

**HOME HEALTH AGENCY PATIENT-RELATED CHARACTERISTICS REPORTS:
TECHNICAL DOCUMENTATION OF MEASURES**

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

October 21, 2010

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HOME HEALTH AGENCY PATIENT-RELATED CHARACTERISTICS REPORTS: TECHNICAL DOCUMENTATION OF MEASURES

INTRODUCTION

This document provides definitions of measures that appear in the Home Health Agency Patient-Related Characteristics Reports, including detailed specifications for calculating these measures based on OASIS assessment data.

Episodes of Care Included in Home Health Agency Reports

The unit of analysis for outcome, potentially avoidable events, process quality, and patient-related characteristics reports is an episode of care, defined as starting with an admission to home health care (M0100 Reason for assessment = 01) or resumption of home health care after an inpatient facility stay (M0100 Reason for assessment = 03), and ending with a discharge from home health care, including discharge due to death, or admission to inpatient facility for 24 hours or more (M0100 Reason for assessment = 06, 07, 08, or 09). The data upon which these reports are based consist of OASIS assessments submitted by home health agencies to the states, which are then transmitted to a national OASIS repository residing on a secure database server maintained by CMS. Analysis records corresponding to episodes of care are constructed by matching up assessments for each individual served by a home health agency, sorting those assessments by effective date, then pairing up assessments that mark the beginning and end of an episode of care. Episodes of care for which either the beginning or end assessment is missing, or for which assessments are out of sequence, are not included in these reports.

The process of building episode-level records, including the calculation of an indicator to determine if the episode of care is a long term or short term episode of care, is as follows:

1. Sort assessments by home health agency ID, patient ID and effective date, latest to earliest. (When working with assessment records from the OASIS National Repository, home health agency ID is actually a combination of the two position state abbreviation and Facility Internal ID, and Patient ID is a combination of the state abbreviation and Resident Internal ID.)
2. For each set of assessments having the same combination of home health agency ID and patient ID, step through the assessments to find the latest assessment with M0100_ASSMT_REASON = 06, 07, 08, or 09. Set ST-Episode = 1.

3. Continue stepping through earlier assessments, carrying over the value of ST_Episode from the later assessment.
4. If an assessment with M0100_ASSMT_REASON = 06, 07, 08, or 09 is found before an assessment with M0100_ASSMT_REASON = 01 or 03 is found, discard the episode being built and start over with step 2.
5. If an assessment with M0100_ASSMT_REASON = 04 or 05 is found before an assessment with M0100_ASSMT_REASON = 01 or 03 is found, set ST_Episode to 0 and continue stepping through assessments.
6. When an assessment with M0100_ASSMT_REASON = 01 or 03 is found, the episode is complete. Create an episode record with home health agency ID, patient ID, beginning assessment ID, ending assessment ID, begin and end dates for the episode and the ST_Episode indicator. If there are more assessments for this patient, start building a new episode beginning with step 2.
7. If no assessment with M0100_ASSMT_REASON = 01 or 03 is found before the assessments for this patient are exhausted, discard the episode being built.

Assumptions and Conventions

The following transformations result in measures with numeric values. For process and outcome measures, "1" indicates that the outcome event occurred or the process was followed, while "0" indicates the outcome event did not occur or the process was not followed. For the patient-related characteristics reports, three types of measures exist. For patient attribute measures, "1" indicates the presence of an attribute and "0" indicates its absence. For ordinal measures, zero indicates no measurable impairment or absence of a medical problem and higher numeric values indicate greater impairment of higher severity of a medical problem. For count measures, the numeric value of the measure indicates a count (e.g., of pressure ulcers). When the instructions indicate that a measure is to be set to "MISSING", the case is excluded from analysis for that particular measure, either because the measure is not applicable or because a data item on which that measure is based has been indicated as "unknown".

OASIS data items are referred to in this documentation using field names specified in OASIS Data Submission Specifications published by CMS. "[1]" is appended to the field name if the value is taken from the beginning assessment (Start or Resumption of Care), and "[2]" is appended if the value is to be taken from the ending assessment for an episode (Discharge, Transfer, or Death).

Measures Included in Reports

Throughout the remainder of this document, measures are referred to as follows:

Patient-Related Characteristics Measure

Domain and Descriptive Measure Name

Short Measure Name

PATIENT HISTORY

Demographics

Age (years)	AGE
Gender: Female (%)	GENDER
Race: Black (%)	RACE_BLACK
Race: White (%)	RACE_WHITE
Race: Other (%)	RACE_OTHER

Payment Source

Any Medicare (%)	PAY_MCARE
Any Medicaid (%)	PAY_MCAID
Any HMO (%)	PAY_HMO
Medicare HMO (%)	PAY_MCHMO
Other (%)	PAY_OTHER

Episode Start

Episode timing : Early (%)	TIME_EARLY
Episode timing: Later (%)	TIME_LATER
Episode timing: Unknown (%)	TIME_UK

Inpatient Discharge / Medical Regimen Change

Long-term nursing facility (%)	INPT_LTC
Skilled nursing facility (%)	INPT_SNF
Short-stay acute hospital (%)	INPT_STH0SP
Long-term care hospital (%)	INPT_LTH0SP
Inpatient rehab hospital/unit (%)	INPT_REHAB
Psychiatric hospital/unit (%)	INPT_PSYCH

Medical regimen change (%)	MED_REG_CHNG
----------------------------	--------------

Prior Conditions

Urinary incontinence (%)	P_UR_INCON
Indwelling/suprapubic catheter (%)	P_CATH
Intractable pain (%)	P_INTRACT_PAIN
Impaired decision-making (%)	P_IMPR_DECSN
Disruptive/Inappropriate behav. (%)	P_DISRUPTIVE
Memory loss (%)	P_MEM_LOSS
None Listed (%)	P_NONE
No inpatient discharge / regimen change (%)	NO_INPAT_DC_REG_CHNG

**Patient-Related Characteristics Measure
Domain and Descriptive Measure Name**

Short Measure Name

Therapies

IV/infusion therapy (%)

IVTHER_IV

Parenteral nutrition (%)

IVTHER_PAREN

Enteral nutrition (%)

IVTHER_ENTERAL

GENERAL HEALTH STATUS

Hospitalization Risks

Recent decline mental/emot/behav (%)

RISK_RCNT_DCLN

Multiple hospitalizations (%)

RISK_MLTPL_HOSPZTN

History of falls (%)

RISK_HSTRY_FALLS

5 or more medications (%)

RISK_5PLUS_MDCTN

Hospitalization Risks (cont'd.)

Frailty factors (%)

RISK_FRAILTY

Other (%)

RISK_OTHR

None (%)

RISK_NONE

Overall Status

Overall Status (0-3)

OVERALL_STATUS

Unknown / Unclear (%)

OVERALL_STATUS_UK

Other Risk Factors

Smoking (%)

RISK_SMOKING

Obesity (%)

RISK_OBESITY

Alcohol dependency (%)

RISK_ALCOHOLISM

Drug dependency (%)

RISK_DRUGS

None (%)

RISK_NONE

LIVING ARRANGEMENT / ASSISTANCE

Current Situation

Lives alone (%)

LIV_ALONE

Lives with others (%)

LIV_OTHERS

Lives in congregate situation (%)

LIV_CONGEGRATE

Availability of Assistance

Around the clock (%)

AVAIL_RTC

Regular daytime (%)

AVAIL_DAY

Regular nighttime (%)

AVAIL_NIGHT

Occasional (%)

AVAIL_SOME

None (%)

AVAIL_NONE

CARE MANAGEMENT

ADLs

None needed (%)

ADL_NONE_NEEDED

Caregiver currently provides (%)

ADL_CG_PROVIDES

**Patient-Related Characteristics Measure
Domain and Descriptive Measure Name**

Short Measure Name

Caregiver training needed (%)

ADL_NEED_TRAINING

Uncertain/Unlikely to be provided (%)

ADL_CG_UNCERTAIN

Needed, but not available (%)

ADL_CG_NONE

IADLs

None needed (%)

IADL_NONE_NEEDED

Caregiver currently provides (%)

IADL_CG_PROVIDES

Caregiver training needed (%)

IADL_NEED_TRAINING

Uncertain/Unlikely to be provided (%)

IADL_CG_UNCERTAIN

Needed, but not available (%)

IADL_CG_NONE

Frequency of ADL / IADL assistance (1-5)

FREQ_CG_ASSIST

Medication Administration

None needed (%)

MDCTN_NONE_NEEDED

Caregiver currently provides (%)

MDCTN_CG_PROVIDES

Caregiver training needed (%)

MDCTN_NEED_TRAINING

Uncertain/Unlikely to be provided (%)

MDCTN_CG_UNCERTAIN

Needed, but not available (%)

MDCTN_CG_NONE

Medical Procedures

None needed (%)

PRCDR_NONE_NEEDED

Caregiver currently provides (%)

PRCDR_CG_PROVIDES

Caregiver training needed (%)

PRCDR_NEED_TRAINING

Uncertain/Unlikely to be provided (%)

PRCDR_CG_UNCERTAIN

Needed, but not available (%)

PRCDR_CG_NONE

Management of Equipment

None needed (%)

EQUIP_NONE_NEEDED

Caregiver currently provides (%)

EQUIP_CG_PROVIDES

Caregiver training needed (%)

EQUIP_NEED_TRAINING

Uncertain/Unlikely to be provided (%)

EQUIP_CG_UNCERTAIN

Needed, but not available (%)

EQUIP_CG_NONE

Supervision / Safety

None needed (%)

SPRVSN_NONE_NEEDED

Caregiver currently provides (%)

SPRVSN_CG_PROVIDES

Caregiver training needed (%)

SPRVSN_NEED_TRAINING

Uncertain/Unlikely to be provided (%)

SPRVSN_CG_UNCERTAIN

Needed, but not available (%)

SPRVSN_CG_NONE

Advocacy

None needed (%)

ADVCY_NONE_NEEDED

Caregiver currently provides (%)

ADVCY_CG_PROVIDES

Caregiver training needed (%)

ADVCY_NEED_TRAINING

**Patient-Related Characteristics Measure
Domain and Descriptive Measure Name**

Short Measure Name

Uncertain/Unlikely to be provided (%)
Needed, but not available (%)

ADVCY_CG_UNCERTAIN
ADVCY_CG_NONE

SENSORY STATUS

Vision impairment (0-2)
Hearing impairment (0-2)
Verbal content understanding (0-3)
Speech/language (0-5)
Pain interfering with activity (0-4)

VISION
HEARING
VERBAL_UNDERSTAND
SPEECH
PAIN

INTEGUMENTARY STATUS

Pressure Ulcers

Pressure ulcer risk (%)
Pressure ulcer present (%)
Stage II pressure ulcer count (#)
Stage III pressure ulcer count (#)
Stage IV pressure ulcer count (#)
Unstageable pressure ulcer count (#)
Status most problematic PU (0-3)
Stage I pressure ulcer count (0-4)
Stage most problematic PU (1-4)

PRES_ULC_RISK
PRES_ULC
PRES_ULC_STG2
PRES_ULC_STG3
PRES_ULC_STG4
PRES_ULC_NO_STG
PRES_ULC_STATUS
PRES_ULC_STG1
PRES_ULC_STG

Stasis Ulcers

Stasis ulcer indicator (%)
Stasis ulcer count (0-4)
Status most problematic stasis (0-3)

STAS_ULCR
STAS_ULCR_CNT
STAS_ULCR_STAT

Surgical Wounds

Surgical wound indicator (%)
Status most problematic surg. (0-3)

SRGCL_WND
SRGCL_WND_STAT

Other

Skin lesion with intervention (%)

WND_LESION

PHYSIOLOGICAL STATUS

Respiratory

Dyspnea (0-4)
Oxygen therapy(%)
Ventilator therapy(%)
CPAP/BPAP therapy (%)

DYSPNEA
OXY_THERAPY
VENT_THERAPY
AIRPRESS_THERAPY

Elimination Status

Urinary tract infection (%)
Urinary incontinence/catheter (%)
Urinary incontinence frequency (0-4)

UTI
INCONT_CATH
INCONT_FREQ

Patient-Related Characteristics Measure**Domain and Descriptive Measure Name****Short Measure Name**

Bowel incontinence (0-5)

BOWEL_INCONT

Bowel ostomy (%)

OSTOMY

NEURO / EMOTIONAL / BEHAVIORAL**Cognition**

Cognitive deficit (0-4)

COG_FUNC

Confusion frequency (0-4)

CONFUSION

Emotional

Anxiety level (0-3)

ANXIETY

Depression indicator (%)

DEPRESSION

PHQ-2: Interest / Pleasure (0-3)

PHQ2_INTEREST

PHQ-2: Down / Depressed (0-3)

PHQ2_DOWN

Behavioral

Memory deficit (%)

MEM_DEFICIT

Impaired decision-making (%)

IMPR_DECISN

Verbal disruption (%)

VERBAL_DISRUPT

Physical aggression (%)

AGGRESSION

Disruptive/inappropriate behavior (%)

INAPPRO_BHV

Delusional, hallucinatory, etc. (%)

DELUSIONS

None demonstrated (%)

NOBHV

Frequency of behavior problems (0-5)

BEH_PROB_FREQ

Psychiatric nursing (%)

PSYCH_NURS

ACTIVITIES OF DAILY LIVING**SOC / ROC Status**

Grooming (0-3)

GROOMING

Dress upper body (0-3)

DRESS_UPPER

Dress lower body (0-3)

DRESS_LOWER

Bathing (0-6)

BATHING

Toilet Transfer (0-4)

TOILET_TRANSFER

Toileting Hygiene (0-3)

TOILET_HYGIENE

Bed Transferring (0-5)

TRANSFERRING

Ambulation (0-6)

AMBULATION

Eating (0-5)

FEEDING

Status prior to SOC/ROC

Prior Self-Care (0-2)

P_SELF_CARE

Prior Ambulation (0-2)

P_AMBULATION

Prior Transfer (0-2)

P_TRANSFER

**Patient-Related Characteristics Measure
Domain and Descriptive Measure Name
IADLs, MEDICATIONS, OTHER**

Short Measure Name

IADLs

Light meal prep (0-2)

MEAL_PREP

Phone use (0-5)

PHONE_USE

Prior Household (0-2)

P_HOUSEHOLD

Falls Risk

At risk for falls (%)

FALL_RISK

Medication Status

Drug regimen: problem found (%)

MED_PROBLEM

Mgmt oral medications (SOC/ROC) (0-3)

ORAL_MEDS

Mgmt oral medications(SOC/ROC): NA (%)

ORAL_MED_NA

Mgmt injected meds (SOC/ROC) (0-3)

INJECT_MEDS

Mgmt injected meds (SOC/ROC): NA (%)

INJECT_MED_NA

Prior mgmt oral medications (0-3)

P_ORAL_MEDS

Prior mgmt oral medications: NA (%)

P_ORAL_MED_NA

Prior mgmt injected medication (0-3)

P_INJECT_MEDS

Prior mgmt injected medication: NA (%)

P_INJECT_MED_NA

THERAPY / PLAN OF CARE

Therapy Visits

Therapy visits indicated (#)

THERAPY_NEED

PATIENT DIAGNOSTIC INFORMATION

Acute Conditions

Orthopedic (%)

ACUTE_ORTHO

Neurologic (%)

ACUTE_NEURO

Open wounds/lesions (%)

ACUTE_WOUND

Cardiac/peripheral vascular (%)

ACUTE_CARDIO

Pulmonary (%)

ACUTE_LUNG

Diabetes mellitus (%)

ACUTE_DIABETES

Gastrointestinal disorder (%)

ACUTE_GI

Contagious/communicable (%)

ACUTE_CONTAGIOUS

Urinary incont./catheter (%)

ACUTE_INCONT

Mental/emotional (%)

ACUTE_PSYCH

Oxygen therapy (%)

ACUTE_O2

IV/infusion therapy (%)

ACUTE_IV

Enteral/parenteral nutrition (%)

ACUTE_ENT_PAR_NUTRI

Ventilator (%)

ACUTE_VENT

Chronic Conditions

Dependence in living skills (%)

CHRONIC_LIV_SKILL

**Patient-Related Characteristics Measure
Domain and Descriptive Measure Name**

Short Measure Name

Dependence in personal care (%)	CHRONIC_PERS_CARE
Impaired ambulation/mobility (%)	CHRONIC_MOBILITY
Urinary incontinence/catheter (%)	CHRONIC_INCONT_CATH
Dependence in med. admin. (%)	CHRONIC_MED_ADMIN
Chronic pain (%)	CHRONIC_PAIN
Cognitive/mental/behavioral (%)	CHRONIC_MENT_BEHAV
Chronic pt. with caregiver (%)	CHRONIC_ANY_W.CG

Home Care Diagnoses

Infections/parasitic diseases (%)	HC_DX_INFECT
Neoplasms (%)	HC_DX_NEOPLASM
Endocrine/nutrit./metabolic (%)	HC_DX_ENDOCRINE
Blood diseases (%)	HC_DX_BLOOD
Mental diseases (%)	HC_DX_MENTAL
Nervous system diseases (%)	HC_DX_NERVOUS
Circulatory system diseases (%)	HC_DX_CIRCULATORY
Respiratory system diseases (%)	HC_DX_RESPIRATORY
Digestive system diseases (%)	HC_DX_DIGESTIVE
Genitourinary sys. diseases (%)	HC_DX_GEN_URINARY
Pregnancy problems (%)	HC_DX_PREGNANCY
Skin/subcutaneous diseases (%)	HC_DX_SKIN
Musculoskeletal sys. diseases (%)	HC_DX_MUSCL_SKEL
Congenital anomalies (%)	HC_DX_CONGENITAL
Ill-defined conditions (%)	HC_DX_ILL_DEFINED
Fractures (%)	HC_DX_FRACTURE
Intracranial injury (%)	HC_DX_CRANIAL
Other injury (%)	HC_DX_INJURY_OTH
Iatrogenic conditions (%)	HC_DX_IATROGENIC

PATIENT DISCHARGE INFORMATION

Length of Stay

LOS until discharge (in days)	HC_LOS
LOS from 1 to 30 days (%)	HC_LOS_1_30
LOS from 31 to 60 days (%)	HC_LOS_31_60
LOS from 61 to 120 days (%)	HC_LOS_61_120
LOS from 121 to 365 days (%)	HC_LOS_121_365
LOS more than 365 days (%)	HC_LOS_GT_365

Reason for Emergent Care

Improper medications (%)	EC_REASON_MEDS
Injury from fall (%)	EC_REASON_FALL

**Patient-Related Characteristics Measure
Domain and Descriptive Measure Name**

Short Measure Name

Respiratory infection (%)	EC_REASON_RESP_INF
Other respiratory (%)	EC_REASON_RESP_OTHER
Heart failure (%)	EC_REASON_HEART_FAIL
Cardiac dysrhythmia (%)	EC_REASON_DYSRHYTHMIA
Myocardial infarction (%)	EC_REASON_AMI
Other heart disease (%)	EC_REASON_HEART_OTHER
Stroke (CVA) or TIA (%)	EC_REASON_STROKE_TIA
Hypo/Hyperglycemia (%)	EC_REASON_HI_LO_BG
GI bleeding, obstruction, etc. (%)	EC_REASON_GI
Dehydration, malnutrition (%)	EC_REASON_NUTRITION
Urinary tract infection (%)	EC_REASON_UTI
IV catheter-related infection (%)	EC_REASON_IV_INFECT
Wound infection (%)	EC_REASON_WOUND_INFCT
Uncontrolled pain (%)	EC_REASON_PAIN
Acute mental/behav. problem (%)	EC_REASON_MENTAL_BEHAV
Deep vein thrombosis (%)	EC_REASON_THROMBOSIS
Other (%)	EC_REASON_OTHER
No emergent care (%)	NO_EMERGENT_CARE
<i>Reason for Hospitalization</i>	
Improper medication (%)	HOSP_REASON_MEDS
Injury from fall (%)	HOSP_REASON_FALL
Respiratory infection (%)	HOSP_REASON_RESP_INF
Other respiratory (%)	HOSP_REASON_RESP_OTHER
Heart failure (%)	HOSP_REASON_HEART_FAIL
Cardiac dysrhythmia (%)	HOSP_REASON_DYSRHYTHMIA
Myocardial infarction (%)	HOSP_REASON_AMI
Other heart disease (%)	HOSP_REASON_HEART_OTHER
Stroke (CVA) or TIA (%)	HOSP_REASON_STROKE_TIA
Hypo/Hyperglycemia (%)	HOSP_REASON_HI_LO_BG
GI bleeding, obstruction, etc. (%)	HOSP_REASON_GI
Dehydration, malnutrition (%)	HOSP_REASON_NUTRITION
Urinary tract infection (%)	HOSP_REASON_UTI
IV catheter-related infection (%)	HOSP_REASON_IV_INFECT
Wound infection (%)	HOSP_REASON_WOUND_INFCT
Uncontrolled pain (%)	HOSP_REASON_PAIN
Acute mental/behav. problem (%)	HOSP_REASON_MENTAL_BEHAV
Deep vein thrombosis (%)	HOSP_REASON_THROMBOSIS
Scheduled visit (%)	HOSP_REASON_SCHED_VISIT

**Patient-Related Characteristics Measure
Domain and Descriptive Measure Name**

Other (%)

No hospitalization (%)

Short Measure Name

HOSP_REASON_OTHER

NO_HOSPITALIZATION

PATIENT CHARACTERISTICS MEASURES TRANSFORMATION PSEUDO-CODE

Note: VALUE(FieldName) indicates conversion of one or two character text field to numeric value.

PATIENT HISTORY

Demographics

Age

IF M0100_ASSMT_REASON[1] = 01

THEN

IF MONTH(M0030_START_CARE_DT[1]) > MONTH(M0066_PAT_BIRTH_DT[1])

OR (MONTH(M0030_START_CARE_DT[1]) =

MONTH(M0066_PAT_BIRTH_DT[1])

AND DAY(M0030_START_CARE_DT[1]) >=

DAY(M0066_PAT_BIRTH_DT[1]))

THEN

AGE = YEAR(M0030_START_CARE_DT[1]) -

YEAR(M0066_PAT_BIRTH_DT[1])

ELSE

AGE = YEAR(M0030_START_CARE_DT[1]) -

YEAR(M0066_PAT_BIRTH_DT[1])-1

ELSE

IF MONTH(M0032_ROC_DT[1]) > MONTH(M0066_PAT_BIRTH_DT[1])

OR (MONTH(M0032_ROC_DT[1]) = MONTH(M0066_PAT_BIRTH_DT[1])

AND DAY(M0032_ROC_DT[1]) >= DAY(M0066_PAT_BIRTH_DT[1]))

THEN

AGE = YEAR(M0032_ROC_DT[1]) - YEAR(M0066_PAT_BIRTH_DT[1])

ELSE

AGE = YEAR(M0032_ROC_DT[1]) - YEAR(M0066_PAT_BIRTH_DT[1])-1

END IF

Gender: Female

IF M0069_PAT_GENDER[1] = 2

THEN

GENDER = 1

ELSE

GENDER = 0

END IF

Race: Black (%)

```
IF M0140_ETHNIC_BLACK[1] = 1
THEN
    RACE_BLACK = 1
ELSE
    RACE_BLACK = 0
END IF
```

Race: White (%)

```
IF M0140_ETHNIC_WHITE[1] = 1
THEN
    RACE_WHITE = 1
ELSE
    RACE_WHITE = 0
END IF
```

Race: Other (%)

Note: Previously this category was restricted to patients for whom neither white nor black was indicated. Now it includes patients for whom any other category is indicated, even if black or white is also indicated.

```
IF M0140_ETHNIC_AI_AN[1] = 1 OR M0140_ETHNIC_ASIAN[1] = 1 OR
    M0140_ETHNIC_HISP[1] = 1 OR M0140_ETHNIC_NH_PI[1] = 1
THEN
    RACE_OTHER = 1
ELSE
    RACE_OTHER = 0
END IF
```

Payment Source

Any Medicare (%)

```
IF M0150_CPAY_MCARE_FFS[1] = 1 OR M0150_CPAY_MCARE_HMO[1] = 1
THEN
    PAY_MCARE = 1
ELSE
    PAY_MCARE = 0
END IF
```

Any Medicaid (%)

```
IF M0150_CPAY_MCAID_FFS[1] = 1 OR M0150_CPAY_MCAID_HMO[1] = 1
THEN
```

PAY_MCAID = 1
ELSE
PAY_MCAID = 0
END IF

Any HMO (%)

IF M0150_CPAY_MCARE_HMO[1] = 1 OR M0150_CPAY_MCAID_HMO[1] = 1 OR
M0150_CPAY_PRIV_HMO[1] = 1
THEN
PAY_HMO = 1
ELSE
PAY_HMO = 0
END IF

Medicare HMO (%)

IF M0150_CPAY_MCARE_HMO[1] = 1
THEN
PAY_MCHMO = 1
ELSE
PAY_MCHMO = 0
END IF

Any Other (%)

Note: Previous reports (based on OASIS-B1 data) included only private insurance and/or private HMO in this measure. Now it includes all government programs other than Medicare/Medicaid, private insurance (FFS), self-pay, and unpaid care.

IF M0150_CPAY_WRKCOMP[1] = 1 OR M0150_CPAY_TITLEPGMS[1] = 1 OR
M0150_CPAY_OTH_GOVT[1] = 1 OR M0150_CPAY_PRIV_INS[1] = 1 OR
M0150_CPAY_SELF_PAY[1] = 1 OR M0150_CPAY_OTHER[1] = 1 OR
M0150_CPAY_NONE[1] = 1
THEN PAY_OTHER = 1
ELSE
PAY_OTHER = 0
END IF

Missing data exclusions for Payment Source (This exclusion does not apply to data residing on OASIS national repository, because records with missing payment source will not be accepted by the submission system.)

IF M0150_CPAY_UNKNOWN[1] = 1
THEN

PAY_MCARE = MISSING
PAY_MCAID = MISSING
PAY_HMO = MISSING
PAY_MC_HMO = MISSING
PAY_OTHER = MISSING

END IF

Episode Start

Episode Timing: Early (%)

IF M0110_EPISODE_TIMING[1] = NA
THEN
 TIME_EARLY = MISSING
ELSEIF M0110_EPISODE_TIMING[1] = 01
THEN
 TIME_EARLY = 1
ELSE
 TIME_EARLY = 0
END IF

Episode Timing: Later (%)

IF M0110_EPISODE_TIMING[1] = NA
THEN
 TIME_LATER = MISSING
ELSEIF M0110_EPISODE_TIMING[1] = 02
THEN
 TIME_LATER = 1
ELSE
 TIME_LATER = 0
END IF

Episode Timing: Unknown (%)

IF M0110_EPISODE_TIMING[1] = NA
THEN
 TIME_UK = MISSING
ELSEIF M0110_EPISODE_TIMING[1] = UK
THEN
 TIME_UK = 1
ELSE
 TIME_UK = 0
END IF

Inpatient Discharge / Change in Medical Regimen

Long-term nursing facility (%)

```
IF M1000_DC_LTC_14_DA[1] = 1
    THEN
        INPT_LTC = 1
    ELSE
        INPT_LTC = 0
    END IF
```

Skilled nursing facility (%)

```
IF M1000_DC_SNF_14_DA[1] = 1
    THEN
        INPT_SNF = 1
    ELSE
        INPT_SNF = 0
    END IF
```

Short-stay acute hospital (%)

```
IF M1000_DC_IPPS_14_DA[1] = 1
    THEN INPT_STHOSP = 1
    ELSE IF M1000_DC_IPPS_14_DA[1] = 0
    THEN INPT_STHOSP = 0
    END IF
```

Long-term care hospital (%)

```
IF M1000_DC_LTCH_14_DA[1] = 1
    THEN
        INPT_LTHOSP = 1
    ELSE
        INPT_LTHOSP = 0
    END IF
```

Inpatient rehab hospital/unit (%)

```
IF M1000_IRF_14_DA[1] = 1
    THEN
        INPT_REHAB = 1
    ELSE
        INPT_REHAB = 0
    END IF
```

Psychiatric hospital/unit (%)

```
IF M1000_PSYCH_14_DA[1] = 1
THEN
    INPT_PSYCH = 1
ELSE
    INPT_PSYCH = 0
END IF
```

Medical regimen change (%)

```
IF M1016_CHGREG_ICD_NA[1] = 1
THEN
    MED_REG_CHNG = 0
ELSE
    MED_REG_CHNG = 1
END IF
```

Prior Conditions

Urinary incontinence (%)

```
IF M1018_PRIOR_NOCHG_14D[1] = 1 OR M1018_PRIOR_UNKNOWN[1] = 1
THEN
    P_UR_INCON = MISSING
ELSEIF M1018_PRIOR_UR_INCON[1] = 1
THEN
    P_UR_INCON = 1
ELSE
    P_UR_INCON = 0
END IF
```

Indwelling/suprapubic catheter (%)

```
IF M1018_PRIOR_NOCHG_14D[1] = 1 OR M1018_PRIOR_UNKNOWN[1] = 1
THEN
    P_CATH = MISSING
ELSEIF M1018_PRIOR_CATH[1] = 1
THEN
    P_CATH = 1
ELSE
    P_CATH = 0
END IF
```

Intractable pain (%)

```
IF M1018_PRIOR_NOCHG_14D[1] = 1 OR M1018_PRIOR_UNKNOWN[1] = 1
THEN
    P_INTRACT_PAIN = MISSING
ELSEIF M1018_PRIOR_INTRACT_PAIN[1] = 1
THEN
    P_INTRACT_PAIN = 1
ELSE
    P_INTRACT_PAIN = 0
END IF
```

Impaired decision-making (%)

```
IF M1018_PRIOR_NOCHG_14D[1] = 1 OR M1018_PRIOR_UNKNOWN[1] = 1
THEN
    P_IMPR_DECSN = MISSING
ELSEIF M1018_PRIOR_IMPR_DECSN[1] = 1
THEN
    P_IMPR_DECSN = 1
ELSE
    P_IMPR_DECSN = 0
END IF
```

Disruptive/Inappropriate behav. (%)

```
IF M1018_PRIOR_NOCHG_14D[1] = 1 OR M1018_PRIOR_UNKNOWN[1] = 1
THEN
    P_DISRUPTIVE = MISSING
ELSEIF M1018_PRIOR_DISRUPTIVE[1] = 1
THEN
    P_DISRUPTIVE = 1
ELSE
    P_DISRUPTIVE = 0
END IF
```

Memory loss (%)

```
IF M1018_PRIOR_NOCHG_14D[1] = 1 OR M1018_PRIOR_UNKNOWN[1] = 1
THEN
    P_MEM_LOSS = MISSING
ELSEIF M1018_PRIOR_MEM_LOSS[1] = 1
THEN
    P_MEM_LOSS = 1
```

ELSE
 P_MEM_LOSS = 0
END IF

None listed (%)

IF M1018_PRIOR_NOCHG_14D[1] = 1 **OR** M1018_PRIOR_UNKNOWN[1] = 1
THEN
 P_NONE = MISSING
ELSEIF M1018_PRIOR_NONE[1] = 1
THEN
 P_NONE = 1
ELSE
 P_NONE = 0
END IF

No inpatient discharge / regimen change (%)

IF M1016_CHGREG_ICD_NA[1] = 1 **AND** M1000_DC_NONE_14_DA[1] = 1
THEN
 NO_INPAT_DC_REG_CHNG = 1
ELSE
 NO_INPAT_DC_REG_CHNG = 0
END IF

Therapies

IV/infusion therapy (%)

IF M1030_THH_IV_INFUSION = 1
THEN
 IVTHER_IV = 1
ELSE
 IVTHER_IV = 0
END IF

Parenteral nutrition (%)

IF M1030_THH_PAR_NUTRITION = 1
THEN
 IVTHER_PAREN = 1
ELSE
 IVTHER_PAREN = 0
END IF

Enteral nutrition (%)

```
IF M1030_THH_ENT_NUTRITION = 1
THEN
    IVTHER_ENTERAL = 1
ELSE
    IVTHER_ENTERAL = 0
END IF
```

GENERAL HEALTH STATUS

Hospitalization Risks

Recent decline mental/emot/behav (%)

```
IF M1032_HOSP_RISK_RCNT_DCLN = 1
THEN
    RISK_RCNT_DCLN = 1
ELSE
    RISK_RCNT_DCLN = 0
END IF
```

Multiple hospitalizations (%)

```
IF M1032_HOSP_RISK_MLTPL_HOSPZTN = 1
THEN
    RISK_MLTPL_HOSPZTN = 1
ELSE
    RISK_MLTPL_HOSPZTN = 0
END IF
```

History of falls (%)

```
IF M1032_HOSP_RISK_HSTRY_FALLS = 1
THEN
    RISK_HSTRY_FALLS = 1
ELSE
    RISK_HSTRY_FALLS = 0
END IF
```

5 or more medications (%)

```
M1032_HOSP_RISK_5PLUS_MDCTN
IF M1032_HOSP_RISK_5PLUS_MDCTN = 1
THEN
    RISK_5PLUS_MDCTN = 1
```

ELSE
 RISK_5PLUS_MDCTN = 0
END IF

Frailty factors (%)

IF M1032_HOSP_RISK_FRAILTY = 1
THEN
 RISK_FRAILTY = 1
ELSE
 RISK_FRAILTY = 0
END IF

Other (%)

IF M1032_HOSP_RISK_OTHR = 1
THEN
 RISK_OTHR = 1
ELSE
 RISK_OTHR = 0
END IF

None (%)

IF M1032_HOSP_RISK_NONE_ABOVE = 1
THEN
 RISK_NONE = 1
ELSE
 RISK_NONE = 0
END IF

Overall Status

Overall status (0-3)

IF M1034_PTNT_OVRAL_STUS[1] = UK
THEN
 OVERALL_STATUS = MISSING
ELSE
 OVERALL_STATUS = VALUE(M1034_PTNT_OVRAL_STUS[1])
END IF

Overall status unknown/unclear (%)

IF M1034_PTNT_OVRAL_STUS[1] = UK
THEN

```
OVERALL_STATUS_UK = 1
ELSE
OVERALL_STATUS_UK = 0
END IF
```

Other Risk Factors

Smoking (%)

```
IF M1036_RSK_UNKNOWN[1] = 1
THEN
RISK_SMOKING = MISSING
ELSE
RISK_SMOKING = VALUE(M1036_RSK_SMOKING[1])
END IF
```

Obesity (%)

```
IF M1036_RSK_UNKNOWN[1] = 1
THEN
RISK_OBESITY = MISSING
ELSE
RISK_OBESITY = VALUE(M1036_RSK_OBESITY[1])
END IF
```

Alcohol dependency (%)

```
IF M1036_RSK_UNKNOWN[1] = 1
THEN
RISK_ALCOHOLISM = MISSING
ELSE
RISK_ALCOHOLISM = VALUE(M1036_RSK_ALCOHOLISM[1])
END IF
```

Drug dependency (%)

```
IF M1036_RSK_UNKNOWN[1] = 1
THEN
RISK_DRUGS = MISSING
ELSE
RISK_DRUGS = VALUE(M1036_RSK_DRUGS[1])
END IF
```

None (%)

```
IF M1036_RSK_UNKNOWN[1] = 1
```


THEN
 RISK_NONE = MISSING
ELSE
 RISK_NONE = VALUE(M1036_RSK_NONE[1])
END IF

LIVING ARRANGEMENT / ASSISTANCE

Current Situation

Lives alone (%)

IF M1100_PTNT_LVG_STUTN[1] = 01 **OR** M1100_PTNT_LVG_STUTN[1] = 02
 OR M1100_PTNT_LVG_STUTN[1] = 03 **OR** M1100_PTNT_LVG_STUTN[1] = 04
 OR M1100_PTNT_LVG_STUTN[1] = 05
THEN
 LIV_ALONE = 1
ELSE
 LIV_ALONE = 0
END IF

Lives with others (%)

IF M1100_PTNT_LVG_STUTN[1] = 06 **OR** M1100_PTNT_LVG_STUTN[1] = 07
 OR M1100_PTNT_LVG_STUTN[1] = 08 **OR** M1100_PTNT_LVG_STUTN[1] = 09
 OR M1100_PTNT_LVG_STUTN[1] = 10
THEN
 LIV_OTHERS = 1
ELSE
 LIV_OTHERS = 0
END IF

Lives in congregate situation (%)

IF M1100_PTNT_LVG_STUTN[1] = 11 **OR** M1100_PTNT_LVG_STUTN[1] = 12
 -OR M1100_PTNT_LVG_STUTN[1] = 13 **OR** M1100_PTNT_LVG_STUTN[1] = 14
 OR M1100_PTNT_LVG_STUTN[1] = 15
THEN
 LIV_CONGEGRATE = 1
ELSE
 LIV_CONGEGRATE = 0
END IF

Availability

Around the clock (%)

```
IF M1100_PTNT_LVG_STUTN[1] = 01 OR M1100_PTNT_LVG_STUTN[1] = 06  
    OR M1100_PTNT_LVG_STUTN[1] = 11  
THEN  
    AVAIL_RTC = 1  
ELSE  
    AVAIL_RTC = 0  
END IF
```

Regular daytime (%)

```
IF M1100_PTNT_LVG_STUTN[1] = 02 OR M1100_PTNT_LVG_STUTN[1] = 07  
    OR M1100_PTNT_LVG_STUTN[1] = 12  
THEN  
    AVAIL_DAY = 1  
ELSE  
    AVAIL_DAY = 0  
END IF
```

Regular nighttime (%)

```
IF M1100_PTNT_LVG_STUTN[1] = 03 OR M1100_PTNT_LVG_STUTN[1] = 08  
    OR M1100_PTNT_LVG_STUTN[1] = 13  
THEN  
    AVAIL_NIGHT = 1  
ELSE  
    AVAIL_NIGHT = 0  
END IF
```

Occasional (%)

```
IF M1100_PTNT_LVG_STUTN[1] = 04 OR M1100_PTNT_LVG_STUTN[1] = 09  
    OR M1100_PTNT_LVG_STUTN[1] = 14  
THEN  
    AVAIL_SOME = 1  
ELSE  
    AVAIL_SOME = 0  
END IF
```

None (%)

```
IF M1100_PTNT_LVG_STUTN[1] = 05 OR M1100_PTNT_LVG_STUTN[1] = 10  
    OR M1100_PTNT_LVG_STUTN[1] = 15
```

THEN
 AVAIL_NONE = 1
ELSE
 AVAIL_NONE = 0
END IF

CARE MANAGEMENT

ADLs

None needed (%)

IF M2100_CARE_TYPE_SRC_ADL[1] = 00
THEN
 ADL_ASSIST_NONE_NEEDED = 1
ELSE
 ADL_ASSIST_NONE_NEEDED = 0
END IF

Caregiver currently provides (%)

IF M2100_CARE_TYPE_SRC_ADL[1] = 01
THEN
 ADL_ASSIST_CG_PROVIDES = 1
ELSE
 ADL_ASSIST_CG_PROVIDES = 0
END IF

Caregiver training needed (%)

IF M2100_CARE_TYPE_SRC_ADL[1] = 02
THEN
 ADL_ASSIST_NEED_TRAINING = 1
ELSE
 ADL_ASSIST_NEED_TRAINING = 0
END IF

Uncertain/unlikely to be provided (%)

IF M2100_CARE_TYPE_SRC_ADL[1] = 03 **OR** M2100_CARE_TYPE_SRC_ADL[1] = 04
THEN
 ADL_ASSIST_CG_UNCERTAIN = 1
ELSE
 ADL_ASSIST_CG_UNCERTAIN = 0
END IF

Needed but not available (%)

```
IF M2100_CARE_TYPE_SRC_ADL[1] = 05
THEN
    ADL_CG_NONE = 1
ELSE
    ADL_CG_NONE = 0
END IF
```

IADLs

None needed (%)

```
IF M2100_CARE_TYPE_SRC_IADL[1] = 00
THEN
    IADL_ASSIST_NONE_NEEDED = 1
ELSE
    IADL_ASSIST_NONE_NEEDED = 0
END IF
```

Caregiver currently provides (%)

```
IF M2100_CARE_TYPE_SRC_IADL[1] = 01
THEN
    IADL_CG_PROVIDES = 1
ELSE
    IADL_CG_PROVIDES = 0
END IF
```

Caregiver training needed (%)

```
IF M2100_CARE_TYPE_SRC_IADL[1] = 02
THEN
    IADL_NEED_TRAINING = 1
ELSE
    IADL_NEED_TRAINING = 0
END IF
```

Uncertain/unlikely to be provided (%)

```
IF M2100_CARE_TYPE_SRC_IADL[1] = 03 OR M2100_CARE_TYPE_SRC_IADL[1] = 04
THEN
    IADL_CG_UNCERTAIN = 1
ELSE
    IADL_CG_UNCERTAIN = 0
END IF
```

Needed but not available (%)

```
IF M2100_CARE_TYPE_SRC_IADL[1] = 05
THEN
    IADL_CG_NONE = 1
ELSE
    IADL_CG_NONE = 0
END IF
```

Frequency of ADL IADL Assistance (1-5)

```
IF M2110_ADL_IADL_ASTNC_FREQ[1] = UK
THEN
    FREQ_CG_ASSIST = MISSING
ELSE
    FREQ_CG_ASSIST = VALUE(M2110_ADL_IADL_ASTNC_FREQ[1])
END IF
```

Medication Administration

None needed (%)

```
IF M2100_CARE_TYPE_SRC_MDCTN[1] = 00
THEN
    MDCTN_ASSIST_NONE_NEEDED = 1
ELSE
    MDCTN_ASSIST_NONE_NEEDED = 0
END IF
```

Caregiver currently provides (%)

```
IF M2100_CARE_TYPE_SRC_MDCTN[1] = 01
THEN
    MDCTN_CG_PROVIDES = 1
ELSE
    MDCTN_CG_PROVIDES = 0
END IF
```

Caregiver training needed (%)

```
IF M2100_CARE_TYPE_SRC_MDCTN[1] = 02
THEN
    MDCTN_NEED_TRAINING = 1
ELSE
    MDCTN_NEED_TRAINING = 0
END IF
```

Uncertain/unlikely to be provided (%)

```
IF M2100_CARE_TYPE_SRC_MDCTN[1] = 03
  OR M2100_CARE_TYPE_SRC_MDCTN[1] = 04
THEN
  MDCTN_CG_UNCERTAIN = 1
ELSE
  MDCTN_CG_UNCERTAIN = 0
END IF
```

Needed but not available (%)

```
IF M2100_CARE_TYPE_SRC_MDCTN[1] = 05
THEN
  MDCTN_CG_NONE = 1
ELSE
  MDCTN_CG_NONE = 0
END IF
```

Medical Procedures

None needed (%)

```
IF M2100_CARE_TYPE_SRC_PRCDR[1] = 00
THEN
  PRCDR_ASSIST_NONE_NEEDED = 1
ELSE
  PRCDR_ASSIST_NONE_NEEDED = 0
END IF
```

Caregiver currently provides (%)

```
IF M2100_CARE_TYPE_SRC_PRCDR[1] = 01
THEN
  PRCDR_CG_PROVIDES = 1
ELSE
  PRCDR_CG_PROVIDES = 0
END IF
```

Caregiver training needed (%)

```
IF M2100_CARE_TYPE_SRC_PRCDR[1] = 02
THEN
  PRCDR_NEED_TRAINING = 1
ELSE
  PRCDR_NEED_TRAINING = 0
```

END IF

Uncertain/unlikely to be provided (%)

```
IF M2100_CARE_TYPE_SRC_PRCDR[1] = 03
    OR M2100_CARE_TYPE_SRC_PRCDR[1] = 04
THEN
    PRCDR_CG_UNCERTAIN = 1
ELSE
    PRCDR_CG_UNCERTAIN = 0
END IF
```

Needed but not available (%)

```
IF M2100_CARE_TYPE_SRC_PRCDR[1] = 05
THEN
    PRCDR_CG_NONE = 1
ELSE
    PRCDR_CG_NONE = 0
END IF
```

Management of Equipment

None needed (%)

```
IF M2100_CARE_TYPE_SRC_EQUIP[1] = 00
THEN
    EQUIP_ASSIST_NONE_NEEDED = 1
ELSE
    EQUIP_ASSIST_NONE_NEEDED = 0
END IF
```

Caregiver currently provides (%)

```
IF M2100_CARE_TYPE_SRC_EQUIP[1] = 01
THEN
    EQUIP_CG_PROVIDES = 1
ELSE
    EQUIP_CG_PROVIDES = 0
END IF
```

Caregiver training needed (%)

```
IF M2100_CARE_TYPE_SRC_EQUIP[1] = 02
THEN
    EQUIP_NEED_TRAINING = 1
```

ELSE
 EQUIP_NEED_TRAINING = 0
END IF

Uncertain/unlikely to be provided (%)

IF M2100_CARE_TYPE_SRC_EQUIP[1] = 03
 OR M2100_CARE_TYPE_SRC_EQUIP[1] = 04
THEN
 EQUIP_CG_UNCERTAIN = 1
ELSE
 EQUIP_CG_UNCERTAIN = 0
END IF

Needed but not available (%)

IF M2100_CARE_TYPE_SRC_EQUIP[1] = 05
THEN
 EQUIP_CG_NONE = 1
ELSE
 EQUIP_CG_NONE = 0
END IF

Supervision / Safety

None needed (%)

IF M2100_CARE_TYPE_SRC_SPRVSN[1] = 00
THEN
 SPRVSN_ASSIST_NONE_NEEDED = 1
ELSE
 SPRVSN_ASSIST_NONE_NEEDED = 0
END IF

Caregiver currently provides (%)

IF M2100_CARE_TYPE_SRC_SPRVSN[1] = 01
THEN
 SPRVSN_CG_PROVIDES = 1
ELSE
 SPRVSN_CG_PROVIDES = 0
END IF

Caregiver training needed (%)

IF M2100_CARE_TYPE_SRC_SPRVSN[1] = 02

THEN
 SPRVSN_NEED_TRAINING = 1
ELSE
 SPRVSN_NEED_TRAINING = 0
END IF

Uncertain/unlikely to be provided (%)

IF M2100_CARE_TYPE_SRC_SPRVSN[1] = 03
 OR M2100_CARE_TYPE_SRC_SPRVSN[1] = 04
THEN
 SPRVSN_CG_UNCERTAIN = 1
ELSE
 SPRVSN_CG_UNCERTAIN = 0
END IF

Needed but not available (%)

IF M2100_CARE_TYPE_SRC_SPRVSN[1] = 05
THEN
 SPRVSN_CG_NONE = 1
ELSE
 SPRVSN_CG_NONE = 0
END IF

Advocacy

None needed (%)

IF M2100_CARE_TYPE_SRC_ADVACY[1] = 00
THEN
 ADVACY_ASSIST_NONE_NEEDED = 1
ELSE
 ADVACY_ASSIST_NONE_NEEDED = 0
END IF

Caregiver currently provides (%)

IF M2100_CARE_TYPE_SRC_ADVACY[1] = 01
THEN
 ADVACY_CG_PROVIDES = 1
ELSE
 ADVACY_CG_PROVIDES = 0
END IF

Caregiver training needed (%)

```
IF M2100_CARE_TYPE_SRC_ADV CY[1] = 02
THEN
    ADV CY_NEED_TRAINING = 1
ELSE
    ADV CY_NEED_TRAINING = 0
END IF
```

Uncertain/unlikely to be provided (%)

```
IF M2100_CARE_TYPE_SRC_ADV CY[1] = 03
    OR M2100_CARE_TYPE_SRC_ADV CY[1] = 04
THEN
    ADV CY_CG_UNCERTAIN = 1
ELSE
    ADV CY_CG_UNCERTAIN = 0
END IF
```

Needed but not available (%)

```
IF M2100_CARE_TYPE_SRC_ADV CY[1] = 05
THEN
    ADV CY_CG_NONE = 1
ELSE
    ADV CY_CG_NONE = 0
END IF
```

SENSORY STATUS

Vision impairment (0-2)

```
VISION = VALUE(M1200_VISION[1])
```

Hearing impairment (0-2)

```
IF M1210_HEARG_ABLTY[1] = UK
THEN
    HEARING = MISSING
ELSE
    HEARING = VALUE(M1210_HEARG_ABLTY[1])
END IF
```

Verbal content understanding (0-3)

```
IF M1220_UNDRSTG_VERBAL_CNTNT[1] = UK
THEN
```

VERBAL_UNDERSTAND = MISSING
ELSE
VERBAL_UNDERSTAND = VALUE(M1220_UNDRSTG_VERBAL_CNTNT[1])

END IF Speech/language (0-5)

SPEECH = VALUE(M1230_SPEECH[1])

Pain interfering with activity (0-4)

PAIN = VALUE(M1242_PAIN_FREQ_ACTVTY_MVMT[1])

INTEGUMENTARY STATUS

Pressure Ulcers

Pressure ulcer risk (%)

IF M1300_PRSR_ULCR_RISK_ASMT[1] = 00

THEN

PRES_ULC_RISK = MISSING

ELSE

PRES_ULC_RISK = VALUE(M1302_RISK_OF_PRSR_ULCR[1])

END IF

Pressure ulcer present (%)

PRES_ULC = VALUE(M1306_UNHLD_STG2_PRSR_ULCR[1])

Stage II pressure ulcer count (#)

IF M1306_UNHLD_STG2_PRSR_ULCR[1] = 0

THEN

PRES_ULC_STG2 = 0

ELSE

PRES_ULC_STG2 = VALUE(M1308_NBR_PRSULC_STG2[1])

END IF

Stage III pressure ulcer count (#)

IF M1306_UNHLD_STG2_PRSR_ULCR[1] = 0

THEN

PRES_ULC_STG3 = 0

ELSE

PRES_ULC_STG3 = VALUE(M1308_NBR_PRSULC_STG3[1])

END IF

Stage IV pressure ulcer count (#)

```
IF M1306_UNHLD_STG2_PRSR_ULCR[1] = 0
THEN
    PRES_ULC_STG4 = 0
ELSE
    PRES_ULC_STG4 = VALUE(M1308_NBR_PRSULC_STG4[1])
END IF
```

Unstageable pressure ulcer count (#)

```
IF M1306_UNHLD_STG2_PRSR_ULCR[1] = 0
THEN
    PRES_ULC_NO_STG = 0
ELSE
    PRES_ULC_NO_STG = VALUE(M1308_NSTG_DRSG[1]) +
        VALUE(M1308_NSTG_CVRG[1]) + VALUE(M1308_NSTG_DEEP_TISUE[1])
END IF
```

Status most problematic PU (0-3)

```
IF M1320_STUS_PRBLM_PRSR_ULCR[1] = NA OR
    M1306_UNHLD_STG2_PRSR_ULCR[1] = 0
THEN
    PRES_ULC_STATUS = MISSING
ELSE
    PRES_ULC_STATUS = VALUE(M1320_STUS_PRBLM_PRSR_ULCR[1])
END IF
```

Stage I pressure ulcers count (0-4)

```
PRES_ULC_STG1 = VALUE(M1322_NBR_PRSULC_STG1[1])
```

Stage most problematic PU (0-4)

```
IF M1324_STG_PRBLM_ULCER[1] = NA
THEN
    PRES_ULC_STG = MISSING
ELSE
    PRES_ULC_STG = VALUE(M1324_STG_PRBLM_ULCER[1])
END IF
```

Stasis Ulcers

Stasis ulcer indicator (%)

```
IF M1330_STAS_ULCR_PRSNT[1] = 00
THEN
    STAS_ULCR = 0
ELSE
    STAS_ULCR = 1
END IF
```

Stasis ulcer count (0-4)

```
IF M1330_STAS_ULCR_PRSNT[1] = 00 OR M1330_STAS_ULCR_PRSNT[1] = 03
THEN
    STAS_ULCR_CNT = 0
ELSE
    STAS_ULCR_CNT = VALUE(M1332_NUM_STAS_ULCR[1])
END IF
```

Status most problematic stasis (0-3)

```
IF M1330_STAS_ULCR_PRSNT[1] = 00 OR M1330_STAS_ULCR_PRSNT[1] = 03
THEN
    STAS_ULCR_STAT = 0
ELSE
    STAS_ULCR_STAT = VALUE(M1334_STUS_PRBLM_STAS_ULCR[1])
END IF
```

Surgical Wounds

Surgical wound indicator (%)

```
IF M1340_SRGCL_WND_PRSNT[1] = 00
THEN
    SRGCL_WND = 0
ELSE
    SRGCL_WND = 1
END IF
```

Status most problematic surg. (0-3)

```
IF M1340_SRGCL_WND_PRSNT[1] = 00 OR M1340_SRGCL_WND_PRSNT[1] = 02
THEN
    SRGCL_WND_STAT = 0
ELSE
```

SRGCL_WND_STAT = VALUE(M1342_STUS_PRBLM_SRGCL_WND[1])
END IF

Other

Skin lesion with intervention (%)

WND_LESION = VALUE(M1350_LESION_OPEN_WND[1])

PHYSIOLOGICAL STATUS

Respiratory

Dyspnea (0-4)

DYSPNEA = VALUE(M1400_WHEN_DYSPNEIC)

Oxygen therapy(%)

OXY_THERAPY = VALUE(M1410_RESPTX_OXYGEN)

Ventilator therapy(%)

VENT_THERAPY = VALUE(M1410_RESPTX_VENTILATOR)

CPAP/BPAP therapy (%)

AIRPRESS_THERAPY= VALUE(M1410_RESPTX_AIRPRESS)

Elimination Status

Urinary tract infection (%)

IF M1600_UTI[1] = UK OR M1600_UTI[1] = NA

THEN

 UTI = MISSING

ELSE

 UTI = VALUE(M1600_UTI[1])

END IF

Urinary incontinence/catheter (%)

IF M1610_UR_INCONT[1] = 00

THEN

 INCONT_CATH = 0

ELSE

 INCONT_CATH = 1

END IF

Urinary incontinence frequency (0-4)

```
IF M1610_UR_INCONT[1] = 02
THEN
    INCONT_FREQ = MISSING
ELSEIF M1610_UR_INCONT[1] = 00
THEN
    INCONT_FREQ = 0
ELSE
    INCONT_FREQ = VALUE(M1615_INCNTNT_TIMING[1])
END IF
```

Bowel incontinence (0-5)

```
IF M1620_BWL_INCONT[1] = UK OR M1620_BWL_INCONT[1] = NA
THEN
    BOWEL_INCONT = MISSING
ELSE
    BOWEL_INCONT = VALUE(M1620_BWL_INCONT[1])
END IF
```

Bowel ostomy (%)

```
IF M1630_OSTOMY[1] = 00
THEN
    OSTOMY = 0
ELSE
    OSTOMY = 1
END IF
```

NEURO / EMOTIONAL / BEHAVIORAL

Cognition

Cognitive deficit (0-4)

```
COG_FUNC = VALUE(M1700_COG_FUNCTION[1])
```

Confusion frequency (0-4)

```
IF M1710_WHEN_CONFUSED[1] = NA
THEN
    CONFUSION = MISSING
ELSE
    CONFUSION = VALUE(M1710_WHEN_CONFUSED[1])
END IF
```

Emotional

Anxiety level (0-3)

```
IF M1720_WHEN_ANXIOUS[1] = NA
THEN
    ANXIETY = MISSING
ELSE
    ANXIETY = VALUE(M1720_WHEN_ANXIOUS[1])
END IF
```

Depression indicator (%)

```
IF M1730_STDZ_DPRSN_SCRNG[1] = 00
THEN
    DEPRESSION = MISSING
ELSEIF M1730_STDZ_DPRSN_SCRNG[1] = 01
THEN
    IF M1730_PHQ2_LACK_INTRST[1] = NA AND M1730_PHQ2_DPRSN[1] = NA
    THEN
        DEPRESSION = MISSING
    ELSEIF VALUE(M1730_PHQ2_LACK_INTRST[1]) >= 2 OR
        VALUE(M1730_PHQ2_DPRSN[1]) >= 2
    THEN
        DEPRESSION = 1
    ELSE
        DEPRESSION = 0
    END IF
ELSEIF M1730_STDZ_DPRSN_SCRNG[1] = 02
THEN
    DEPRESSION = 1
ELSEIF M1730_STDZ_DPRSN_SCRNG[1] = 03
THEN
    DEPRESSION = 0
END IF
```

PHQ-2: Interest / Pleasure (0-3)

```
IF M1730_STDZ_DPRSN_SCRNG[1] = 00 OR M1730_STDZ_DPRSN_SCRNG[1] = 02
OR M1730_STDZ_DPRSN_SCRNG[1] = 03
THEN
    PHQ2_INTEREST = MISSING
ELSEIF M1730_STDZ_DPRSN_SCRNG[1] = 01
THEN
```



```

IF M1730_PHQ2_LACK_INTRST[1] = NA
THEN
    PHQ2_INTEREST = MISSING
ELSE
    PHQ2_INTEREST = VALUE(M1730_PHQ2_LACK_INTRST[1])
END IF
END IF

```

PHQ-2: Down / Depressed (0-3)

```

IF M1730_STDZ_DPRSN_SCRNG[1] = 00 OR M1730_STDZ_DPRSN_SCRNG[1] = 02
OR M1730_STDZ_DPRSN_SCRNG[1] = 03
THEN
    PHQ2_DOWN = MISSING
ELSEIF M1730_STDZ_DPRSN_SCRNG[1] = 01
THEN
    IF M1730_PHQ2_DPRSN[1] = NA
    THEN
        PHQ2_DOWN = MISSING
    ELSE
        PHQ2_DOWN = VALUE(M1730_PHQ2_DPRSN[1])
    END IF
END IF
END IF

```

Behavioral

Memory deficit (%)

```
MEM_DEFICIT = VALUE(M1740_BD_MEM_DEFICIT[1])
```

Impaired decision-making (%)

```
IMPR_DECISN = VALUE(M1740_BD_IMP_DECISN[1])
```

Verbal disruption (%)

```
VERBAL_DISRUPT = VALUE(M1740_BD_VERBAL[1])
```

Physical aggression (%)

```
AGGRESSION = VALUE(M1740_BD_PHYSICAL[1])
```

Disruptive/inappropriate behavior (%)

```
INAPPRO_BHV = VALUE(M1740_BD_SOC_INAPPRO[1])
```

Delusional, hallucinatory, etc. (%)

```
DELUSIONS = VALUE(M1740_BD_DELUSIONS[1])
```

None demonstrated (%)

NOBHV = VALUE(M1740_BD_NONE[1])

Frequency of behavior problems (0-5)

BEH_PROB_FREQ = VALUE(M1745_BEH_PROB_FREQ[1])

Psychiatric nursing (%)

PSYCH_NURS = VALUE(M1750_REC_PSYCH_NURS[1])

ACTIVITIES OF DAILY LIVING

SOC/ROC Status

Grooming (0-3)

GROOMING = VALUE(M1800_CUR_GROOMING[1])

Dress upper body (0-3)

DRESS_UPPER = VALUE(M1810_CUR_DRESS_UPPER[1])

Dress lower body (0-3)

DRESS_LOWER = VALUE(M1820_CUR_DRESS_LOWER[1])

Bathing (0-6)

BATHING = VALUE(M1830_CRNT_BATHING[1])

Toilet Transfer (0-4)

TOILET_TRANSFER = VALUE(M1840_CUR_TOILTG[1])

Toileting Hygiene (0-3)

TOILET_HYGIENE = VALUE(M1845_CUR_TOILTG_HYGN[1])

Bed Transferring (0-5)

TRANSFERRING = VALUE(M1850_CUR_TRNSFRNG[1])

Ambulation (0-6)

AMBULATION = VALUE(M1860_CUR_AMBLTN[1])

Eating (0-5)

FEEDING = VALUE(M1870_CUR_FEEDING[1])

Status prior to SOC/ROC

Prior Self Care (0-2)

P_SELF_CARE = VALUE(M1900_PRIOR_ADLIADL_SELF[1])

Prior Ambulation (0-2)

P_AMBULATION = VALUE(M1900_PRIOR_ADLIADL_AMBLTN[1])

Prior Transfer (0-2)

P_TRANSFER = VALUE(M1900_PRIOR_ADLIADL_TRNSFR[1])

IADLs, MEDICATIONS, OTHER

IADLs

Light meal prep (0-2)

MEAL_PREP = VALUE(M1880_CUR_PREP_LT_MEALS[1])

Phone use (0-5)

IF M1890_CUR_PHONE_USE [1] = NA

THEN

 PHONE_USE = MISSING

ELSE

 PHONE_USE = VALUE(M1890_CUR_PHONE_USE [1])

END IF

Prior Household (0-2)

P_HOUSEHOLD = VALUE(M1900_PRIOR_ADLIADL_HSEHOLD[1])

Falls Risk

At risk for falls (%)

IF M1910_MLT_FCTR_FALL_RISK_ASMT[1] = 00

THEN

 FALL_RISK = MISSING

ELSEIF M1910_MLT_FCTR_FALL_RISK_ASMT[1] = 02

THEN

 FALL_RISK = 1

ELSE

 FALL_RISK = 0

END IF

Medication Status

Drug regimen: problem found (%)

```
IF M2000_DRUG_RGMN_RVW[1] = 00 OR M2000_DRUG_RGMN_RVW[1] = NA
THEN
    MED_PROBLEM = MISSING
ELSEIF M2000_DRUG_RGMN_RVW[1] = 02
THEN
    MED_PROBLEM = 1
ELSE
    MED_PROBLEM = 0
END IF
```

Mgmt oral medication at SOC/ROC (0-3)

```
IF M2020_CRNT_MGMT_ORAL_MDCTN[1] = NA
THEN
    ORAL_MEDS = MISSING
ELSE
    ORAL_MEDS = VALUE(M2020_CRNT_MGMT_ORAL_MDCTN[1])
END IF
```

Mgmt oral medication at SOC/ROC: NA

```
IF M2020_CRNT_MGMT_ORAL_MDCTN[1] = NA
THEN
    ORAL_MED_NA = 1
ELSE
    ORAL_MED_NA = 0
END IF
```

Mgmt injected meds at SOC/ROC (0-3)

```
IF M2030_CRNT_MGMT_INJCTN_MDCTN[1] = NA
THEN
    INJECT_MEDS = MISSING
ELSE
    INJECT_MEDS = VALUE(M2030_CRNT_MGMT_INJCTN_MDCTN[1])
END IF
```

Mgmt injected meds at SOC/ROC: NA

```
IF M2030_CRNT_MGMT_INJCTN_MDCTN[1] = NA
THEN
    INJECT_MED_NA = 1
```

ELSE
 INJECT_MED_NA = 0
END IF

Prior mgmt oral medication (0-3)

IF M2040_PRIOR_MGMT_ORAL_MDCTN[1] = NA
THEN
 P_ORAL_MEDS = MISSING
ELSE
 P_ORAL_MEDS = VALUE(M2040_PRIOR_MGMT_ORAL_MDCTN[1])
END IF

Prior mgmt oral medication: NA

IF M2040_PRIOR_MGMT_ORAL_MDCTN[1] = NA
THEN
 P_ORAL_MED_NA = 1
ELSE
 P_ORAL_MED_NA = 0
END IF

Prior mgmt injected medication (0-3)

IF M2040_PRIOR_MGMT_INJCTN_MDCTN[1] = NA
THEN
 P_INJECT_MEDS = MISSING
ELSE
 P_INJECT_MEDS = VALUE(M2040_PRIOR_MGMT_INJCTN_MDCTN[1])
END IF

Prior mgmt injected medication: NA

IF M2040_PRIOR_MGMT_INJCTN_MDCTN[1] = NA
THEN
 P_INJECT_MED_NA = 1
ELSE
 P_INJECT_MED_NA = 0
END IF

THERAPY / PLAN OF CARE

Therapy Visits

Therapy visits indicated (#)

IF M2200_THER_NEED_NA_NUM[1] = 1

THEN

 THERAPY_NEED = MISSING

ELSE

 THERAPY_NEED = VALUE(M2200_THER_NEED_NUM[1])

END IF

PATIENT DIAGNOSTIC INFORMATION

Acute Conditions

The following measures require calculation of several "intermediate" measures based on the raw OASIS data, that are then used to calculate the final measures for the patient characteristics report.

Inpatient Discharge:

IF M1000_DC_NONE_14_DA[1] = 00

THEN

 INPAT_DC = 1

ELSE

 INPAT_DC = 0

END IF

Inpatient diagnosis and medical regimen change diagnosis codes at three digit level:

3DIGIT(FieldName) = portion of ICD-9 code to the left of the decimal point. If the ICD-9 code is blank, the result is blank. If the ICD-9 coded is a V or E code, the result is blank.

INPAT_DIAG1 = 3DIGIT(M1010_14_DAY_INP1_ICD[1])

INPAT_DIAG2 = 3DIGIT(M1010_14_DAY_INP2_ICD[1])

INPAT_DIAG3 = 3DIGIT(M1010_14_DAY_INP3_ICD[1])

INPAT_DIAG4 = 3DIGIT(M1010_14_DAY_INP4_ICD[1])

INPAT_DIAG5 = 3DIGIT(M1010_14_DAY_INP5_ICD[1])

INPAT_DIAG6 = 3DIGIT(M1010_14_DAY_INP6_ICD[1])

MEDREG_DIAG1 = 3DIGIT(M1016_CHGREG_ICD1[1])

MEDREG_DIAG2 = 3DIGIT(M1016_CHGREG_ICD2[1])

MEDREG_DIAG3 = 3DIGIT(M1016_CHGREG_ICD3[1])

MEDREG_DIAG4 = 3DIGIT(M1016_CHGREG_ICD4[1])
MEDREG_DIAG5 = 3DIGIT(M1016_CHGREG_ICD5[1])
MEDREG_DIAG6 = 3DIGIT(M1016_CHGREG_ICD6[1])

Orthopedic (%)

IF (INPAT_DC = 1 OR MED_REG_CHNG = 1) AND
((INPAT_DIAG1 >= 170 AND INPAT_DIAG1 <= 171)
OR (INPAT_DIAG2 >= 170 AND INPAT_DIAG2 <= 171)
OR (INPAT_DIAG3 >= 170 AND INPAT_DIAG3 <= 171)
OR (INPAT_DIAG4 >= 170 AND INPAT_DIAG4 <= 171)
OR (INPAT_DIAG5 >= 170 AND INPAT_DIAG5 <= 171)
OR (INPAT_DIAG6 >= 170 AND INPAT_DIAG6 <= 171)
OR (MEDREG_DIAG1 >= 170 AND MEDREG_DIAG1 <= 171)
OR (MEDREG_DIAG2 >= 170 AND MEDREG_DIAG2 <= 171)
OR (MEDREG_DIAG3 >= 170 AND MEDREG_DIAG3 <= 171)
OR (MEDREG_DIAG4 >= 170 AND MEDREG_DIAG4 <= 171)
OR (MEDREG_DIAG5 >= 170 AND MEDREG_DIAG5 <= 171)
OR (MEDREG_DIAG6 >= 170 AND MEDREG_DIAG6 <= 171)
OR (INPAT_DIAG1 = 213) OR (INPAT_DIAG2 = 213)
OR (INPAT_DIAG3 = 213) OR (INPAT_DIAG4 = 213)
OR (INPAT_DIAG5 = 213) OR (INPAT_DIAG6 = 213)
OR (MEDREG_DIAG1 = 213) OR (MEDREG_DIAG2 = 213)
OR (MEDREG_DIAG3 = 213) OR (MEDREG_DIAG4 = 213)
OR (MEDREG_DIAG5 = 213) OR (MEDREG_DIAG6 = 213)
OR (INPAT_DIAG1 = 274) OR (INPAT_DIAG2 = 274)
OR (INPAT_DIAG3 = 274) OR (INPAT_DIAG4 = 274)
OR (INPAT_DIAG5 = 274) OR (INPAT_DIAG6 = 274)
OR (MEDREG_DIAG1 = 274) OR (MEDREG_DIAG2 = 274)
OR (MEDREG_DIAG3 = 274) OR (MEDREG_DIAG4 = 274)
OR (MEDREG_DIAG5 = 274) OR (MEDREG_DIAG6 = 274)
OR (INPAT_DIAG1 >= 710 AND INPAT_DIAG1 <= 739)
OR (INPAT_DIAG2 >= 710 AND INPAT_DIAG2 <= 739)
OR (INPAT_DIAG3 >= 710 AND INPAT_DIAG3 <= 739)
OR (INPAT_DIAG4 >= 710 AND INPAT_DIAG4 <= 739)
OR (INPAT_DIAG5 >= 710 AND INPAT_DIAG5 <= 739)
OR (INPAT_DIAG6 >= 710 AND INPAT_DIAG6 <= 739)
OR (MEDREG_DIAG1 >= 710 AND MEDREG_DIAG1 <= 739)
OR (MEDREG_DIAG2 >= 710 AND MEDREG_DIAG2 <= 739)
OR (MEDREG_DIAG3 >= 710 AND MEDREG_DIAG3 <= 739)
OR (MEDREG_DIAG4 >= 710 AND MEDREG_DIAG4 <= 739)

OR (MEDREG_DIAG5 >= 710 AND MEDREG_DIAG5 <= 739)
OR (MEDREG_DIAG6 >= 710 AND MEDREG_DIAG6 <= 739)
OR (INPAT_DIAG1 = 781) OR (INPAT_DIAG2 = 781)
OR (INPAT_DIAG3 = 781) OR (INPAT_DIAG4 = 781)
OR (INPAT_DIAG5 = 781) OR (INPAT_DIAG6 = 781)
OR (MEDREG_DIAG1 = 781) OR (MEDREG_DIAG2 = 781)
OR (MEDREG_DIAG3 = 781) OR (MEDREG_DIAG4 = 781)
OR (MEDREG_DIAG5 = 781) OR (MEDREG_DIAG6 = 781)
OR (INPAT_DIAG1 >= 800 AND INPAT_DIAG1 <= 848)
OR (INPAT_DIAG2 >= 800 AND INPAT_DIAG2 <= 848)
OR (INPAT_DIAG3 >= 800 AND INPAT_DIAG3 <= 848)
OR (INPAT_DIAG4 >= 800 AND INPAT_DIAG4 <= 848)
OR (INPAT_DIAG5 >= 800 AND INPAT_DIAG5 <= 848)
OR (INPAT_DIAG6 >= 800 AND INPAT_DIAG6 <= 848)
OR (MEDREG_DIAG1 >= 800 AND MEDREG_DIAG1 <= 848)
OR (MEDREG_DIAG2 >= 800 AND MEDREG_DIAG2 <= 848)
OR (MEDREG_DIAG3 >= 800 AND MEDREG_DIAG3 <= 848)
OR (MEDREG_DIAG4 >= 800 AND MEDREG_DIAG4 <= 848)
OR (MEDREG_DIAG5 >= 800 AND MEDREG_DIAG5 <= 848)
OR (MEDREG_DIAG6 >= 800 AND MEDREG_DIAG6 <= 848)
OR (INPAT_DIAG1 >= 885 AND INPAT_DIAG1 <= 887)
OR (INPAT_DIAG2 >= 885 AND INPAT_DIAG2 <= 887)
OR (INPAT_DIAG3 >= 885 AND INPAT_DIAG3 <= 887)
OR (INPAT_DIAG4 >= 885 AND INPAT_DIAG4 <= 887)
OR (INPAT_DIAG5 >= 885 AND INPAT_DIAG5 <= 887)
OR (INPAT_DIAG6 >= 885 AND INPAT_DIAG6 <= 887)
OR (MEDREG_DIAG1 >= 885 AND MEDREG_DIAG1 <= 887)
OR (MEDREG_DIAG2 >= 885 AND MEDREG_DIAG2 <= 887)
OR (MEDREG_DIAG3 >= 885 AND MEDREG_DIAG3 <= 887)
OR (MEDREG_DIAG4 >= 885 AND MEDREG_DIAG4 <= 887)
OR (MEDREG_DIAG5 >= 885 AND MEDREG_DIAG5 <= 887)
OR (MEDREG_DIAG6 >= 885 AND MEDREG_DIAG6 <= 887)
OR (INPAT_DIAG1 >= 895 AND INPAT_DIAG1 <= 897)
OR (INPAT_DIAG2 >= 895 AND INPAT_DIAG2 <= 897)
OR (INPAT_DIAG3 >= 895 AND INPAT_DIAG3 <= 897)
OR (INPAT_DIAG4 >= 895 AND INPAT_DIAG4 <= 897)
OR (INPAT_DIAG5 >= 895 AND INPAT_DIAG5 <= 897)
OR (INPAT_DIAG6 >= 895 AND INPAT_DIAG6 <= 897)
OR (MEDREG_DIAG1 >= 895 AND MEDREG_DIAG1 <= 897)
OR (MEDREG_DIAG2 >= 895 AND MEDREG_DIAG2 <= 897)

OR (MEDREG_DIAG3 >= 895 AND MEDREG_DIAG3 <= 897)
 OR (MEDREG_DIAG4 >= 895 AND MEDREG_DIAG4 <= 897)
 OR (MEDREG_DIAG5 >= 895 AND MEDREG_DIAG5 <= 897)
 OR (MEDREG_DIAG6 >= 895 AND MEDREG_DIAG6 <= 897)
 OR (INPAT_DIAG1 = 905) OR (INPAT_DIAG2 = 905)
 OR (INPAT_DIAG3 = 905) OR (INPAT_DIAG4 = 905)
 OR (INPAT_DIAG5 = 905) OR (INPAT_DIAG6 = 905)
 OR (MEDREG_DIAG1 = 905) OR (MEDREG_DIAG2 = 905)
 OR (MEDREG_DIAG3 = 905) OR (MEDREG_DIAG4 = 905)
 OR (MEDREG_DIAG5 = 905) OR (MEDREG_DIAG6 = 905)
 OR (INPAT_DIAG1 >= 927 AND INPAT_DIAG1 <= 928)
 OR (INPAT_DIAG2 >= 927 AND INPAT_DIAG2 <= 928)
 OR (INPAT_DIAG3 >= 927 AND INPAT_DIAG3 <= 928)
 OR (INPAT_DIAG4 >= 927 AND INPAT_DIAG4 <= 928)
 OR (INPAT_DIAG5 >= 927 AND INPAT_DIAG5 <= 928)
 OR (INPAT_DIAG6 >= 927 AND INPAT_DIAG6 <= 928)
 OR (MEDREG_DIAG1 >= 927 AND MEDREG_DIAG1 <= 928)
 OR (MEDREG_DIAG2 >= 927 AND MEDREG_DIAG2 <= 928)
 OR (MEDREG_DIAG3 >= 927 AND MEDREG_DIAG3 <= 928)
 OR (MEDREG_DIAG4 >= 927 AND MEDREG_DIAG4 <= 928)
 OR (MEDREG_DIAG5 >= 927 AND MEDREG_DIAG5 <= 928)
 OR (MEDREG_DIAG6 >= 927 AND MEDREG_DIAG6 <= 928))

THEN

ACUTE_ORTHEPEDIC = 1

ELSE

ACUTE_ORTHEPEDIC = 0

END IF

Neurologic (%)

IF (INPAT_DC = 1 OR MED_REG_CHNG = 1) AND

((INPAT_DIAG1 >= 045 AND INPAT_DIAG1 <= 049)
 OR (INPAT_DIAG2 >= 045 AND INPAT_DIAG2 <= 049)
 OR (INPAT_DIAG3 >= 045 AND INPAT_DIAG3 <= 049)
 OR (INPAT_DIAG4 >= 045 AND INPAT_DIAG4 <= 049)
 OR (INPAT_DIAG5 >= 045 AND INPAT_DIAG5 <= 049)
 OR (INPAT_DIAG6 >= 045 AND INPAT_DIAG6 <= 049)
 OR (MEDREG_DIAG1 >= 045 AND MEDREG_DIAG1 <= 049)
 OR (MEDREG_DIAG2 >= 045 AND MEDREG_DIAG2 <= 049)
 OR (MEDREG_DIAG3 >= 045 AND MEDREG_DIAG3 <= 049)
 OR (MEDREG_DIAG4 >= 045 AND MEDREG_DIAG4 <= 049)

OR (MEDREG_DIAG5 >= 045 AND MEDREG_DIAG5 <= 049)
OR (MEDREG_DIAG6 >= 045 AND MEDREG_DIAG6 <= 049)
OR (INPAT_DIAG1 >= 191 AND INPAT_DIAG1 <= 192)
OR (INPAT_DIAG2 >= 191 AND INPAT_DIAG2 <= 192)
OR (INPAT_DIAG3 >= 191 AND INPAT_DIAG3 <= 192)
OR (INPAT_DIAG4 >= 191 AND INPAT_DIAG4 <= 192)
OR (INPAT_DIAG5 >= 191 AND INPAT_DIAG5 <= 192)
OR (INPAT_DIAG6 >= 191 AND INPAT_DIAG6 <= 192)
OR (MEDREG_DIAG1 >= 191 AND MEDREG_DIAG1 <= 192)
OR (MEDREG_DIAG2 >= 191 AND MEDREG_DIAG2 <= 192)
OR (MEDREG_DIAG3 >= 191 AND MEDREG_DIAG3 <= 192)
OR (MEDREG_DIAG4 >= 191 AND MEDREG_DIAG4 <= 192)
OR (MEDREG_DIAG5 >= 191 AND MEDREG_DIAG5 <= 192)
OR (MEDREG_DIAG6 >= 191 AND MEDREG_DIAG6 <= 192)
OR (INPAT_DIAG1 = 225) OR (INPAT_DIAG2 = 225)
OR (INPAT_DIAG3 = 225) OR (INPAT_DIAG4 = 225)
OR (INPAT_DIAG5 = 225) OR (INPAT_DIAG6 = 225)
OR (MEDREG_DIAG1 = 225) OR (MEDREG_DIAG2 = 225)
OR (MEDREG_DIAG3 = 225) OR (MEDREG_DIAG4 = 225)
OR (MEDREG_DIAG5 = 225) OR (MEDREG_DIAG6 = 225)
OR (INPAT_DIAG1 >= 320 AND INPAT_DIAG1 <= 326)
OR (INPAT_DIAG2 >= 320 AND INPAT_DIAG2 <= 326)
OR (INPAT_DIAG3 >= 320 AND INPAT_DIAG3 <= 326)
OR (INPAT_DIAG4 >= 320 AND INPAT_DIAG4 <= 326)
OR (INPAT_DIAG5 >= 320 AND INPAT_DIAG5 <= 326)
OR (INPAT_DIAG6 >= 320 AND INPAT_DIAG6 <= 326)
OR (MEDREG_DIAG1 >= 320 AND MEDREG_DIAG1 <= 326)
OR (MEDREG_DIAG2 >= 320 AND MEDREG_DIAG2 <= 326)
OR (MEDREG_DIAG3 >= 320 AND MEDREG_DIAG3 <= 326)
OR (MEDREG_DIAG4 >= 320 AND MEDREG_DIAG4 <= 326)
OR (MEDREG_DIAG5 >= 320 AND MEDREG_DIAG5 <= 326)
OR (MEDREG_DIAG6 >= 320 AND MEDREG_DIAG6 <= 326)
OR (INPAT_DIAG1 >= 330 AND INPAT_DIAG1 <= 337)
OR (INPAT_DIAG2 >= 330 AND INPAT_DIAG2 <= 337)
OR (INPAT_DIAG3 >= 330 AND INPAT_DIAG3 <= 337)
OR (INPAT_DIAG4 >= 330 AND INPAT_DIAG4 <= 337)
OR (INPAT_DIAG5 >= 330 AND INPAT_DIAG5 <= 337)
OR (INPAT_DIAG6 >= 330 AND INPAT_DIAG6 <= 337)
OR (MEDREG_DIAG1 >= 330 AND MEDREG_DIAG1 <= 337)
OR (MEDREG_DIAG2 >= 330 AND MEDREG_DIAG2 <= 337)

OR (MEDREG_DIAG3 >= 330 AND MEDREG_DIAG3 <= 337)
OR (MEDREG_DIAG4 >= 330 AND MEDREG_DIAG4 <= 337)
OR (MEDREG_DIAG5 >= 330 AND MEDREG_DIAG5 <= 337)
OR (MEDREG_DIAG6 >= 330 AND MEDREG_DIAG6 <= 337)
OR (INPAT_DIAG1 = 338) OR (INPAT_DIAG2 = 338)
OR (INPAT_DIAG3 = 338) OR (INPAT_DIAG4 = 338)
OR (INPAT_DIAG5 = 338) OR (INPAT_DIAG6 = 338)
OR (MEDREG_DIAG1 = 338) OR (MEDREG_DIAG2 = 338)
OR (MEDREG_DIAG3 = 338) OR (MEDREG_DIAG4 = 338)
OR (MEDREG_DIAG5 = 338) OR (MEDREG_DIAG6 = 338)
OR (INPAT_DIAG1 >= 340 AND INPAT_DIAG1 <= 359)
OR (INPAT_DIAG2 >= 340 AND INPAT_DIAG2 <= 359)
OR (INPAT_DIAG3 >= 340 AND INPAT_DIAG3 <= 359)
OR (INPAT_DIAG4 >= 340 AND INPAT_DIAG4 <= 359)
OR (INPAT_DIAG5 >= 340 AND INPAT_DIAG5 <= 359)
OR (INPAT_DIAG6 >= 340 AND INPAT_DIAG6 <= 359)
OR (MEDREG_DIAG1 >= 340 AND MEDREG_DIAG1 <= 359)
OR (MEDREG_DIAG2 >= 340 AND MEDREG_DIAG2 <= 359)
OR (MEDREG_DIAG3 >= 340 AND MEDREG_DIAG3 <= 359)
OR (MEDREG_DIAG4 >= 340 AND MEDREG_DIAG4 <= 359)
OR (MEDREG_DIAG5 >= 340 AND MEDREG_DIAG5 <= 359)
OR (MEDREG_DIAG6 >= 340 AND MEDREG_DIAG6 <= 359)
OR (INPAT_DIAG1 >= 430 AND INPAT_DIAG1 <= 438)
OR (INPAT_DIAG2 >= 430 AND INPAT_DIAG2 <= 438)
OR (INPAT_DIAG3 >= 430 AND INPAT_DIAG3 <= 438)
OR (INPAT_DIAG4 >= 430 AND INPAT_DIAG4 <= 438)
OR (INPAT_DIAG5 >= 430 AND INPAT_DIAG5 <= 438)
OR (INPAT_DIAG6 >= 430 AND INPAT_DIAG6 <= 438)
OR (MEDREG_DIAG1 >= 430 AND MEDREG_DIAG1 <= 438)
OR (MEDREG_DIAG2 >= 430 AND MEDREG_DIAG2 <= 438)
OR (MEDREG_DIAG3 >= 430 AND MEDREG_DIAG3 <= 438)
OR (MEDREG_DIAG4 >= 430 AND MEDREG_DIAG4 <= 438)
OR (MEDREG_DIAG5 >= 430 AND MEDREG_DIAG5 <= 438)
OR (MEDREG_DIAG6 >= 430 AND MEDREG_DIAG6 <= 438)
OR (INPAT_DIAG1 >= 850 AND INPAT_DIAG1 <= 854)
OR (INPAT_DIAG2 >= 850 AND INPAT_DIAG2 <= 854)
OR (INPAT_DIAG3 >= 850 AND INPAT_DIAG3 <= 854)
OR (INPAT_DIAG4 >= 850 AND INPAT_DIAG4 <= 854)
OR (INPAT_DIAG5 >= 850 AND INPAT_DIAG5 <= 854)
OR (INPAT_DIAG6 >= 850 AND INPAT_DIAG6 <= 854)

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OR (MEDREG_DIAG1 >= 850 AND MEDREG_DIAG1 <= 854)
OR (MEDREG_DIAG2 >= 850 AND MEDREG_DIAG2 <= 854)
OR (MEDREG_DIAG3 >= 850 AND MEDREG_DIAG3 <= 854)
OR (MEDREG_DIAG4 >= 850 AND MEDREG_DIAG4 <= 854)
OR (MEDREG_DIAG5 >= 850 AND MEDREG_DIAG5 <= 854)
OR (MEDREG_DIAG6 >= 850 AND MEDREG_DIAG6 <= 854)
OR (INPAT_DIAG1 = 907) OR (INPAT_DIAG2 = 907)
OR (INPAT_DIAG3 = 907) OR (INPAT_DIAG4 = 907)
OR (INPAT_DIAG5 = 907) OR (INPAT_DIAG6 = 907)
OR (MEDREG_DIAG1 = 907) OR (MEDREG_DIAG2 = 907)
OR (MEDREG_DIAG3 = 907) OR (MEDREG_DIAG4 = 907)
OR (MEDREG_DIAG5 = 907) OR (MEDREG_DIAG6 = 907)
OR (INPAT_DIAG1 >= 950 AND INPAT_DIAG1 <= 957)
OR (INPAT_DIAG2 >= 950 AND INPAT_DIAG2 <= 957)
OR (INPAT_DIAG3 >= 950 AND INPAT_DIAG3 <= 957)
OR (INPAT_DIAG4 >= 950 AND INPAT_DIAG4 <= 957)
OR (INPAT_DIAG5 >= 950 AND INPAT_DIAG5 <= 957)
OR (INPAT_DIAG6 >= 950 AND INPAT_DIAG6 <= 957)
OR (MEDREG_DIAG1 >= 950 AND MEDREG_DIAG1 <= 957)
OR (MEDREG_DIAG2 >= 950 AND MEDREG_DIAG2 <= 957)
OR (MEDREG_DIAG3 >= 950 AND MEDREG_DIAG3 <= 957)
OR (MEDREG_DIAG4 >= 950 AND MEDREG_DIAG4 <= 957)
OR (MEDREG_DIAG5 >= 950 AND MEDREG_DIAG5 <= 957)
OR (MEDREG_DIAG6 >= 950 AND MEDREG_DIAG6 <= 957))
THEN
    ACUTE_NEURO = 1
ELSE
    ACUTE_NEURO = 0
END IF

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Open wounds/lesions (%)

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IF (INPAT_DC = 1 OR MED_REG_CHNG = 1) AND
    ((INPAT_DIAG1 = 707) OR (INPAT_DIAG2 = 707)
    OR (INPAT_DIAG3 = 707) OR (INPAT_DIAG4 = 707)
    OR (INPAT_DIAG5 = 707) OR (INPAT_DIAG6 = 707)
    OR (MEDREG_DIAG1 = 707) OR (MEDREG_DIAG2 = 707)
    OR (MEDREG_DIAG3 = 707) OR (MEDREG_DIAG4 = 707)
    OR (MEDREG_DIAG5 = 707) OR (MEDREG_DIAG6 = 707)
    OR (INPAT_DIAG1 >= 870 AND INPAT_DIAG1 <= 884)
    OR (INPAT_DIAG2 >= 870 AND INPAT_DIAG2 <= 884)

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OR (INPAT_DIAG3 >= 870 AND INPAT_DIAG3 <= 884)
OR (INPAT_DIAG4 >= 870 AND INPAT_DIAG4 <= 884)
OR (INPAT_DIAG5 >= 870 AND INPAT_DIAG5 <= 884)
OR (INPAT_DIAG6 >= 870 AND INPAT_DIAG6 <= 884)
OR (MEDREG_DIAG1 >= 870 AND MEDREG_DIAG1 <= 884)
OR (MEDREG_DIAG2 >= 870 AND MEDREG_DIAG2 <= 884)
OR (MEDREG_DIAG3 >= 870 AND MEDREG_DIAG3 <= 884)
OR (MEDREG_DIAG4 >= 870 AND MEDREG_DIAG4 <= 884)
OR (MEDREG_DIAG5 >= 870 AND MEDREG_DIAG5 <= 884)
OR (MEDREG_DIAG6 >= 870 AND MEDREG_DIAG6 <= 884)
OR (INPAT_DIAG1 >= 890 AND INPAT_DIAG1 <= 894)
OR (INPAT_DIAG2 >= 890 AND INPAT_DIAG2 <= 894)
OR (INPAT_DIAG3 >= 890 AND INPAT_DIAG3 <= 894)
OR (INPAT_DIAG4 >= 890 AND INPAT_DIAG4 <= 894)
OR (INPAT_DIAG5 >= 890 AND INPAT_DIAG5 <= 894)
OR (INPAT_DIAG6 >= 890 AND INPAT_DIAG6 <= 894)
OR (MEDREG_DIAG1 >= 890 AND MEDREG_DIAG1 <= 894)
OR (MEDREG_DIAG2 >= 890 AND MEDREG_DIAG2 <= 894)
OR (MEDREG_DIAG3 >= 890 AND MEDREG_DIAG3 <= 894)
OR (MEDREG_DIAG4 >= 890 AND MEDREG_DIAG4 <= 894)
OR (MEDREG_DIAG5 >= 890 AND MEDREG_DIAG5 <= 894)
OR (MEDREG_DIAG6 >= 890 AND MEDREG_DIAG6 <= 894)
OR (INPAT_DIAG1 >= 940 AND INPAT_DIAG1 <= 949)
OR (INPAT_DIAG2 >= 940 AND INPAT_DIAG2 <= 949)
OR (INPAT_DIAG3 >= 940 AND INPAT_DIAG3 <= 949)
OR (INPAT_DIAG4 >= 940 AND INPAT_DIAG4 <= 949)
OR (INPAT_DIAG5 >= 940 AND INPAT_DIAG5 <= 949)
OR (INPAT_DIAG6 >= 940 AND INPAT_DIAG6 <= 949)
OR (MEDREG_DIAG1 >= 940 AND MEDREG_DIAG1 <= 949)
OR (MEDREG_DIAG2 >= 940 AND MEDREG_DIAG2 <= 949)
OR (MEDREG_DIAG3 >= 940 AND MEDREG_DIAG3 <= 949)
OR (MEDREG_DIAG4 >= 940 AND MEDREG_DIAG4 <= 949)
OR (MEDREG_DIAG5 >= 940 AND MEDREG_DIAG5 <= 949)
OR (MEDREG_DIAG6 >= 940 AND MEDREG_DIAG6 <= 949))
THEN
    ACUTE_WOUND = 1
ELSE
    ACUTE_WOUND = 0
END IF

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Cardiac/peripheral vascular (%)

IF (INPAT_DC = 1 OR MED_REG_CHNG = 1) AND
((INPAT_DIAG1 = 391) OR (INPAT_DIAG2 = 391)
OR (INPAT_DIAG3 = 391) OR (INPAT_DIAG4 = 391)
OR (INPAT_DIAG5 = 391) OR (INPAT_DIAG6 = 391)
OR (MEDREG_DIAG1 = 391) OR (MEDREG_DIAG2 = 391)
OR (MEDREG_DIAG3 = 391) OR (MEDREG_DIAG4 = 391)
OR (MEDREG_DIAG5 = 391) OR (MEDREG_DIAG6 = 391)
OR (INPAT_DIAG1 >= 393 AND INPAT_DIAG1 <= 398)
OR (INPAT_DIAG2 >= 393 AND INPAT_DIAG2 <= 398)
OR (INPAT_DIAG3 >= 393 AND INPAT_DIAG3 <= 398)
OR (INPAT_DIAG4 >= 393 AND INPAT_DIAG4 <= 398)
OR (INPAT_DIAG5 >= 393 AND INPAT_DIAG5 <= 398)
OR (INPAT_DIAG6 >= 393 AND INPAT_DIAG6 <= 398)
OR (MEDREG_DIAG1 >= 393 AND MEDREG_DIAG1 <= 398)
OR (MEDREG_DIAG2 >= 393 AND MEDREG_DIAG2 <= 398)
OR (MEDREG_DIAG3 >= 393 AND MEDREG_DIAG3 <= 398)
OR (MEDREG_DIAG4 >= 393 AND MEDREG_DIAG4 <= 398)
OR (MEDREG_DIAG5 >= 393 AND MEDREG_DIAG5 <= 398)
OR (MEDREG_DIAG6 >= 393 AND MEDREG_DIAG6 <= 398)
OR (INPAT_DIAG1 >= 401 AND INPAT_DIAG1 <= 405)
OR (INPAT_DIAG2 >= 401 AND INPAT_DIAG2 <= 405)
OR (INPAT_DIAG3 >= 401 AND INPAT_DIAG3 <= 405)
OR (INPAT_DIAG4 >= 401 AND INPAT_DIAG4 <= 405)
OR (INPAT_DIAG5 >= 401 AND INPAT_DIAG5 <= 405)
OR (INPAT_DIAG6 >= 401 AND INPAT_DIAG6 <= 405)
OR (MEDREG_DIAG1 >= 401 AND MEDREG_DIAG1 <= 405)
OR (MEDREG_DIAG2 >= 401 AND MEDREG_DIAG2 <= 405)
OR (MEDREG_DIAG3 >= 401 AND MEDREG_DIAG3 <= 405)
OR (MEDREG_DIAG4 >= 401 AND MEDREG_DIAG4 <= 405)
OR (MEDREG_DIAG5 >= 401 AND MEDREG_DIAG5 <= 405)
OR (MEDREG_DIAG6 >= 401 AND MEDREG_DIAG6 <= 405)
OR (INPAT_DIAG1 >= 410 AND INPAT_DIAG1 <= 417)
OR (INPAT_DIAG2 >= 410 AND INPAT_DIAG2 <= 417)
OR (INPAT_DIAG3 >= 410 AND INPAT_DIAG3 <= 417)
OR (INPAT_DIAG4 >= 410 AND INPAT_DIAG4 <= 417)
OR (INPAT_DIAG5 >= 410 AND INPAT_DIAG5 <= 417)
OR (INPAT_DIAG6 >= 410 AND INPAT_DIAG6 <= 417)
OR (MEDREG_DIAG1 >= 410 AND MEDREG_DIAG1 <= 417)
OR (MEDREG_DIAG2 >= 410 AND MEDREG_DIAG2 <= 417)

OR (MEDREG_DIAG3 >= 410 AND MEDREG_DIAG3 <= 417)
OR (MEDREG_DIAG4 >= 410 AND MEDREG_DIAG4 <= 417)
OR (MEDREG_DIAG5 >= 410 AND MEDREG_DIAG5 <= 417)
OR (MEDREG_DIAG6 >= 410 AND MEDREG_DIAG6 <= 417)
OR (INPAT_DIAG1 >= 420 AND INPAT_DIAG1 <= 429)
OR (INPAT_DIAG2 >= 420 AND INPAT_DIAG2 <= 429)
OR (INPAT_DIAG3 >= 420 AND INPAT_DIAG3 <= 429)
OR (INPAT_DIAG4 >= 420 AND INPAT_DIAG4 <= 429)
OR (INPAT_DIAG5 >= 420 AND INPAT_DIAG5 <= 429)
OR (INPAT_DIAG6 >= 420 AND INPAT_DIAG6 <= 429)
OR (MEDREG_DIAG1 >= 420 AND MEDREG_DIAG1 <= 429)
OR (MEDREG_DIAG2 >= 420 AND MEDREG_DIAG2 <= 429)
OR (MEDREG_DIAG3 >= 420 AND MEDREG_DIAG3 <= 429)
OR (MEDREG_DIAG4 >= 420 AND MEDREG_DIAG4 <= 429)
OR (MEDREG_DIAG5 >= 420 AND MEDREG_DIAG5 <= 429)
OR (MEDREG_DIAG6 >= 420 AND MEDREG_DIAG6 <= 429)
OR (INPAT_DIAG1 >= 440 AND INPAT_DIAG1 <= 448)
OR (INPAT_DIAG2 >= 440 AND INPAT_DIAG2 <= 448)
OR (INPAT_DIAG3 >= 440 AND INPAT_DIAG3 <= 448)
OR (INPAT_DIAG4 >= 440 AND INPAT_DIAG4 <= 448)
OR (INPAT_DIAG5 >= 440 AND INPAT_DIAG5 <= 448)
OR (INPAT_DIAG6 >= 440 AND INPAT_DIAG6 <= 448)
OR (MEDREG_DIAG1 >= 440 AND MEDREG_DIAG1 <= 448)
OR (MEDREG_DIAG2 >= 440 AND MEDREG_DIAG2 <= 448)
OR (MEDREG_DIAG3 >= 440 AND MEDREG_DIAG3 <= 448)
OR (MEDREG_DIAG4 >= 440 AND MEDREG_DIAG4 <= 448)
OR (MEDREG_DIAG5 >= 440 AND MEDREG_DIAG5 <= 448)
OR (MEDREG_DIAG6 >= 440 AND MEDREG_DIAG6 <= 448)
OR (INPAT_DIAG1 >= 451 AND INPAT_DIAG1 <= 455)
OR (INPAT_DIAG2 >= 451 AND INPAT_DIAG2 <= 455)
OR (INPAT_DIAG3 >= 451 AND INPAT_DIAG3 <= 455)
OR (INPAT_DIAG4 >= 451 AND INPAT_DIAG4 <= 455)
OR (INPAT_DIAG5 >= 451 AND INPAT_DIAG5 <= 455)
OR (INPAT_DIAG6 >= 451 AND INPAT_DIAG6 <= 455)
OR (MEDREG_DIAG1 >= 451 AND MEDREG_DIAG1 <= 455)
OR (MEDREG_DIAG2 >= 451 AND MEDREG_DIAG2 <= 455)
OR (MEDREG_DIAG3 >= 451 AND MEDREG_DIAG3 <= 455)
OR (MEDREG_DIAG4 >= 451 AND MEDREG_DIAG4 <= 455)
OR (MEDREG_DIAG5 >= 451 AND MEDREG_DIAG5 <= 455)
OR (MEDREG_DIAG6 >= 451 AND MEDREG_DIAG6 <= 455)

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OR (INPAT_DIAG1 = 456) OR (INPAT_DIAG2 = 456)
OR (INPAT_DIAG3 = 456) OR (INPAT_DIAG4 = 456)
OR (INPAT_DIAG5 = 456) OR (INPAT_DIAG6 = 456)
OR (MEDREG_DIAG1 = 456) OR (MEDREG_DIAG2 = 456)
OR (MEDREG_DIAG3 = 456) OR (MEDREG_DIAG4 = 456)
OR (MEDREG_DIAG5 = 456) OR (MEDREG_DIAG6 = 456)
OR (INPAT_DIAG1 = 785) OR (INPAT_DIAG2 = 785)
OR (INPAT_DIAG3 = 785) OR (INPAT_DIAG4 = 785)
OR (INPAT_DIAG5 = 785) OR (INPAT_DIAG6 = 785)
OR (MEDREG_DIAG1 = 785) OR (MEDREG_DIAG2 = 785)
OR (MEDREG_DIAG3 = 785) OR (MEDREG_DIAG4 = 785)
OR (MEDREG_DIAG5 = 785) OR (MEDREG_DIAG6 = 785))
THEN
  ACUTE_CARDIO = 1
ELSE
  ACUTE_CARDIO = 0
END IF

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Pulmonary (%)

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IF (INPAT_DC = 1 OR MED_REG_CHNG = 1) AND
  ((INPAT_DIAG1 >= 011 AND INPAT_DIAG1 <= 012)
  OR (INPAT_DIAG2 >= 011 AND INPAT_DIAG2 <= 012)
  OR (INPAT_DIAG3 >= 011 AND INPAT_DIAG3 <= 012)
  OR (INPAT_DIAG4 >= 011 AND INPAT_DIAG4 <= 012)
  OR (INPAT_DIAG5 >= 011 AND INPAT_DIAG5 <= 012)
  OR (INPAT_DIAG6 >= 011 AND INPAT_DIAG6 <= 012)
  OR (MEDREG_DIAG1 >= 011 AND MEDREG_DIAG1 <= 012)
  OR (MEDREG_DIAG2 >= 011 AND MEDREG_DIAG2 <= 012)
  OR (MEDREG_DIAG3 >= 011 AND MEDREG_DIAG3 <= 012)
  OR (MEDREG_DIAG4 >= 011 AND MEDREG_DIAG4 <= 012)
  OR (MEDREG_DIAG5 >= 011 AND MEDREG_DIAG5 <= 012)
  OR (MEDREG_DIAG6 >= 011 AND MEDREG_DIAG6 <= 012)
  OR (INPAT_DIAG1 >= 160 AND INPAT_DIAG1 <= 165)
  OR (INPAT_DIAG2 >= 160 AND INPAT_DIAG2 <= 165)
  OR (INPAT_DIAG3 >= 160 AND INPAT_DIAG3 <= 165)
  OR (INPAT_DIAG4 >= 160 AND INPAT_DIAG4 <= 165)
  OR (INPAT_DIAG5 >= 160 AND INPAT_DIAG5 <= 165)
  OR (INPAT_DIAG6 >= 160 AND INPAT_DIAG6 <= 165)
  OR (MEDREG_DIAG1 >= 160 AND MEDREG_DIAG1 <= 165)
  OR (MEDREG_DIAG2 >= 160 AND MEDREG_DIAG2 <= 165)

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OR (MEDREG_DIAG3 >= 160 AND MEDREG_DIAG3 <= 165)
OR (MEDREG_DIAG4 >= 160 AND MEDREG_DIAG4 <= 165)
OR (MEDREG_DIAG5 >= 160 AND MEDREG_DIAG5 <= 165)
OR (MEDREG_DIAG6 >= 160 AND MEDREG_DIAG6 <= 165)
OR (INPAT_DIAG1 = 197) OR (INPAT_DIAG2 = 197)
OR (INPAT_DIAG3 = 197) OR (INPAT_DIAG4 = 197)
OR (INPAT_DIAG5 = 197) OR (INPAT_DIAG6 = 197)
OR (MEDREG_DIAG1 = 197) OR (MEDREG_DIAG2 = 197)
OR (MEDREG_DIAG3 = 197) OR (MEDREG_DIAG4 = 197)
OR (MEDREG_DIAG5 = 197) OR (MEDREG_DIAG6 = 197)
OR (INPAT_DIAG1 = 212) OR (INPAT_DIAG2 = 212)
OR (INPAT_DIAG3 = 212) OR (INPAT_DIAG4 = 212)
OR (INPAT_DIAG5 = 212) OR (INPAT_DIAG6 = 212)
OR (MEDREG_DIAG1 = 212) OR (MEDREG_DIAG2 = 212)
OR (MEDREG_DIAG3 = 212) OR (MEDREG_DIAG4 = 212)
OR (MEDREG_DIAG5 = 212) OR (MEDREG_DIAG6 = 212)
OR (INPAT_DIAG1 = 231) OR (INPAT_DIAG2 = 231)
OR (INPAT_DIAG3 = 231) OR (INPAT_DIAG4 = 231)
OR (INPAT_DIAG5 = 231) OR (INPAT_DIAG6 = 231)
OR (MEDREG_DIAG1 = 231) OR (MEDREG_DIAG2 = 231)
OR (MEDREG_DIAG3 = 231) OR (MEDREG_DIAG4 = 231)
OR (MEDREG_DIAG5 = 231) OR (MEDREG_DIAG6 = 231)
OR (INPAT_DIAG1 >= 460 AND INPAT_DIAG1 <= 466)
OR (INPAT_DIAG2 >= 460 AND INPAT_DIAG2 <= 466)
OR (INPAT_DIAG3 >= 460 AND INPAT_DIAG3 <= 466)
OR (INPAT_DIAG4 >= 460 AND INPAT_DIAG4 <= 466)
OR (INPAT_DIAG5 >= 460 AND INPAT_DIAG5 <= 466)
OR (INPAT_DIAG6 >= 460 AND INPAT_DIAG6 <= 466)
OR (MEDREG_DIAG1 >= 460 AND MEDREG_DIAG1 <= 466)
OR (MEDREG_DIAG2 >= 460 AND MEDREG_DIAG2 <= 466)
OR (MEDREG_DIAG3 >= 460 AND MEDREG_DIAG3 <= 466)
OR (MEDREG_DIAG4 >= 460 AND MEDREG_DIAG4 <= 466)
OR (MEDREG_DIAG5 >= 460 AND MEDREG_DIAG5 <= 466)
OR (MEDREG_DIAG6 >= 460 AND MEDREG_DIAG6 <= 466)
OR (INPAT_DIAG1 >= 470 AND INPAT_DIAG1 <= 478)
OR (INPAT_DIAG2 >= 470 AND INPAT_DIAG2 <= 478)
OR (INPAT_DIAG3 >= 470 AND INPAT_DIAG3 <= 478)
OR (INPAT_DIAG4 >= 470 AND INPAT_DIAG4 <= 478)
OR (INPAT_DIAG5 >= 470 AND INPAT_DIAG5 <= 478)
OR (INPAT_DIAG6 >= 470 AND INPAT_DIAG6 <= 478)

OR (MEDREG_DIAG1 >= 470 AND MEDREG_DIAG1 <= 478)
OR (MEDREG_DIAG2 >= 470 AND MEDREG_DIAG2 <= 478)
OR (MEDREG_DIAG3 >= 470 AND MEDREG_DIAG3 <= 478)
OR (MEDREG_DIAG4 >= 470 AND MEDREG_DIAG4 <= 478)
OR (MEDREG_DIAG5 >= 470 AND MEDREG_DIAG5 <= 478)
OR (MEDREG_DIAG6 >= 470 AND MEDREG_DIAG6 <= 478)
OR (INPAT_DIAG1 >= 480 AND INPAT_DIAG1 <= 487)
OR (INPAT_DIAG2 >= 480 AND INPAT_DIAG2 <= 487)
OR (INPAT_DIAG3 >= 480 AND INPAT_DIAG3 <= 487)
OR (INPAT_DIAG4 >= 480 AND INPAT_DIAG4 <= 487)
OR (INPAT_DIAG5 >= 480 AND INPAT_DIAG5 <= 487)
OR (INPAT_DIAG6 >= 480 AND INPAT_DIAG6 <= 487)
OR (MEDREG_DIAG1 >= 480 AND MEDREG_DIAG1 <= 487)
OR (MEDREG_DIAG2 >= 480 AND MEDREG_DIAG2 <= 487)
OR (MEDREG_DIAG3 >= 480 AND MEDREG_DIAG3 <= 487)
OR (MEDREG_DIAG4 >= 480 AND MEDREG_DIAG4 <= 487)
OR (MEDREG_DIAG5 >= 480 AND MEDREG_DIAG5 <= 487)
OR (MEDREG_DIAG6 >= 480 AND MEDREG_DIAG6 <= 487)
OR (INPAT_DIAG1 >= 490 AND INPAT_DIAG1 <= 496)
OR (INPAT_DIAG2 >= 490 AND INPAT_DIAG2 <= 496)
OR (INPAT_DIAG3 >= 490 AND INPAT_DIAG3 <= 496)
OR (INPAT_DIAG4 >= 490 AND INPAT_DIAG4 <= 496)
OR (INPAT_DIAG5 >= 490 AND INPAT_DIAG5 <= 496)
OR (INPAT_DIAG6 >= 490 AND INPAT_DIAG6 <= 496)
OR (MEDREG_DIAG1 >= 490 AND MEDREG_DIAG1 <= 496)
OR (MEDREG_DIAG2 >= 490 AND MEDREG_DIAG2 <= 496)
OR (MEDREG_DIAG3 >= 490 AND MEDREG_DIAG3 <= 496)
OR (MEDREG_DIAG4 >= 490 AND MEDREG_DIAG4 <= 496)
OR (MEDREG_DIAG5 >= 490 AND MEDREG_DIAG5 <= 496)
OR (MEDREG_DIAG6 >= 490 AND MEDREG_DIAG6 <= 496)
OR (INPAT_DIAG1 >= 500 AND INPAT_DIAG1 <= 508)
OR (INPAT_DIAG2 >= 500 AND INPAT_DIAG2 <= 508)
OR (INPAT_DIAG3 >= 500 AND INPAT_DIAG3 <= 508)
OR (INPAT_DIAG4 >= 500 AND INPAT_DIAG4 <= 508)
OR (INPAT_DIAG5 >= 500 AND INPAT_DIAG5 <= 508)
OR (INPAT_DIAG6 >= 500 AND INPAT_DIAG6 <= 508)
OR (MEDREG_DIAG1 >= 500 AND MEDREG_DIAG1 <= 508)
OR (MEDREG_DIAG2 >= 500 AND MEDREG_DIAG2 <= 508)
OR (MEDREG_DIAG3 >= 500 AND MEDREG_DIAG3 <= 508)
OR (MEDREG_DIAG4 >= 500 AND MEDREG_DIAG4 <= 508)

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OR (MEDREG_DIAG5 >= 500 AND MEDREG_DIAG5 <= 508)
OR (MEDREG_DIAG6 >= 500 AND MEDREG_DIAG6 <= 508)
OR (INPAT_DIAG1 >= 510 AND INPAT_DIAG1 <= 519)
OR (INPAT_DIAG2 >= 510 AND INPAT_DIAG2 <= 519)
OR (INPAT_DIAG3 >= 510 AND INPAT_DIAG3 <= 519)
OR (INPAT_DIAG4 >= 510 AND INPAT_DIAG4 <= 519)
OR (INPAT_DIAG5 >= 510 AND INPAT_DIAG5 <= 519)
OR (INPAT_DIAG6 >= 510 AND INPAT_DIAG6 <= 519)
OR (MEDREG_DIAG1 >= 510 AND MEDREG_DIAG1 <= 519)
OR (MEDREG_DIAG2 >= 510 AND MEDREG_DIAG2 <= 519)
OR (MEDREG_DIAG3 >= 510 AND MEDREG_DIAG3 <= 519)
OR (MEDREG_DIAG4 >= 510 AND MEDREG_DIAG4 <= 519)
OR (MEDREG_DIAG5 >= 510 AND MEDREG_DIAG5 <= 519)
OR (MEDREG_DIAG6 >= 510 AND MEDREG_DIAG6 <= 519)
OR (INPAT_DIAG1 = 786) OR (INPAT_DIAG2 = 786)
OR (INPAT_DIAG3 = 786) OR (INPAT_DIAG4 = 786)
OR (INPAT_DIAG5 = 786) OR (INPAT_DIAG6 = 786)
OR (MEDREG_DIAG1 = 786) OR (MEDREG_DIAG2 = 786)
OR (MEDREG_DIAG3 = 786) OR (MEDREG_DIAG4 = 786)
OR (MEDREG_DIAG5 = 786) OR (MEDREG_DIAG6 = 786)
OR (INPAT_DIAG1 >= 860 AND INPAT_DIAG1 <= 862)
OR (INPAT_DIAG2 >= 860 AND INPAT_DIAG2 <= 862)
OR (INPAT_DIAG3 >= 860 AND INPAT_DIAG3 <= 862)
OR (INPAT_DIAG4 >= 860 AND INPAT_DIAG4 <= 862)
OR (INPAT_DIAG5 >= 860 AND INPAT_DIAG5 <= 862)
OR (INPAT_DIAG6 >= 860 AND INPAT_DIAG6 <= 862)
OR (MEDREG_DIAG1 >= 860 AND MEDREG_DIAG1 <= 862)
OR (MEDREG_DIAG2 >= 860 AND MEDREG_DIAG2 <= 862)
OR (MEDREG_DIAG3 >= 860 AND MEDREG_DIAG3 <= 862)
OR (MEDREG_DIAG4 >= 860 AND MEDREG_DIAG4 <= 862)
OR (MEDREG_DIAG5 >= 860 AND MEDREG_DIAG5 <= 862)
OR (MEDREG_DIAG6 >= 860 AND MEDREG_DIAG6 <= 862))
THEN
    ACUTE_LUNG = 1
ELSE
    ACUTE_LUNG = 0
END IF

```

Diabetes mellitus (%)

```
IF (INPAT_DC = 1 OR MED_REG_CHNG = 1) AND
  ((INPAT_DIAG1 = 250) OR (INPAT_DIAG2 = 250)
   OR (INPAT_DIAG3 = 250) OR (INPAT_DIAG4 = 250)
   OR (INPAT_DIAG5 = 250) OR (INPAT_DIAG6 = 250)
   OR (MEDREG_DIAG1 = 250) OR (MEDREG_DIAG2 = 250)
   OR (MEDREG_DIAG3 = 250) OR (MEDREG_DIAG4 = 250)
   OR (MEDREG_DIAG5 = 250) OR (MEDREG_DIAG6 = 250))
THEN
  ACUTE_DIABETES= 1
ELSE
  ACUTE_DIABETES = 0
END IF
```

Gastrointestinal disorder (%)

```
IF (INPAT_DC = 1 OR MED_REG_CHNG = 1) AND
  (M1630_OSTOMY[1] = 02
   OR (INPAT_DIAG1 >= 001 AND INPAT_DIAG1 <= 009)
   OR (INPAT_DIAG2 >= 001 AND INPAT_DIAG2 <= 009)
   OR (INPAT_DIAG3 >= 001 AND INPAT_DIAG3 <= 009)
   OR (INPAT_DIAG4 >= 001 AND INPAT_DIAG4 <= 009)
   OR (INPAT_DIAG5 >= 001 AND INPAT_DIAG5 <= 009)
   OR (INPAT_DIAG6 >= 001 AND INPAT_DIAG6 <= 009)
   OR (MEDREG_DIAG1 >= 001 AND MEDREG_DIAG1 <= 009)
   OR (MEDREG_DIAG2 >= 001 AND MEDREG_DIAG2 <= 009)
   OR (MEDREG_DIAG3 >= 001 AND MEDREG_DIAG3 <= 009)
   OR (MEDREG_DIAG4 >= 001 AND MEDREG_DIAG4 <= 009)
   OR (MEDREG_DIAG5 >= 001 AND MEDREG_DIAG5 <= 009)
   OR (MEDREG_DIAG6 >= 001 AND MEDREG_DIAG6 <= 009)
   OR (INPAT_DIAG1 = 127) OR (INPAT_DIAG2 = 127)
   OR (INPAT_DIAG3 = 127) OR (INPAT_DIAG4 = 127)
   OR (INPAT_DIAG5 = 127) OR (INPAT_DIAG6 = 127)
   OR (MEDREG_DIAG1 = 127) OR (MEDREG_DIAG2 = 127)
   OR (MEDREG_DIAG3 = 127) OR (MEDREG_DIAG4 = 127)
   OR (MEDREG_DIAG5 = 127) OR (MEDREG_DIAG6 = 127)
   OR (INPAT_DIAG1 = 129) OR (INPAT_DIAG2 = 129)
   OR (INPAT_DIAG3 = 129) OR (INPAT_DIAG4 = 129)
   OR (INPAT_DIAG5 = 129) OR (INPAT_DIAG6 = 129)
   OR (MEDREG_DIAG1 = 129) OR (MEDREG_DIAG2 = 129)
   OR (MEDREG_DIAG3 = 129) OR (MEDREG_DIAG4 = 129))
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OR (MEDREG_DIAG5 = 129) OR (MEDREG_DIAG6 = 129)
OR (INPAT_DIAG1 >= 150 AND INPAT_DIAG1 <= 154)
OR (INPAT_DIAG2 >= 150 AND INPAT_DIAG2 <= 154)
OR (INPAT_DIAG3 >= 150 AND INPAT_DIAG3 <= 154)
OR (INPAT_DIAG4 >= 150 AND INPAT_DIAG4 <= 154)
OR (INPAT_DIAG5 >= 150 AND INPAT_DIAG5 <= 154)
OR (INPAT_DIAG6 >= 150 AND INPAT_DIAG6 <= 154)
OR (MEDREG_DIAG1 >= 150 AND MEDREG_DIAG1 <= 154)
OR (MEDREG_DIAG2 >= 150 AND MEDREG_DIAG2 <= 154)
OR (MEDREG_DIAG3 >= 150 AND MEDREG_DIAG3 <= 154)
OR (MEDREG_DIAG4 >= 150 AND MEDREG_DIAG4 <= 154)
OR (MEDREG_DIAG5 >= 150 AND MEDREG_DIAG5 <= 154)
OR (MEDREG_DIAG6 >= 150 AND MEDREG_DIAG6 <= 154)
OR (INPAT_DIAG1 = 156) OR (INPAT_DIAG2 = 156)
OR (INPAT_DIAG3 = 156) OR (INPAT_DIAG4 = 156)
OR (INPAT_DIAG5 = 156) OR (INPAT_DIAG6 = 156)
OR (MEDREG_DIAG1 = 156) OR (MEDREG_DIAG2 = 156)
OR (MEDREG_DIAG3 = 156) OR (MEDREG_DIAG4 = 156)
OR (MEDREG_DIAG5 = 156) OR (MEDREG_DIAG6 = 156)
OR (INPAT_DIAG1 = 159) OR (INPAT_DIAG2 = 159)
OR (INPAT_DIAG3 = 159) OR (INPAT_DIAG4 = 159)
OR (INPAT_DIAG5 = 159) OR (INPAT_DIAG6 = 159)
OR (MEDREG_DIAG1 = 159) OR (MEDREG_DIAG2 = 159)
OR (MEDREG_DIAG3 = 159) OR (MEDREG_DIAG4 = 159)
OR (MEDREG_DIAG5 = 159) OR (MEDREG_DIAG6 = 159)
OR (INPAT_DIAG1 = 211) OR (INPAT_DIAG2 = 211)
OR (INPAT_DIAG3 = 211) OR (INPAT_DIAG4 = 211)
OR (INPAT_DIAG5 = 211) OR (INPAT_DIAG6 = 211)
OR (MEDREG_DIAG1 = 211) OR (MEDREG_DIAG2 = 211)
OR (MEDREG_DIAG3 = 211) OR (MEDREG_DIAG4 = 211)
OR (MEDREG_DIAG5 = 211) OR (MEDREG_DIAG6 = 211)
OR (INPAT_DIAG1 = 230) OR (INPAT_DIAG2 = 230)
OR (INPAT_DIAG3 = 230) OR (INPAT_DIAG4 = 230)
OR (INPAT_DIAG5 = 230) OR (INPAT_DIAG6 = 230)
OR (MEDREG_DIAG1 = 230) OR (MEDREG_DIAG2 = 230)
OR (MEDREG_DIAG3 = 230) OR (MEDREG_DIAG4 = 230)
OR (MEDREG_DIAG5 = 230) OR (MEDREG_DIAG6 = 230)
OR (INPAT_DIAG1 >= 530 AND INPAT_DIAG1 <= 537)
OR (INPAT_DIAG2 >= 530 AND INPAT_DIAG2 <= 537)
OR (INPAT_DIAG3 >= 530 AND INPAT_DIAG3 <= 537)

OR (INPAT_DIAG4 >= 530 AND INPAT_DIAG4 <= 537)
OR (INPAT_DIAG5 >= 530 AND INPAT_DIAG5 <= 537)
OR (INPAT_DIAG6 >= 530 AND INPAT_DIAG6 <= 537)
OR (MEDREG_DIAG1 >= 530 AND MEDREG_DIAG1 <= 537)
OR (MEDREG_DIAG2 >= 530 AND MEDREG_DIAG2 <= 537)
OR (MEDREG_DIAG3 >= 530 AND MEDREG_DIAG3 <= 537)
OR (MEDREG_DIAG4 >= 530 AND MEDREG_DIAG4 <= 537)
OR (MEDREG_DIAG5 >= 530 AND MEDREG_DIAG5 <= 537)
OR (MEDREG_DIAG6 >= 530 AND MEDREG_DIAG6 <= 537)
OR (INPAT_DIAG1 = 538) OR (INPAT_DIAG2 = 538)
OR (INPAT_DIAG3 = 538) OR (INPAT_DIAG4 = 538)
OR (INPAT_DIAG5 = 538) OR (INPAT_DIAG6 = 538)
OR (MEDREG_DIAG1 = 538) OR (MEDREG_DIAG2 = 538)
OR (MEDREG_DIAG3 = 538) OR (MEDREG_DIAG4 = 538)
OR (MEDREG_DIAG5 = 538) OR (MEDREG_DIAG6 = 538)
OR (INPAT_DIAG1 >= 550 AND INPAT_DIAG1 <= 553)
OR (INPAT_DIAG2 >= 550 AND INPAT_DIAG2 <= 553)
OR (INPAT_DIAG3 >= 550 AND INPAT_DIAG3 <= 553)
OR (INPAT_DIAG4 >= 550 AND INPAT_DIAG4 <= 553)
OR (INPAT_DIAG5 >= 550 AND INPAT_DIAG5 <= 553)
OR (INPAT_DIAG6 >= 550 AND INPAT_DIAG6 <= 553)
OR (MEDREG_DIAG1 >= 550 AND MEDREG_DIAG1 <= 553)
OR (MEDREG_DIAG2 >= 550 AND MEDREG_DIAG2 <= 553)
OR (MEDREG_DIAG3 >= 550 AND MEDREG_DIAG3 <= 553)
OR (MEDREG_DIAG4 >= 550 AND MEDREG_DIAG4 <= 553)
OR (MEDREG_DIAG5 >= 550 AND MEDREG_DIAG5 <= 553)
OR (MEDREG_DIAG6 >= 550 AND MEDREG_DIAG6 <= 553)
OR (INPAT_DIAG1 >= 555 AND INPAT_DIAG1 <= 558)
OR (INPAT_DIAG2 >= 555 AND INPAT_DIAG2 <= 558)
OR (INPAT_DIAG3 >= 555 AND INPAT_DIAG3 <= 558)
OR (INPAT_DIAG4 >= 555 AND INPAT_DIAG4 <= 558)
OR (INPAT_DIAG5 >= 555 AND INPAT_DIAG5 <= 558)
OR (INPAT_DIAG6 >= 555 AND INPAT_DIAG6 <= 558)
OR (MEDREG_DIAG1 >= 555 AND MEDREG_DIAG1 <= 558)
OR (MEDREG_DIAG2 >= 555 AND MEDREG_DIAG2 <= 558)
OR (MEDREG_DIAG3 >= 555 AND MEDREG_DIAG3 <= 558)
OR (MEDREG_DIAG4 >= 555 AND MEDREG_DIAG4 <= 558)
OR (MEDREG_DIAG5 >= 555 AND MEDREG_DIAG5 <= 558)
OR (MEDREG_DIAG6 >= 555 AND MEDREG_DIAG6 <= 558)
OR (INPAT_DIAG1 >= 560 AND INPAT_DIAG1 <= 579)

OR (INPAT_DIAG2 >= 560 AND INPAT_DIAG2 <= 579)
OR (INPAT_DIAG3 >= 560 AND INPAT_DIAG3 <= 579)
OR (INPAT_DIAG4 >= 560 AND INPAT_DIAG4 <= 579)
OR (INPAT_DIAG5 >= 560 AND INPAT_DIAG5 <= 579)
OR (INPAT_DIAG6 >= 560 AND INPAT_DIAG6 <= 579)
OR (MEDREG_DIAG1 >= 560 AND MEDREG_DIAG1 <= 579)
OR (MEDREG_DIAG2 >= 560 AND MEDREG_DIAG2 <= 579)
OR (MEDREG_DIAG3 >= 560 AND MEDREG_DIAG3 <= 579)
OR (MEDREG_DIAG4 >= 560 AND MEDREG_DIAG4 <= 579)
OR (MEDREG_DIAG5 >= 560 AND MEDREG_DIAG5 <= 579)
OR (MEDREG_DIAG6 >= 560 AND MEDREG_DIAG6 <= 579)
OR (INPAT_DIAG1 = 787) OR (INPAT_DIAG2 = 787)
OR (INPAT_DIAG3 = 787) OR (INPAT_DIAG4 = 787)
OR (INPAT_DIAG5 = 787) OR (INPAT_DIAG6 = 787)
OR (MEDREG_DIAG1 = 787) OR (MEDREG_DIAG2 = 787)
OR (MEDREG_DIAG3 = 787) OR (MEDREG_DIAG4 = 787)
OR (MEDREG_DIAG5 = 787) OR (MEDREG_DIAG6 = 787)
OR (INPAT_DIAG1 = 863) OR (INPAT_DIAG2 = 863)
OR (INPAT_DIAG3 = 863) OR (INPAT_DIAG4 = 863)
OR (INPAT_DIAG5 = 863) OR (INPAT_DIAG6 = 863)
OR (MEDREG_DIAG1 = 863) OR (MEDREG_DIAG2 = 863)
OR (MEDREG_DIAG3 = 863) OR (MEDREG_DIAG4 = 863)
OR (MEDREG_DIAG5 = 863) OR (MEDREG_DIAG6 = 863))

THEN

ACUTE_GI = 1

ELSE

ACUTE_GI = 0

END IF

Contagious/communicable (%)

IF (INPAT_DC = 1 OR MED_REG_CHNG = 1) AND

((INPAT_DIAG1 >= 001 AND INPAT_DIAG1 <= 018)

OR (INPAT_DIAG2 >= 001 AND INPAT_DIAG2 <= 018)

OR (INPAT_DIAG3 >= 001 AND INPAT_DIAG3 <= 018)

OR (INPAT_DIAG4 >= 001 AND INPAT_DIAG4 <= 018)

OR (INPAT_DIAG5 >= 001 AND INPAT_DIAG5 <= 018)

OR (INPAT_DIAG6 >= 001 AND INPAT_DIAG6 <= 018)

OR (MEDREG_DIAG1 >= 001 AND MEDREG_DIAG1 <= 018)

OR (MEDREG_DIAG2 >= 001 AND MEDREG_DIAG2 <= 018)

OR (MEDREG_DIAG3 >= 001 AND MEDREG_DIAG3 <= 018)

OR (MEDREG_DIAG4 >= 001 AND MEDREG_DIAG4 <= 018)
OR (MEDREG_DIAG5 >= 001 AND MEDREG_DIAG5 <= 018)
OR (MEDREG_DIAG6 >= 001 AND MEDREG_DIAG6 <= 018)
OR (INPAT_DIAG1 >= 020 AND INPAT_DIAG1 <= 027)
OR (INPAT_DIAG2 >= 020 AND INPAT_DIAG2 <= 027)
OR (INPAT_DIAG3 >= 020 AND INPAT_DIAG3 <= 027)
OR (INPAT_DIAG4 >= 020 AND INPAT_DIAG4 <= 027)
OR (INPAT_DIAG5 >= 020 AND INPAT_DIAG5 <= 027)
OR (INPAT_DIAG6 >= 020 AND INPAT_DIAG6 <= 027)
OR (MEDREG_DIAG1 >= 020 AND MEDREG_DIAG1 <= 027)
OR (MEDREG_DIAG2 >= 020 AND MEDREG_DIAG2 <= 027)
OR (MEDREG_DIAG3 >= 020 AND MEDREG_DIAG3 <= 027)
OR (MEDREG_DIAG4 >= 020 AND MEDREG_DIAG4 <= 027)
OR (MEDREG_DIAG5 >= 020 AND MEDREG_DIAG5 <= 027)
OR (MEDREG_DIAG6 >= 020 AND MEDREG_DIAG6 <= 027)
OR (INPAT_DIAG1 >= 030 AND INPAT_DIAG1 <= 037)
OR (INPAT_DIAG2 >= 030 AND INPAT_DIAG2 <= 037)
OR (INPAT_DIAG3 >= 030 AND INPAT_DIAG3 <= 037)
OR (INPAT_DIAG4 >= 030 AND INPAT_DIAG4 <= 037)
OR (INPAT_DIAG5 >= 030 AND INPAT_DIAG5 <= 037)
OR (INPAT_DIAG6 >= 030 AND INPAT_DIAG6 <= 037)
OR (MEDREG_DIAG1 >= 030 AND MEDREG_DIAG1 <= 037)
OR (MEDREG_DIAG2 >= 030 AND MEDREG_DIAG2 <= 037)
OR (MEDREG_DIAG3 >= 030 AND MEDREG_DIAG3 <= 037)
OR (MEDREG_DIAG4 >= 030 AND MEDREG_DIAG4 <= 037)
OR (MEDREG_DIAG5 >= 030 AND MEDREG_DIAG5 <= 037)
OR (MEDREG_DIAG6 >= 030 AND MEDREG_DIAG6 <= 037)
OR (INPAT_DIAG1 >= 039 AND INPAT_DIAG1 <= 057)
OR (INPAT_DIAG2 >= 039 AND INPAT_DIAG2 <= 057)
OR (INPAT_DIAG3 >= 039 AND INPAT_DIAG3 <= 057)
OR (INPAT_DIAG4 >= 039 AND INPAT_DIAG4 <= 057)
OR (INPAT_DIAG5 >= 039 AND INPAT_DIAG5 <= 057)
OR (INPAT_DIAG6 >= 039 AND INPAT_DIAG6 <= 057)
OR (MEDREG_DIAG1 >= 039 AND MEDREG_DIAG1 <= 057)
OR (MEDREG_DIAG2 >= 039 AND MEDREG_DIAG2 <= 057)
OR (MEDREG_DIAG3 >= 039 AND MEDREG_DIAG3 <= 057)
OR (MEDREG_DIAG4 >= 039 AND MEDREG_DIAG4 <= 057)
OR (MEDREG_DIAG5 >= 039 AND MEDREG_DIAG5 <= 057)
OR (MEDREG_DIAG6 >= 039 AND MEDREG_DIAG6 <= 057)
OR (INPAT_DIAG1 >= 060 AND INPAT_DIAG1 <= 066)

OR (INPAT_DIAG2 >= 060 AND INPAT_DIAG2 <= 066)
OR (INPAT_DIAG3 >= 060 AND INPAT_DIAG3 <= 066)
OR (INPAT_DIAG4 >= 060 AND INPAT_DIAG4 <= 066)
OR (INPAT_DIAG5 >= 060 AND INPAT_DIAG5 <= 066)
OR (INPAT_DIAG6 >= 060 AND INPAT_DIAG6 <= 066)
OR (MEDREG_DIAG1 >= 060 AND MEDREG_DIAG1 <= 066)
OR (MEDREG_DIAG2 >= 060 AND MEDREG_DIAG2 <= 066)
OR (MEDREG_DIAG3 >= 060 AND MEDREG_DIAG3 <= 066)
OR (MEDREG_DIAG4 >= 060 AND MEDREG_DIAG4 <= 066)
OR (MEDREG_DIAG5 >= 060 AND MEDREG_DIAG5 <= 066)
OR (MEDREG_DIAG6 >= 060 AND MEDREG_DIAG6 <= 066)
OR (INPAT_DIAG1 >= 070 AND INPAT_DIAG1 <= 088)
OR (INPAT_DIAG2 >= 070 AND INPAT_DIAG2 <= 088)
OR (INPAT_DIAG3 >= 070 AND INPAT_DIAG3 <= 088)
OR (INPAT_DIAG4 >= 070 AND INPAT_DIAG4 <= 088)
OR (INPAT_DIAG5 >= 070 AND INPAT_DIAG5 <= 088)
OR (INPAT_DIAG6 >= 070 AND INPAT_DIAG6 <= 088)
OR (MEDREG_DIAG1 >= 070 AND MEDREG_DIAG1 <= 088)
OR (MEDREG_DIAG2 >= 070 AND MEDREG_DIAG2 <= 088)
OR (MEDREG_DIAG3 >= 070 AND MEDREG_DIAG3 <= 088)
OR (MEDREG_DIAG4 >= 070 AND MEDREG_DIAG4 <= 088)
OR (MEDREG_DIAG5 >= 070 AND MEDREG_DIAG5 <= 088)
OR (MEDREG_DIAG6 >= 070 AND MEDREG_DIAG6 <= 088)
OR (INPAT_DIAG1 >= 090 AND INPAT_DIAG1 <= 104)
OR (INPAT_DIAG2 >= 090 AND INPAT_DIAG2 <= 104)
OR (INPAT_DIAG3 >= 090 AND INPAT_DIAG3 <= 104)
OR (INPAT_DIAG4 >= 090 AND INPAT_DIAG4 <= 104)
OR (INPAT_DIAG5 >= 090 AND INPAT_DIAG5 <= 104)
OR (INPAT_DIAG6 >= 090 AND INPAT_DIAG6 <= 104)
OR (MEDREG_DIAG1 >= 090 AND MEDREG_DIAG1 <= 104)
OR (MEDREG_DIAG2 >= 090 AND MEDREG_DIAG2 <= 104)
OR (MEDREG_DIAG3 >= 090 AND MEDREG_DIAG3 <= 104)
OR (MEDREG_DIAG4 >= 090 AND MEDREG_DIAG4 <= 104)
OR (MEDREG_DIAG5 >= 090 AND MEDREG_DIAG5 <= 104)
OR (MEDREG_DIAG6 >= 090 AND MEDREG_DIAG6 <= 104)
OR (INPAT_DIAG1 >= 110 AND INPAT_DIAG1 <= 118)
OR (INPAT_DIAG2 >= 110 AND INPAT_DIAG2 <= 118)
OR (INPAT_DIAG3 >= 110 AND INPAT_DIAG3 <= 118)
OR (INPAT_DIAG4 >= 110 AND INPAT_DIAG4 <= 118)
OR (INPAT_DIAG5 >= 110 AND INPAT_DIAG5 <= 118)

OR (INPAT_DIAG6 >= 110 AND INPAT_DIAG6 <= 118)
 OR (MEDREG_DIAG1 >= 110 AND MEDREG_DIAG1 <= 118)
 OR (MEDREG_DIAG2 >= 110 AND MEDREG_DIAG2 <= 118)
 OR (MEDREG_DIAG3 >= 110 AND MEDREG_DIAG3 <= 118)
 OR (MEDREG_DIAG4 >= 110 AND MEDREG_DIAG4 <= 118)
 OR (MEDREG_DIAG5 >= 110 AND MEDREG_DIAG5 <= 118)
 OR (MEDREG_DIAG6 >= 110 AND MEDREG_DIAG6 <= 118)
 OR (INPAT_DIAG1 >= 120 AND INPAT_DIAG1 <= 136)
 OR (INPAT_DIAG2 >= 120 AND INPAT_DIAG2 <= 136)
 OR (INPAT_DIAG3 >= 120 AND INPAT_DIAG3 <= 136)
 OR (INPAT_DIAG4 >= 120 AND INPAT_DIAG4 <= 136)
 OR (INPAT_DIAG5 >= 120 AND INPAT_DIAG5 <= 136)
 OR (INPAT_DIAG6 >= 120 AND INPAT_DIAG6 <= 136)
 OR (MEDREG_DIAG1 >= 120 AND MEDREG_DIAG1 <= 136)
 OR (MEDREG_DIAG2 >= 120 AND MEDREG_DIAG2 <= 136)
 OR (MEDREG_DIAG3 >= 120 AND MEDREG_DIAG3 <= 136)
 OR (MEDREG_DIAG4 >= 120 AND MEDREG_DIAG4 <= 136)
 OR (MEDREG_DIAG5 >= 120 AND MEDREG_DIAG5 <= 136)
 OR (MEDREG_DIAG6 >= 120 AND MEDREG_DIAG6 <= 136))

THEN

ACUTE_CONTAGIOUS= 1

ELSE

ACUTE_CONTAGIOUS = 0

END IF

Urinary incont./catheter (%)

IF (INPAT_DC = 1 **OR** MED_REG_CHNG = 1) **AND**
 (M1610_UR_INCONT[1] = 01 **OR** M1610_UR_INCONT[1] = 02) **AND**
 M1018_PRIOR_UR_INCON[1] = 0 **AND** M1018_PRIOR_CATH[1] = 0

THEN

ACUTE_INCONT = 1

ELSE

ACUTE_INCONT = 0

END IF

Mental/emotional (%)

ACUTE_PSYCH = VALUE(M1750_REC_PSYCH_NURS[1])

Oxygen therapy (%)

ACUTE_O2 = VALUE(M0500_RESPTX_OXYGEN)

IV/infusion therapy (%)

ACUTE_IV = VALUE(M1030_THH_IV_INFUSION[1])

Enteral/parenteral nutrition (%)

IF M1030_THH_PAR_NUTRITION[1] = 1 **OR** M1030_THH_ENT_NUTRITION[1] = 1

THEN

ACUTE_ENT_PAR_NUTRI = 1

ELSE

ACUTE_ENT_PAR_NUTRI = 0

END IF

Ventilator (%)

ACUTE_VENT = VALUE(M1410_RESPTX_VENTILATOR[1])

Chronic Conditions

Dependence in living skills (%)

IF M1890_CUR_PHONE_USE[1] = NA

THEN

CUR_PHONE_TRIGGER_2 = 0

CUR_PHONE_TRIGGER_3 = 0

ELSE

IF VALUE(M1890_CUR_PHONE_USE[1]) > 2

THEN

CUR_PHONE_TRIGGER_2 = 1

ELSE

CUR_PHONE_TRIGGER_2 = 0

END IF

IF VALUE(M1890_CUR_PHONE_USE[1]) > 3

THEN

CUR_PHONE_TRIGGER_3 = 1

ELSE

CUR_PHONE_TRIGGER_3 = 0

END IF

END IF

IF INPAT_DC = 0 **AND** MED_REG_CHNG = 0

AND ((VALUE(M1880_CUR_PREP_LT_MEALS[1]) > 0

AND CUR_PHONE_TRIGGER_2 = 1)

OR VALUE(M1880_CUR_PREP_LT_MEALS[1]) > 1

OR CUR_PHONE_TRIGGER_3 = 1)

THEN

CHRONIC_LIV_SKILL = 1

```

ELSEIF (INPAT_DC = 1 OR MED_REG_CHNG = 1)
    AND ((VALUE(M1880_CUR_PREP_LT_MEALS[1]) > 0
    AND CUR_PHONE_TRIGGER_2 = 1)
    OR VALUE(M1880_CUR_PREP_LT_MEALS[1]) > 1
    OR CUR_PHONE_TRIGGER_3 = 1)
    AND VALUE(M1900_PRIOR_ADLIADL_HSEHOLD[1]) >0
THEN
    CHRONIC_LIV_SKILL = 1
ELSE
    CHRONIC_LIV_SKILL = 0
END IF

```

Dependence in personal care (%)

```

IF INPAT_DC = 0 AND MED_REG_CHNG = 0
    AND (VALUE(M1830_CRNT_BATHG [1]) > 2
    OR VALUE(M1840_CUR_TOILTG[1]) > 2
    OR VALUE(M1845_CUR_TOILTG_HYGN[1]) > 2
    OR (VALUE(M1800_CUR_GROOMING[1]) > 1 AND
    (VALUE(M1810_CUR_DRESS_UPPER[1]) >1 OR
    VALUE(M1820_CUR_DRESS_LOWER[1]) >1)))
THEN
    CHRONIC_PERS_CARE = 1
ELSEIF (INPAT_DC = 1 OR MED_REG_CHNG = 1)
    AND (VALUE(M1830_CRNT_BATHG [1]) > 2
    OR VALUE(M1840_CUR_TOILTG[1]) > 2
    OR VALUE(M1845_CUR_TOILTG_HYGN[1]) > 2
    OR (VALUE(M1800_CUR_GROOMING[1]) > 1 AND
    (VALUE(M1810_CUR_DRESS_UPPER[1]) >1 OR
    VALUE(M1820_CUR_DRESS_LOWER[1]) >1))) AND
    VALUE(M1900_PRIOR_ADLIADL_SELF[1]) >0
THEN
    CHRONIC_PERS_CARE = 1
ELSE
    CHRONIC_PERS_CARE = 0
END IF

```

Impaired ambulation/mobility (%)

```

IF INPAT_DC = 0 AND MED_REG_CHNG = 0
    AND (VALUE(M1840_CUR_TOILTG [1]) > 2
    OR VALUE(M1840_CUR_TOILTG [1]) > 1
    OR VALUE(M1860_CRNT_AMBLTN [1]) > 1)
THEN
    CHRONIC_MOBILITY = 1
ELSEIF (INPAT_DC = 1 OR MED_REG_CHNG = 1)
    AND (VALUE(M1840_CUR_TOILTG [1]) > 2
    OR VALUE(M1840_CUR_TOILTG [1]) > 1)

```

```

OR VALUE(M1860_CRNT_AMBLTN [1]) > 1)
AND (VALUE(M1900_PRIOR_ADLIADL_AMBLTN[1]) > 0
OR VALUE(M1900_PRIOR_ADLIADL_TRNSFR[1]) > 0)
THEN
    CHRONIC_MOBILITY = 1
ELSE
    CHRONIC_MOBILITY = 0
END IF

```

Urinary incontinence/catheter (%)

```

IF INPAT_DC = 0 AND MED_REG_CHNG = 0
    AND (M1610_UR_INCONT[1] = 01 OR M1610_UR_INCONT[1] = 02)
THEN
    CHRONIC_INCONT_CATH = 1
ELSEIF (INPAT_DC = 1 OR MED_REG_CHNG = 1)
    AND (M1610_UR_INCONT[1] = 01 OR M1610_UR_INCONT[1] = 02) AND
    (M1018_PRIOR_UR_INCON[1] = 1 OR M1018_PRIOR_CATH[1] = 1)
THEN
    CHRONIC_INCONT_CATH = 1
ELSE
    CHRONIC_INCONT_CATH = 0
END IF

```

Dependence in med. admin. (%)

```

IF INPAT_DC = 0 AND MED_REG_CHNG = 0
    AND (ORAL_MEDS > 0 OR INJECT_MEDS > 0)
THEN
    CHRONIC_MED_ADMIN = 1
ELSEIF (INPAT_DC = 1 OR MED_REG_CHNG = 1)
    AND (ORAL_MEDS > 0 OR INJECT_MEDS > 0)
    AND (P_ORAL_MEDS > 0 OR P_INJECT_MEDS > 0)
THEN
    CHRONIC_MED_ADMIN = 1
ELSE
    CHRONIC_MED_ADMIN = 0
END IF

```

Chronic pain (%)

```

IF INPAT_DC = 0 AND MED_REG_CHNG = 0
THEN
    IF PAIN > 2
        THEN
            CHRONIC_PAIN = 1
        ELSE
            CHRONIC_PAIN = 0
        END IF

```

```

ELSEIF (INPAT_DC = 1 OR MED_REG_CHNG = 1)
THEN
  IF P_INTRACT_PAIN = MISSING
  THEN
    CHRONIC_PAIN = MISSING
  ELSEIF PAIN > 2 AND P_INTRACT_PAIN = 1
  THEN
    CHRONIC_PAIN = 1
  ELSE
    CHRONIC_PAIN = 0
  END IF
END IF

```

Cognitive/mental/behavioral (%)

```

IF INPAT_DC = 0 AND MED_REG_CHNG = 0
THEN
  IF (MEM_DEFICIT = 1 OR IMPR_DECISN = 1 OR VERBAL_DISRUPT = 1
    OR AGGRESSION = 1 OR INAPPRO_BHV = 1 OR DELUSIONS = 1)
  THEN
    CHRONIC_MENT_BEHAV = 1
  ELSE
    CHRONIC_MENT_BEHAV = 0
  ENDIF
ELSEIF (INPAT_DC = 1 OR MED_REG_CHNG = 1)
THEN
  IF P_IMPR_DECSN = MISSING
  THEN
    CHRONIC_MENT_BEHAV = MISSING
  ELSEIF (P_IMPR_DECSN = 1 OR P_DISRUPTIVE = 1 OR P_MEM_LOSS = 1)
    AND (MEM_DEFICIT = 1 OR IMPR_DECISN = 1 OR VERBAL_DISRUPT = 1
    OR AGGRESSION = 1 OR INAPPRO_BHV = 1 OR DELUSIONS = 1)
  THEN
    CHRONIC_MENT_BEHAV = 1
  ELSE
    CHRONIC_MENT_BEHAV = 0
  END IF
END IF

```

Chronic pt. with caregiver (%)

```

IF (CHRONIC_LIV_SKILL = 1 OR CHRONIC_PERS_CARE = 1
  OR CHRONIC_MOBILITY = 1 OR CHRONIC_INCONT_CATH = 1
  OR CHRONIC_MED_ADMIN = 1 OR CHRONIC_PAIN = 1
  OR CHRONIC_MENT_BEHAV = 1)
  AND (AVAIL_RTC = 1 OR AVAIL_NIGHT = 1)
THEN

```

```

    CHRONIC_ANY_W_CG = 1
ELSE
    CHRONIC_ANY_W_CG = 0
END IF

```

Home Care Diagnoses

Several intermediate variables are calculated for use in the calculation of these measures. Only home care diagnoses with a severity rating greater than zero (asymptomatic) are used. If there are "payment" diagnoses coded, severity rating is ignored. V or E code diagnoses are ignored for the purpose of calculating these measures.

3DIGIT(FieldName) = portion of ICD-9 code to the left of the decimal point. If the ICD-9 code is blank, the result is blank. If the ICD-9 coded is a V or E code, the result is blank.

```

IF M1020_PRIMARY_DIAG_SEVERITY[1] = 00
    AND MID(M1020_PRIMARY_DIAG_ICD[1],2,1) <> "V"
THEN
    HC_DIAG1 = BLANK
    HC_DIAG2 = BLANK
    HC_DIAG3 = BLANK
    HC_DIAG4 = BLANK
    HC_DIAG5 = BLANK
    HC_DIAG6 = BLANK
    PMT_DIAG1 = BLANK
    PMT2_DIAG1 = BLANK
    PMT_DIAG2 = BLANK
    PMT2_DIAG2 = BLANK
    PMT_DIAG3 = BLANK
    PMT2_DIAG3 = BLANK
    PMT_DIAG4 = BLANK
    PMT2_DIAG4 = BLANK
    PMT_DIAG5 = BLANK
    PMT2_DIAG5 = BLANK
    PMT_DIAG6 = BLANK
    PMT2_DIAG6 = BLANK

```

```

ELSE
    HC_DIAG1 = 3DIGIT(M1020_PRIMARY_DIAG_ICD[1])
    PMT_DIAG1 = 3DIGIT(M1024_PMT_DIAG_ICD_A3[1])
    PMT2_DIAG1 = 3DIGIT(M1024_PMT_DIAG_ICD_A4[1])
    IF M1022_OTH_DIAG1_SEVERITY[1] > 00
        THEN

```

```

    HC_DIAG2 = 3DIGIT(M1022_OTH_DIAG1_ICD[1])
ELSE
    HC_DIAG2 = BLANK
END IF
PMT_DIAG2 = 3DIGIT(M1024_PMT_DIAG_ICD_B3 [1])
PMT2_DIAG2 = 3DIGIT(M1024_PMT_DIAG_ICD_B4[1])
IF M1022_OTH_DIAG2_SEVERITY[1] > 00
THEN
    HC_DIAG3 = 3DIGIT(M1022_OTH_DIAG2_ICD[1])
ELSE
    HC_DIAG3 = BLANK
END IF
PMT_DIAG3 = 3DIGIT(M1024_PMT_DIAG_ICD_C3 [1])
PMT2_DIAG3 = 3DIGIT(M1024_PMT_DIAG_ICD_C4[1])
IF M1022_OTH_DIAG3_SEVERITY[1] > 00
THEN
    HC_DIAG4 = 3DIGIT(M1022_OTH_DIAG3_ICD [1])
ELSE
    HC_DIAG4 = BLANK
END IF
PMT_DIAG4 = 3DIGIT(M1024_PMT_DIAG_ICD_D3 [1])
PMT2_DIAG4 = 3DIGIT(M1024_PMT_DIAG_ICD_D4[1])
IF M1022_OTH_DIAG4_SEVERITY[1] > 00
THEN
    HC_DIAG5 = 3DIGIT(M1022_OTH_DIAG4_ICD[1])
ELSE
    HC_DIAG5 = BLANK
END IF
PMT_DIAG5 = 3DIGIT(M1024_PMT_DIAG_ICD_E3 [1])
PMT2_DIAG5 = 3DIGIT(M1024_PMT_DIAG_ICD_E4[1])
IF M1022_OTH_DIAG5_SEVERITY[1] > 00
THEN
    HC_DIAG6 = 3DIGIT(M1022_OTH_DIAG5_ICD[1])
ELSE
    HC_DIAG6 = BLANK
END IF
PMT_DIAG6 = 3DIGIT(M1024_PMT_DIAG_ICD_F3 [1])
PMT2_DIAG6 = 3DIGIT(M1024_PMT_DIAG_ICD_F4[1])
END IF

```


Infections/parasitic diseases (%)

```
IF (HC_DIAG1 >= 001 AND HC_DIAG1 <= 139)
  OR (PMT_DIAG1 >= 001 AND PMT_DIAG1 <= 139)
  OR (PMT2_DIAG1 >= 001 AND PMT2_DIAG1 <= 139)
  OR (HC_DIAG2 >= 001 AND HC_DIAG2 <= 139)
  OR (PMT_DIAG2 >= 001 AND PMT_DIAG2 <= 139)
  OR (PMT2_DIAG2 >= 001 AND PMT2_DIAG2 <= 139)
  OR (HC_DIAG3 >= 001 AND HC_DIAG3 <= 139)
  OR (PMT_DIAG3 >= 001 AND PMT_DIAG3 <= 139)
  OR (PMT2_DIAG3 >= 001 AND PMT2_DIAG3 <= 139)
  OR (HC_DIAG4 >= 001 AND HC_DIAG4 <= 139)
  OR (PMT_DIAG4 >= 001 AND PMT_DIAG4 <= 139)
  OR (PMT2_DIAG4 >= 001 AND PMT2_DIAG4 <= 139)
  OR (HC_DIAG5 >= 001 AND HC_DIAG5 <= 139)
  OR (PMT_DIAG5 >= 001 AND PMT_DIAG5 <= 139)
  OR (PMT2_DIAG5 >= 001 AND PMT2_DIAG5 <= 139)
  OR (HC_DIAG6 >= 001 AND HC_DIAG6 <= 139)
  OR (PMT_DIAG6 >= 001 AND PMT_DIAG6 <= 139)
  OR (PMT2_DIAG6 >= 001 AND PMT2_DIAG6 <= 139)
THEN
  HC_DX_INFECT = 1
ELSE
  HC_DX_INFECT = 0
END IF
```

Neoplasms (%)

```
IF (HC_DIAG1 >= 140 AND HC_DIAG1 <= 239)
  OR (PMT_DIAG1 >= 140 AND PMT_DIAG1 <= 239)
  OR (PMT2_DIAG1 >= 140 AND PMT2_DIAG1 <= 239)
  OR (HC_DIAG2 >= 140 AND HC_DIAG2 <= 239)
  OR (PMT_DIAG2 >= 140 AND PMT_DIAG2 <= 239)
  OR (PMT2_DIAG2 >= 140 AND PMT2_DIAG2 <= 239)
  OR (HC_DIAG3 >= 140 AND HC_DIAG3 <= 239)
  OR (PMT_DIAG3 >= 140 AND PMT_DIAG3 <= 239)
  OR (PMT2_DIAG3 >= 140 AND PMT2_DIAG3 <= 239)
  OR (HC_DIAG4 >= 140 AND HC_DIAG4 <= 239)
  OR (PMT_DIAG4 >= 140 AND PMT_DIAG4 <= 239)
  OR (PMT2_DIAG4 >= 140 AND PMT2_DIAG4 <= 239)
  OR (HC_DIAG5 >= 140 AND HC_DIAG5 <= 239)
  OR (PMT_DIAG5 >= 140 AND PMT_DIAG5 <= 239)
```

```

    OR (PMT2_DIAG5 >= 140 AND PMT2_DIAG5 <= 239)
    OR (HC_DIAG6 >= 140 AND HC_DIAG6 <= 239)
    OR (PMT_DIAG6 >= 140 AND PMT_DIAG6 <= 239)
    OR (PMT2_DIAG6 >= 140 AND PMT2_DIAG6 <= 239)
THEN
    HC_DX_NEOPLASM = 1
ELSE
    HC_DX_NEOPLASM = 0
END IF

```

Endocrine/nutrit./metabolic (%)

```

IF (HC_DIAG1 >= 240 AND HC_DIAG1 <= 279)
    OR (PMT_DIAG1 >= 240 AND PMT_DIAG1 <= 279)
    OR (PMT2_DIAG1 >= 240 AND PMT2_DIAG1 <= 279)
    OR (HC_DIAG2 >= 240 AND HC_DIAG2 <= 279)
    OR (PMT_DIAG2 >= 240 AND PMT_DIAG2 <= 279)
    OR (PMT2_DIAG2 >= 240 AND PMT2_DIAG2 <= 279)
    OR (HC_DIAG3 >= 240 AND HC_DIAG3 <= 279)
    OR (PMT_DIAG3 >= 240 AND PMT_DIAG3 <= 279)
    OR (PMT2_DIAG3 >= 240 AND PMT2_DIAG3 <= 279)
    OR (HC_DIAG4 >= 240 AND HC_DIAG4 <= 279)
    OR (PMT_DIAG4 >= 240 AND PMT_DIAG4 <= 279)
    OR (PMT2_DIAG4 >= 240 AND PMT2_DIAG4 <= 279)
    OR (HC_DIAG5 >= 240 AND HC_DIAG5 <= 279)
    OR (PMT_DIAG5 >= 240 AND PMT_DIAG5 <= 279)
    OR (PMT2_DIAG5 >= 240 AND PMT2_DIAG5 <= 279)
    OR (HC_DIAG6 >= 240 AND HC_DIAG6 <= 279)
    OR (PMT_DIAG6 >= 240 AND PMT_DIAG6 <= 279)
    OR (PMT2_DIAG6 >= 240 AND PMT2_DIAG6 <= 279)
THEN
    HC_DX_ENDOCRINE = 1
ELSE
    HC_DX_ENDOCRINE = 0
END IF

```

Blood diseases (%)

```

IF (HC_DIAG1 >= 280 AND HC_DIAG1 <= 289)
    OR (PMT_DIAG1 >= 280 AND PMT_DIAG1 <= 289)
    OR (PMT2_DIAG1 >= 280 AND PMT2_DIAG1 <= 289)
    OR (HC_DIAG2 >= 280 AND HC_DIAG2 <= 289)

```

```

OR (PMT_DIAG2 >= 280 AND PMT_DIAG2 <= 289)
OR (PMT2_DIAG2 >= 280 AND PMT2_DIAG2 <= 289)
OR (HC_DIAG3 >= 280 AND HC_DIAG3 <= 289)
OR (PMT_DIAG3 >= 280 AND PMT_DIAG3 <= 289)
OR (PMT2_DIAG3 >= 280 AND PMT2_DIAG3 <= 289)
OR (HC_DIAG4 >= 280 AND HC_DIAG4 <= 289)
OR (PMT_DIAG4 >= 280 AND PMT_DIAG4 <= 289)
OR (PMT2_DIAG4 >= 280 AND PMT2_DIAG4 <= 289)
OR (HC_DIAG5 >= 280 AND HC_DIAG5 <= 289)
OR (PMT_DIAG5 >= 280 AND PMT_DIAG5 <= 289)
OR (PMT2_DIAG5 >= 280 AND PMT2_DIAG5 <= 289)
OR (HC_DIAG6 >= 280 AND HC_DIAG6 <= 289)
OR (PMT_DIAG6 >= 280 AND PMT_DIAG6 <= 289)
OR (PMT2_DIAG6 >= 280 AND PMT2_DIAG6 <= 289)
THEN
    HC_DX_BLOOD = 1
ELSE
    HC_DX_BLOOD = 0
END IF

```

Mental diseases (%)

```

IF (HC_DIAG1 >= 290 AND HC_DIAG1 <= 319)
    OR (PMT_DIAG1 >= 290 AND PMT_DIAG1 <= 319)
    OR (PMT2_DIAG1 >= 290 AND PMT2_DIAG1 <= 319)
    OR (HC_DIAG2 >= 290 AND HC_DIAG2 <= 319)
    OR (PMT_DIAG2 >= 290 AND PMT_DIAG2 <= 319)
    OR (PMT2_DIAG2 >= 290 AND PMT2_DIAG2 <= 319)
    OR (HC_DIAG3 >= 290 AND HC_DIAG3 <= 319)
    OR (PMT_DIAG3 >= 290 AND PMT_DIAG3 <= 319)
    OR (PMT2_DIAG3 >= 290 AND PMT2_DIAG3 <= 319)
    OR (HC_DIAG4 >= 290 AND HC_DIAG4 <= 319)
    OR (PMT_DIAG4 >= 290 AND PMT_DIAG4 <= 319)
    OR (PMT2_DIAG4 >= 290 AND PMT2_DIAG4 <= 319)
    OR (HC_DIAG5 >= 290 AND HC_DIAG5 <= 319)
    OR (PMT_DIAG5 >= 290 AND PMT_DIAG5 <= 319)
    OR (PMT2_DIAG5 >= 290 AND PMT2_DIAG5 <= 319)
    OR (HC_DIAG6 >= 290 AND HC_DIAG6 <= 319)
    OR (PMT_DIAG6 >= 290 AND PMT_DIAG6 <= 319)
    OR (PMT2_DIAG6 >= 290 AND PMT2_DIAG6 <= 319)
THEN

```

```
    HC_DX_MENTAL = 1
ELSE
    HC_DX_MENTAL = 0
END IF
```

Nervous system diseases (%)

```
IF (HC_DIAG1 >= 320 AND HC_DIAG1 <= 389)
    OR (PMT_DIAG1 >= 320 AND PMT_DIAG1 <= 389)
    OR (PMT2_DIAG1 >= 320 AND PMT2_DIAG1 <= 389)
    OR (HC_DIAG2 >= 320 AND HC_DIAG2 <= 389)
    OR (PMT_DIAG2 >= 320 AND PMT_DIAG2 <= 389)
    OR (PMT2_DIAG2 >= 320 AND PMT2_DIAG2 <= 389)
    OR (HC_DIAG3 >= 320 AND HC_DIAG3 <= 389)
    OR (PMT_DIAG3 >= 320 AND PMT_DIAG3 <= 389)
    OR (PMT2_DIAG3 >= 320 AND PMT2_DIAG3 <= 389)
    OR (HC_DIAG4 >= 320 AND HC_DIAG4 <= 389)
    OR (PMT_DIAG4 >= 320 AND PMT_DIAG4 <= 389)
    OR (PMT2_DIAG4 >= 320 AND PMT2_DIAG4 <= 389)
    OR (HC_DIAG5 >= 320 AND HC_DIAG5 <= 389)
    OR (PMT_DIAG5 >= 320 AND PMT_DIAG5 <= 389)
    OR (PMT2_DIAG5 >= 320 AND PMT2_DIAG5 <= 389)
    OR (HC_DIAG6 >= 320 AND HC_DIAG6 <= 389)
    OR (PMT_DIAG6 >= 320 AND PMT_DIAG6 <= 389)
    OR (PMT2_DIAG6 >= 320 AND PMT2_DIAG6 <= 389)
THEN
    HC_DX_NERVOUS = 1
ELSE
    HC_DX_NERVOUS = 0
END IF
```

Circulatory system diseases (%)

```
IF (HC_DIAG1 >= 390 AND HC_DIAG1 <= 459)
    OR (PMT_DIAG1 >= 390 AND PMT_DIAG1 <= 459)
    OR (PMT2_DIAG1 >= 390 AND PMT2_DIAG1 <= 459)
    OR (HC_DIAG2 >= 390 AND HC_DIAG2 <= 459)
    OR (PMT_DIAG2 >= 390 AND PMT_DIAG2 <= 459)
    OR (PMT2_DIAG2 >= 390 AND PMT2_DIAG2 <= 459)
    OR (HC_DIAG3 >= 390 AND HC_DIAG3 <= 459)
    OR (PMT_DIAG3 >= 390 AND PMT_DIAG3 <= 459)
    OR (PMT2_DIAG3 >= 390 AND PMT2_DIAG3 <= 459)
```

```

OR (HC_DIAG4 >= 390 AND HC_DIAG4 <= 459)
OR (PMT_DIAG4 >= 390 AND PMT_DIAG4 <= 459)
OR (PMT2_DIAG4 >= 390 AND PMT2_DIAG4 <= 459)
OR (HC_DIAG5 >= 390 AND HC_DIAG5 <= 459)
OR (PMT_DIAG5 >= 390 AND PMT_DIAG5 <= 459)
OR (PMT2_DIAG5 >= 390 AND PMT2_DIAG5 <= 459)
OR (HC_DIAG6 >= 390 AND HC_DIAG6 <= 459)
OR (PMT_DIAG6 >= 390 AND PMT_DIAG6 <= 459)
OR (PMT2_DIAG6 >= 390 AND PMT2_DIAG6 <= 459)
THEN
    HC_DX_CIRCULATORY = 1
ELSE
    HC_DX_CIRCULATORY = 0
END IF

```

Respiratory system diseases (%)

```

IF (HC_DIAG1 >= 460 AND HC_DIAG1 <= 519)
    OR (PMT_DIAG1 >= 460 AND PMT_DIAG1 <= 519)
    OR (PMT2_DIAG1 >= 460 AND PMT2_DIAG1 <= 519)
OR (HC_DIAG2 >= 460 AND HC_DIAG2 <= 519)
    OR (PMT_DIAG2 >= 460 AND PMT_DIAG2 <= 519)
    OR (PMT2_DIAG2 >= 460 AND PMT2_DIAG2 <= 519)
OR (HC_DIAG3 >= 460 AND HC_DIAG3 <= 519)
    OR (PMT_DIAG3 >= 460 AND PMT_DIAG3 <= 519)
    OR (PMT2_DIAG3 >= 460 AND PMT2_DIAG3 <= 519)
OR (HC_DIAG4 >= 460 AND HC_DIAG4 <= 519)
    OR (PMT_DIAG4 >= 460 AND PMT_DIAG4 <= 519)
    OR (PMT2_DIAG4 >= 460 AND PMT2_DIAG4 <= 519)
OR (HC_DIAG5 >= 460 AND HC_DIAG5 <= 519)
    OR (PMT_DIAG5 >= 460 AND PMT_DIAG5 <= 519)
    OR (PMT2_DIAG5 >= 460 AND PMT2_DIAG5 <= 519)
OR (HC_DIAG6 >= 460 AND HC_DIAG6 <= 519)
    OR (PMT_DIAG6 >= 460 AND PMT_DIAG6 <= 519)
    OR (PMT2_DIAG6 >= 460 AND PMT2_DIAG6 <= 519)
THEN
    HC_DX_RESPIRATORY = 1
ELSE
    HC_DX_RESPIRATORY = 0
END IF

```

Digestive system diseases (%)

```
IF (HC_DIAG1 >= 520 AND HC_DIAG1 <= 579)
  OR (PMT_DIAG1 >= 520 AND PMT_DIAG1 <= 579)
  OR (PMT2_DIAG1 >= 520 AND PMT2_DIAG1 <= 579)
  OR (HC_DIAG2 >= 520 AND HC_DIAG2 <= 579)
  OR (PMT_DIAG2 >= 520 AND PMT_DIAG2 <= 579)
  OR (PMT2_DIAG2 >= 520 AND PMT2_DIAG2 <= 579)
  OR (HC_DIAG3 >= 520 AND HC_DIAG3 <= 579)
  OR (PMT_DIAG3 >= 520 AND PMT_DIAG3 <= 579)
  OR (PMT2_DIAG3 >= 520 AND PMT2_DIAG3 <= 579)
  OR (HC_DIAG4 >= 520 AND HC_DIAG4 <= 579)
  OR (PMT_DIAG4 >= 520 AND PMT_DIAG4 <= 579)
  OR (PMT2_DIAG4 >= 520 AND PMT2_DIAG4 <= 579)
  OR (HC_DIAG5 >= 520 AND HC_DIAG5 <= 579)
  OR (PMT_DIAG5 >= 520 AND PMT_DIAG5 <= 579)
  OR (PMT2_DIAG5 >= 520 AND PMT2_DIAG5 <= 579)
  OR (HC_DIAG6 >= 520 AND HC_DIAG6 <= 579)
  OR (PMT_DIAG6 >= 520 AND PMT_DIAG6 <= 579)
  OR (PMT2_DIAG6 >= 520 AND PMT2_DIAG6 <= 579)
THEN
  HC_DX_DIGESTIVE = 1
ELSE
  HC_DX_DIGESTIVE = 0
END IF
```

Genitourinary sys. diseases (%)

```
IF (HC_DIAG1 >= 580 AND HC_DIAG1 <= 629)
  OR (PMT_DIAG1 >= 580 AND PMT_DIAG1 <= 629)
  OR (PMT2_DIAG1 >= 580 AND PMT2_DIAG1 <= 629)
  OR (HC_DIAG2 >= 580 AND HC_DIAG2 <= 629)
  OR (PMT_DIAG2 >= 580 AND PMT_DIAG2 <= 629)
  OR (PMT2_DIAG2 >= 580 AND PMT2_DIAG2 <= 629)
  OR (HC_DIAG3 >= 580 AND HC_DIAG3 <= 629)
  OR (PMT_DIAG3 >= 580 AND PMT_DIAG3 <= 629)
  OR (PMT2_DIAG3 >= 580 AND PMT2_DIAG3 <= 629)
  OR (HC_DIAG4 >= 580 AND HC_DIAG4 <= 629)
  OR (PMT_DIAG4 >= 580 AND PMT_DIAG4 <= 629)
  OR (PMT2_DIAG4 >= 580 AND PMT2_DIAG4 <= 629)
  OR (HC_DIAG5 >= 580 AND HC_DIAG5 <= 629)
  OR (PMT_DIAG5 >= 580 AND PMT_DIAG5 <= 629)
```

```

    OR (PMT2_DIAG5 >= 580 AND PMT2_DIAG5 <= 629)
    OR (HC_DIAG6 >= 580 AND HC_DIAG6 <= 629)
    OR (PMT_DIAG6 >= 580 AND PMT_DIAG6 <= 629)
    OR (PMT2_DIAG6 >= 580 AND PMT2_DIAG6 <= 629)
THEN
    HC_DX_GEN_URINARY = 1
ELSE
    HC_DX_GEN_URINARY = 0
END IF

```

Pregnancy problems (%)

```

IF (HC_DIAG1 >= 630 AND HC_DIAG1 <= 676)
    OR (PMT_DIAG1 >= 630 AND PMT_DIAG1 <= 676)
    OR (PMT2_DIAG1 >= 630 AND PMT2_DIAG1 <= 676)
    OR (HC_DIAG2 >= 630 AND HC_DIAG2 <= 676)
    OR (PMT_DIAG2 >= 630 AND PMT_DIAG2 <= 676)
    OR (PMT2_DIAG2 >= 630 AND PMT2_DIAG2 <= 676)
    OR (HC_DIAG3 >= 630 AND HC_DIAG3 <= 676)
    OR (PMT_DIAG3 >= 630 AND PMT_DIAG3 <= 676)
    OR (PMT2_DIAG3 >= 630 AND PMT2_DIAG3 <= 676)
    OR (HC_DIAG4 >= 630 AND HC_DIAG4 <= 676)
    OR (PMT_DIAG4 >= 630 AND PMT_DIAG4 <= 676)
    OR (PMT2_DIAG4 >= 630 AND PMT2_DIAG4 <= 676)
    OR (HC_DIAG5 >= 630 AND HC_DIAG5 <= 676)
    OR (PMT_DIAG5 >= 630 AND PMT_DIAG5 <= 676)
    OR (PMT2_DIAG5 >= 630 AND PMT2_DIAG5 <= 676)
    OR (HC_DIAG6 >= 630 AND HC_DIAG6 <= 676)
    OR (PMT_DIAG6 >= 630 AND PMT_DIAG6 <= 676)
    OR (PMT2_DIAG6 >= 630 AND PMT2_DIAG6 <= 676)
THEN
    HC_DX_PREGNANCY = 1
ELSE
    HC_DX_PREGNANCY = 0
END IF

```

Skin/subcutaneous diseases (%)

```

IF (HC_DIAG1 >= 680 AND HC_DIAG1 <= 709)
    OR (PMT_DIAG1 >= 680 AND PMT_DIAG1 <= 709)
    OR (PMT2_DIAG1 >= 680 AND PMT2_DIAG1 <= 709)
    OR (HC_DIAG2 >= 680 AND HC_DIAG2 <= 709)

```

```

OR (PMT_DIAG2 >= 680 AND PMT_DIAG2 <= 709)
OR (PMT2_DIAG2 >= 680 AND PMT2_DIAG2 <= 709)
OR (HC_DIAG3 >= 680 AND HC_DIAG3 <= 709)
OR (PMT_DIAG3 >= 680 AND PMT_DIAG3 <= 709)
OR (PMT2_DIAG3 >= 680 AND PMT2_DIAG3 <= 709)
OR (HC_DIAG4 >= 680 AND HC_DIAG4 <= 709)
OR (PMT_DIAG4 >= 680 AND PMT_DIAG4 <= 709)
OR (PMT2_DIAG4 >= 680 AND PMT2_DIAG4 <= 709)
OR (HC_DIAG5 >= 680 AND HC_DIAG5 <= 709)
OR (PMT_DIAG5 >= 680 AND PMT_DIAG5 <= 709)
OR (PMT2_DIAG5 >= 680 AND PMT2_DIAG5 <= 709)
OR (HC_DIAG6 >= 680 AND HC_DIAG6 <= 709)
OR (PMT_DIAG6 >= 680 AND PMT_DIAG6 <= 709)
OR (PMT2_DIAG6 >= 680 AND PMT2_DIAG6 <= 709)
THEN
    HC_DX_SKIN = 1
ELSE
    HC_DX_SKIN = 0
END IF

```

Musculoskeletal sys. diseases (%)

```

IF (HC_DIAG1 >= 710 AND HC_DIAG1 <= 739)
    OR (PMT_DIAG1 >= 710 AND PMT_DIAG1 <= 739)
    OR (PMT2_DIAG1 >= 710 AND PMT2_DIAG1 <= 739)
    OR (HC_DIAG2 >= 710 AND HC_DIAG2 <= 739)
    OR (PMT_DIAG2 >= 710 AND PMT_DIAG2 <= 739)
    OR (PMT2_DIAG2 >= 710 AND PMT2_DIAG2 <= 739)
    OR (HC_DIAG3 >= 710 AND HC_DIAG3 <= 739)
    OR (PMT_DIAG3 >= 710 AND PMT_DIAG3 <= 739)
    OR (PMT2_DIAG3 >= 710 AND PMT2_DIAG3 <= 739)
    OR (HC_DIAG4 >= 710 AND HC_DIAG4 <= 739)
    OR (PMT_DIAG4 >= 710 AND PMT_DIAG4 <= 739)
    OR (PMT2_DIAG4 >= 710 AND PMT2_DIAG4 <= 739)
    OR (HC_DIAG5 >= 710 AND HC_DIAG5 <= 739)
    OR (PMT_DIAG5 >= 710 AND PMT_DIAG5 <= 739)
    OR (PMT2_DIAG5 >= 710 AND PMT2_DIAG5 <= 739)
    OR (HC_DIAG6 >= 710 AND HC_DIAG6 <= 739)
    OR (PMT_DIAG6 >= 710 AND PMT_DIAG6 <= 739)
    OR (PMT2_DIAG6 >= 710 AND PMT2_DIAG6 <= 739)
THEN

```



```
    HC_DX_MUSCL_SKEL = 1
ELSE
    HC_DX_MUSCL_SKEL = 0
END IF
```

Congenital anomalies (%)

```
IF (HC_DIAG1 >= 740 AND HC_DIAG1 <= 759)
    OR (PMT_DIAG1 >= 740 AND PMT_DIAG1 <= 759)
    OR (PMT2_DIAG1 >= 740 AND PMT2_DIAG1 <= 759)
    OR (HC_DIAG2 >= 740 AND HC_DIAG2 <= 759)
    OR (PMT_DIAG2 >= 740 AND PMT_DIAG2 <= 759)
    OR (PMT2_DIAG2 >= 740 AND PMT2_DIAG2 <= 759)
    OR (HC_DIAG3 >= 740 AND HC_DIAG3 <= 759)
    OR (PMT_DIAG3 >= 740 AND PMT_DIAG3 <= 759)
    OR (PMT2_DIAG3 >= 740 AND PMT2_DIAG3 <= 759)
    OR (HC_DIAG4 >= 740 AND HC_DIAG4 <= 759)
    OR (PMT_DIAG4 >= 740 AND PMT_DIAG4 <= 759)
    OR (PMT2_DIAG4 >= 740 AND PMT2_DIAG4 <= 759)
    OR (HC_DIAG5 >= 740 AND HC_DIAG5 <= 759)
    OR (PMT_DIAG5 >= 740 AND PMT_DIAG5 <= 759)
    OR (PMT2_DIAG5 >= 740 AND PMT2_DIAG5 <= 759)
    OR (HC_DIAG6 >= 740 AND HC_DIAG6 <= 759)
    OR (PMT_DIAG6 >= 740 AND PMT_DIAG6 <= 759)
    OR (PMT2_DIAG6 >= 740 AND PMT2_DIAG6 <= 759)
THEN
    HC_DX_CONGENITAL = 1
ELSE
    HC_DX_CONGENITAL = 0
END IF
```

Ill-defined conditions (%)

```
IF (HC_DIAG1 >= 780 AND HC_DIAG1 <= 799)
    OR (PMT_DIAG1 >= 780 AND PMT_DIAG1 <= 799)
    OR (PMT2_DIAG1 >= 780 AND PMT2_DIAG1 <= 799)
    OR (HC_DIAG2 >= 780 AND HC_DIAG2 <= 799)
    OR (PMT_DIAG2 >= 780 AND PMT_DIAG2 <= 799)
    OR (PMT2_DIAG2 >= 780 AND PMT2_DIAG2 <= 799)
    OR (HC_DIAG3 >= 780 AND HC_DIAG3 <= 799)
    OR (PMT_DIAG3 >= 780 AND PMT_DIAG3 <= 799)
    OR (PMT2_DIAG3 >= 780 AND PMT2_DIAG3 <= 799)
```

```

OR (HC_DIAG4 >= 780 AND HC_DIAG4 <= 799)
OR (PMT_DIAG4 >= 780 AND PMT_DIAG4 <= 799)
OR (PMT2_DIAG4 >= 780 AND PMT2_DIAG4 <= 799)
OR (HC_DIAG5 >= 780 AND HC_DIAG5 <= 799)
OR (PMT_DIAG5 >= 780 AND PMT_DIAG5 <= 799)
OR (PMT2_DIAG5 >= 780 AND PMT2_DIAG5 <= 799)
OR (HC_DIAG6 >= 780 AND HC_DIAG6 <= 799)
OR (PMT_DIAG6 >= 780 AND PMT_DIAG6 <= 799)
OR (PMT2_DIAG6 >= 780 AND PMT2_DIAG6 <= 799)
THEN
    HC_DX_ILL_DEFINED = 1
ELSE
    HC_DX_ILL_DEFINED = 0
END IF

```

Fractures (%)

```

IF (HC_DIAG1 >= 800 AND HC_DIAG1 <= 848)
    OR (PMT_DIAG1 >= 800 AND PMT_DIAG1 <= 848)
    OR (PMT2_DIAG1 >= 800 AND PMT2_DIAG1 <= 848)
OR (HC_DIAG2 >= 800 AND HC_DIAG2 <= 848)
    OR (PMT_DIAG2 >= 800 AND PMT_DIAG2 <= 848)
    OR (PMT2_DIAG2 >= 800 AND PMT2_DIAG2 <= 848)
OR (HC_DIAG3 >= 800 AND HC_DIAG3 <= 848)
    OR (PMT_DIAG3 >= 800 AND PMT_DIAG3 <= 848)
    OR (PMT2_DIAG3 >= 800 AND PMT2_DIAG3 <= 848)
OR (HC_DIAG4 >= 800 AND HC_DIAG4 <= 848)
    OR (PMT_DIAG4 >= 800 AND PMT_DIAG4 <= 848)
    OR (PMT2_DIAG4 >= 800 AND PMT2_DIAG4 <= 848)
OR (HC_DIAG5 >= 800 AND HC_DIAG5 <= 848)
    OR (PMT_DIAG5 >= 800 AND PMT_DIAG5 <= 848)
    OR (PMT2_DIAG5 >= 800 AND PMT2_DIAG5 <= 848)
OR (HC_DIAG6 >= 800 AND HC_DIAG6 <= 848)
    OR (PMT_DIAG6 >= 800 AND PMT_DIAG6 <= 848)
    OR (PMT2_DIAG6 >= 800 AND PMT2_DIAG6 <= 848)
THEN
    HC_DX_FRACTURE = 1
ELSE
    HC_DX_FRACTURE = 0
END IF

```

Intracranial injury (%)

```
IF (HC_DIAG1 >= 850 AND HC_DIAG1 <= 854)
    OR (PMT_DIAG1 >= 850 AND PMT_DIAG1 <= 854)
    OR (PMT2_DIAG1 >= 850 AND PMT2_DIAG1 <= 854)
    OR (HC_DIAG2 >= 850 AND HC_DIAG2 <= 854)
    OR (PMT_DIAG2 >= 850 AND PMT_DIAG2 <= 854)
    OR (PMT2_DIAG2 >= 850 AND PMT2_DIAG2 <= 854)
    OR (HC_DIAG3 >= 850 AND HC_DIAG3 <= 854)
    OR (PMT_DIAG3 >= 850 AND PMT_DIAG3 <= 854)
    OR (PMT2_DIAG3 >= 850 AND PMT2_DIAG3 <= 854)
    OR (HC_DIAG4 >= 850 AND HC_DIAG4 <= 854)
    OR (PMT_DIAG4 >= 850 AND PMT_DIAG4 <= 854)
    OR (PMT2_DIAG4 >= 850 AND PMT2_DIAG4 <= 854)
    OR (HC_DIAG5 >= 850 AND HC_DIAG5 <= 854)
    OR (PMT_DIAG5 >= 850 AND PMT_DIAG5 <= 854)
    OR (PMT2_DIAG5 >= 850 AND PMT2_DIAG5 <= 854)
    OR (HC_DIAG6 >= 850 AND HC_DIAG6 <= 854)
    OR (PMT_DIAG6 >= 850 AND PMT_DIAG6 <= 854)
    OR (PMT2_DIAG6 >= 850 AND PMT2_DIAG6 <= 854)
THEN
    HC_DX_CRANIAL = 1
ELSE
    HC_DX_CRANIAL = 0
END IF
```

Other injury (%)

```
IF (HC_DIAG1 >= 860 AND HC_DIAG1 <= 959)
    OR (PMT_DIAG1 >= 860 AND PMT_DIAG1 <= 959)
    OR (PMT2_DIAG1 >= 860 AND PMT2_DIAG1 <= 959)
    OR (HC_DIAG2 >= 860 AND HC_DIAG2 <= 959)
    OR (PMT_DIAG2 >= 860 AND PMT_DIAG2 <= 959)
    OR (PMT2_DIAG2 >= 860 AND PMT2_DIAG2 <= 959)
    OR (HC_DIAG3 >= 860 AND HC_DIAG3 <= 959)
    OR (PMT_DIAG3 >= 860 AND PMT_DIAG3 <= 959)
    OR (PMT2_DIAG3 >= 860 AND PMT2_DIAG3 <= 959)
    OR (HC_DIAG4 >= 860 AND HC_DIAG4 <= 959)
    OR (PMT_DIAG4 >= 860 AND PMT_DIAG4 <= 959)
    OR (PMT2_DIAG4 >= 860 AND PMT2_DIAG4 <= 959)
    OR (HC_DIAG5 >= 860 AND HC_DIAG5 <= 959)
    OR (PMT_DIAG5 >= 860 AND PMT_DIAG5 <= 959)
```

```

    OR (PMT2_DIAG5 >= 860 AND PMT2_DIAG5 <= 959)
    OR (HC_DIAG6 >= 860 AND HC_DIAG6 <= 959)
    OR (PMT_DIAG6 >= 860 AND PMT_DIAG6 <= 959)
    OR (PMT2_DIAG6 >= 860 AND PMT2_DIAG6 <= 959)
THEN
    HC_DX_INJURY_OTH = 1
ELSE
    HC_DX_INJURY_OTH = 0
END IF

```

Iatrogenic conditions (%)

```

IF (HC_DIAG1 >= 960 AND HC_DIAG1 <= 999)
    OR (PMT_DIAG1 >= 960 AND PMT_DIAG1 <= 999)
    OR (PMT2_DIAG1 >= 960 AND PMT2_DIAG1 <= 999)
    OR (HC_DIAG2 >= 960 AND HC_DIAG2 <= 999)
    OR (PMT_DIAG2 >= 960 AND PMT_DIAG2 <= 999)
    OR (PMT2_DIAG2 >= 960 AND PMT2_DIAG2 <= 999)
    OR (HC_DIAG3 >= 960 AND HC_DIAG3 <= 999)
    OR (PMT_DIAG3 >= 960 AND PMT_DIAG3 <= 999)
    OR (PMT2_DIAG3 >= 960 AND PMT2_DIAG3 <= 999)
    OR (HC_DIAG4 >= 960 AND HC_DIAG4 <= 999)
    OR (PMT_DIAG4 >= 960 AND PMT_DIAG4 <= 999)
    OR (PMT2_DIAG4 >= 960 AND PMT2_DIAG4 <= 999)
    OR (HC_DIAG5 >= 960 AND HC_DIAG5 <= 999)
    OR (PMT_DIAG5 >= 960 AND PMT_DIAG5 <= 999)
    OR (PMT2_DIAG5 >= 960 AND PMT2_DIAG5 <= 999)
    OR (HC_DIAG6 >= 960 AND HC_DIAG6 <= 999)
    OR (PMT_DIAG6 >= 960 AND PMT_DIAG6 <= 999)
    OR (PMT2_DIAG6 >= 960 AND PMT2_DIAG6 <= 999)
THEN
    HC_DX_IATROGENIC = 1
ELSE
    HC_DX_IATROGENIC = 0
END IF

```

PATIENT DISCHARGE INFORMATION

Length of Stay

LOS until discharge (in days)

```
IF M0100_ASSMT_REASON[1] = 01
THEN
    HC_LOS = (M0906_DC_TRAN_DTH_DT[2] - M0030_START_CARE_DT) +1
ELSE IF M0100_ASSMT_REASON[1] = 03
THEN
    HC_LOS = (M0906_DC_TRAN_DTH_DT[2] - M0032_ROC_DT) +1
END IF
```

LOS from 1 to 30 days (%)

```
IF HC_LOS <= 30
THEN
    HC_LOS_1_30 = 1
ELSE
    HC_LOS_1_30 = 0
END IF
```

LOS from 31 to 60 days (%)

```
IF HC_LOS > 30 AND HC_LOS <= 60
THEN
    HC_LOS_31_60 = 1
ELSE
    HC_LOS_31_60 = 0
END IF
```

LOS from 61 to 120 days (%)

```
IF HC_LOS > 60 AND HC_LOS <= 120
THEN
    HC_LOS_61_120 = 1
ELSE
    HC_LOS_61_120 = 0
END IF
```

LOS from 121 to 180 days (%)

```
IF HC_LOS > 120 AND HC_LOS <= 180
THEN
    HC_LOS_121_180 = 1
```

ELSE
 HC_LOS_121_180 = 0
END IF

LOS more than 180 days (%)

IF HC_LOS > 180
THEN
 HC_LOS_GT_180 = 1
ELSE
 HC_LOS_GT_180 = 0
END IF

Reason for Emergent Care

Improper medications (%)

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
 EC_REASON_MEDS = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 **OR**
 M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)
THEN
 IF M2310_ECR_UNKNOWN[2] = 1
 THEN
 EC_REASON_MEDS = MISSING
 ELSEIF M2310_ECR_MEDICATION[2] = 1
 THEN
 EC_REASON_MEDS = 1
 ELSE
 EC_REASON_MEDS = 0
 END IF
ELSE
 EC_REASON_MEDS = MISSING
END IF

Injury from fall (%)

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
 EC_REASON_FALL = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 **OR**
 M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)

```

THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_FALL = MISSING
  ELSEIF M2310_ECR_INJRY_BY_FALL[2] = 1
  THEN
    EC_REASON_FALL = 1
  ELSE
    EC_REASON_FALL = 0
  END IF
ELSE
  EC_REASON_FALL = MISSING
END IF

```

Respiratory infection (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_RESP_INF = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
  M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)
THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_RESP_INF = MISSING
  ELSEIF M2310_ECR_RSPRTRY_INFCTN[2] = 1
  THEN
    EC_REASON_RESP_INF = 1
  ELSE
    EC_REASON_RESP_INF = 0
  END IF
ELSE
  EC_REASON_RESP_INF = MISSING
END IF

```

Other respiratory (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_RESP_OTHER = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
  M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)

```

```

THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_RESP_OTHER = MISSING
  ELSEIF M2310_ECR_RSPRTRY_OTHR[2] = 1
  THEN
    EC_REASON_RESP_OTHER = 1
  ELSE
    EC_REASON_RESP_OTHER = 0
  END IF
ELSE
  EC_REASON_RESP_OTHER = MISSING
END IF

```

Heart failure (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_HEART_FAIL = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
  M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)
THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_HEART_FAIL = MISSING
  ELSEIF M2310_ECR_HRT_FAILR[2] = 1
  THEN
    EC_REASON_HEART_FAIL = 1
  ELSE
    EC_REASON_HEART_FAIL = 0
  END IF
ELSE
  EC_REASON_HEART_FAIL = MISSING
END IF

```

Cardiac dysrhythmia (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_DYSRHYTHMIA = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
  M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)

```



```

THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_DYSRYTHMIA = MISSING
  ELSEIF M2310_ECR_CRDC_DSRTHM[2] = 1
  THEN
    EC_REASON_DYSRYTHMIA = 1
  ELSE
    EC_REASON_DYSRYTHMIA = 0
  END IF
ELSE
  EC_REASON_DYSRYTHMIA = MISSING
END IF

```

Myocardial infarction (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_AMI = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
  M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)
THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_AMI = MISSING
  ELSEIF M2310_ECR_MI_CHST_PAIN[2] = 1
  THEN
    EC_REASON_AMI = 1
  ELSE
    EC_REASON_AMI = 0
  END IF
ELSE
  EC_REASON_AMI = MISSING
END IF

```

Other heart disease (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_HEART_OTHER = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
  M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)

```

```

THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_HEART_OTHER = MISSING
  ELSEIF M2310_ECR_OTHR_HRT_DEASE[2] = 1
  THEN
    EC_REASON_HEART_OTHER = 1
  ELSE
    EC_REASON_HEART_OTHER = 0
  END IF
ELSE
  EC_REASON_HEART_OTHER = MISSING
END IF

```

Stroke (CVA) or TIA (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_STROKE_TIA = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
  M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)
THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_STROKE_TIA = MISSING
  ELSEIF M2310_ECR_STROKE_TIA[2] = 1
  THEN
    EC_REASON_STROKE_TIA = 1
  ELSE
    EC_REASON_STROKE_TIA = 0
  END IF
ELSE
  EC_REASON_STROKE_TIA = MISSING
END IF

```

Hypo/Hyperglycemia (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_HI_LO_BG = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
  M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)

```

```

THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_HI_LO_BG = MISSING
  ELSEIF M2310_ECR_HYPOGLYC[2] = 1
  THEN
    EC_REASON_HI_LO_BG = 1
  ELSE
    EC_REASON_HI_LO_BG = 0
  END IF
ELSE
  EC_REASON_HI_LO_BG = MISSING
END IF

```

GI bleeding, obstruction, etc. (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_GI = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
  M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)
THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_GI = MISSING
  ELSEIF M2310_ECR_GI_PRBLM[2] = 1
  THEN
    EC_REASON_GI = 1
  ELSE
    EC_REASON_GI = 0
  END IF
ELSE
  EC_REASON_GI = MISSING
END IF

```

Dehydration, malnutrition (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_NUTRITION = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
  M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)

```

```

THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_NUTRITION = MISSING
  ELSEIF M2310_ECR_DHYDRTN_MALNTR[2] = 1
  THEN
    EC_REASON_NUTRITION = 1
  ELSE
    EC_REASON_NUTRITION = 0
  END IF
ELSE
  EC_REASON_NUTRITION = MISSING
END IF

```

Urinary tract infection (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_UTI = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
  M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)
THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_UTI = MISSING
  ELSEIF M2310_ECR_UTI[2] = 1
  THEN
    EC_REASON_UTI = 1
  ELSE
    EC_REASON_UTI = 0
  END IF
ELSE
  EC_REASON_UTI = MISSING
END IF

```

IV catheter-related infection (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_IV_INFECT = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
  M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)

```

```

THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_IV_INFECT = MISSING
  ELSEIF M2310_ECR_CTHTR_CMPLCTN[2] = 1
  THEN
    EC_REASON_IV_INFECT = 1
  ELSE
    EC_REASON_IV_INFECT = 0
  END IF
ELSE
  EC_REASON_IV_INFECT = MISSING
END IF

```

Wound infection (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_WOUND_INFCT = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
  M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)
THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_WOUND_INFCT = MISSING
  ELSEIF M2310_ECR_WND_INFCTN_DTRORTN[2] = 1
  THEN
    EC_REASON_WOUND_INFCT = 1
  ELSE
    EC_REASON_WOUND_INFCT = 0
  END IF
ELSE
  EC_REASON_WOUND_INFCT = MISSING
END IF

```

Uncontrolled pain (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_PAIN = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
  M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)

```

```

THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_PAIN = MISSING
  ELSEIF M2310_ECR_UNCNTLD_PAIN[2] = 1
  THEN
    EC_REASON_PAIN = 1
  ELSE
    EC_REASON_PAIN = 0
  END IF
ELSE
  EC_REASON_PAIN = MISSING
END IF

```

Acute mental/behav. problem (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_MENTAL_BEHAV = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)
THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_MENTAL_BEHAV = MISSING
  ELSEIF M2310_ECR_MENTL_BHVRL_PRBLM[2] = 1
  THEN
    EC_REASON_MENTAL_BEHAV = 1
  ELSE
    EC_REASON_MENTAL_BEHAV = 0
  END IF
ELSE
  EC_REASON_MENTAL_BEHAV = MISSING
END IF

```

Deep vein thrombosis (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_THROMBOSIS = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)

```

```

THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_THROMBOSIS = MISSING
  ELSEIF M2310_ECR_DVT_PULMNR[2] = 1
  THEN
    EC_REASON_THROMBOSIS = 1
  ELSE
    EC_REASON_THROMBOSIS = 0
  END IF
ELSE
  EC_REASON_THROMBOSIS = MISSING
END IF

```

Other (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK
THEN
  EC_REASON_OTHER = MISSING
ELSEIF (M2300_EMER_USE_AFTR_LAST_ASMT[2] = 01 OR
  M2300_EMER_USE_AFTR_LAST_ASMT[2] = 02)
THEN
  IF M2310_ECR_UNKNOWN[2] = 1
  THEN
    EC_REASON_OTHER = MISSING
  ELSEIF M2310_ECR_OTHER[2] = 1
  THEN
    EC_REASON_OTHER = 1
  ELSE
    EC_REASON_OTHER = 0
  END IF
ELSE
  EC_REASON_OTHER = MISSING
END IF

```

No emergent care (%)

```

IF M2300_EMER_USE_AFTR_LAST_ASMT[2] = UK OR M0100_ASSMT_REASON[2] =
  08
THEN
  NO_EMERGENT_CARE = MISSING
ELSEIF M2300_EMER_USE_AFTR_LAST_ASMT[2] = 00

```

```
THEN
    NO_EMERGENT_CARE = 1
ELSE
    NO_EMERGENT_CARE = 0
END IF
```

Hospitalization Reason

Improper medications (%)

```
IF M2410_INPAT_FACILITY[2] = 01
THEN
    IF M2430_HOSP_UK[2] = 1
    THEN
        HOSP_REASON_MEDS = MISSING
    ELSEIF M2430_HOSP_MED[2] = 1
    THEN
        HOSP_REASON_MEDS = 1
    ELSE
        HOSP_REASON_MEDS = 0
    END IF
ELSE
    HOSP_REASON_MEDS = MISSING
END IF
```

Injury from fall (%)

```
IF M2410_INPAT_FACILITY[2] = 01
THEN
    IF M2430_HOSP_UK[2] = 1
    THEN
        HOSP_REASON_FALL = MISSING
    ELSEIF M2430_HOSP_INJRY_BY_FALL[2] = 1
    THEN
        HOSP_REASON_FALL = 1
    ELSE
        HOSP_REASON_FALL = 0
    END IF
ELSE
    HOSP_REASON_FALL = MISSING
END IF
```


Respiratory infection (%)

```
IF M2410_INPAT_FACILITY[2] = 01
THEN
  IF M2430_HOSP_UK[2] = 1
  THEN
    HOSP_REASON_RESP_INF = MISSING
  ELSEIF M2430_HOSP_RSPRTRY_INFCTN[2] = 1
  THEN
    HOSP_REASON_RESP_INF = 1
  ELSE
    HOSP_REASON_RESP_INF = 0
  END IF
ELSE
  HOSP_REASON_RESP_INF = MISSING
END IF
```

Other respiratory (%)

```
IF M2410_INPAT_FACILITY[2] = 01
THEN
  IF M2430_HOSP_UK[2] = 1
  THEN
    HOSP_REASON_RESP_OTHER = MISSING
  ELSEIF M2430_HOSP_RSPRTRY_OTHR[2] = 1
  THEN
    HOSP_REASON_RESP_OTHER = 1
  ELSE
    HOSP_REASON_RESP_OTHER = 0
  END IF
ELSE
  HOSP_REASON_RESP_OTHER = MISSING
END IF
```

Heart failure (%)

```
IF M2410_INPAT_FACILITY[2] = 01
THEN
  IF M2430_HOSP_UK[2] = 1
  THEN
    HOSP_REASON_HEART_FAIL = MISSING
  ELSEIF M2430_HOSP_HRT_FAILR[2] = 1
  THEN
```

```

        HOSP_REASON_HEART_FAIL = 1
    ELSE
        HOSP_REASON_HEART_FAIL = 0
    END IF
ELSE
    HOSP_REASON_HEART_FAIL = MISSING
END IF

```

Cardiac dysrhythmia (%)

```

IF M2410_INPAT_FACILITY[2] = 01
THEN
    IF M2430_HOSP_UK[2] = 1
    THEN
        HOSP_REASON_DYSRHYTHMIA = MISSING
    ELSEIF M2430_HOSP_CRDC_DSRTHM[2] = 1
    THEN
        HOSP_REASON_DYSRHYTHMIA = 1
    ELSE
        HOSP_REASON_DYSRHYTHMIA = 0
    END IF
ELSE
    HOSP_REASON_DYSRHYTHMIA = MISSING
END IF

```

Myocardial infarction (%)

```

IF M2410_INPAT_FACILITY[2] = 01
THEN
    IF M2430_HOSP_UK[2] = 1
    THEN
        HOSP_REASON_AMI = MISSING
    ELSEIF M2430_HOSP_MI_CHST_PAIN[2] = 1
    THEN
        HOSP_REASON_AMI = 1
    ELSE
        HOSP_REASON_AMI = 0
    END IF
ELSE
    HOSP_REASON_AMI = MISSING
END IF

```

Other heart disease (%)

```
IF M2410_INPAT_FACILITY[2] = 01
THEN
  IF M2430_HOSP_UK[2] = 1
  THEN
    HOSP_REASON_HEART_OTHER = MISSING
  ELSEIF M2430_HOSP_OTHR_HRT_DEASE[2] = 1
  THEN
    HOSP_REASON_HEART_OTHER = 1
  ELSE
    HOSP_REASON_HEART_OTHER = 0
  END IF
ELSE
  HOSP_REASON_HEART_OTHER = MISSING
END IF
```

Stroke (CVA) or TIA (%)

```
IF M2410_INPAT_FACILITY[2] = 01
THEN
  IF M2430_HOSP_UK[2] = 1
  THEN
    HOSP_REASON_STROKE_TIA = MISSING
  ELSEIF M2430_HOSP_STROKE_TIA[2] = 1
  THEN
    HOSP_REASON_STROKE_TIA = 1
  ELSE
    HOSP_REASON_STROKE_TIA = 0
  END IF
ELSE
  HOSP_REASON_STROKE_TIA = MISSING
END IF
```

Hypo/Hyperglycemia (%)

```
IF M2410_INPAT_FACILITY[2] = 01
THEN
  IF M2430_HOSP_UK[2] = 1
  THEN
    HOSP_REASON_HI_LO_BG = MISSING
  ELSEIF M2430_HOSP_HYPOGLYC[2] = 1
  THEN
```

```

        HOSP_REASON_HI_LO_BG = 1
    ELSE
        HOSP_REASON_HI_LO_BG = 0
    END IF
ELSE
    HOSP_REASON_HI_LO_BG = MISSING
END IF

```

GI bleeding, obstruction, etc. (%)

```

IF M2410_INPAT_FACILITY[2] = 01
THEN
    IF M2430_HOSP_UK[2] = 1
    THEN
        HOSP_REASON_GI = MISSING
    ELSEIF M2430_HOSP_GI_PRBLM[2] = 1
    THEN
        HOSP_REASON_GI = 1
    ELSE
        HOSP_REASON_GI = 0
    END IF
ELSE
    HOSP_REASON_GI = MISSING
END IF

```

Dehydration, malnutrition (%)

```

IF M2410_INPAT_FACILITY[2] = 01
THEN
    IF M2430_HOSP_UK[2] = 1
    THEN
        HOSP_REASON_NUTRITION = MISSING
    ELSEIF M2430_HOSP_DHYDRTN_MALNTR[2] = 1
    THEN
        HOSP_REASON_NUTRITION = 1
    ELSE
        HOSP_REASON_NUTRITION = 0
    END IF
ELSE
    HOSP_REASON_NUTRITION = MISSING
END IF

```

Urinary tract infection (%)

```
IF M2410_INPAT_FACILITY[2] = 01
THEN
  IF M2430_HOSP_UK[2] = 1
  THEN
    HOSP_REASON_UTI = MISSING
  ELSEIF M2430_HOSP_UR_TRACT[2] = 1
  THEN
    HOSP_REASON_UTI = 1
  ELSE
    HOSP_REASON_UTI = 0
  END IF
ELSE
  HOSP_REASON_UTI = MISSING
END IF
```

IV catheter-related infection (%)

```
IF M2410_INPAT_FACILITY[2] = 01
THEN
  IF M2430_HOSP_UK[2] = 1
  THEN
    HOSP_REASON_IV_INFECT = MISSING
  ELSEIF M2430_HOSP_CTHTR_CMPLCTN[2] = 1
  THEN
    HOSP_REASON_IV_INFECT = 1
  ELSE
    HOSP_REASON_IV_INFECT = 0
  END IF
ELSE
  HOSP_REASON_IV_INFECT = MISSING
END IF
```

Wound infection (%)

```
IF M2410_INPAT_FACILITY[2] = 01
THEN
  IF M2430_HOSP_UK[2] = 1
  THEN
    HOSP_REASON_WOUND_INFCT = MISSING
  ELSEIF M2430_HOSP_WND_INFCTN[2] = 1
  THEN
```

```

        HOSP_REASON_WOUND_INFCT = 1
    ELSE
        HOSP_REASON_WOUND_INFCT = 0
    END IF
ELSE
    HOSP_REASON_WOUND_INFCT = MISSING
END IF

```

Uncontrolled pain (%)

```

IF M2410_INPAT_FACILITY[2] = 01
THEN
    IF M2430_HOSP_UK[2] = 1
    THEN
        HOSP_REASON_PAIN = MISSING
    ELSEIF M2430_HOSP_PAIN[2] = 1
    THEN
        HOSP_REASON_PAIN = 1
    ELSE
        HOSP_REASON_PAIN = 0
    END IF
ELSE
    HOSP_REASON_PAIN = MISSING
END IF

```

Acute mental/behav. problem (%)

```

IF M2410_INPAT_FACILITY[2] = 01
THEN
    IF M2430_HOSP_UK[2] = 1
    THEN
        HOSP_REASON_MENTAL_BEHAV = MISSING
    ELSEIF M2430_HOSP_MENTL_BHVRL_PRBLM[2] = 1
    THEN
        HOSP_REASON_MENTAL_BEHAV = 1
    ELSE
        HOSP_REASON_MENTAL_BEHAV = 0
    END IF
ELSE
    HOSP_REASON_MENTAL_BEHAV = MISSING
END IF

```

Deep vein thrombosis (%)

```
IF M2410_INPAT_FACILITY[2] = 01
THEN
  IF M2430_HOSP_UK[2] = 1
  THEN
    HOSP_REASON_THROMBOSIS = MISSING
  ELSEIF M2430_HOSP_DVT_PULMNR[2] = 1
  THEN
    HOSP_REASON_THROMBOSIS = 1
  ELSE
    HOSP_REASON_THROMBOSIS = 0
  END IF
ELSE
  HOSP_REASON_THROMBOSIS = MISSING
END IF
```

Scheduled visit (%)

```
IF M2410_INPAT_FACILITY[2] = 01
THEN
  IF M2430_HOSP_UK[2] = 1
  THEN
    HOSP_REASON_SCHED_VISIT = MISSING
  ELSEIF M2430_HOSP_SCHLD_TRTMT[2] = 1
  THEN
    HOSP_REASON_SCHED_VISIT = 1
  ELSE
    HOSP_REASON_SCHED_VISIT = 0
  END IF
ELSE
  HOSP_REASON_SCHED_VISIT = MISSING
END IF
```

Other (%)

```
IF M2410_INPAT_FACILITY[2] = 01
THEN
  IF M2430_HOSP_UK[2] = 1
  THEN
    HOSP_REASON_OTHER = MISSING
  ELSEIF M2430_HOSP_OTHER[2] = 1
  THEN
```

```
        HOSP_REASON_OTHER = 1
    ELSE
        HOSP_REASON_OTHER = 0
    END IF
ELSE
    HOSP_REASON_OTHER = MISSING
END IF
```

No hospitalization (%)

```
IF M0100_ASSMNT_REASON[2] = 08
THEN
    NO_HOSPITALIZATION = MISSING
ELSEIF M2410_INPAT_FACILITY[2] = 01
THEN
    NO_HOSPITALIZATION = 0
ELSE
    NO_HOSPITALIZATION= 1
END IF
```