

**HOME HEALTH AGENCY PATIENT OUTCOME REPORTS:
TECHNICAL DOCUMENTATION OF RISK FACTORS**

Revision 1
September 2014

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

Prepared by:

David F. Hittle
Eugene J. Nuccio

University of Colorado School of Medicine
Division of Health Care Policy and Research
Aurora, Colorado

Revision History

Original Publication: August 2013

Revision 1: September 2014

1. Changed the descriptive and short measure names of the home care diagnosis group “Iatrogenic conditions” (HC_DX_IATROGENIC) to “Adverse reactions and complications” (HC_DX_ADV_REACT), to conform with a change made in the HHA Patient-Related Conditions Report.
2. The entries in the table of descriptive risk factor measure names and short measure names for confusion frequency have been updated. The published risk models had included descriptive risk factor names that corresponded to the short measure names of CONF1, CONF2, and CONF3 risk factors. However, the risk factors used were actually CONF2, CONF3, and CONF4. The initial version of the transformation specifications used the erroneous descriptive risk factor names so that the documentation could be used with the risk model documentation posted at that time. In this version, the correct descriptive risk factor names are used, in anticipation of an update to the risk model documentation to correct the error.

CONTENTS

<u>Section</u>	<u>Page</u>
Introduction	1
Risk Adjustment Methodology	1
Risk Factors Used in Prediction Models	1
Transformation Documentation for Risk Factors not on the Home Health Agency	
Patient-Related Characteristics Report	11
Risk Factors that Are Calculated from Measures on the Home Health Agency Patient-Related Characteristics Report	11
Age: 18 - 64: NEW_AGE1.....	11
Age: 75 - 84: NEW_AGE3.....	11
Age: 85 and over : NEW_AGE4	11
Ambulation/Locomotion: One-handed device on all surfaces : NEW_AMB1..	12
Ambulation/Locomotion: Two-handed device/human assist on steps : NEW_AMB2	12
Ambulation/Locomotion: Walks only with supervision or assist : NEW_AMB3	12
Ambulation/Locomotion: Chairfast or bedfast : NEW_AMB456.....	12
Anxiety: None of the time : ANX0.....	12
Anxiety: Less often than daily : ANX1.....	12
Anxiety: Daily, but not constantly : ANX2.....	12
Anxiety: All of the time : ANX3.....	12
Bathing: Independently in shower/tub : BATH0.....	12
Bathing: With the use of devices in shower/tub : BATH1.....	12
Bathing: With intermittent assistance in shower/tub : BATH2	12
Bathing: Participates with supervision in shower/tub : BATH3	12
Bathing: Independent at sink, in chair, or on commode : BATH4.....	12
Bathing: Participates with assist at sink, in chair, or commode : BATH5.....	12
Bathing: Unable to participate; bathed totally by another : BATH6.....	12
Frequency of Disruptive Behavior: Once a month : BEHPFR2	13
Frequency of Disruptive Behavior: Several times each month : BEHPFR3.....	13
Frequency of Disruptive Behavior: Several times a week : BEHPFR4	13
Frequency of Disruptive Behavior: Once a month or less : NEW_BEHPFR12 .	13
Frequency of Disruptive Behavior: Several times a month : NEW_BEHPFR3.	13
Frequency of Disruptive Behavior: Several times a week : NEW_BEHPFR4 ...	13
Frequency of Disruptive Behavior: At least once daily : NEW_BEHPFR5.....	13
Bowel Incontinence Frequency: 1 - 3 times a week : BWL_FR2	13
Bowel Incontinence Frequency: 4 - 6 times a week or more : BWL_FR3	13
Bowel Incontinence Frequency: On a daily basis : BWL_FR4	13

Bowel Incontinence Frequency: More often than once daily : BWL_FR5.....	13
Bowel Incontinence Frequency: Less than once a week : NEW_BWL_FR1	13
Bowel Incontinence Frequency: One to three times a week : NEW_BWL_FR2	13
Bowel Incontinence Frequency: Four to six times a week or more : NEW_BWL_FR345	13
Frequency of ADL /IADL Assistance: Three or more times per week : CGASST2	13
Frequency of ADL/IADL Assistance: One or two times per week : CGASST3	13
Frequency of ADL /IADL Assistance: Received less than weekly : CGASST4.	14
Cognitive Functioning: Alert and focused : COGFN0	14
Cognitive Functioning: Requires prompting under stress : COGFN1	14
Cognitive Functioning: Requires assist in special circumstances : COGFN2 ...	14
Cognitive Functioning: Requires prompting under stress : NEW_COGN1	14
Cognitive Functioning: Requires assist in special circumstances : NEW_COGN2	14
Cognitive Function: Requires considerable assist/totally dependent : NEW_COGN34	14
Confusion: On awakening or at night only : CONF2	14
Confusion: During the day and evening, but not constantly : CONF3.....	14
Confusion: Constantly : CONF4	14
Confused: In new or complex situations : NEW_CONF1	14
Confused: Sometimes : NEW_CONF23.....	14
Confused: Constantly : NEW_CONF4.....	14
Dyspnea: Moderate exertion : DYSP2	15
Dyspnea: Minimal exertion : DYSP3	15
Dyspnea: At rest : DYSP4.....	15
Dyspnea: Walking more than 20 feet, climbing stairs : NEW_DYSP1	15
Dyspnea: Moderate exertion : NEW_DYSP2	15
Dyspnea: Minimal to no exertion : NEW_DYSP34	15
Eating: Unable to feed self and must be assisted throughout meal : EAT2	15
Eating: Receives nutrients orally and through tube : EAT3	15
Eating: Only receives nutrients through tube : EAT4.....	15
Eating: Unable to take nutrients orally or by tube : EAT5	15
Eating: Requires set up, intermittent assist or modified consistency : NEW_EAT1	15
Eating: Unable to feed self and must be assisted throughout meal : NEW_EAT2	15
Eating: Requires tube feedings, or no nutrients orally or via tube : NEW_EAT345.....	15
Grooming: Able to groom self unaided : GROOM0	15

Grooming: Grooming utensils must be placed within reach : GROOM1.....	15
Grooming: Assistance needed : GROOM2.....	15
Grooming: Entirely dependent upon someone else : GROOM3.....	15
Hearing: Mildly to moderately impaired : HEAR1.....	16
Hearing: Severely impaired : HEAR2	16
Urinary Incontinence: Night only : INCONT_FR2	16
Urinary Incontinence: Day only : INCONT_FR3	16
Urinary Incontinence: Day and night : INCONT_FR4	16
Urinary Incontinence: Occasional stress incontinence : NEW_INCONT_FR1 .	16
Urinary Incontinence: Day or night : NEW_INCONT_FR23	16
Urinary Incontinence: Day and night : NEW_INCONT_FR4	16
Ability to Dress Lower Body: Needs clothing/shoes laid out : LOWER1.....	16
Ability to Dress Lower Body: Assist needed putting on clothing : LOWER2 ..	16
Ability to Dress Lower Body: Entirely dependent upon someone else : LOWER3.....	16
Meal prep: Independently able to plan/prepare light meals : MEAL_PREP0 ..	16
Meal prep: Unable to plan/prepare light meals : MEAL_PREP1	16
Meal prep: Unable to reheat delivered meals : MEAL_PREP2	16
Patient Overall Status: Temporary high health risk : O_STAT1	16
Patient Overall Status: Fragile health : O_STAT2	16
Patient Overall Status: Serious progressive conditions : O_STAT3.....	17
Management of Oral Meds: Independent : ORMED0	17
Management of Oral Meds: Advance dose prep/chart needed : ORMED1	17
Management of Oral Meds: Reminders needed : ORMED2.....	17
Management of Oral Meds: Unable : ORMED3	17
Frequency of Pain: Pain does not interfere with activity : PAIN1	17
Frequency of Pain: Less often than daily : PAIN2.....	17
Frequency of Pain: Daily, but not constant : PAIN3.....	17
Frequency of Pain: Constant : PAIN4	17
Use of Telephone: Able to use specially adapted telephone : PHONE1.....	17
Use of Telephone: Able to answer but difficulty placing calls : PHONE2	17
Use of Telephone: Limited ability to answer or converse : PHONE3	17
Use of Telephone: Unable to answer but listens with assistance : PHONE4	17
Use of Telephone: Totally unable : PHONE5	17
PHQ-2 Depression: Several days in past 2 weeks : PHQ2DEP1	17
PHQ-2 Depression: More than half of days in past 2 weeks : PHQ2DEP2	17
PHQ-2 Depression: Nearly every day in past 2 weeks : PHQ2DEP3.....	17
PHQ-2 Loss of Interest: Several days in past 2 weeks : PHQ2INT1	17
PHQ-2 Loss of Interest: More than half of days in past 2 weeks : PHQ2INT2 .	18
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks : PHQ2INT3.....	18

Depression Screen Positive : NEW_DPRSSN	18
Number of Unstageable Pressure Ulcer(s): 1: PUNS_1	18
Number of Unstageable Pressure Ulcer(s): 2: PUNS_2	18
Number of Unstageable Pressure Ulcer(s): 3: PUNS_3	18
Number of Unstageable Pressure Ulcer(s): 4 or more : PUNS_4	18
Number of Stage II Pressure Ulcers(s): 1: PUS2_1	18
Number of Stage II Pressure Ulcers(s): 2: PUS2_2	18
Number of Stage II Pressure Ulcers(s): 3: PUS2_3	18
Number of Stage II Pressure Ulcers(s): 4 or more : PUS2_4	18
Number of Stage III Pressure Ulcers(s): 1: PUS3_1	18
Number of Stage III Pressure Ulcers(s): 2: PUS3_2	18
Number of Stage III Pressure Ulcers(s): 3: PUS3_3	18
Number of Stage III Pressure Ulcers(s): 4 or more : PUS3_4	18
Number of Stage IV Pressure Ulcer(s): 1: PUS4_1	18
Number of Stage IV Pressure Ulcer(s): 2: PUS4_2	18
Number of Stage IV Pressure Ulcer(s): 3: PUS4_3	18
Number of Stage IV Pressure Ulcer(s): 4 or more : PUS4_4	18
Pressure Ulcer: Unstageable ulcer(s) present : PU_NotStg.....	19
Pressure Ulcer: Stage II ulcer(s) present : PU_Stg2.....	19
Pressure Ulcer: Stage III ulcer(s) present : PU_Stg3.....	19
Pressure Ulcer: Stage IV ulcer(s) present : PU_Stg4	19
Pressure Ulcer Present: Total Number Stage II or higher : PU_TltAllStg	19
Pressure Ulcer: Stage III or IV : PU_Any34	19
Difficulty in Speech: No observable impairment : SPEECH0	19
Difficulty in Speech: Minimal : SPEECH1	19
Difficulty in Speech: Moderate : SPEECH2	19
Difficulty in Speech: Severe difficulty : SPEECH3	19
Difficulty in Speech: Unable to express basic needs : SPEECH4	19
Difficulty in Speech: Minimal : NEW_SPEECH1	19
Difficulty in Speech: Moderate : NEW_SPEECH2	19
Difficulty in Speech: Severe to nonresponsive : NEW_SPEECH345	19
Status of Surgical Wound: Fully granulating : SRGSTAT1.....	19
Status of Surgical Wound: Early/partial granulation : SRGSTAT2	19
Status of Surgical Wound: Not healing : SRGSTAT3.....	20
Status of Stasis Ulcer: Fully granulating : SUSTAT1	20
Status of Stasis Ulcer: Early/partial granulation : SUSTAT2	20
Status of Stasis Ulcer: Not healing : SUSTAT3	20
Number of therapy visits: 1 - 2 : THER_ALT1.....	20
Number of therapy visits: 11 - 12: THER_ALT11.....	20
Number of therapy visits: 13 - 14: THER_ALT13.....	20

Number of therapy visits: 15 - 16: THER_ALT15.....	20
Number of therapy visits: 17 - 18: THER_ALT17.....	20
Number of therapy visits: 19 +: THER_ALT19	20
Number of therapy visits: 3 - 4: THER_ALT3.....	20
Number of therapy visits: 5 - 6: THER_ALT5.....	20
Number of therapy visits: 7 - 8: THER_ALT7.....	20
Number of therapy visits: 9 - 10: THER_ALT9.....	20
Therapy Amounts: High : THER_HIGH_GT13.....	20
Therapy Amounts: Low : THER_LOW_LT5.....	20
Therapy Amounts: Medium : THER_MED_5_13.....	20
Toilet Hygiene Assistance: None needed : TLTHYG0	20
Toilet Hygiene Assistance: Needs assistance : TLTHYG2	20
Toilet Hygiene Assistance: Entirely dependent : TLTHYG3	21
Toilet Transferring: To/from/on/off toilet independently : TLTTRN0	21
Toilet Transferring: To/from/on/off toilet with human assist : TLTTRN1.....	21
Toilet Transferring: Able to self-transfer to bedside commode : TLTTRN2	21
Toilet Transferring: Able to use bedpan/urinal independently : TLTTRN3	21
Toilet Transferring: Entirely dependent : TLTTRN4	21
Toilet Transferring: To/from/on/off toilet with human assist : NEW_TLTTRN1	21
Toilet Transferring: Able to self-transfer to bedside commode : NEW_TLTTRN2.....	21
Toilet Transferring: Unable to transfer to/from toilet or commode : NEW_TLTTRN34	21
Transferring: Independent : TRNFR0	21
Transferring: With minimal human assistance or with device : TRNFR1	21
Transferring: Bears weight and pivots only : TRNFR2	21
Transferring: Unable to bear weight : TRNFR3.....	21
Transferring: Bedfast, but able to reposition in bed : TRNFR4	21
Transferring: Bedfast : TRNFR5.....	21
Transferring: With minimal human assist or with device : NEW_TRNFR1	21
Transferring: Bears weight and pivots only : NEW_TRNFR2.....	21
Transferring: Unable or bedfast : NEW_TRNFR345.....	21
Ability to Dress Upper Body: Needs clothing laid out : UPPER1	21
Ability to Dress Upper Body: Needs assistance putting on clothing : UPPER222	
Ability to Dress Upper Body: Entirely dependent upon someone else : UPPER3	22
Verbal Understanding: Most of the time : VERBAL1	22
Verbal Understanding: Sometimes : VERBAL2.....	22
Verbal Understanding: Rarely or never : VERBAL3.....	22

Vision: Partially impaired : VISION1.....	22
Vision: Severely impaired : VISION2.....	22
Risk Factors that Are Calculated Directly from OASIS Data.....	22
Start of Care - Further visits planned : EPIS_SOC	22
Discharged from inpatient setting within past 14 days : INPAT_DC	22
Lives alone with round the clock assistance : M1100_LIVSTAT1.....	22
Lives alone with regular daytime assistance : M1100_LIVSTAT2.....	22
Lives alone with occasional/short term assistance : M1100_LIVSTAT4	22
Lives alone with no assistance : M1100_LIVSTAT5.....	22
Lives with other person(s) with around the clock assistance : M1100_LIVSTAT6.....	22
Lives with other person(s) with regular daytime assistance : M1100_LIVSTAT7	22
Lives with other person(s) with regular nighttime assistance : M1100_LIVSTAT8.....	23
Lives with other person(s) with occasional/short term assistance : M1100_LIVSTAT9	23
Lives in congregate situation with around the clock assistance : M1100_LIVSTAT11	23
Lives in congregate situation with regular daytime assistance : M1100_LIVSTAT12.....	23
Lives in congregate situation with regular nighttime assistance : M1100_LIVSTAT13.....	23
Lives in congregate situation - occasional/short term assistance : M1100_LIVSTAT14.....	23
Urinary incontinence/catheter: Incontinent : M1610_URINCONT1	23
Urinary incontinence/catheter: Catheter : M1610_URINCONT2	23
Pressure Ulcer: None present : PU_None.....	23

TABLES AND FIGURES

	<u>Page</u>
Table 1: Risk Factors from Home Health Agency Patient-Related Characteristics Report ¹	2
Table 2: Additional Risk Factors not on Home Health Agency Patient-Related Characteristics Report	6

INTRODUCTION

The Centers for Medicare and Medicaid Services maintains a home health agency patient outcome reporting system for the multiple purposes, including quality improvement by individual home health agencies, quality monitoring by state certification agencies, and consumer-oriented quality reporting on the Home Health Compare web site. Values for all patient outcome measures are reported with risk adjustment to take into account differences in the characteristics of patients prior to admission to home health care.

Risk Adjustment Methodology

The risk adjustment methodology used is based on logistic regression analysis which results in a statistical prediction model for each outcome measure. For each home health agency patient who is included in the denominator of the outcome measure, the model is used to calculate the predicted probability that the patient will experience the outcome. The predicted probability for a patient is calculated using the following formula:

$$P(x) = 1/(1 + e^{-(a + \sum(b_i x_i))})$$

Where:

$P(x)$ = predicted probability of achieving outcome x

a = constant parameter listed in the model documentation

b_i = coefficient for risk factor i in the model documentation

x_i = value of risk factor i for this patient

Predicted probabilities for all patients included in the measure denominator are then averaged to derive an expected outcome value for the agency. This expected value is then used, together with the observed (unadjusted) outcome value and the expected value for the national population of home health agency patients for the same data collection period, to calculate a risk-adjusted outcome value for the home health agency. The formula for the adjusted value of the outcome measure is as follows:

$$X(A_{ra}) = X(A_{obs}) + X(N_{exp}) - X(A_{exp})$$

Where:

$X(A_{ra})$ = Agency risk-adjusted outcome measure value

$X(A_{obs})$ = Agency observed outcome measure value

$X(A_{exp})$ = Agency expected outcome measure value

$X(N_{exp})$ = National expected outcome measure value

If the result of this calculation is a value greater than 100%, the adjusted value is set to 100%. Similarly, if the result is a negative number the adjusted value is set to zero.

Risk Factors Used in Prediction Models

Parameters of risk adjustment models for all outcome measures are documented in “Home Health Agency Quality Measures: Logistic Regression Models for Risk Adjustment”, available at <http://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/HomeHealthQualityInits/HHQIQualityMeasures.html> under “Downloads”. The risk factors used in the prediction models are derived from OASIS data collected during the start of

care or resumption of care assessment. A subset of the risk factors are also presented in a descriptive report entitled the Agency Patient-Related Characteristics Report. These risk factors are listed in Table 1, and documented in “Home Health Agency Patient-Related Characteristics Reports: Technical Documentation of Measures”, also available at <http://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/HomeHealthQualityInits/HHQIQualityMeasures.html> under “Downloads”. As noted in the table footnote, when measures have missing values on the Patient-Related Characteristics Report, those measures are treated as having a value of zero (0), indicating the absence of a trait or condition for the purposes of risk adjustment. Additional risk factors that do not appear on that report are listed in Table 2. Specifications for calculating these risk factors, either from the measures specified for the Agency Patient-Related Characteristics Report or from OASIS items in the start of care or resumption of care assessment, follow Table 2. *Note: In the documentation of measures for the HHA Patient-Related Characteristics Report, specifications are included for calculating measures when the start/resumption of care assessment is done using OASIS-C, and, for items that have changed with implementation of OASIS-C1/ICD-9 VERSION, separate specifications are included to be used when the start/resumption of care assessment is done using OASIS-C1/ICD-9 VERSION. All of the specifications in this document apply to both situations. As long as the measures that appear on the HHA Patient-Related Characteristics Report are calculated using the correct specifications for the version of OASIS used for the start/resumption of care assessment, the specifications in this document will apply.*

Table 1: Risk Factors from Home Health Agency Patient-Related Characteristics Report¹

Descriptive Name from Risk Model Documentation	Short Measure Name
Acute condition: Cardiac/peripheral vascular	ACUTE_CARDIO
Acute condition: Contagious/communicable disease	ACUTE_CONTAGIOUS
Acute condition: Diabetes mellitus	ACUTE_DIABETES
Acute condition: Enteral/parenteral nutrition	ACUTE_ENT_PAR_NUTRI
Acute condition: Gastrointestinal disorder	ACUTE_GI
Acute condition: Urinary incontinence	ACUTE_INCONT
Acute Condition: IV Therapies	ACUTE_IV
Acute condition: Pulmonary	ACUTE_LUNG
Acute condition: Neurologic	ACUTE_NEURO
Acute condition: Oxygen therapy	ACUTE_O2
Acute condition: Orthopedic	ACUTE_ORTHO
Acute Condition: Mental/Emotional	ACUTE_PSYCH
Acute condition: Open wound/lesion	ACUTE_WOUND
ADL Assistance: Caregiver provides	ADL_CG_PROVIDES
ADL Assistance: Uncertain/unlikely to be provided	ADL_CG_UNCERTAIN
ADL Assistance: Caregiver training/support needed	ADL_NEED_TRAINING
ADL Assistance: None needed	ADL_NONE_NEEDED
Advocacy Assistance: Uncertain/unlikely to be provided	ADVCY_CG_UNCERTAIN
Advocacy Assistance: Caregiver training/support needed	ADVCY_NEED_TRAINING
Advocacy Assistance: None Needed	ADVCY_NONE_NEEDED
Behavioral: Physical aggression to self/others	AGGRESSION
Chronic Conditions: Chronic patient with caregiver	CHRONIC_ANY_W_CG
Chronic Conditions: Urinary incontinence or catheter	CHRONIC_INCONT_CATH

Table 1: Risk Factors from Agency Patient-Related Characteristics Report (continued)

Descriptive Name from Risk Model Documentation	Short Measure Name
Chronic Conditions: Dependence in living skills	CHRONIC_LIV_SKILL
Chronic Conditions: Dependence in medication administration	CHRONIC_MED_ADMIN
Chronic Conditions: Cognitive/mental/behavioral	CHRONIC_MENT_BEHAV
Chronic Conditions: Impaired ambulation/mobility	CHRONIC_MOBILITY
Chronic Conditions: Chronic Pain	CHRONIC_PAIN
Chronic Conditions: Dependence in personal care	CHRONIC_PERS_CARE
Behavioral: Delusions or hallucinations	DELUSIONS
Depression screen indicates need for further evaluation	DEPRESSION
Management of Equipment: Caregiver currently provides	EQUIP_CG_PROVIDES
Management of Equipment: None needed	EQUIP_NONE_NEEDED
Assessment indicates risk for falls	FALL_RISK
Patient is male	GENDER
Home Care Diagnosis: Blood diseases	HC_DX_BLOOD
Home Care Diagnosis: Circulatory system diseases	HC_DX_CIRCULATORY
Home Care Diagnosis: Intracranial injury	HC_DX_CRANIAL
Home Care Diagnosis: Digestive system diseases	HC_DX_DIGESTIVE
Home Care Diagnosis: Endocrine/nutritional/metabolic	HC_DX_ENDOCRINE
Home Care Diagnosis: Fractures	HC_DX_FRACTURE
Home Care Diagnosis: Genitourinary system diseases	HC_DX_GEN_URINARY
Home Care Diagnosis: Adverse effects and complications	HC_DX_ADV_REACT
Home Care Diagnosis: Ill-defined conditions	HC_DX_ILL_DEFINED
Home Care Diagnosis: Other injury	HC_DX_INJURY_OTH
Home Care Diagnosis: Mental diseases	HC_DX_MENTAL
Home Care Diagnosis: Musculoskeletal system diseases	HC_DX_MUSCL_SKEL
Home Care Diagnosis: Neoplasms	HC_DX_NEOPLASM
Home Care Diagnosis: Nervous system diseases	HC_DX_NERVOUS
Home Care Diagnosis: Respiratory system diseases	HC_DX_RESPIRATORY
Home Care Diagnosis: Skin/subcutaneous diseases	HC_DX_SKIN
IADL Assistance: Caregiver currently provides	IADL_CG_PROVIDES
IADL Assistance: Caregiver training/support needed	IADL_NEED_TRAINING
IADL Assistance: None needed	IADL_NONE_NEEDED
Behavioral: Impaired decision making	IMPR_DECISN
Behavioral: Disruptive/inappropriate behavior	INAPPRO_BHV
Urinary incontinence/catheter	INCONT_CATH
Urinary tract infection	UTI
Management of Injectable Medications: None prescribed	INJECT_MED_NA
Discharged from long-term nursing facility (NF) past 14 days	INPT_LTC
Discharged from long-term care hospital (LTCH) past 14 days	INPT_LTHOSP
Discharged from psychiatric hospital/unit past 14 days	INPT_PSYCH
Discharged from inpatient rehab hospital/unit (IRF) past 14 days	INPT_REHAB
Discharged from skilled nursing facility (SNF / TCU) past 14 days	INPT_SNF
Discharged from Short-stay acute hospital (IPP S) past 14 days	INPT_STHOSP
Receiving intravenous or infusion therapy	IVTHER_IV
Receiving parenteral nutrition	IVTHER_PAREN

Table 1: Risk Factors from Agency Patient-Related Characteristics Report (continued)

Descriptive Name from Risk Model Documentation	Short Measure Name
Medication Assistance: Caregiver currently provides	MDCTN_CG_PROVIDES
Medication Assistance: Uncertain/unlikely to be provided	MDCTN_CG_UNCERTAIN
Medication Assistance: Caregiver training/support needed	MDCTN_NEED_TRAINING
Medication Assistance: None needed	MDCTN_NONE_NEEDED
Drug Regimen Review: Problems found	MED_PROBLEM
Change in medical or treatment regimen in past 14 days	MED_REG_CHNG
Behavioral: Memory deficit	MEM_DEFICIT
Respiratory Treatments: Oxygen	OXY_THERAPY
Prior Functioning: Needed assistance with ambulation	P_AMBULATION
Conditions Prior to Treatment: Indwelling/suprapubic catheter	P_CATH
Conditions Prior to Treatment: Disruptive behavior	P_DISRUPTIVE
Prior Functioning: Needed assistance with household tasks	P_HOUSEHOLD
Conditions Prior to Treatment: Impaired decision making	P_IMPR_DECSN
Prior Management of Injectable Meds: Not applicable	P_INJECT_MED_NA
Prior Management of Injectable Meds: Needed assistance	P_INJECT_MEDS
Conditions Prior to Treatment: Intractable pain	P_INTRACT_PAIN
Conditions Prior to Treatment: Severe memory loss	P_MEM_LOSS
Conditions Prior to Treatment: None of listed conditions	P_NONE
Prior Management of Oral Meds: Needed assistance	P_ORAL_MEDS
Prior Functioning: Needed assistance with self care	P_SELF_CARE
Prior Functioning: Needed assistance with transfer	P_TRANSFER
Conditions Prior to Treatment: Urinary incontinence	P_UR_INCON
Payment Source: Medicare, Medicaid, or Private HMO	PAY_HMO
Payment Source: All Medicaid	PAY_MCAID
Payment Source: All Medicare	PAY_MCARE
Payment Source: Medicare HMO	PAY_MCHMO
Payment Source: Any other	PAY_OTHER
Assistance with Medical treatments: Caregiver provides	PRCDR_CG_PROVIDES
Assistance with Medical treatments: Uncertain/unlikely	PRCDR_CG_UNCERTAIN
Assistance with Medical treatments: Needs training/support	PRCDR_NEED_TRAINING
Assistance with Medical treatments: None needed	PRCDR_NONE_NEEDED
Pressure ulcer present: Stage II or higher	PRES_ULC
Pressure ulcer assessment indicates risk	PRES_ULC_RISK
Risk for Hospitalization: Taking five or more medications	RISK_5PLUS_MDCTN
Risk for Hospitalization: Presence of frailty indicators	RISK_FRAILTY
Risk for Hospitalization: History of falls	RISK_HSTRY_FALLS
Risk for Hospitalization: Two or more hospitalizations past year	RISK_MLTPL_HOSPZTN
Risk Factors: None of the listed factors	RISK_NONE
Risk for Hospitalization: Other unlisted risk factors	RISK_OTHR
Risk for Hospitalization: Recent mental/emotional decline	RISK_RCNT_DCLN
Supervision and Safety Assistance: Caregiver currently provides	SPRVSN_CG_PROVIDES
Supervision and Safety Assistance: Uncertain/unlikely to be provided	SPRVSN_CG_UNCERTAIN
Supervision and Safety Assistance: Caregiver training needed	SPRVSN_NEED_TRAINING
Supervision and Safety Assistance: None needed	SPRVSN_NONE_NEEDED

Table 1: Risk Factors from Agency Patient-Related Characteristics Report (continued)

Descriptive Name from Risk Model Documentation	Short Measure Name
Surgical Wound Present	SRGCL_WND
Status of Surgical Wound (0-3)	SRGCL_WND_STAT
Stasis Ulcer Present	STAS_ULCR
Status of Stasis Ulcer (0-3)	STAS_ULCR_STAT
Risk Factors: Smoking	RISK_SMOKING
Risk Factors: Obesity	RISK_OBESITY
Risk Factors: Alcohol dependency	RISK_ALCOHOLISM
Risk Factors: Drug dependency	RISK_DRUGS
Episode Timing: Early	TIME_EARLY
Episode Timing: Later	TIME_LATER
Behavioral: Verbally disruptive/inappropriate	VERBAL_DISRUPT
Skin Lesion or Open Wound	WND_LESION

¹ When a measure has a missing value on the Home Health Agency Patient-Related Characteristics Report, it is recoded to a value of zero (0), indicating the trait or condition is not present, for purposes of risk adjustment.

Table 2: Additional Risk Factors not on Home Health Agency Patient-Related Characteristics Report

Descriptive Measure Name From Risk Model Documentation	Short Measure Name
Age: 18 – 64	NEW_AGE1
Age: 75 – 84	NEW_AGE3
Age: 85 and over	NEW_AGE4
Ambulation/Locomotion: One-handed device on all surfaces	NEW_AMB1
Ambulation/Locomotion: Two-handed device/human assist on steps	NEW_AMB2
Ambulation/Locomotion: Walks only with supervision or assist	NEW_AMB3
Ambulation/Locomotion: Chairfast or bedfast	NEW_AMB456
Anxiety: None of the time	ANX0
Anxiety: Less often than daily	ANX1
Anxiety: Daily, but not constantly	ANX2
Anxiety: All of the time	ANX3
Bathing: Independently in shower/tub	BATH0
Bathing: With the use of devices in shower/tub	BATH1
Bathing: With intermittent assistance in shower/tub	BATH2
Bathing: Participates with supervision in shower/tub	BATH3
Bathing: Independent at sink, in chair, or on commode	BATH4
Bathing: Participates with assist at sink, in chair, or commode	BATH5
Bathing: Unable to participate; bathed totally by another	BATH6
Frequency of Disruptive Behavior: Once a month	BEHPFR2
Frequency of Disruptive Behavior: Several times each month	BEHPFR3
Frequency of Disruptive Behavior: Several times a week	BEHPFR4
Frequency of Disruptive Behavior: Once a month or less	NEW_BEHPFR12
Frequency of Disruptive Behavior: Several times a month	NEW_BEHPFR3
Frequency of Disruptive Behavior: Several times a week	NEW_BEHPFR4
Frequency of Disruptive Behavior: At least once daily	NEW_BEHPFR5
Bowel Incontinence Frequency: 1 - 3 times a week	BWL_FR2
Bowel Incontinence Frequency: 4 - 6 times a week or more	BWL_FR3
Bowel Incontinence Frequency: On a daily basis	BWL_FR4
Bowel Incontinence Frequency: More often than once daily	BWL_FR5
Bowel Incontinence Frequency: Less than once a week	NEW_BWL_FR1
Bowel Incontinence Frequency: One to three times a week	NEW_BWL_FR2
Bowel Incontinence Frequency: Four to six times a week or more	NEW_BWL_FR345
Frequency of ADL /IADL Assistance: At least daily	CGASST1
Frequency of ADL /IADL Assistance: Three or more times per week	CGASST2
Frequency of ADL/IADL Assistance: One or two times per week	CGASST3
Frequency of ADL /IADL Assistance: Received less than weekly	CGASST4
Cognitive Functioning: Alert and focused	COGFN0
Cognitive Functioning: Requires prompting under stress	COGFN1
Cognitive Functioning: Requires assist in special circumstances	COGFN2
Cognitive Functioning: Requires prompting under stress	NEW_COGN1
Cognitive Functioning: Requires assist in special circumstances	NEW_COGN2
Cognitive Function: Requires considerable assist/totally dependent	NEW_COGN34

Table 2: Additional Risk Factors not on Agency Patient-Related Characteristics Report (cont'd.)

Descriptive Measure Name From Risk Model Documentation	Short Measure Name
Confusion: In new or complex situations only	CONF1
Confusion: On awakening or at night only	CONF2
Confusion: During the day and evening, but not constantly	CONF3
Confusion: Constantly	CONF4
Confused: In new or complex situations	NEW_CONF1
Confused: Sometimes	NEW_CONF23
Confused: Constantly	NEW_CONF4
Dyspnea: Moderate exertion	DYSP2
Dyspnea: Minimal exertion	DYSP3
Dyspnea: At rest	DYSP4
Dyspnea: Walking more than 20 feet, climbing stairs	NEW_DYSP1
Dyspnea: Moderate exertion	NEW_DYSP2
Dyspnea: Minimal to no exertion	NEW_DYSP34
Eating: Unable to feed self and must be assisted throughout meal	EAT2
Eating: Receives nutrients orally and through tube	EAT3
Eating: Only receives nutrients through tube	EAT4
Eating: Unable to take nutrients orally or by tube	EAT5
Eating: Requires set up, intermittent assist or modified consistency	NEW_EAT1
Eating: Unable to feed self and must be assisted throughout meal	NEW_EAT2
Eating: Requires tube feedings, or no nutrients orally or via tube	NEW_EAT345
Start of Care - Further visits planned	EPIS_SOC
Grooming: Able to groom self unaided	GROOM0
Grooming: Grooming utensils must be placed within reach	GROOM1
Grooming: Assistance needed	GROOM2
Grooming: Entirely dependent upon someone else	GROOM3
Hearing: Mildly to moderately impaired	HEAR1
Hearing: Severely impaired	HEAR2
Urinary Incontinence: Night only	INCONT_FR2
Urinary Incontinence: Day only	INCONT_FR3
Urinary Incontinence: Day and night	INCONT_FR4
Urinary Incontinence: Occasional stress incontinence	NEW_INCONT_FR1
Urinary Incontinence: Day or night	NEW_INCONT_FR23
Urinary Incontinence: Day and night	NEW_INCONT_FR4
Discharged from inpatient setting within past 14 days	INPAT_DC
Ability to Dress Lower Body: Needs clothing/shoes laid out	LOWER1
Ability to Dress Lower Body: Assist needed putting on clothing	LOWER2
Ability to Dress Lower Body: Entirely dependent upon someone else	LOWER3
Lives alone with round the clock assistance	M1100_LIVSTAT1
Lives alone with regular daytime assistance	M1100_LIVSTAT2
Lives alone with occasional/short term assistance	M1100_LIVSTAT4
Lives alone with no assistance	M1100_LIVSTAT5
Lives with other person(s) with around the clock assistance	M1100_LIVSTAT6
Lives with other person(s) with regular daytime assistance	M1100_LIVSTAT7
Lives with other person(s) with regular nighttime assistance	M1100_LIVSTAT8

Table 2: Additional Risk Factors not on Agency Patient-Related Characteristics Report (cont'd.)

Descriptive Measure Name From Risk Model Documentation	Short Measure Name
Lives with other person(s) with occasional/short term assistance	M1100_LIVSTAT9
Lives in congregate situation with around the clock assistance	M1100_LIVSTAT11
Lives in congregate situation with regular daytime assistance	M1100_LIVSTAT12
Lives in congregate situation with regular nighttime assistance	M1100_LIVSTAT13
Lives in congregate situation - occasional/short term assistance	M1100_LIVSTAT14
Urinary incontinence/catheter: Incontinent	M1610_URINCONT1
Urinary incontinence/catheter: Catheter	M1610_URINCONT2
Meal prep: Independently able to plan/prepare light meals	MEAL_PREP0
Meal prep: Unable to plan/prepare light meals	MEAL_PREP1
Meal prep: Unable to reheat delivered meals	MEAL_PREP2
Patient Overall Status: Temporary high health risk	O_STAT1
Patient Overall Status: Fragile health	O_STAT2
Patient Overall Status: Serious progressive conditions	O_STAT3
Management of Oral Meds: Independent	ORMED0
Management of Oral Meds: Advance dose prep/chart needed	ORMED1
Management of Oral Meds: Reminders needed	ORMED2
Management of Oral Meds: Unable	ORMED3
Frequency of Pain: Pain does not interfere with activity	PAIN1
Frequency of Pain: Less often than daily	PAIN2
Frequency of Pain: Daily, but not constant	PAIN3
Frequency of Pain: Constant	PAIN4
Use of Telephone: Able to make and answer calls	PHONE0
Use of Telephone: Able to use specially adapted telephone	PHONE1
Use of Telephone: Able to answer but difficulty placing calls	PHONE2
Use of Telephone: Limited ability to answer or converse	PHONE3
Use of Telephone: Unable to answer but listens with assistance	PHONE4
Use of Telephone: Totally unable	PHONE5
PHQ-2 Depression: Several days in past 2 weeks	PHQ2DEP1
PHQ-2 Depression: More than half of days in past 2 weeks	PHQ2DEP2
PHQ-2 Depression: Nearly every day in past 2 weeks	PHQ2DEP3
PHQ-2 Loss of Interest: Several days in past 2 weeks	PHQ2INT1
PHQ-2 Loss of Interest: More than half of days in past 2 weeks	PHQ2INT2
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks	PHQ2INT3
Depression Screen Positive	NEW_DPRSSN
Number of Unstageable Pressure Ulcer(s): 1	PUNS_1
Number of Unstageable Pressure Ulcer(s): 2	PUNS_2
Number of Unstageable Pressure Ulcer(s): 3	PUNS_3
Number of Unstageable Pressure Ulcer(s): 4 or more	PUNS_4
Number of Stage II Pressure Ulcers(s): 1	PUS2_1
Number of Stage II Pressure Ulcers(s): 2	PUS2_2
Number of Stage II Pressure Ulcers(s): 3	PUS2_3
Number of Stage II Pressure Ulcers(s): 4 or more	PUS2_4

Table 2: Additional Risk Factors not on Agency Patient-Related Characteristics Report (cont'd.)

Descriptive Measure Name From Risk Model Documentation	Short Measure Name
Number of Stage III Pressure Ulcers(s): 1	PUS3_1
Number of Stage III Pressure Ulcers(s): 2	PUS3_2
Number of Stage III Pressure Ulcers(s): 3	PUS3_3
Number of Stage III Pressure Ulcers(s): 4 or more	PUS3_4
Number of Stage IV Pressure Ulcer(s): 1	PUS4_1
Number of Stage IV Pressure Ulcer(s): 2	PUS4_2
Number of Stage IV Pressure Ulcer(s): 3	PUS4_3
Number of Stage IV Pressure Ulcer(s): 4 or more	PUS4_4
Pressure Ulcer: Unstageable ulcer(s) present	PU_NotStg
Pressure Ulcer: Stage II ulcer(s) present	PU_Stg2
Pressure Ulcer: Stage III ulcer(s) present	PU_Stg3
Pressure Ulcer: Stage IV ulcer(s) present	PU_Stg4
Pressure Ulcer Present: Total Number Stage II or higher	PU_TltAllStg
Pressure Ulcer: Stage III or IV	PU_Any34
Pressure Ulcer: None present	PU_None
Difficulty in Speech: No observable impairment	SPEECH0
Difficulty in Speech: Minimal	SPEECH1
Difficulty in Speech: Moderate	SPEECH2
Difficulty in Speech: Severe difficulty	SPEECH3
Difficulty in Speech: Unable to express basic needs	SPEECH4
Difficulty in Speech: Minimal	NEW_SPEECH1
Difficulty in Speech: Moderate	NEW_SPEECH2
Difficulty in Speech: Severe to nonresponsive	NEW_SPEECH345
Status of Surgical Wound: Fully granulating	SRGSTAT1
Status of Surgical Wound: Early/partial granulation	SRGSTAT2
Status of Surgical Wound: Not healing	SRGSTAT3
Status of Stasis Ulcer: Fully granulating	SUSTAT1
Status of Stasis Ulcer: Early/partial granulation	SUSTAT2
Status of Stasis Ulcer: Not healing	SUSTAT3
Number of therapy visits: 1 - 2	THER_ALT1
Number of therapy visits: 11 – 12	THER_ALT11
Number of therapy visits: 13 – 14	THER_ALT13
Number of therapy visits: 15 – 16	THER_ALT15
Number of therapy visits: 17 – 18	THER_ALT17
Number of therapy visits: 19 +	THER_ALT19
Number of therapy visits: 3 – 4	THER_ALT3
Number of therapy visits: 5 – 6	THER_ALT5
Number of therapy visits: 7 – 8	THER_ALT7
Number of therapy visits: 9 – 10	THER_ALT9
Therapy Amounts: High	THER_HIGH_GT13
Therapy Amounts: Low	THER_LOW_LT5
Therapy Amounts: Medium	THER_MED_5_13

Table 2: Additional Risk Factors not on Agency Patient-Related Characteristics Report (cont'd.)

Descriptive Measure Name From Risk Model Documentation	Short Measure Name
Toilet Hygiene Assistance: None needed	TLTHYG0
Toilet Hygiene Assistance: Needs supplies laid out	TLTHYG1
Toilet Hygiene Assistance: Needs assistance	TLTHYG2
Toilet Hygiene Assistance: Entirely dependent	TLTHYG3
Toilet Transferring: To/from/on/off toilet independently	TLTTRN0
Toilet Transferring: To/from/on/off toilet with human assist	TLTTRN1
Toilet Transferring: Able to self-transfer to bedside commode	TLTTRN2
Toilet Transferring: Able to use bedpan/urinal independently	TLTTRN3
Toilet Transferring: Entirely dependent	TLTTRN4
Toilet Transferring: To/from/on/off toilet with human assist	NEW_TLTTRN1
Toilet Transferring: Able to self-transfer to bedside commode	NEW_TLTTRN2
Toilet Transferring: Unable to transfer to/from toilet or commode	NEW_TLTTRN34
Transferring: Independent	TRNFR0
Transferring: With minimal human assistance or with device	TRNFR1
Transferring: Bears weight and pivots only	TRNFR2
Transferring: Unable to bear weight	TRNFR3
Transferring: Bedfast, but able to reposition in bed	TRNFR4
Transferring: Bedfast	TRNFR5
Transferring: With minimal human assist or with device	NEW_TRNFR1
Transferring: Bears weight and pivots only	NEW_TRNFR2
Transferring: Unable or bedfast	NEW_TRNFR345
Ability to Dress Upper Body: Needs clothing laid out	UPPER1
Ability to Dress Upper Body: Needs assistance putting on clothing	UPPER2
Ability to Dress Upper Body: Entirely dependent upon someone else	UPPER3
Verbal Understanding: Most of the time	VERBAL1
Verbal Understanding: Sometimes	VERBAL2
Verbal Understanding: Rarely or never	VERBAL3
Vision: Partially impaired	VISION1
Vision: Severely impaired	VISION2

TRANSFORMATION DOCUMENTATION FOR RISK FACTORS NOT ON THE HOME HEALTH AGENCY PATIENT-RELATED CHARACTERISTICS REPORT

In the documentation below, the short measure name is displayed for each measure, followed by either the descriptive measure name from the risk model documentation, or an asterisk, and the technical specifications for calculating the measure. An asterisk indicates that the measure is not directly used as a risk factor but it is used in the calculation of a risk factor, or that it is a dummy variable for a level or category not included in the prediction equation because it is an omitted or reference category for the logistic regression equation.

The transformation documentation references a combination of short measure names from the Agency Patient-Related Characteristics documentation and OASIS-C field names. A “[1]” after the field name indicates that the value is taken from the start of care or resumption of care assessment that begins the episode of care.

Risk Factors that Are Calculated from Measures on the Home Health Agency Patient-Related Characteristics Report

```
AGE_GR1 *
    IF (AGE >= 18 AND AGE<= 64) THEN AGE_GR1=1 ELSE AGE_GR1=0
AGE_GR2 *
    IF (AGE >= 65 AND AGE<= 69) THEN AGE_GR2=1 ELSE AGE_GR2=0
AGE_GR3 *
    IF (AGE >= 70 AND AGE<= 74) THEN AGE_GR3=1 ELSE AGE_GR3=0
AGE_GR4 *
    IF (AGE >= 75 AND AGE<= 79) THEN AGE_GR4=1 ELSE AGE_GR4=0
AGE_GR5 *
    IF (AGE >= 80 AND AGE<= 84) THEN AGE_GR5=1 ELSE AGE_GR5=0
AGE_GR6 *
    IF (AGE >= 85 AND AGE<= 89) THEN AGE_GR6=1 ELSE AGE_GR6=0
AGE_GR7 *
    IF (AGE >= 90 AND AGE<= 94) THEN AGE_GR7=1 ELSE AGE_GR7=0
AGE_GR8 *
    IF (AGE >= 95) THEN AGE_GR8=1 ELSE AGE_GR8=0
Age: 18 - 64: NEW AGE1
    IF (AGE_GR1 = 1) THEN NEW_AGE1=1 ELSE NEW_AGE1=0
NEW_AGE2 *
    IF (AGE_GR2 = 1 OR AGE_GR3 = 1) THEN NEW_AGE2=1 ELSE NEW_AGE2=0
Age: 75 - 84: NEW AGE3
    IF (AGE_GR4 = 1 OR AGE_GR5 = 1) THEN NEW_AGE3=1 ELSE NEW_AGE3=0
Age: 85 and over : NEW AGE4
    IF (AGE_GR6 = 1 OR AGE_GR7 = 1 OR AGE_GR8 = 1) THEN NEW_AGE4=1 ELSE NEW_AGE4=0

AMBO *
    IF (AMBULATION = 0) THEN AMBO=1 ELSE AMBO=0
AMB1 *
    IF (AMBULATION = 1) THEN AMB1=1 ELSE AMB1=0
```

Risk Factors that are Calculated from Measures on the Agency Patient-Related Characteristics Report

AMB2 *

IF (AMBULATION = 2) THEN AMB2=1 ELSE AMB2=0

AMB3 *

IF (AMBULATION = 3) THEN AMB3=1 ELSE AMB3=0

AMB4 *

IF (AMBULATION = 4) THEN AMB4=1 ELSE AMB4=0

AMB5 *

IF (AMBULATION = 5) THEN AMB5=1 ELSE AMB5=0

AMB6 *

IF (AMBULATION = 6) THEN AMB6=1 ELSE AMB6=0

NEW_AMB0 *

IF (AMB0 = 1) THEN NEW_AMB0=1 ELSE NEW_AMB0=0

Ambulation/Locomotion: One-handed device on all surfaces : NEW_AMB1

IF (AMB1 = 1) THEN NEW_AMB1=1 ELSE NEW_AMB1=0

Ambulation/Locomotion: Two-handed device/human assist on steps : NEW_AMB2

IF (AMB2 = 1) THEN NEW_AMB2=1 ELSE NEW_AMB2=0

Ambulation/Locomotion: Walks only with supervision or assist : NEW_AMB3

IF (AMB3 = 1) THEN NEW_AMB3=1 ELSE NEW_AMB3=0

Ambulation/Locomotion: Chairfast or bedfast : NEW_AMB456

IF (AMB4 = 1 OR AMB5 = 1 OR AMB6 = 1) THEN NEW_AMB456=1 ELSE NEW_AMB456=0

Anxiety: None of the time : ANX0

IF (ANXIETY = 0) THEN ANX0=1 ELSE ANX0=0

Anxiety: Less often than daily : ANX1

IF (ANXIETY = 1) THEN ANX1=1 ELSE ANX1=0

Anxiety: Daily, but not constantly : ANX2

IF (ANXIETY = 2) THEN ANX2=1 ELSE ANX2=0

Anxiety: All of the time : ANX3

IF (ANXIETY = 3) THEN ANX3=1 ELSE ANX3=0

Bathing: Independently in shower/tub : BATH0

IF (BATHING = 0) THEN BATH0=1 ELSE BATH0=0

Bathing: With the use of devices in shower/tub : BATH1

IF (BATHING = 1) THEN BATH1=1 ELSE BATH1=0

Bathing: With intermittent assistance in shower/tub : BATH2

IF (BATHING = 2) THEN BATH2=1 ELSE BATH2=0

Bathing: Participates with supervision in shower/tub : BATH3

IF (BATHING = 3) THEN BATH3=1 ELSE BATH3=0

Bathing: Independent at sink, in chair, or on commode : BATH4

IF (BATHING = 4) THEN BATH4=1 ELSE BATH4=0

Bathing: Participates with assist at sink, in chair, or commode : BATH5

IF (BATHING = 5) THEN BATH5=1 ELSE BATH5=0

Bathing: Unable to participate; bathed totally by another : BATH6

IF (BATHING = 6) THEN BATH6=1 ELSE BATH6=0

BEHPFR0 *

IF (BEH_PROB_FREQ = 0) THEN BEHPFR0=1 ELSE BEHPFR0=0

Risk Factors that are Calculated from Measures on the Agency Patient-Related Characteristics Report

BEHPFR1 *

IF (BEH_PROB_FREQ = 1) THEN BEHPFR1=1 ELSE BEHPFR1=0

Frequency of Disruptive Behavior: Once a month : BEHPFR2

IF (BEH_PROB_FREQ = 2) THEN BEHPFR2=1 ELSE BEHPFR2=0

Frequency of Disruptive Behavior: Several times each month : BEHPFR3

IF (BEH_PROB_FREQ = 3) THEN BEHPFR3=1 ELSE BEHPFR3=0

Frequency of Disruptive Behavior: Several times a week : BEHPFR4

IF (BEH_PROB_FREQ = 4) THEN BEHPFR4=1 ELSE BEHPFR4=0

BEHPFR5 *

IF (BEH_PROB_FREQ = 5) THEN BEHPFR5=1 ELSE BEHPFR5=0

NEW_BEHPFR0 *

IF (BEHPFR0 = 1) THEN NEW_BEHPFR0=1 ELSE NEW_BEHPFR0=0

Frequency of Disruptive Behavior: Once a month or less : NEW_BEHPFR12

IF (BEHPFR1 = 1 OR BEHPFR2 = 1) THEN NEW_BEHPFR12=1 ELSE NEW_BEHPFR12=0

Frequency of Disruptive Behavior: Several times a month : NEW_BEHPFR3

IF (BEHPFR3 = 1) THEN NEW_BEHPFR3=1 ELSE NEW_BEHPFR3=0

Frequency of Disruptive Behavior: Several times a week : NEW_BEHPFR4

IF (BEHPFR4 = 1) THEN NEW_BEHPFR4=1 ELSE NEW_BEHPFR4=0

Frequency of Disruptive Behavior: At least once daily : NEW_BEHPFR5

IF (BEHPFR5 = 1) THEN NEW_BEHPFR5=1 ELSE NEW_BEHPFR5=0

BWL_FR0 *

IF (BOWEL_INCONT = 0) THEN BWL_FR0=1 ELSE BWL_FR0=0

BWL_FR1 *

IF (BOWEL_INCONT = 1) THEN BWL_FR1=1 ELSE BWL_FR1=0

Bowel Incontinence Frequency: 1 - 3 times a week : BWL_FR2

IF (BOWEL_INCONT = 2) THEN BWL_FR2=1 ELSE BWL_FR2=0

Bowel Incontinence Frequency: 4 - 6 times a week or more : BWL_FR3

IF (BOWEL_INCONT = 3) THEN BWL_FR3=1 ELSE BWL_FR3=0

Bowel Incontinence Frequency: On a daily basis : BWL_FR4

IF (BOWEL_INCONT = 4) THEN BWL_FR4=1 ELSE BWL_FR4=0

Bowel Incontinence Frequency: More often than once daily : BWL_FR5

IF (BOWEL_INCONT = 5) THEN BWL_FR5=1 ELSE BWL_FR5=0

NEW_BWL_FR0 *

IF (BWL_FR0 = 1) THEN NEW_BWL_FR0=1 ELSE NEW_BWL_FR0=0

Bowel Incontinence Frequency: Less than once a week : NEW_BWL_FR1

IF (BWL_FR1 = 1) THEN NEW_BWL_FR1=1 ELSE NEW_BWL_FR1=0

Bowel Incontinence Frequency: One to three times a week : NEW_BWL_FR2

IF (BWL_FR2 = 1) THEN NEW_BWL_FR2=1 ELSE NEW_BWL_FR2=0

Bowel Incontinence Frequency: Four to six times a week or more : NEW_BWL_FR345

**IF (BWL_FR3 = 1 OR BWL_FR4 = 1 OR BWL_FR5 = 1) THEN NEW_BWL_FR345=1 ELSE
NEW_BWL_FR345=0**

Frequency of ADL /IADL Assistance: At least daily : CGASST1

IF (FREQ_CG_ASSIST = 1) THEN CGASST1=1 ELSE CGASST1=0

Frequency of ADL /IADL Assistance: Three or more times per week : CGASST2

IF (FREQ_CG_ASSIST = 2) THEN CGASST2=1 ELSE CGASST2=0

Frequency of ADL /IADL Assistance: One or two times per week : CGASST3

Risk Factors that are Calculated from Measures on the Agency Patient-Related Characteristics Report

IF (FREQ_CG_ASSIST = 3) THEN CGASST3=1 ELSE CGASST3=0
Frequency of ADL /IADL Assistance: Received less than weekly : CGASST4
IF (FREQ_CG_ASSIST = 4) THEN CGASST4=1 ELSE CGASST4=0
CGASST5 *
IF (FREQ_CG_ASSIST = 5) THEN CGASST5=1 ELSE CGASST5=0

Cognitive Functioning: Alert and focused : COGFN0
IF (COG_FUNC = 0) THEN COGFN0=1 ELSE COGFN0=0
Cognitive Functioning: Requires prompting under stress : COGFN1
IF (COG_FUNC = 1) THEN COGFN1=1 ELSE COGFN1=0
Cognitive Functioning: Requires assist in special circumstances : COGFN2
IF (COG_FUNC = 2) THEN COGFN2=1 ELSE COGFN2=0
COGFN3 *
IF (COG_FUNC = 3) THEN COGFN3=1 ELSE COGFN3=0
COGFN4 *
IF (COG_FUNC = 4) THEN COGFN4=1 ELSE COGFN4=0
NEW_COGN0 *
IF (COGFN0 = 1) THEN NEW_COGN0=1 ELSE NEW_COGN0=0
Cognitive Functioning: Requires prompting under stress : NEW COGN1
IF (COGFN1 = 1) THEN NEW_COGN1=1 ELSE NEW_COGN1=0
Cognitive Functioning: Requires assist in special circumstances : NEW COGN2
IF (COGFN2 = 1) THEN NEW_COGN2=1 ELSE NEW_COGN2=0
Cognitive Function: Requires considerable assist/totally dependent : NEW COGN34
IF (COGFN3 = 1 OR COGFN4 = 1) THEN NEW_COGN34=1 ELSE NEW_COGN34=0

CONF0 *
IF (CONFUSION = 0) THEN CONF0=1 ELSE CONF0=0
Confusion: In new or complex situations only : CONF1
IF (CONFUSION = 1) THEN CONF1=1 ELSE CONF1=0
Confusion: On awakening or at night only : CONF2
IF (CONFUSION = 2) THEN CONF2=1 ELSE CONF2=0
Confusion: During the day and evening, but not constantly : CONF3
IF (CONFUSION = 3) THEN CONF3=1 ELSE CONF3=0
Confusion: Constantly : CONF4
IF (CONFUSION = 4) THEN CONF4=1 ELSE CONF4=0
NEW_CONF0 *
IF (CONF0 = 1) THEN NEW_CONF0=1 ELSE NEW_CONF0=0
Confused: In new or complex situations : NEW CONF1
IF (CONF1 = 1) THEN NEW_CONF1=1 ELSE NEW_CONF1=0
Confused: Sometimes : NEW CONF23
IF (CONF2 = 1 OR CONF3 = 1) THEN NEW_CONF23=1 ELSE NEW_CONF23=0
Confused: Constantly : NEW CONF4
IF (CONF4 = 1) THEN NEW_CONF4=1 ELSE NEW_CONF4=0

DYSPO *
IF (DYSPNEA = 0) THEN DYSP0=1 ELSE DYSP0=0

Risk Factors that are Calculated from Measures on the Agency Patient-Related Characteristics Report

DYSP1 *

IF (DYSPNEA = 1) THEN DYSP1=1 ELSE DYSP1=0

Dyspnea: Moderate exertion : DYSP2

IF (DYSPNEA = 2) THEN DYSP2=1 ELSE DYSP2=0

Dyspnea: Minimal exertion : DYSP3

IF (DYSPNEA = 3) THEN DYSP3=1 ELSE DYSP3=0

Dyspnea: At rest : DYSP4

IF (DYSPNEA > 3) THEN DYSP4=1 ELSE DYSP4=0

NEW_DYSP0 *

IF (DYSP0 = 1) THEN NEW_DYSP0=1 ELSE NEW_DYSP0=0

Dyspnea: Walking more than 20 feet, climbing stairs : NEW DYSP1

IF (DYSP1 = 1) THEN NEW_DYSP1=1 ELSE NEW_DYSP1=0

Dyspnea: Moderate exertion : NEW DYSP2

IF (DYSP2 = 1) THEN NEW_DYSP2=1 ELSE NEW_DYSP2=0

Dyspnea: Minimal to no exertion : NEW DYSP34

IF (DYSP3 = 1 OR DYSP4 = 1) THEN NEW_DYSP34=1 ELSE NEW_DYSP34=0

EAT0 *

IF (FEEDING = 0) THEN EAT0=1 ELSE EAT0=0

EAT1 *

IF (FEEDING = 1) THEN EAT1=1 ELSE EAT1=0

Eating: Unable to feed self and must be assisted throughout meal : EAT2

IF (FEEDING = 2) THEN EAT2=1 ELSE EAT2=0

Eating: Receives nutrients orally and through tube : EAT3

IF (FEEDING = 3) THEN EAT3=1 ELSE EAT3=0

Eating: Only receives nutrients through tube : EAT4

IF (FEEDING = 4) THEN EAT4=1 ELSE EAT4=0

Eating: Unable to take nutrients orally or by tube : EAT5

IF (FEEDING = 5) THEN EAT5=1 ELSE EAT5=0

NEW_EAT0 *

IF (EAT0 = 1) THEN NEW_EAT0=1 ELSE NEW_EAT0=0

Eating: Requires set up, intermittent assist or modified consistency : NEW EAT1

IF (EAT1 = 1) THEN NEW_EAT1=1 ELSE NEW_EAT1=0

Eating: Unable to feed self and must be assisted throughout meal : NEW EAT2

IF (EAT2 = 1) THEN NEW_EAT2=1 ELSE NEW_EAT2=0

Eating: Requires tube feedings, or no nutrients orally or via tube : NEW EAT345

IF (EAT3 = 1 OR EAT4 = 1 OR EAT5 = 1) THEN NEW_EAT345=1 ELSE NEW_EAT345=0

Grooming: Able to groom self unaided : GROOM0

IF (GROOMING = 0) THEN GROOM0=1 ELSE GROOM0=0

Grooming: Grooming utensils must be placed within reach : GROOM1

IF (GROOMING = 1) THEN GROOM1=1 ELSE GROOM1=0

Grooming: Assistance needed : GROOM2

IF (GROOMING = 2) THEN GROOM2=1 ELSE GROOM2=0

Grooming: Entirely dependent upon someone else : GROOM3

IF (GROOMING = 3) THEN GROOM3=1 ELSE GROOM3=0

Risk Factors that are Calculated from Measures on the Agency Patient-Related Characteristics Report

HEAR0 *

IF (HEARING = 0) THEN HEAR0=1 ELSE HEAR0=0

Hearing: Mildly to moderately impaired : HEAR1

IF (HEARING = 1) THEN HEAR1=1 ELSE HEAR1=0

Hearing: Severely impaired : HEAR2

IF (HEARING = 2) THEN HEAR2=1 ELSE HEAR2=0

INCONT_FR0 *

IF (INCONT_FREQ = 0) THEN INCONT_FR0=1 ELSE INCONT_FR0=0

INCONT_FR1 *

IF (INCONT_FREQ = 1) THEN INCONT_FR1=1 ELSE INCONT_FR1=0

Urinary Incontinence: Night only : INCONT_FR2

IF (INCONT_FREQ = 2) THEN INCONT_FR2=1 ELSE INCONT_FR2=0

Urinary Incontinence: Day only : INCONT_FR3

IF (INCONT_FREQ = 3) THEN INCONT_FR3=1 ELSE INCONT_FR3=0

Urinary Incontinence: Day and night : INCONT_FR4

IF (INCONT_FREQ > 3) THEN INCONT_FR4=1 ELSE INCONT_FR4=0

NEW_INCONT_FR0 *

IF (INCONT_FR0 = 1) THEN NEW_INCONT_FR0=1 ELSE NEW_INCONT_FR0=0

Urinary Incontinence: Occasional stress incontinence : NEW_INCONT_FR1

IF (INCONT_FR1 = 1) THEN NEW_INCONT_FR1=1 ELSE NEW_INCONT_FR1=0

Urinary Incontinence: Day or night : NEW_INCONT_FR23

IF (INCONT_FR2 = 1 OR INCONT_FR3 = 1) THEN NEW_INCONT_FR23=1 ELSE

NEW_INCONT_FR23=0

Urinary Incontinence: Day and night : NEW_INCONT_FR4

IF (INCONT_FR4 = 1) THEN NEW_INCONT_FR4=1 ELSE NEW_INCONT_FR4=0

LOWER0 *

IF (DRESS_LOWER = 0) THEN LOWER0=1 ELSE LOWER0=0

Ability to Dress Lower Body: Needs clothing/shoes laid out : LOWER1

IF (DRESS_LOWER = 1) THEN LOWER1=1 ELSE LOWER1=0

Ability to Dress Lower Body: Assist needed putting on clothing : LOWER2

IF (DRESS_LOWER = 2) THEN LOWER2=1 ELSE LOWER2=0

Ability to Dress Lower Body: Entirely dependent upon someone else : LOWER3

IF (DRESS_LOWER = 3) THEN LOWER3=1 ELSE LOWER3=0

Meal prep: Independently able to plan/prepare light meals : MEAL_PREP0

IF (MEAL_PREP = 0) THEN MEAL_PREP0=1 ELSE MEAL_PREP0=0

Meal prep: Unable to plan/prepare light meals : MEAL_PREP1

IF (MEAL_PREP = 1) THEN MEAL_PREP1=1 ELSE MEAL_PREP1=0

Meal prep: Unable to reheat delivered meals : MEAL_PREP2

IF (MEAL_PREP = 2) THEN MEAL_PREP2=1 ELSE MEAL_PREP2=0

O_STAT0 *

IF (OVERALL_STATUS = 0) THEN O_STAT0=1 ELSE O_STAT0=0

Patient Overall Status: Temporary high health risk : O_STAT1

IF (OVERALL_STATUS = 1) THEN O_STAT1=1 ELSE O_STAT1=0

Patient Overall Status: Fragile health : O_STAT2

Risk Factors that are Calculated from Measures on the Agency Patient-Related Characteristics Report

IF (OVERALL_STATUS = 2) THEN O_STAT2=1 ELSE O_STAT2=0
Patient Overall Status: Serious progressive conditions : O_STAT3
IF (OVERALL_STATUS = 3) THEN O_STAT3=1 ELSE O_STAT3=0

Management of Oral Meds: Independent : ORMED0

IF (ORAL_MEDS = 0) THEN ORMED0=1 ELSE ORMED0=0

Management of Oral Meds: Advance dose prep/chart needed : ORMED1

IF (ORAL_MEDS = 1) THEN ORMED1=1 ELSE ORMED1=0

Management of Oral Meds: Reminders needed : ORMED2

IF (ORAL_MEDS = 2) THEN ORMED2=1 ELSE ORMED2=0

Management of Oral Meds: Unable : ORMED3

IF (ORAL_MEDS = 3) THEN ORMED3=1 ELSE ORMED3=0

PAIN0 *

IF (PAIN = 0) THEN PAIN0=1 ELSE PAIN0=0

Frequency of Pain: Pain does not interfere with activity : PAIN1

IF (PAIN = 1) THEN PAIN1=1 ELSE PAIN1=0

Frequency of Pain: Less often than daily : PAIN2

IF (PAIN = 2) THEN PAIN2=1 ELSE PAIN2=0

Frequency of Pain: Daily, but not constant : PAIN3

IF (PAIN = 3) THEN PAIN3=1 ELSE PAIN3=0

Frequency of Pain: Constant : PAIN4

IF (PAIN = 4) THEN PAIN4=1 ELSE PAIN4=0

PHONE0 Use of Telephone: Able to make and answer calls

IF (PHONE_USE = 0) THEN PHONE0=1 ELSE PHONE0=0

Use of Telephone: Able to use specially adapted telephone : PHONE1

IF (PHONE_USE = 1) THEN PHONE1=1 ELSE PHONE1=0

Use of Telephone: Able to answer but difficulty placing calls : PHONE2

IF (PHONE_USE = 2) THEN PHONE2=1 ELSE PHONE2=0

Use of Telephone: Limited ability to answer or converse : PHONE3

IF (PHONE_USE = 3) THEN PHONE3=1 ELSE PHONE3=0

Use of Telephone: Unable to answer but listens with assistance : PHONE4

IF (PHONE_USE = 4) THEN PHONE4=1 ELSE PHONE4=0

Use of Telephone: Totally unable : PHONE5

IF (PHONE_USE = 5) THEN PHONE5=1 ELSE PHONE5=0

PHQ2DEP0 *

IF (PHQ2_DOWN = 0) THEN PHQ2DEP0=1 ELSE PHQ2DEP0=0

PHQ-2 Depression: Several days in past 2 weeks : PHQ2DEP1

IF (PHQ2_DOWN = 1) THEN PHQ2DEP1=1 ELSE PHQ2DEP1=0

PHQ-2 Depression: More than half of days in past 2 weeks : PHQ2DEP2

IF (PHQ2_DOWN = 2) THEN PHQ2DEP2=1 ELSE PHQ2DEP2=0

PHQ-2 Depression: Nearly every day in past 2 weeks : PHQ2DEP3

IF (PHQ2_DOWN = 3) THEN PHQ2DEP3=1 ELSE PHQ2DEP3=0

PHQ2INT0 *

IF (PHQ2_INTEREST = 0) THEN PHQ2INT0=1 ELSE PHQ2INT0=0

PHQ-2 Loss of Interest: Several days in past 2 weeks : PHQ2INT1

Risk Factors that are Calculated from Measures on the Agency Patient-Related Characteristics Report

IF (PHQ2_INTEREST = 1) THEN PHQ2INT1=1 ELSE PHQ2INT1=0
PHQ-2 Loss of Interest: More than half of days in past 2 weeks : PHQ2INT2
IF (PHQ2_INTEREST = 2) THEN PHQ2INT2=1 ELSE PHQ2INT2=0
PHQ-2 Loss of Interest: Nearly every day in past 2 weeks : PHQ2INT3
IF (PHQ2_INTEREST = 3) THEN PHQ2INT3=1 ELSE PHQ2INT3=0

Depression Screen Positive : NEW DPRSSN

IF DEPRESSION = 1 THEN NEW_DPRSSN = 1 ELSE NEW_DPRSSN = 0

PUNS_0 *

IF (PRES_ULC_NO_STG = 0) THEN PUNS_0=1 ELSE PUNS_0=0
Number of Unstageable Pressure Ulcer(s): 1: PUNS_1
IF (PRES_ULC_NO_STG = 1) THEN PUNS_1=1 ELSE PUNS_1=0
Number of Unstageable Pressure Ulcer(s): 2: PUNS_2
IF (PRES_ULC_NO_STG = 2) THEN PUNS_2=1 ELSE PUNS_2=0
Number of Unstageable Pressure Ulcer(s): 3: PUNS_3
IF (PRES_ULC_NO_STG = 3) THEN PUNS_3=1 ELSE PUNS_3=0
Number of Unstageable Pressure Ulcer(s): 4 or more : PUNS_4
IF (PRES_ULC_NO_STG > 3) THEN PUNS_4=1 ELSE PUNS_4=0

PUS2_0 *

IF (PRES_ULC_STG2 = 0) THEN PUS2_0=1 ELSE PUS2_0=0
Number of Stage II Pressure Ulcers(s): 1: PUS2_1
IF (PRES_ULC_STG2 = 1) THEN PUS2_1=1 ELSE PUS2_1=0
Number of Stage II Pressure Ulcers(s): 2: PUS2_2
IF (PRES_ULC_STG2 = 2) THEN PUS2_2=1 ELSE PUS2_2=0
Number of Stage II Pressure Ulcers(s): 3: PUS2_3
IF (PRES_ULC_STG2 = 3) THEN PUS2_3=1 ELSE PUS2_3=0
Number of Stage II Pressure Ulcers(s): 4 or more : PUS2_4
IF (PRES_ULC_STG2 > 3) THEN PUS2_4=1 ELSE PUS2_4=0

PUS3_0 *

IF (PRES_ULC_STG3 = 0) THEN PUS3_0=1 ELSE PUS3_0=0
Number of Stage III Pressure Ulcers(s): 1: PUS3_1
IF (PRES_ULC_STG3 = 1) THEN PUS3_1=1 ELSE PUS3_1=0
Number of Stage III Pressure Ulcers(s): 2: PUS3_2
IF (PRES_ULC_STG3 = 2) THEN PUS3_2=1 ELSE PUS3_2=0
Number of Stage III Pressure Ulcers(s): 3: PUS3_3
IF (PRES_ULC_STG3 = 3) THEN PUS3_3=1 ELSE PUS3_3=0
Number of Stage III Pressure Ulcers(s): 4 or more : PUS3_4
IF (PRES_ULC_STG3 > 3) THEN PUS3_4=1 ELSE PUS3_4=0

PUS4_0 *

IF (PRES_ULC_STG4 = 0) THEN PUS4_0=1 ELSE PUS4_0=0
Number of Stage IV Pressure Ulcer(s): 1: PUS4_1
IF (PRES_ULC_STG4 = 1) THEN PUS4_1=1 ELSE PUS4_1=0
Number of Stage IV Pressure Ulcer(s): 2: PUS4_2
IF (PRES_ULC_STG4 = 2) THEN PUS4_2=1 ELSE PUS4_2=0
Number of Stage IV Pressure Ulcer(s): 3: PUS4_3
IF (PRES_ULC_STG4 = 3) THEN PUS4_3=1 ELSE PUS4_3=0
Number of Stage IV Pressure Ulcer(s): 4 or more : PUS4_4

Risk Factors that are Calculated from Measures on the Agency Patient-Related Characteristics Report

IF (PRES_ULC_STG4 > 3) THEN PUS4_4=1 ELSE PUS4_4=0
Pressure Ulcer: Unstageable ulcer(s) present : PU_NotStg
IF (PUNS_1 = 1 or PUNS_2 = 1 or PUNS_3 = 1 or PUNS_4 = 1) THEN PU_NotStg=1 ELSE PU_NotStg=0
Pressure Ulcer: Stage II ulcer(s) present : PU_Stg2
IF (PUS2_1 = 1 or PUS2_2 = 1 or PUS2_3 = 1 or PUS2_4 = 1) THEN PU_Stg2=1 ELSE PU_Stg2=0
Pressure Ulcer: Stage III ulcer(s) present : PU_Stg3
IF (PUS3_1 = 1 or PUS3_2 = 1 or PUS3_3 = 1 or PUS3_4 = 1) THEN PU_Stg3=1 ELSE PU_Stg3=0
Pressure Ulcer: Stage IV ulcer(s) present : PU_Stg4
IF (PUS4_1 = 1 or PUS4_2 = 1 or PUS4_3 = 1 or PUS4_4 = 1) THEN PU_Stg4=1 ELSE PU_Stg4=0
 PU_TltStg2 *
 PU_TltStg2 = (PUS2_1*1) + (PUS2_2*2) + (PUS2_3*3) + (PUS2_4*4)
 PU_TltStg3 *
 PU_TltStg3 = (PUS3_1*1) + (PUS3_2*2) + (PUS3_3*3) + (PUS3_4*4)
 PU_TltStg4 *
 PU_TltStg4 = (PUS4_1*1) + (PUS4_2*2) + (PUS4_3*3) + (PUS4_4*4)
Pressure Ulcer Present: Total Number Stage II or higher : PU_TltAllStg
 PU_TltAllStg = PU_TltStg2 + PU_TltStg3 + PU_TltStg4
Pressure Ulcer: Stage III or IV : PU_Any34
IF (PUS_STG3 = 1 OR PU_STG4 = 1) THEN PU_ANY34 = 1 ELSE PU_ANY34 = 0

Difficulty in Speech: No observable impairment : SPEECH0
IF (SPEECH = 0) THEN SPEECH0=1 ELSE SPEECH0=0
Difficulty in Speech: Minimal : SPEECH1
IF (SPEECH = 1) THEN SPEECH1=1 ELSE SPEECH1=0
Difficulty in Speech: Moderate : SPEECH2
IF (SPEECH = 2) THEN SPEECH2=1 ELSE SPEECH2=0
Difficulty in Speech: Severe difficulty : SPEECH3
IF (SPEECH = 3) THEN SPEECH3=1 ELSE SPEECH3=0
Difficulty in Speech: Unable to express basic needs : SPEECH4
IF (SPEECH = 4) THEN SPEECH4=1 ELSE SPEECH4=0
 SPEECH5 *
IF (SPEECH = 5) THEN SPEECH5=1 ELSE SPEECH5=0
 *: NEW_SPEECH0
IF (SPEECH0 = 1) THEN NEW_SPEECH0=1 ELSE NEW_SPEECH0=0
Difficulty in Speech: Minimal : NEW_SPEECH1
IF (SPEECH1 = 1) THEN NEW_SPEECH1=1 ELSE NEW_SPEECH1=0
Difficulty in Speech: Moderate : NEW_SPEECH2
IF (SPEECH2 = 1) THEN NEW_SPEECH2=1 ELSE NEW_SPEECH2=0
Difficulty in Speech: Severe to nonresponsive : NEW_SPEECH345
IF (SPEECH3 = 1 OR SPEECH4 = 1 OR SPEECH5 = 1) THEN NEW_SPEECH345=1 ELSE NEW_SPEECH345=0

 SRGSTAT0 *
IF (SRGCL_WND_STAT = 0) THEN SRGSTAT0=1 ELSE SRGSTAT0=0
Status of Surgical Wound: Fully granulating : SRGSTAT1
IF (SRGCL_WND_STAT = 1) THEN SRGSTAT1=1 ELSE SRGSTAT1=0
Status of Surgical Wound: Early/partial granulation : SRGSTAT2

Risk Factors that are Calculated from Measures on the Agency Patient-Related Characteristics Report

IF (SRGCL_WND_STAT = 2) THEN SRGSTAT2=1 ELSE SRGSTAT2=0
Status of Surgical Wound: Not healing : SRGSTAT3
IF (SRGCL_WND_STAT = 3) THEN SRGSTAT3=1 ELSE SRGSTAT3=0

SUSTATO *

IF (STAS_ULCR_STAT = 0) THEN SUSTAT0=1 ELSE SUSTAT0=0
Status of Stasis Ulcer: Fully granulating : SUSTAT1
IF (STAS_ULCR_STAT = 1) THEN SUSTAT1=1 ELSE SUSTAT1=0
Status of Stasis Ulcer: Early/partial granulation : SUSTAT2
IF (STAS_ULCR_STAT = 2) THEN SUSTAT2=1 ELSE SUSTAT2=0
Status of Stasis Ulcer: Not healing : SUSTAT3
IF (STAS_ULCR_STAT = 3) THEN SUSTAT3=1 ELSE SUSTAT3=0

THER_ALTO *

IF (THERAPY_NEED = 0) THEN THER_ALTO=1 ELSE THER_ALTO=0
Number of therapy visits: 1 - 2 : THER_ALT1
IF (THERAPY_NEED = 1 OR THERAPY_NEED = 2) THEN THER_ALT1=1 ELSE THER_ALT1=0
Number of therapy visits: 11 - 12: THER_ALT11
IF (THERAPY_NEED = 11 OR THERAPY_NEED = 12) THEN THER_ALT11=1 ELSE THER_ALT11=0
Number of therapy visits: 13 - 14: THER_ALT13
IF (THERAPY_NEED = 13 OR THERAPY_NEED = 14) THEN THER_ALT13=1 ELSE THER_ALT13=0
Number of therapy visits: 15 - 16: THER_ALT15
IF (THERAPY_NEED = 15 OR THERAPY_NEED = 16) THEN THER_ALT15=1 ELSE THER_ALT15=0
Number of therapy visits: 17 - 18: THER_ALT17
IF (THERAPY_NEED = 17 OR THERAPY_NEED = 18) THEN THER_ALT17=1 ELSE THER_ALT17=0
Number of therapy visits: 19 +: THER_ALT19
IF (THERAPY_NEED = 19 OR THERAPY_NEED = 20) THEN THER_ALT19=1 ELSE THER_ALT19=0
Number of therapy visits: 3 - 4: THER_ALT3
IF (THERAPY_NEED = 3 OR THERAPY_NEED = 4) THEN THER_ALT3=1 ELSE THER_ALT3=0
Number of therapy visits: 5 - 6: THER_ALT5
IF (THERAPY_NEED = 5 OR THERAPY_NEED = 6) THEN THER_ALT5=1 ELSE THER_ALT5=0
Number of therapy visits: 7 - 8: THER_ALT7
IF (THERAPY_NEED = 7 OR THERAPY_NEED = 8) THEN THER_ALT7=1 ELSE THER_ALT7=0
Number of therapy visits: 9 - 10: THER_ALT9
IF (THERAPY_NEED = 9 OR THERAPY_NEED = 10) THEN THER_ALT9=1 ELSE THER_ALT9=0
Therapy Amounts: High : THER_HIGH_GT13
IF (THERAPY_NEED >13) THEN THER_HIGH_GT13 = 1 ELSE THER_HIGH_GT13 = 0
Therapy Amounts: Low : THER_LOW_LT5
IF (THERAPY_NEED < 5) THEN THER_LOW_LT5 = 1 ELSE THER_LOW_LT5 = 0
Therapy Amounts: Medium : THER_MED_5_13
IF (THERAPY_NEED >= 5 AND THERAPY_NEED <= 13) THEN THER_MED_5_13 = 1 ELSE THER_MED_5_13 = 0

Toilet Hygiene Assistance: None needed : TLTHYG0

IF (TOILET_HYGIENE = 0) THEN TLTHYG0=1 ELSE TLTHYG0=0
TLTHYG1 Toilet Hygiene Assistance: Needs supplies laid out

IF (TOILET_HYGIENE = 1) THEN TLTHYG1=1 ELSE TLTHYG1=0
Toilet Hygiene Assistance: Needs assistance : TLTHYG2

Risk Factors that are Calculated from Measures on the Agency Patient-Related Characteristics Report

IF (TOILET_HYGIENE = 2) THEN TLTHYG2=1 ELSE TLTHYG2=0
Toilet Hygiene Assistance: Entirely dependent : TLTHYG3
IF (TOILET_HYGIENE = 3) THEN TLTHYG3=1 ELSE TLTHYG3=0

Toilet Transferring: To/from/on/off toilet independently : TLTTRN0
IF (TOILET_TRANSFER = 0) THEN TLTTRN0=1 ELSE TLTTRN0=0
Toilet Transferring: To/from/on/off toilet with human assist : TLTTRN1
IF (TOILET_TRANSFER = 1) THEN TLTTRN1=1 ELSE TLTTRN1=0
Toilet Transferring: Able to self-transfer to bedside commode : TLTTRN2
IF (TOILET_TRANSFER = 2) THEN TLTTRN2=1 ELSE TLTTRN2=0
Toilet Transferring: Able to use bedpan/urinal independently : TLTTRN3
IF (TOILET_TRANSFER = 3) THEN TLTTRN3=1 ELSE TLTTRN3=0
Toilet Transferring: Entirely dependent : TLTTRN4
IF (TOILET_TRANSFER = 4) THEN TLTTRN4=1 ELSE TLTTRN4=0
NEW_TLTTRN0 *
IF (TLTTRN0 = 1) THEN NEW_TLTTRN0=1 ELSE NEW_TLTTRN0=0
Toilet Transferring: To/from/on/off toilet with human assist : NEW_TLTTRN1
IF (TLTTRN1 = 1) THEN NEW_TLTTRN1=1 ELSE NEW_TLTTRN1=0
Toilet Transferring: Able to self-transfer to bedside commode : NEW_TLTTRN2
IF (TLTTRN2 = 1) THEN NEW_TLTTRN2=1 ELSE NEW_TLTTRN2=0
Toilet Transferring: Unable to transfer to/from toilet or commode : NEW_TLTTRN34
IF (TLTTRN3 = 1 OR TLTTRN4 = 1) THEN NEW_TLTTRN34=1 ELSE NEW_TLTTRN34=0

Transferring: Independent : TRNFR0
IF (TRANSFERRING = 0) THEN TRNFR0=1 ELSE TRNFR0=0
Transferring: With minimal human assistance or with device : TRNFR1
IF (TRANSFERRING = 1) THEN TRNFR1=1 ELSE TRNFR1=0
Transferring: Bears weight and pivots only : TRNFR2
IF (TRANSFERRING = 2) THEN TRNFR2=1 ELSE TRNFR2=0
Transferring: Unable to bear weight : TRNFR3
IF (TRANSFERRING = 3) THEN TRNFR3=1 ELSE TRNFR3=0
Transferring: Bedfast, but able to reposition in bed : TRNFR4
IF (TRANSFERRING = 4) THEN TRNFR4=1 ELSE TRNFR4=0
Transferring: Bedfast : TRNFR5
IF (TRANSFERRING = 5) THEN TRNFR5=1 ELSE TRNFR5=0
NEW_TRNFR0 *
IF (TRNFR0 = 1) THEN NEW_TRNFR0=1 ELSE NEW_TRNFR0=0
Transferring: With minimal human assist or with device : NEW_TRNFR1
IF (TRNFR1 = 1) THEN NEW_TRNFR1=1 ELSE NEW_TRNFR1=0
Transferring: Bears weight and pivots only : NEW_TRNFR2
IF (TRNFR2 = 1) THEN NEW_TRNFR2=1 ELSE NEW_TRNFR2=0
Transferring: Unable or bedfast : NEW_TRNFR345
**IF (TRNFR3 = 1 OR TRNFR4 = 1 OR TRNFR5 = 1) THEN NEW_TRNFR345=1 ELSE
NEW_TRNFR345=0**

UPPER0 *
IF (DRESS_UPPER = 0) THEN UPPER0=1 ELSE UPPER0=0
Ability to Dress Upper Body: Needs clothing laid out : UPPER1

Risk Factors that are Calculated from Measures on the Agency Patient-Related Characteristics Report

IF (DRESS_UPPER = 1) THEN UPPER1=1 ELSE UPPER1=0
Ability to Dress Upper Body: Needs assistance putting on clothing : UPPER2
IF (DRESS_UPPER = 2) THEN UPPER2=1 ELSE UPPER2=0
Ability to Dress Upper Body: Entirely dependent upon someone else : UPPER3
IF (DRESS_UPPER = 3) THEN UPPER3=1 ELSE UPPER3=0

VERBAL0 *

IF (VERBAL_UNDERSTAND = 0) THEN VERBAL0=1 ELSE VERBAL0=0
Verbal Understanding: Most of the time : VERBAL1
IF (VERBAL_UNDERSTAND = 1) THEN VERBAL1=1 ELSE VERBAL1=0
Verbal Understanding: Sometimes : VERBAL2
IF (VERBAL_UNDERSTAND = 2) THEN VERBAL2=1 ELSE VERBAL2=0
Verbal Understanding: Rarely or never : VERBAL3
IF (VERBAL_UNDERSTAND = 3) THEN VERBAL3=1 ELSE VERBAL3=0

VISION0

IF (VISION = 0) THEN VISION0=1 ELSE VISION0=0
Vision: Partially impaired : VISION1
IF (VISION = 1) THEN VISION1=1 ELSE VISION1=0
Vision: Severely impaired : VISION2
IF (VISION = 2) THEN VISION2=1 ELSE VISION2=0

Risk Factors that Are Calculated Directly from OASIS Data

EPIS_ROC *

IF (M0100_ASSMT_REASON[1] = '03') THEN EPIS_ROC=1 ELSE EPIS_ROC=0
Start of Care - Further visits planned : EPIS_SOC
IF (M0100_ASSMT_REASON[1] = '01') THEN EPIS_SOC=1 ELSE EPIS_SOC=0

Discharged from inpatient setting within past 14 days : INPAT_DC

IFM1000_DC_NONE_14_DA[1] = 00 THEN INPAT_DC = 1 ELSE INPAT_DC = 0

Lives alone with round the clock assistance : M1100 LIVSTAT1

IF (M1100_PTNT_LVG_STUTN[1] = '01') THEN M1100_LIVSTAT1=1 ELSE M1100_LIVSTAT1=0

Lives alone with regular daytime assistance : M1100 LIVSTAT2

IF (M1100_PTNT_LVG_STUTN[1] = '02') THEN M1100_LIVSTAT2=1 ELSE M1100_LIVSTAT2=0

M1100_LIVSTAT3 *

IF (M1100_PTNT_LVG_STUTN[1] = '03') THEN M1100_LIVSTAT3=1 ELSE M1100_LIVSTAT3=0

Lives alone with occasional/short term assistance : M1100 LIVSTAT4

IF (M1100_PTNT_LVG_STUTN[1] = '04') THEN M1100_LIVSTAT4=1 ELSE M1100_LIVSTAT4=0

Lives alone with no assistance : M1100 LIVSTAT5

IF (M1100_PTNT_LVG_STUTN[1] = '05') THEN M1100_LIVSTAT5=1 ELSE M1100_LIVSTAT5=0

Lives with other person(s) with around the clock assistance : M1100 LIVSTAT6

IF (M1100_PTNT_LVG_STUTN[1] = '06') THEN M1100_LIVSTAT6=1 ELSE M1100_LIVSTAT6=0

Lives with other person(s) with regular daytime assistance : M1100 LIVSTAT7

IF (M1100_PTNT_LVG_STUTN[1] = '07') THEN M1100_LIVSTAT7=1 ELSE M1100_LIVSTAT7=0

Risk Factors that Are Calculated Directly from OASIS Data

Lives with other person(s) with regular nighttime assistance : M1100 LIVSTAT8

IF (M1100_PTNT_LVG_STUTN[1] = '08') THEN M1100_LIVSTAT8=1 ELSE M1100_LIVSTAT8=0

Lives with other person(s) with occasional/short term assistance : M1100 LIVSTAT9

IF (M1100_PTNT_LVG_STUTN[1] = '09') THEN M1100_LIVSTAT9=1 ELSE M1100_LIVSTAT9=0
M1100_LIVSTAT10 *

IF (M1100_PTNT_LVG_STUTN[1] = '10') THEN M1100_LIVSTAT10=1 ELSE M1100_LIVSTAT10=0

Lives in congregate situation with around the clock assistance : M1100 LIVSTAT11

IF (M1100_PTNT_LVG_STUTN[1] = '11') THEN M1100_LIVSTAT11=1 ELSE M1100_LIVSTAT11=0

Lives in congregate situation with regular daytime assistance : M1100 LIVSTAT12

IF (M1100_PTNT_LVG_STUTN[1] = '12') THEN M1100_LIVSTAT12=1 ELSE M1100_LIVSTAT12=0

Lives in congregate situation with regular nighttime assistance : M1100 LIVSTAT13

IF (M1100_PTNT_LVG_STUTN[1] = '13') THEN M1100_LIVSTAT13=1 ELSE M1100_LIVSTAT13=0

Lives in congregate situation - occasional/short term assistance : M1100 LIVSTAT14

IF (M1100_PTNT_LVG_STUTN[1] = '14') THEN M1100_LIVSTAT14=1 ELSE M1100_LIVSTAT14=0
M1100_LIVSTAT15 *

IF (M1100_PTNT_LVG_STUTN[1] = '15') THEN M1100_LIVSTAT15=1 ELSE M1100_LIVSTAT15=0

M1610_URINCONT0 *

IF (M1610_UR_INCONT[1] = '00') THEN M1610_URINCONT0=1 ELSE M1610_URINCONT0=0

Urinary incontinence/catheter: Incontinent : M1610 URINCONT1

IF (M1610_UR_INCONT[1] = '01') THEN M1610_URINCONT1=1 ELSE M1610_URINCONT1=0

Urinary incontinence/catheter: Catheter : M1610 URINCONT2

IF (M1610_UR_INCONT[1] = '02') THEN M1610_URINCONT2=1 ELSE M1610_URINCONT2=0

Pressure Ulcer: None present : PU None

IF (M1306_UNHLD_STG2_PRSR_ULCR[1] = 0 AND M1322_NBR_PRSULC_STG1[1] = 00) THEN
PU_ANY34 = 1 ELSE PU_ANY34 = 0