_PAY_1 = PAY_1
ERO_PHONEUSE = PHONEUSE
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

RISK FACTOR TRANSFORMATION DOCUMENTATION

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

RISK FACTOR TRANSFORMATION DOCUMENTATION

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

RISK FACTOR TRANSFORMATION DOCUMENTATION

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_INTPAIN IS MISSING
THEN
     ERO_INTPAIN = 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

RISK FACTOR TRANSFORMATION DOCUMENTATION

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

RISK FACTOR TRANSFORMATION DOCUMENTATION

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_STASISSTATUS IS MISSING
THEN
    ERO_STASISSTATUS = 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

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

```
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_DYSPNEA = DYSPNEA
UTIL_EATING = EATING
UTIL_FREQASST = FREQASST
UTIL_GENDER = GENDER
UTIL_GROOMING = GROOMING
UTIL_HEARING = HEARING
UTIL_HOUSEKEEPING = HOUSEKEEPING
UTIL_INCONT = INCONT
UTIL_INCONTBASE = INCONTBASE
UTIL_INCONTCATH = INCONTCATH
UTIL_INCONTSEV = INCONTSEV
```

UTIL_INPT_1 = INPT_1
UTIL_INPT_2 = INPT_2
UTIL_INPT_3 = INPT_3
UTIL_INTPAIN = INTPAIN
UTIL_LAUNDRY = LAUNDRY
UTIL_LIVE_1 = LIVE_1
UTIL_LIVE_2 = LIVE_2
UTIL_LOS_4MO = LOS_4MO
UTIL_LOSGT31 = LOSGT31
UTIL_LOSGT62 = LOSGT62
UTIL_LOWERDRESS = LOWERDRESS
UTIL_MAXIMUMSEV = MAXIMUMSEV
UTIL_MEALPREP = MEALPREP
UTIL_MEDREG = MEDREG
UTIL_NEWASSIST = NEWASSIST
UTIL_ORALMEDS = ORALMEDS
UTIL_OSTOMY = OSTOMY
UTIL_P_AMBULATION_OUT = P_AMBULATION_OUT
UTIL_P_BATHING_OUT = P_BATHING_OUT
UTIL_P_EATING_OUT = P_EATING_OUT
UTIL_P_GROOMING_OUT = P_GROOMING_OUT
UTIL_P_HOUSEKEEPING_OUT = P_HOUSEKEEPING_OUT
UTIL_P_LAUNDRY_OUT = P_LAUNDRY_OUT
UTIL_P_LOWERDRESS_OUT = P_LOWERDRESS_OUT
UTIL_P_MEALPREP_OUT = P_MEALPREP_OUT
UTIL_P_ORALMEDS_OUT = P_ORALMEDS_OUT
UTIL_P_PHONEUSE_OUT = P_PHONEUSE_OUT
UTIL_P_SHOPPING_OUT = P_SHOPPING_OUT
UTIL_P_TOILETING_OUT = P_TOILETING_OUT
UTIL_P_TRANSFERRING_OUT = P_TRANSFERRING_OUT
UTIL_P_TRANSPORT_OUT = P_TRANSPORT_OUT
UTIL_P_UPPERDRESS_OUT = P_UPPERDRESS_OUT
UTIL_PAIN = PAIN
UTIL_PAY_1 = PAY_1
UTIL_PHONEUSE = PHONEUSE
UTIL_PRESSURE = PRESSURE
UTIL_PRESSURESTATUS = PRESSURESTATUS
UTIL_PRESSUREULCER = PRESSUREULCER
UTIL_PRIOR_1 = PRIOR_1
UTIL_PRIOR_2 = PRIOR_2
UTIL_PRIOR_3 = PRIOR_3
UTIL_PRIOR_4 = PRIOR_4
UTIL_PRIOR_5 = PRIOR_5
UTIL_PRIOR_6 = PRIOR_6
UTIL_PROBFREQ = PROBFREQ
UTIL_PROG = PROG
UTIL_REHAB = REHAB
UTIL_RESIDE_1 = RESIDE_1
UTIL_RISK_1 = RISK_1
UTIL_RISK_2 = RISK_2
UTIL_RISK_3 = RISK_3
UTIL_RISK_4 = RISK_4
UTIL_ROCIND = ROCIND

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_TRANSFERRING = 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

RISK FACTOR TRANSFORMATION DOCUMENTATION

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

RISK FACTOR TRANSFORMATION DOCUMENTATION

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

RISK FACTOR TRANSFORMATION DOCUMENTATION

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

RISK FACTOR TRANSFORMATION DOCUMENTATION

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

RISK FACTOR TRANSFORMATION DOCUMENTATION

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

RISK FACTOR TRANSFORMATION DOCUMENTATION

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

RISK FACTOR TRANSFORMATION DOCUMENTATION

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