

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

Revision 1
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1. On page 9, the descriptive measure name LOS from 121 to 365 days (%) has been changed to LOS from 121 to 180 days (%), the short measure name HC_LOS_121_365 has been changed to HC_LOS_121_180, the descriptive measure name LOS More than 365 days (%) has been changed to LOS more than 180 days (%), and the short measure name HC_GT_365 has been changed to HC_LOS_GT_180.
2. On page 35, in the calculation of Status most problematic stasis (0-3) (STAS_ULCR_STAT), instead of setting the measure to 0 when M1330_STAS_ULCR_PRSENT[1] = 03 (non-observable stasis ulcer only), the measure is instead set to MISSING.
3. On page 36, in the calculation of Status most problematic surg. (0-3) (SRGCL_WND_STAT), instead of setting the measure to 0 when M1340_SRGCL_WND_PRSENT[1] = 02 (non-observable surgical wound only), the measure is instead set to MISSING.
4. On page 67, in the calculation of Impaired ambulation/mobility (%) (CHRONIC_MOBILITY), in the third and ninth lines of pseudo-code the expression VALUE(M1840_CUR_TOILTG [1]) > 1 is replaced by VALUE(M1850_CUR_TRNSFRNG) > 1.

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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

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

Short Measure Name

ADLs

None needed (%)
Caregiver currently provides (%)
Caregiver training needed (%)
Uncertain/Unlikely to be provided (%)
Needed, but not available (%)

ADL_NONE_NEEDED
ADL_CG_PROVIDES
ADL_NEED_TRAINING
ADL_CG_UNCERTAIN
ADL_CG_NONE

IADLs

None needed (%)
Caregiver currently provides (%)
Caregiver training needed (%)
Uncertain/Unlikely to be provided (%)
Needed, but not available (%)

IADL_NONE_NEEDED
IADL_CG_PROVIDES
IADL_NEED_TRAINING
IADL_CG_UNCERTAIN
IADL_CG_NONE

Frequency of ADL / IADL assistance (1-5)

FREQ_CG_ASSIST

Medication Administration

None needed (%)
Caregiver currently provides (%)
Caregiver training needed (%)
Uncertain/Unlikely to be provided (%)
Needed, but not available (%)

MDCTN_NONE_NEEDED
MDCTN_CG_PROVIDES
MDCTN_NEED_TRAINING
MDCTN_CG_UNCERTAIN
MDCTN_CG_NONE

Medical Procedures

None needed (%)
Caregiver currently provides (%)
Caregiver training needed (%)
Uncertain/Unlikely to be provided (%)
Needed, but not available (%)

PRCDR_NONE_NEEDED
PRCDR_CG_PROVIDES
PRCDR_NEED_TRAINING
PRCDR_CG_UNCERTAIN
PRCDR_CG_NONE

Management of Equipment

None needed (%)
Caregiver currently provides (%)
Caregiver training needed (%)
Uncertain/Unlikely to be provided (%)
Needed, but not available (%)

EQUIP_NONE_NEEDED
EQUIP_CG_PROVIDES
EQUIP_NEED_TRAINING
EQUIP_CG_UNCERTAIN
EQUIP_CG_NONE

Supervision / Safety

None needed (%)
Caregiver currently provides (%)
Caregiver training needed (%)
Uncertain/Unlikely to be provided (%)
Needed, but not available (%)

SPRVSN_NONE_NEEDED
SPRVSN_CG_PROVIDES
SPRVSN_NEED_TRAINING
SPRVSN_CG_UNCERTAIN
SPRVSN_CG_NONE

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

Short Measure Name

Advocacy

| | |
|---------------------------------------|---------------------|
| None needed (%) | ADVCY_NONE_NEEDED |
| Caregiver currently provides (%) | ADVCY_CG_PROVIDES |
| Caregiver training needed (%) | ADVCY_NEED_TRAINING |
| Uncertain/Unlikely to be provided (%) | ADVCY_CG_UNCERTAIN |
| Needed, but not available (%) | ADVCY_CG_NONE |

SENSORY STATUS

| | |
|--------------------------------------|-------------------|
| Vision impairment (0-2) | VISION |
| Hearing impairment (0-2) | HEARING |
| Verbal content understanding (0-3) | VERBAL_UNDERSTAND |
| Speech/language (0-5) | SPEECH |
| Pain interfering with activity (0-4) | PAIN |

INTEGUMENTARY STATUS

Pressure Ulcers

| | |
|--------------------------------------|-----------------|
| Pressure ulcer risk (%) | PRES_ULC_RISK |
| Pressure ulcer present (%) | PRES_ULC |
| Stage II pressure ulcer count (#) | PRES_ULC_STG2 |
| Stage III pressure ulcer count (#) | PRES_ULC_STG3 |
| Stage IV pressure ulcer count (#) | PRES_ULC_STG4 |
| Unstageable pressure ulcer count (#) | PRES_ULC_NO_STG |
| Status most problematic PU (0-3) | PRES_ULC_STATUS |
| Stage I pressure ulcer count (0-4) | PRES_ULC_STG1 |
| Stage most problematic PU (1-4) | PRES_ULC_STG |

Stasis Ulcers

| | |
|---------------------------------------|----------------|
| Stasis ulcer indicator (%) | STAS_ULCR |
| Stasis ulcer count (0-4) | STAS_ULCR_CNT |
| Status most problematic stasis (0-3) | STAS_ULCR_STAT |

Surgical Wounds

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

Other

| | |
|-----------------------------------|------------|
| Skin lesion with intervention (%) | WND_LESION |
|-----------------------------------|------------|

Respiratory

| | |
|-----------------------|------------------|
| Dyspnea (0-4) | DYSPNEA |
| Oxygen therapy(%) | OXY_THERAPY |
| Ventilator therapy(%) | VENT_THERAPY |
| CPAP/BPAP therapy (%) | AIRPRESS_THERAPY |

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

Short Measure Name

PHYSIOLOGICAL STATUS

Elimination Status

| | |
|---------------------------------------|--------------|
| Urinary tract infection (%) | UTI |
| Urinary incontinence/catheter (%) | INCONT_CATH |
| Urinary incontinence frequency (0-4) | INCONT_FREQ |
| 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 |

Patient-Related Characteristics Measure

Domain and Descriptive Measure Name

Short Measure Name

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

IADLs, MEDICATIONS, OTHER

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

Patient-Related Characteristics Measure

Domain and Descriptive Measure Name

IV/infusion therapy (%)

Enteral/parenteral nutrition (%)

Ventilator (%)

Chronic Conditions

Dependence in living skills (%)

Dependence in personal care (%)

Impaired ambulation/mobility (%)

Urinary incontinence/catheter (%)

Dependence in med. admin. (%)

Chronic pain (%)

Cognitive/mental/behavioral (%)

Chronic pt. with caregiver (%)

Home Care Diagnoses

Infections/parasitic diseases (%)

Neoplasms (%)

Endocrine/nutrit./metabolic (%)

Blood diseases (%)

Mental diseases (%)

Nervous system diseases (%)

Circulatory system diseases (%)

Respiratory system diseases (%)

Digestive system diseases (%)

Genitourinary sys. diseases (%)

Pregnancy problems (%)

Skin/subcutaneous diseases (%)

Musculoskeletal sys. diseases (%)

Congenital anomalies (%)

Ill-defined conditions (%)

Fractures (%)

Intracranial injury (%)

Other injury (%)

Iatrogenic conditions (%)

PATIENT DISCHARGE INFORMATION

Length of Stay

LOS until discharge (in days)

LOS from 1 to 30 days (%)

LOS from 31 to 60 days (%)

Short Measure Name

ACUTE_IV

ACUTE_ENT_PAR_NUTRI

ACUTE_VENT

CHRONIC_LIV_SKILL

CHRONIC_PERS_CARE

CHRONIC_MOBILITY

CHRONIC_INCONT_CATH

CHRONIC_MED_ADMIN

CHRONIC_PAIN

CHRONIC_MENT_BEHAV

CHRONIC_ANY_W_CG

HC_DX_INFECT

HC_DX_NEOPLASM

HC_DX_ENDOCRINE

HC_DX_BLOOD

HC_DX_MENTAL

HC_DX_NERVOUS

HC_DX_CIRCULATORY

HC_DX_RESPIRATORY

HC_DX_DIGESTIVE

HC_DX_GEN_URINARY

HC_DX_PREGNANCY

HC_DX_SKIN

HC_DX_MUSCL_SKEL

HC_DX_CONGENITAL

HC_DX_ILL_DEFINED

HC_DX_FRACTURE

HC_DX_CRANIAL

HC_DX_INJURY_OTH

HC_DX_IATROGENIC

HC_LOS

HC_LOS_1_30

HC_LOS_31_60

Patient-Related Characteristics Measure

Domain and Descriptive Measure Name

LOS from 61 to 120 days (%)

LOS from 121 to 180 days (%)

LOS more than 180 days (%)

Reason for Emergent Care

Improper medications (%)

Injury from fall (%)

Respiratory infection (%)

Other respiratory (%)

Heart failure (%)

Cardiac dysrhythmia (%)

Myocardial infarction (%)

Other heart disease (%)

Stroke (CVA) or TIA (%)

Hypo/Hyperglycemia (%)

GI bleeding, obstruction, etc. (%)

Dehydration, malnutrition (%)

Urinary tract infection (%)

IV catheter-related infection (%)

Wound infection (%)

Uncontrolled pain (%)

Acute mental/behav. problem (%)

Deep vein thrombosis (%)

Other (%)

No emergent care (%)

Reason for Hospitalization

Improper medication (%)

Injury from fall (%)

Respiratory infection (%)

Other respiratory (%)

Heart failure (%)

Cardiac dysrhythmia (%)

Myocardial infarction (%)

Other heart disease (%)

Stroke (CVA) or TIA (%)

Hypo/Hyperglycemia (%)

GI bleeding, obstruction, etc. (%)

Dehydration, malnutrition (%)

Short Measure Name

HC_LOS_61_120

HC_LOS_121_180

HC_LOS_GT_180

EC_REASON_MEDS

EC_REASON_FALL

EC_REASON_RESP_INF

EC_REASON_RESP_OTHER

EC_REASON_HEART_FAIL

EC_REASON_DYSRHYTHMIA

EC_REASON_AMI

EC_REASON_HEART_OTHER

EC_REASON_STROKE_TIA

EC_REASON_HI_LO_BG

EC_REASON_GI

EC_REASON_NUTRITION

EC_REASON_UTI

EC_REASON_IV_INFECT

EC_REASON_WOUND_INFCT

EC_REASON_PAIN

EC_REASON_MENTAL_BEHAV

EC_REASON_THROMBOSIS

EC_REASON_OTHER

NO_EMERGENT_CARE

HOSP_REASON_MEDS

HOSP_REASON_FALL

HOSP_REASON_RESP_INF

HOSP_REASON_RESP_OTHER

HOSP_REASON_HEART_FAIL

HOSP_REASON_DYSRHYTHMIA

HOSP_REASON_AMI

HOSP_REASON_HEART_OTHER

HOSP_REASON_STROKE_TIA

HOSP_REASON_HI_LO_BG

HOSP_REASON_GI

HOSP_REASON_NUTRITION

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

Urinary tract infection (%)

IV catheter-related infection (%)

Wound infection (%)

Uncontrolled pain (%)

Acute mental/behav. problem (%)

Deep vein thrombosis (%)

Scheduled visit (%)

Other (%)

No hospitalization (%)

Short Measure Name

HOSP_REASON_UTI

HOSP_REASON_IV_INFECT

HOSP_REASON_WOUND_INFCT

HOSP_REASON_PAIN

HOSP_REASON_MENTAL_BEHAV

HOSP_REASON_THROMBOSIS

HOSP_REASON_SCHED_VISIT

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

Note: 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
THEN
    STAS_ULCR_STAT = 0
ELSE
    IF M1330_STAS_ULCR_PRSNT[1] = 03
    THEN
        STAS_ULCR_STAT = MISSING
    ELSE
        STAS_ULCR_STAT = VALUE(M1334_STUS_PRBLM_STAS_ULCR[1])
    END IF
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

THEN

SRGCL_WND_STAT = 0

ELSE

IF M1340_SRGCL_WND_PRSNT[1] = 02

THEN

SRGCL_WND_STAT = MISSING

ELSE

SRGCL_WND_STAT = VALUE(M1342_STUS_PRBLM_SRGCL_WND[1])

END IF

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
    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
```

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_ORTHO = 1

ELSE

ACUTE_ORTHO = 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)

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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)
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 (%)

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)
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)

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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 (%)

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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)

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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)
 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

Pulmonary (%)

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)
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)
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)

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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

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Diabetes mellitus (%)

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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

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Gastrointestinal disorder (%)

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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)

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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)
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(M1850_CUR_TRNSFRNG) > 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(M1850_CUR_TRNSFRNG) > 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_31_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_DYSRYTHMIA = 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_DSRTM[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_PULMNRV[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
```