DOCUMENTATION

for

MEDICATION DATA

in

MIDUS REFRESHER BIOMARKER PROJECT (P4)

University of Wisconsin ♦ Institute on Aging April 2024

INTRODUCTION

This document provides an overview of the medication data collected in the MIDUS Refresher baseline (MR1) Biomarker Project (P4). It describes the protocols for collecting and recording medication data, as well as coding medications and diagnoses. It also provides information about the construction and usage of related administrative and constructed variables.

Data users are also encouraged to review the "MR1 P4 Biomarker Project Data File Notes". This document provides information about naming conventions, as well as administrative and filter variables included in the data file. It also includes information about how we handled missing values and other issues that arose over the course of the study. For example, there are instances when variables were added or sections of an instrument were expanded for data entry purposes to accommodate additional information provided by the respondent.

This document will be periodically revised and updated as more information is gathered, and researchers continue to work with the MIDUS-Refresher Biomarker data. If there are suggestions or comments, please contact midus help@aging.wisc.edu.

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SECTION A: OVERVIEW OF MEDICATION DATA

The Refresher Biomarker Project (P4) includes comprehensive data about the medications study participants are taking at the time of data collection. Specifically, information is recorded about the following medications types, as well as medication allergies:

- Prescription
- Over-The-Counter (OTC)
- Alternative Medications

These basic data are enhanced, in two ways, via a standardized set of procedures developed with the MIDUS 2 Biomarker Medication data. First, medication names are linked to Generic Names and corresponding DrugIDs via linkage to the Lexi-Data database and then linked to their associated therapeutic and pharmacologic class codes. Second, reasons for taking medications are reviewed and coded into one of two mutually exclusive categories. Information about these procedures is included below in Sections D and E.

The Medication data are collected at all three P4 sites. The data appear in the data file immediately following the Ankle Brachial Index (ABI) data. A copy of the Medication Chart appears in Section B. The variable names have been added to the instrument in the cell where the data they represent is recorded. As described in "MR1 P4 Biomarker Project Data File Notes", the naming convention organizes variables according to the data type or method used for data collection. The variable names for the medication data begin with the unique 4-character set "RA4X".

Revision in the 2024 Update Release

The following updates include both the flat aggregated data file and the Stacked medication data file:

- a. For why a medication is taken, an ICD-10 code is added to each medication, in addition to the ICD-9 code previously available. For the cases could not be classified into an ICD-10 category, the MIDUS diagnose codes are used to supplement the ICD-10 codes.
- b. Lexicon assigns all the related Pharmacologic categories (PC) codes to the drug with same Generic name, regardless of Route of administration. This resulted in some medications being assigned codes with conflicting information, such as having both oral code and parenteral code. We identified all the medications with route specific PC codes and reviewed the PC codes along with the Route reported by the Respondents to determine if the PC codes should be modified. For example, Ibuprofen associated with PC codes 1602 (NSAID, oral) and 1603 (NSAID, parenteral). If Respondent reported using this medication orally, we will keep the code 1602 and remove the code 1603.

Medication Data Collection

Respondents are instructed to bring all their medications, in the original bottles, to the GCRC (General Clinical Research Center) when they come for their visit. We ask them to do this to ensure that we are able to record medication names and dosages accurately. The Medication Chart has three pages and includes sections to record information about:

Prescription Medications: All FDA approved medications prescribed by someone

authorized/licensed under the Western medical tradition, typically a physician.

- Over the Counter Medications: Include vitamins, minerals, non-prescription pain, antacids, anti-diarrheas, fiber, lubricating eye or nose preparations etc. that the subject uses regularly and can be purchased "Over the Counter" (OTC) without a prescription.
- <u>Alternative Medications:</u> Include herbs, herbal blends (not including herbal teas), homeopathic remedies, and other alternative remedies. These may be purchased over the counter or they may be "prescribed" by a health care practitioner trained in a non-western tradition.
- <u>Medication Allergies:</u> Any medication (prescription, OTC, alternative) that the subject reports being allergic to.

During the visit project staff record the following information about medications on themedication chart:

- Medication name, dosage, and route of administration
- How often the medication is taken
- How long the participant has been taking a given medication
- Why the participant thinks s/he is taking the medication

A standardized protocol for collecting medication data was implemented at all three sites. A copy of this protocol appears in Section C. See Appendix A in Section F for a sample of a completed medication chart.

<u>NOTE</u>: The order in which medications are recorded on the form is random and determined by the order in which the participant choses to report them. Thus there will be little direct correspondence between the medications or medication allergies reported in any given row of the form from one wave of data collection to another. The one exception is the first two rows in the OTC, which are reserved for reporting multi-vitamin and calcium supplement usage.

Data File Structure

The medication data are released in the traditional flat (wide) format as part of the larger MIDUS Biomarker aggregate data file to facilitate their use in standard between person analyses. Details about the variables in this file are included in the current document. The scope of the medication data however also lends itself to within person analysis of medication use, thus the medication data are also released in a standalone stacked (long) format. The stacked file only contains data about medications used, thus it does not include any information about study participants who do not take any medications. It also does not include any data about medication allergies.

The aggregate (flat) file includes some administrative variables indicating whether or not the participant takes medication of the indicated type and, if yes, the number of medications. It also includes a standardized variable set characterizing each medication recorded along with information about medication allergies. The final section of the medication data is a set of variables indicating therapeutic and pharmacologic classification of the medications reported. The remainder of this section provides additional details about these variables.

Administrative Variables

There are 4 administrative variables at the beginning of the medication section:

- RA4XTM total number of medications
- RA4XPMD, RA4XOMD, RA4XAMD administrative variables indicating if the respondenttakes medications of the indicated type or not.

The first variable at the beginning of the Prescription, OTC, and Alternative medication sections indicates the total number of medications of a given type that the participant takes (RA4XPM, RA4XOM, RA4XAM, respectively). In addition, as noted above, the first two rows of the OTC medication section are designated for Multivitamins and Calcium Supplements, thus, it also includes the following 2 administrative variables:

- RA4XOMV Yes/No, taking a multivitamin?
- RA4XOCS Yes/No, taking a calcium supplement?

Prescription, OTC, and Alternative Medications: Standardized Variable Sets

These variables appear in the following order for each medication reported. The "_" in the variable name is a placeholder for the character indicating the medication type (P = Prescription, O = OTC, A = Alternative) while the "#" at the end of the variable names is a place holder for the row number on the chart where information about a given medication is reported.

- Created variables from the Lexi-Data database
 - o RA4X MID# DrugID from the Lexi-Data database
 - o RA4X GN# Generic Drug Name associated with the DrugID

A list of DrugIDs and Generic Drug Names can be found in Section F, Appendix Bbelow.

- Variables based on information from the medication chart:
 - o RA4X DD#, RA4X DU# drug dosage (dosage, units)
 - o RA4X_R# route of administration (oral, topical, etc.)
 - RA4X_F#, RA4X_FU# how often the medication is taken (frequency, frequency units)
 - RA4X_PRN# these variables indicate whether or not a given medication is takenas needed (PRN=Pro Re Nata) rather than on a regular basis. This flag is created for each set of medication variables within each medication type. It can be used to filter out medications that are taken occasionally (i.e. aspirin for acute pain management) or in emergent situations (i.e. rescue inhaler during an asthma attack)
 - RA4X_T#, RA4X_TU# how long has the medication been taken (number, time units)
- Two sets of mutually exclusive code variables representing the reasons why the participant thinkss/he is taking the medication:

In the first set, we coded the reasons taken the medication using ICD-9 categories. For the cases could not be classified into an ICD-9 category, we developed a list of MIDUS diagnose codes to supplement the ICD-9 codes. This set of variables were included in the original 2017 release.

- RA4X_ICD9M# 3-digit numeric codes representing major categories in the International Classification of Diseases, 9th Revision.
- o RA4X MDC9 # 5-character alphanumeric variables representing a set of codes

used to categorize reasons for taking a medication that could not be classified into an ICD-9 category.

In the second set, we coded the reasons taken the medication using ICD-10 categories. For the cases could not be classified into an ICD-10 category, the MIDUS diagnose codes are used to supplement the ICD-10 codes. This set of variables were added to MIDUS refresher medication data in this new 2023 update release.

- RA4X_ICD10M# 3-character alphanumeric variables representing major categories in the International Classification of Diseases, 10th Revision.
- RA4X_MDC10_# 5-character alphanumeric variables representing a set of codes used to categorize reasons for taking a medication that could not be classified into an ICD-10 category.

A list of codes and category names for the two sets of code variables can be found in Section F, Appendix D, below.

There are 15 sets of Prescription medication variables, 11 sets of OTC medication variables, and 10 sets of Alternative medication variables in the Refresher Biomarker file. Some participants report more medications in a given category than the data file allows for (i.e. takes 15 OTC medications). These additional medications are not included in the flat file as they would potentially add over a hundred variables (10 variables per medication) most of which would be designated as INAPP. These additional medications are however included in the stacked file. Cases with additional medications can be identified by looking at the following variables:

- RA4XXM indicates whether the participant has any additional medications.
- RA4X_M frequency distributions of these variables, representing the number of medications of a given type that the participant takes, will help users identify the type of medication for which there are additional medications.

Medication Allergies: Standardized Variable Sets

The final section of the Medication Chart is for reporting medication allergies. There are 2 administrative variables at the beginning of that section:

- RA4XM Yes/No does the respondent have Any Medication Allergies?
- RA4XMM number of allergies

There are 3 additional variables for each medication allergy reported (the # in the variable name indicates the row number in the chart):

- RA4XMMID# text variable containing Multum DrugID code
- RA4XMMGN# text variable containing the Multum generic drug name
- RA4XMMRC# codes representing the allergic reaction to the medication (see below for details.

Note, the allergy variables are only included in the Flat file.

Coding Medication Allergy Reactions

Participant descriptions of allergic reactions to medications were recorded verbatim. The number of medication allergies reported was relatively small compared to the larger set of medication data thus they were coded using standard manual approaches. Medical definitions of common types of reactions and anaphylactic shock were used as a reference for making decisions about coding categories. Most of the categories correspond to specific individual reactions reported (e.g. rash, nausea). If the participant reported multiple individual reactions

that are part of the overall anaphylactic response, then the code for anaphylaxis was assigned. Sometimes participants reported reactions that could not be identified as being either part of the anaphylactic response or a known reaction to a particular medication. In those instances, the reaction was coded as 'Other'. The categories, codes, and key words are summarized below.

Code	Category Name	Keywords
1	ANAPHYLAXIS	Anaphylaxis, difficulty breathing, faint, wheezing, swelling &hives, sweating/shaking
2	RASH	Rash, Eczema
3	HIVES	Hives, eruptions, urticaria, blisters, welts
4	VOMITING	Vomiting, throwing up,
5	SWELLING	Swelling, swollen –hands, face, feet etc.
6	STOMACH UPSET	Upset stomach, feeling sick
7	ITCHING	Itching,
8	NAUSEA	Nausea
9	PSYCHOSIS	Psychosis, hallucinations, agitation, delirium, jitters
10	DIARRHEA	Diarrhea
11	OTHER	Joints ache, no energy, headache, sweats, etc.

Therapeutic and Pharmacologic Classes

The final section of the data file contains a series of dummy variables indicating whether or not the participant takes medications in commonly occurring categories of therapeutic (TC) and pharmacologic (PC) classes identified following linkage to the Lexi-Data database. The Lexi-Data linkage and creation of these variables along with corresponding count variables are described in the in Section D. A list of the Therapeutic and Pharmacologic class codes and category names can be found in Section F, Appendix C, below.

The variable names for these dummies incorporate the first 5-6 characters of the corresponding TC and PC variables as well as the numeric code for the TC or PC class. The variable label incorporates both the TC or PC class code and the category name. If a count variable was also created, then an "N" is added as the final character to the dummy variable name. For example a common parent (top tier) therapeutic class is 115=Nutritional Products. The dummy and count variables for this TC class are named/labeled as follow:

- Dummy variable: RA4XTC_115 = 'Multum Therapeutic Class 115 nutritional products: YES/NO?'
- Count variable: RA4XTC_115_N = 'Multum Therapeutic Class 115 nutritional products: HOW MANY?'

SECTION B: MEDICATION CHART

See Medication chart used in data collection below. MR1 variable names are added to the chart.

MIDUS PROJECT 4: **PRESCRIPTION MEDICATION**

of prescription medications?__[RA4XPM]_

Site #	ID #
Date	

Drug Name	Dosage	Route	Frequency	Taken for how long?	Why are you taking it?
1. [RA4XPN1]	[RA4XPDD1] [RA4XPDU1] [RA4XPDU1S]	[RA4XPR1]	[RA4XPF1] [RA4XPFU1] [RA4XPFU1S]	[RA4XPT1] [RA4XPTU1]	[RA4XPW1]
2. [RA4XPN2]	[RA4XPDD2] [RA4XPDU2] [RA4XPDU2S]	[RA4XPR2]	[RA4XPF2] [RA4XPFU2] [RA4XPFU2S]	[RA4XPT2] [RA4XPTU2]	[RA4XPW2]
3. [RA4XPN3]	[RA4XPDD3] [RA4XPDU3] [RA4XPDU3S]	[RA4XPR3]	[RA4XPF3] [RA4XPFU3] [RA4XPFU3S]	[RA4XPT3] [RA4XPTU3]	[RA4XPW3]
4. [RA4XPN4]	[RA4XPDD4] [RA4XPDU4] [RA4XPDU4S]	[RA4XPR4]	[RA4XPF4] [RA4XPFU4] [RA4XPFU4S]	[RA4XPT4] [RA4XPTU4]	[RA4XPW4]
5. [RA4XPN5]	[RA4XPDD5] [RA4XPDU5] [RA4XPDU5S]	[RA4XPR5]	[RA4XPF5] [RA4XPFU5] [RA4XPFU5S]	[RA4XPT5] [RA4XPTU5]	[RA4XPW5]
6. [RA4XPN6]	[RA4XPDD6] [RA4XPDU6] [RA4XPDU6S]	[RA4XPR6]	[RA4XPF6] [RA4XPFU6] [RA4XPFU6S]	[RA4XPT6] [RA4XPTU6]	[RA4XPW6]
7. [RA4XPN7]	[RA4XPDD7] [RA4XPDU7] [RA4XPDU7S]	[RA4XPR7]	[RA4XPF7] [RA4XPFU7] [RA4XPFU7S]	[RA4XPT7] [RA4XPTU7]	[RA4XPW7]
8. [RA4XPN8]	[RA4XPDD8] [RA4XPDU8] [RA4XPDU8S]	[RA4XPR8]	[RA4XPF8] [RA4XPFU8] [RA4XPFU8S]	[RA4XPT8] [RA4XPTU8]	[RA4XPW8]
9. [RA4XPN9]	[RA4XPDD9] [RA4XPDU9] [RA4XPDU9S]	[RA4XPR9]	[RA4XPF9] [RA4XPFU9] [RA4XPFU9S]	[RA4XPT9] [RA4XPTU9]	[RA4XPW9]
10. [RA4XPN10]	[RA4XPDD10] [RA4XPDU10] [RA4XPDU10S]	[RA4XPR10]	[RA4XPF10] [RA4XPFU10] [RA4XPFU10S]	[RA4XPT10] [RA4XPTU10]	[RA4XPW10]
11. [RA4XPN11]	[RA4XPDD11] [RA4XPDU11] [RA4XPDU11S]	[RA4XPR11]	[RA4XPF11] [RA4XPFU11] [RA4XPFU11S]	[RA4XPT11] [RA4XPTU11]	[RA4XPW11]

NON-PRESCRIPTION MEDICATION

(Over the Counter)

Site #	ID#
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of non-prescription medications?__[RA4XOM]_

Date_____

Drug Name	Dosage	Route	Frequency	Taken for how long?	Why are you taking it?
1. Multiple vitamin Y N [RA4XOMV] [RA4XON1]	[RA4XODD1] [RA4XODU1] [RA4XODU1S]	[RA4XOR1]	[RA4XOF1] [RA4XOFU1] [RA4XOFU1S]	[RA4XOT1] [RA4XOTU1]	[RA4XOW1]
2. Calcium Y N [RA4XOCS] [RA4XON2]	[RA4XODD2] [RA4XODU2] [RA4XODU2S]	[RA4XOR2]	[RA4XOF2] [RA4XOFU2] [RA4XOFU2S]	[RA4XOT2] [RA4XOTU2]	[RA4XOW2]
3. [RA4XON3]	[RA4XODD3] [RA4XODU3] [RA4XODU3S]	[RA4XOR3]	[RA4XOF3] [RA4XOFU3] [RA4XOFU3S]	[RA4XOT3] [RA4XOTU3]	[RA4XOW3]
4. [RA4XON4]	[RA4XODD4] [RA4XODU4] [RA4XODU4S]	[RA4XOR4]	[RA4XOF4] [RA4XOFU4] [RA4XOFU4S]	[RA4XOT4] [RA4XOTU4]	[RA4XOW4]
5. [RA4XON5]	[RA4XODD5] [RA4XODU5] [RA4XODU5S]	[RA4XOR5]	[RA4XOF5] [RA4XOFU5] [RA4XOFU5S]	[RA4XOT5] [RA4XOTU5]	[RA4XOW5]
6. [RA4XON6]	[RA4XODD6] [RA4XODU6] [RA4XODU6S]	[RA4XOR6]	[RA4XOF6] [RA4XOFU6] [RA4XOFU6S]	[RA4XOT6] [RA4XOTU6]	[RA4XOW6]
7. [RA4XON7]	[RA4XODD7] [RA4XODU7] [RA4XODU7S]	[RA4XOR7]	[RA4XOF7] [RA4XOFU7] [RA4XOFU7S]	[RA4XOT7] [RA4XOTU7]	[RA4XOW7]
8. [RA4XON8]	[RA4XODD8] [RA4XODU8] [RA4XODU8S]	[RA4XOR8]	[RA4XOF8] [RA4XOFU8] [RA4XOFU8S]	[RA4XOT8] [RA4XOTU8]	[RA4XOW8]
9. [RA4XON9]	[RA4XODD9] [RA4XODU9] [RA4XODU9S]	[RA4XOR9]	[RA4XOF9] [RA4XOFU9] [RA4XOFU9S]	[RA4XOT9] [RA4XOTU9]	[RA4XOW9]
10. [RA4XON10]	[RA4XODD10] [RA4XODU10] [RA4XODU10S]	[RA4XOR10]	[RA4XOF10] [RA4XOFU10] [RA4XOFU10S]	[RA4XOT10] [RA4XOTU10]	[RA4XOW10]

ALTERNATIVE MEDICATION (herbal, homeopathic, etc.)

Site #	ID#

of alternative medications?_[RA4XAM]____

Date

Drug Name	Dosage	Route	Frequency	Taken how long?	Why are you taking it?
1. [RA4XAN1]	[RA4XADD1] [RA4XADU1] [RA4XADU1S]	[RA4XAR1]	[RA4XAF1] [RA4XAFU1] [RA4XAFU1S]	[RA4XAT1] [RA4XATU1]	[RA4XAW1]
2. [RA4XAN2]	[RA4XADD2] [RA4XADU2] [RA4XADU2S]	[RA4XAR2]	[RA4XAF2] [RA4XAFU2] [RA4XAFU2S]	[RA4XAT2] [RA4XATU2]	[RA4XAW2]
3. [RA4XAN3]	[RA4XADD3] [RA4XADU3] [RA4XADU3S]	[RA4XAR3]	[RA4XAF3] [RA4XAFU3] [RA4XAFU3S]	[RA4XAT3] [RA4XATU3]	[RA4XAW3]
4. [RA4XAN4]	[RA4XADD4] [RA4XADU4] [RA4XADU4S]	[RA4XAR4]	[RA4XAF4] [RA4XAFU4] [RA4XAFU4S]	[RA4XAT4] [RA4XATU4]	[RA4XAW4]

^{*} Up to 8 alternative medications recorded in the actual data file. The variable names for record 5-8 follow the same convention as shown here for record 1-4.

MEDICATION ALLERGIES

Does R have any medication allergies? (circle one) Yes

No [RA4XM] [RA4XMM]

Drug name Reaction

2149 1141110	1100011011
1. [RA4XMN1]	[RA4XMR1]
2. [RA4XMN2]	[RA4XMR2]
3. [RA4XMN3]	[RA4XMR3]
4. [RA4XMN4]	[RA4XMR4]

^{*} Up to 6 medication allergies recorded in the actual data file. The variable names for record 5-6 follow the same convention as shown here for record 1-4.

SECTION C: DATA COLLECTION PROTOCOL

The following provides instructions for administering the Medication Chart for the MIDUS Refresher Biomarker Project (P4).

Background

Respondents are instructed to bring all their medications in the original bottles. We ask them to do this to ensure that we are able to record medication names and dosages accurately. To ensure that participants bring all their medications to the visit, staff are instructed to use the following probes/reminders when communicating with participants **before** the visit:

- Are you taking/using
 - o Any medications that are injected?
 - o Any creams/patches?
 - o Any medications that are given at doctor visits / clinic visits? (e.g. infusions)
 - Use of an inhaler or nasal spray
- Any medications taken on a weekly basis?
- Any medications taken on a monthly basis?

The Medication Chart has three pages and includes sections to record information about:

Prescription Medications:

All FDA approved medications prescribed by someone authorized/licensed under the Western medical tradition, typically physician.

<u>Note</u>: Some vitamins (e.g. Folic Acid, Niacin /Niaspan below) are prescription strength and would be in a prescription bottle.

Over the Counter Medications:

Include vitamins, minerals, non-prescription pain, antacids, anti-diarrheals, fiber, lubricating eye or nose preparations etc. that the subject uses regularly and can be purchased "Over the Counter" (OTC) without a prescription.

There are two notable exceptions:

- Folic Acid is a prescription medication if the dosage is 800 mcg or more.
- Niacin (Niaspan) is a prescription medication if the dosage is 500 mg or more.

Examples: Over the Counter (non-prescription) General Medications

Advil Fiber supplements Motrin Acetaminophen APAP Fiber Con Naproxen Alleve Floride Rinse Nasalcrom Ascriptin Ibuprofen Nasal spray (saline) Aspirin Immodium Pepto Bismol Benadryl Hydrocortisone cream Psyllium Citrucel Legatrim Sennakot Simethicone Diphenhydramine Loperimide Docusate Lactaid Tums Eye drops - artificial tears Maalox Tylenol

Excedrine Metamucil

Examples: Over the Counter (non-prescription) Vitamins & Minerals

Multi vitaminChromium picolinatePhosphorusVitamin ACopperPotassiumVitamin B'sFerrous sulfateProtegraVitamin CFolic acidSeleniumVitamin DIronZinc

Vitamin E Niacin
Calcium Magnesium

Alternative Medications:

Include herbs, herbal blends (<u>not including herbal teas</u>), homeopathic remedies, and other alternative remedies. These may be purchased OTC (over the counter) or theymay be "prescribed" by a health care practitioner trained in a non-western tradition.

Examples: Over the Counter (non-prescription) Vitamins & Minerals

Alfalfa Echinacea Lutein
Alpha lipoic Acid Essential Fatty Acid Lysine

Adrenal Support Flax Seed Oil Lymph gland cleanser

Bowel Aide Fish Oil Melatonin
Billberry Extract Ginkgo biloba MSMw/GS
Homeopathic Garlic Mega-chel
Cayenne Ginseng Nutri-calm

Chondrochondroitin Ginger Olive Leaf Extract

Cod liver oil Glucosamine/ Osteobiflex
Co Q 10 glucosamine chondroitin Primrose seed oil
Colostrum Kava kava St Johns wort
Cortislim Kelp Saw Palmetto
Cranberry Pill Lecithin Valerian

Medication Allergies

Include any medication (prescription, OTC, alternative) that the subject believes s/he is allergic to.

Instructions for Completing the Medication Chart

General Guidelines:

- If a respondent is taking multiple drugs of a particular type, or to treat a particular condition, record information about all the medications. For example, a respondent may take two different types of insulin, or is taking multiple medications to treat high blood pressure.
- 2. Additional Medications: Some respondents will take more medications than our forms allow. To accommodate these situations, Project staff should carry an extra copy of the Medication Chart and use the appropriate page to record information about additional medications. Specifically, staff should:
 - a. Write "See additional sheet" at the end of the appropriate section of the chart

- b. Fill out the appropriate additional sheet and *paper clip* it to the back of the completed chart.
- c. Make sure that the "# of _____medications?" line reflects the total number of medications of that type that the respondent takes.
- 3. Medications Not Currently Being Taken: If the respondent brings in prescription medication that they are no longer taking, do not record it on the form (or remove it during field editing).

Specific Instructions:

Collect medications from the participant after GCRC admission but before the nurse begins the admission assessments. The Medication Chart is completed in three steps. The first two are completed during the GCRC visit. The third step can be completed after the subject has left the GCRC.

An example of a completed Medication Chart can be found in Section F, Appendix A.

Step 1: To ensure that medications are correctly organized by type, please complete this step while GCRC nurse is conducting admission assessment or while subject is eating dinner. Return the medications to the subject after completing this step.

Staff will ask subjects to confirm the dosage information recorded in this step, thus it will behelpful to use a pencil.

If the subject is not taking medications of a certain type, record a 0 in the space for "# of _____ medications".

For all medications the subject is taking record the following:

- 1. Drug name: Copy from label on bottle.
 - Many subjects are likely to be taking a multiple vitamin or calcium supplement.
 Therefore, the first two lines on the chart for Non-Prescription Medications are reserved for these two medications.
 - If the subject <u>is not</u> taking any non-prescription medications ignore these two boxes.
 - o If the subject <u>is</u> taking non-prescription medications, circle "Yes" or "No" and fill in the appropriate information.
- 2. <u>Dosage</u>: we want to know how much of the drug they take at any given time that they take it. Copy from label on bottle and ask respondents if this is how they actually take the drug. Write the exact dosage they take. For example, if the label reads:
 - Lipitor 80mg, take half tablet once a day & the respondent confirms taking only ½ tablet daily, then record 40mg as the dosage.
 - Atenolol 20 mg, take one tablet in the morning and one at bedtime, & the respondent confirms this, then record 20 mg as the dosage.
 - Alfalfa 500mg per tablet & the respondent reports taking 6 tablets three times per day, then record 3,000 mg as the dosage.

- Inhaled Medications: Dosage information for inhalers can be listed in two forms.
 - o It may be listed in the standard units (e.g. mcg, mg etc.) reflecting the total dosage for the contents of the inhaler.
 - It should also be listed in terms of the number of puffs that person should inhale reflecting the amount taken when the inhaler is used. <u>Please be sure to record # of puffs as this is the dosage that we want to record.</u>

<u>Note</u>: On rare occasions alternative medications may report dosage information in grains rather than mg, cc's, etc. This may be indicated by the word "grain" in the medication name. In those instances, record the full name of the medication, but report the dose in terms of the number of pills, tablets etc. that the respondent takes.

3. Route: this the route by which the medication is taken. The following abbreviations can be used:

PO oral (tablets, capsules, liquid)
IM intramuscular (Vitamin B12 shots)
SC or SQ subcutaneous (insulin injections)
Inh inhaled (nasal spray, asthma inhalers)
Top topical (creams, eye drops, patches)
SL sub-lingual (under the tongue)

4. <u>Frequency</u>: this tells us how often they take the dose recorded at # 2 above. The following abbreviations can be used:

QD once daily
BID twice a day
TID three times a day
QID four times a day
PRN as needed

Medications Taken As Needed (PRN):

PRN ONLY – This refers to PRN medications that are taken irregularly in response to an acute need (e.g. cold medicine, sleep aids, antibiotics), they are generally OTC or alternative medications, but can be prescribed.

- If a medication is taken PRN at a specific time of day, please only record "PRN". For example if the respondent takes a sleep aid in the evening as needed and both PRN and QD or at bedtime is recorded, it implies the respondent is taking the medication on both a regular schedule and as needed.
 - The key piece of information is that it is taken 'as needed'
- OTC medications taken for a single occurrence of some condition or illness that has not recurred for at least 3 months should not be recorded.
- OTC medications taken on an irregular basis for recurring conditions (e.g. eczema, sinusitis) should be recorded.

PRN Supplemental – This refers to PRN medications that are taken as needed to supplement a regularly scheduled dosage, under certain circumstances.

• In those instances record the regular dosage on a single line then repeat the information on the next line for the PRN usage. This is the only instance in which information about a single medication should appear ton two lines.

For example, asthmatics may have an inhaler that is used daily, but could also be used PRN in emergencies. This would be recorded as follows:

- 1. Albuterol 2 puffs BID
- 2. Albuterol 1 puff PRN

Medications Taken More Than Once A Day:

Typically, the number of times the medication is taken and the amount are standardized. Sometimes the dosage is the same every time the medication is taken, other times the dosage taken in the morning time is different from that taken later in the day. As long as the amounts and time of day are standardized, the medication and all dosage information should be recorded on the same line.

For example, someone with high Blood Pressure may be taking Altenolol twice a day, but atdifferent dosages. This would be recorded as follows:

- 1. Altenolol 50mg a.m. 100 m.g. p.m. BID
- 2. (next medication)
- 5. After recording the above information in the appropriate location for each medication the subject is taking, record the total number of medications of each type in the "# of medications" line.

Step 2: This step can be performed in conjunction with the Medical History or the Physical Exam at the discretion of GCRC or Project Staff.

Review the Medication Chart with the subject. For each medication recorded on the chart:

- 6. Confirm that subject is taking the medication as indicated on the bottle. Sometimes the prescribed dosage is a certain amount but it is modified at the doctor's recommendation or the subject prefers not to take the recommended dose for a non-prescription or alternative medication.
- 7. Ask the subject how long s/he has been taking the medication, record days, months or years as appropriate.
 - If the respondent reports the year, or a month and year that they started taking a medication please convert to the appropriate number of years, months etc.
- 8. Ask the subject why s/he is taking the medication. Medications are typically taken for specific reasons, but subjects sometimes take them for other atypical reasons or don't really understand why they are taking a particular medication. We want to know why they think they are taking particular medications. Record the reason the subject is taking the drug verbatim.
 - If the respondent says "The Dr. prescribed it" probe for more information (e.g. condition, symptom, prevention)!
 - o If after probing it is clear that the respondent does not know why they are taking the medication, then record "Don't Know".
 - Please be sure to ask this question for ALL medications.

9.	Ask the subject if s/he has any medication allergies. If 'Yes' record the medication name(s) and the nature of the reaction(s) experienced.

SECTION D: LEXI-DATA LINKS: GENERIC NAMES, THERAPEUTIC & PHARMACOLOGIC CLASS

The Lexicomp® Lexi-Data database is a relational database containing information about all types of medications: prescription, OTC, and alternatives such as supplements and herbals. The information is comprehensive ranging from medication names (generic, brand, trade) and active ingredients to details about therapeutic and pharmacologic effects as well as information about relationships among these. The database contains multiple tables and several unique identifiers (primary keys) that are used to link the tables. The database is updated monthly. MIDUS Refresher medication data were linked with the database in 2017, using May 2017 version. Data from the Lexi-Data database is added to the MIDUS Refresher dataset by completing the following tasks:

- Linking MIDUS Refresher medication names to Lexi-Data Generic Names and their corresponding DrugIDs
- Use DrugIDs to extract therapeutic class and pharmacologic category information from the Lexi-Data database

This section describes the procedures for completing the above tasks along with the variables created as a result.

Therapeutic class data from the Lexi-Data database has also been added to other large studies (i.e. The National Social Life, Health, and Aging Project –NSHAP; AHRQ Medical Expenditures Panel Study – MEPS). To facilitate comparisons to those studies we have adopted similar variable naming and labeling conventions. Thus some of the MIDUS variable labels, as well as some parts of the documentation, may include references to Multum, the medical information company that originally developed the Lexicon/Lexi-Data database.

<u>NOTE</u>: The Lexicomp® Lexi-Data base is a proprietary database. Pursuant to our license with them users of data derived from the Lexi-Data file should include the following in any publications or presentations:

"Lexi-Data is a drug data solution offered by Wolters Kluwer Clinical Drug Information. Certain information about therapeutic effects and active ingredients of generic medications identified in the MIDUS (Midlife in the U.S.) study is derived from the Lexi-Data database and used under license from Lexi-Comp, Inc., which reserves all rights in that information."

Linking Medication Names to Generic Names

The Lexi-Data database includes all FDA approved medications and an extensive array of non-prescription medications, supplements and herbals. Therefore, names of prescription medications in MIDUS were easily matched to Generic Names. However, OTC, and ALT medication names are quite variable and not easily matched to Generic Names. To accommodate these differences, the following steps were followed when completing the matching step.

- 1. Direct match A successful match required that MIDUS medication names be identical to the corresponding Generic Names. Thus, this first step was accomplished using an iterative process that relied on automatic merge functions as well as manual review.
 - a. Automatic merge medication names in MIDUS that were identical to Generic Names were matched.
 - b. Manual review medications names that were not matched at the preceding step

- (1a) were reviewed for typographical errors and formatting errors/inconsistencies and then modified to be consistent with the Lexi-Data Generic Names as appropriate. For example:
 - i. 'Thyroid (desiccated)' changed to 'Thyroid Desiccated'
 - ii. Replaced "+" with '-' (e.g. 'Irbesartan + Hydrochlorothiazide' became 'Hydrochlorothiazide-Irbesartan')
 - iii. 'cream' changed to 'topical'
 - iv. 'eye drop' changed to 'ophthalmic'
- c. The automatic merge and manual review were repeated until all possible matches had been made. Medications that could not be matched to a Generic Name were flagged as UnMatched for further review in the next step.
- 2. Reviewing UnMatched Medications many of the UnMatched medications could not be directly matched to a Generic Name because the name was incomplete, or the medication was identified by a brand or trade name. The Lexi-Data database includes information about brand/trade names as well as active ingredients which are linked to DrugIDs (and therefore, Generic Names). UnMatched medications were reviewed and matched to a Generic Name using this additional information whenever possible. In general, this review and matching process was straightforward, however the active ingredient for certain medications varies according to whether the medication is prescribed or obtained over the counter. The following rules were followed in those instances.
 - a. Mineral supplements:
 - i. Potassium:
 - 1. Prescription medication used DrugID d01423 (Potassium Citrate)
 - 2. OTC/Quasi medication used DrugID d00345 (Potassium Chloride), the most common form used in OTC potassium supplements
 - b. Vitamins:
 - i. Vitamin D:
 - 1. Prescription Vitamin D used DrugID d03128 (D2 Ergocalciferol)
 - 2. OTC/Quasi Vitamin D used DrugID d03129 (D3 Cholecalciferol)

Medications that could not be assigned a Generic Name/DrugID after this second round of review were assigned a DrugID of d99999 (Unmatched, no generic name). See Appendix B for a list of DrugIDs and Generic Names in the MIDUS Refresher dataset.

At the end of the matching process about 3.3% of the MIDUS Refresher medications could not be matched. The vast majority are ALT medications, 74% compared to 2% and 24% for prescription and OTC medications, respectively.

Assigning Therapeutic and Pharmacologic Class Codes

The Lexi-Data includes classification systems for categorizing drugs according to their therapeutic effects (i.e. how they are used to treat health problems) and their pharmacologic effects (i.e. the mechanism by which they have a given therapeutic effect). MIDUS medications that were Matched to Generic Names were assigned to both therapeutic and pharmacologic classes based on the DrugIDs associated with those names. UnMatched MIDUS medications were assigned only to therapeutic classes. The protocols for assigning codes to these groups are described separately below. Regardless of Matched or UnMatched status, the protocols for assigning the therapeutic and pharmacologic codes relies on the inherent order of those codes in the Lexi-Data system.

Therapeutic Class Codes

The Therapeutic Classification (TC) system has three tiers consisting of a set of nested (parent-child) categories that parallels the ways in which clinicians think about medications. The system is polyhierarchical and each therapeutic class has a unique code, thus each drug can be associated with as many categories, sub-categories and sub-sub categories as needed. Multum also strictly enforces the relationships between categories and sub-categories so that a given drug can always be described in the context of those relationships (per the Lexi-Comp Drug Classification documentation). All medications in the Lexi-Data are assigned to at least one top tier (parent) class. In addition, many top tier therapeutic classes were also assigned to one or two sub-classes. The Lexi-Data database relational structure also allows for linkage of medications to more than one parent class and/or sub-class. They have found that there is no need, as yet, for more than three parent or top tier classes for any given medication or the sub- or sub-sub-classes for any given parent class. We relied on this inherent ordering when assigning a second parent class or sub-class to a given medication. Three sets of variables were created to indicate therapeutic class and position within the hierarchy. They are named and labeled according to the conventions described above in addition the "#" represents a digit from 1-3:

```
__TC# – Lexi-Data major therapeutic class codes
__TC#S# – Lexi-Data Sub-class codes for major therapeutic classes
__TC#S#_1 – Lexi-Data Sub-sub-class codes for major therapeutic classes
```

See Section F, Appendix C for a list of therapeutic class codes and category names.

Assigning TC Codes

All the matched MIDUS Refresher medications were assigned to at least one TC class (__TC#) and at least one sub-class (__TC#S#), with about 48% also assigned to at least one sub-sub-class (__TC#S#_1). The TC codes begin at 1 and range into the 400's, but the codes are not rank ordered. In many instances the top tier code has the lowest value and the third tier has the highest but for some medications (example #2 Atorvastatin below), the value for the top parent category is much higher than the values for the child classes.

Examples:

- 1. Hydrochlorothiazide (HCTZ):
 - a. TC1 (Parent/Grandparent): 40 = Cardiovascular Agents
 - b. __TC1S1 (Child/Sub-category): 49 = Diuretics
 - c. __TC1S1_1 (Child/Sub-Sub category): 156 = Thiazide and Thiazide Like Diuretics
- 2. Atorvastatin
 - a. TC1 (Parent/Grandparent): 358 = Metabolic Agent
 - b. __TC1S1 (Child/Sub-category): 19 = Antihyperlipidemic Agents
 - c. TC1S1 1 (Child/Sub-Sub category): 173 = HMG COA Reductase Inhibitors

Assigning PC Codes

The Pharmacologic Classification (PC) system is flat and does not include parent/child relationships, but drugs can be assigned to multiple pharmacologic categories. MIDUS Refresher medications can be assigned up to 6 PC categories, thus we created a set of 6 variables named and labeled according to the following convention, where the final digit is a value from 1-6:

```
__PC_ – Lexi-Data pharmacologic class codes
```

When a medication is assigned to more than one pharmacologic category, the codes are assigned in numeric order. For example, Tribenzor a blood pressure medication is assigned to six pharmacologic categories as follows

```
__PC1 - 958 = Angiotensin II Receptor Blocker
__PC2 - 971 = Antianginal Agent
__PC3 - 1156 = Antihypertensive
__PC4 - 1313 = Calcium Channel Blocker
__PC5 - 1439 = Diuretic, Thiazide
__PC6 - 1797080 = Calcium Channel Blocker, Dihydropyridine
```

See Appendix C for a list of pharmacologic class codes and category names.

TC and PC Codes for Combination Medications

The Multum Therapeutic classification system also includes codes for prescription combination medications (i.e. medications containing more than one active ingredient). The TC codes for a given active ingredient in the combination include the relevant codes for when it is used alone as well as when it is used combination with another active ingredient. All the relevant pharmacologic codes were assigned; thus, they may be more informative for combination medications.

For example, Hydrochlorothiazide is an active ingredient that is used to treat blood pressure. It can be used alone or in combination with other active ingredients.

```
    When used alone it is assigned to TC & PC classes as follows:

            a. __TC1 (Parent/Grandparent): 40 = Cardiovascular Agents
            b. __TC1S1 (Child/Sub category): 49 = Diuretics
            c. __TC1S1_1 (Child/Sub-Sub category): 156 = Thiazide and Thiazide Like Diuretics
            d. __PC1: 1156 = Antihypertensive
            e. PC2: 1439 = Diuretic, Thiazide
```

- 2. When used in combination with other medications (i.e. Lisinopril, Losartan, Triamterene etc.) it is assigned to TC & PC classes as follows:
 - a. Hydrochlorothiazide-Lisinopril
 i. __TC1 (Parent/Grandparent): 40 = Cardiovascular Agents
 ii. __TC1S1 (Child/Sub category): 55 = Antihypertensive Combinations
 iii. __TC1S1_1 (Child/Sub-Sub category): 467 = ACE Inhibitors with Thiazides
 iv. __PC1: 957 = Angiotensin-Converting Enzyme ACE Inhibitor
 v. __PC2: 1156 = Antihypertensive
 vi. __PC3: 1439 = Diuretic, Thiazide
 - b. Hydrochlorothiazide-Losartan or Hydrochlorothiazide-Valsartani. __TC1 (Parent/Grandparent): 40 = Cardiovascular Agents
 - ii. __TC1S1 (Child/Sub category): 55 = Antihypertensive Combinations
 - iii. __TC1S1_1 (Child/Sub-Sub category): 473=Angiotensin II Inhibitors with Thiazides
 - iv. __PC1: 958 = Angiotensin II Receptor Blocker
 - v. __PC2: 1156 = Antihypertensive
 - vi. __PC3: 1439 = Diuretic, Thiazide
 - c. Hydrochlorothiazide-Triamterene
 - TC1 (Parent/Grandparent): 40 = Cardiovascular Agents
 - ii. TC1S1 (Child/Sub category): 55 = Antihypertensive Combinations
 - iii. __TC1S1_1 (Child/Sub-Sub category): 475=Potassium Sparing Diuretics with Thiazide
 - iv. __PC1: 1156 = Antihypertensive
 - v. PC2: 1438 = Diuretic Potassium Sparing
 - vi. PC3: 1439 = Diuretic, Thiazide

Assigning TC Codes to UnMatched Medications

A central objective of the coding task was to be as precise as possible based on the supporting information available. Thus, UnMatched medications were assigned to all possible classes based on:

- 1. Ingredient lists if individual ingredients appear in the Lexi-Data, this information is used to determine therapeutic class assignment.
- 2. Results of internet searches (e.g. intended use)
- 3. Information provided by study participants (e.g. route of administration and why participant is taking the medication)

The following rules that guided this process in combination with a glossary of terms (see below) that was created as a resource for use in making decisions about therapeutic class assignments.

Decision rules for linking Therapeutic Class (TC) codes to the UNMatched medications UnMatched medications were reviewed and assigned TC codes according to the following guidelines.

- 1. If the medication contains a *single* ingredient:
 - a. Assign the appropriate Generic Medication name if possible
 - b. If not possible, assign the appropriate class code to as great a level of specificity as possible. For example:
 - i. Alfalfa TC1 = Alternative Medications; TC1S1 = Herbal Products
 - ii. Silica –TC1= Nutritional Products; TC1S1=Minerals and Electrolytes
- 2. If the medication contains *multiple* ingredients **and**:
 - a. All ingredients belong to a single therapeutic class, <u>and</u> the combination cannot be linked to a generic name, assign that Therapeutic Class code. For example:
 - i. Cayenne Golden Seal (Cayenne Pepper and other herbs) TC1 = Alternative Medications; TC1S1 = Herbal Products
 - ii. Magnesium with Zinc TC1= Nutritional Products; TC1S1=Minerals and Electrolytes

OR

- b. Ingredients belong to 2 or more therapeutic classes then specify all appropriate classes:
 - i. Nu-Zimes TC1= Gastrointestinal Agents; TC1S1=Digestive Enzyme and TC2=Alternative Medications; TC2S1=Probiotics
 - ii. Estroven TC1=Alternative Medications; TC1S1=Nutraceutical Products; TC1S2=Herbal Products
- 3. Additional Rules: MIDUS project staff coded the UnMatched medications and then the codes were reviewed by Dr. David Kiefer. The following rules were implemented based on that review and subsequent discussion with Dr. Gayle Love.
 - a. Oils (e.g. borage, black currant, etc.) are classified as both Herbals and Nutraceuticals if they are derived from plants.
 - b. Chlorella is an alga, but algae are not plants, thus medications containing Chlorella should be classified as Nutraceuticals.
 - c. Silver is a metal, not a mineral, thus it should be classified as a Nutraceutical.
 - d. Quercitin should be classified as an Herbal, as well as a Nutraceutical if it is derived from a plant.
 - e. Foods (e.g. Vinegar, Maitake mushrooms, juices) are assigned to one or more therapeutic class if dose (i.e. reported in mg, capsule, tablespoons, ounces etc.) and reason for taking confirm medicinal use.

f. Homeopathic remedies are classified as Alternative Medicines. Homeopathy seeks to stimulate the body's ability to heal itself by giving very small doses of highly diluted substances. This therapeutic method was developed by German physician Samuel Christian Hahnemann at the end of the 18th century. Homeopathic remedies are derived from natural substances that come from plants minerals, or animals. Common remedies include red onion, arnica (mountain herb), and stinging nettle plant. (downloaded on 4-3-12 from http://nccam.nih.gov/health/homeopathy)

Glossary of Terms

Most of UnMatched medications were reported as Alternative medication, thus a glossary of terms was created as a resource for use in assigning therapeutic class codes. The website for the National Center for Complementary and Alternative Medicine (NCCAM; http://nccam.nih.gov/health) was a primary resource for these definitions. If relevant information was not available through NCCAM, information was obtained through internet searches using the search engine GoogleTM (www.google.com) that typically led to one or more of the following websites.

- U.S. Food and Drug Administration: http://www.fda.gov
- American Association of Clinical Endocrinologists: https://www.aace.com/sites/default/files/Nutraceuticals2003.pdf
- Medical Dictionary: http://medical-dictionary.thefreedictionary.com
- UC Berkeley Wellness Newsletter: http://www.wellnessletter.com
- Wikipedia: http://en.wikipedia.org/wiki

<u>Dummy and Count Variables for Therapeutic and Pharmacologic Classes</u>

In addition to the therapeutic and pharmacologic class code variables described above, we also created a set of dummy and count variables for commonly used categories of medications. To facilitate comparison with other studies such as AHRQ and NSHAP we created these dummy variables for the most frequently occurring therapeutic classes represented in the major class variables (__TC#) and the sub-class variables (__TC#S#) as well as the pharmacologic class variables (__PC#).

After identifying the set of TC and PC classes for which dummy variables would be created, count variables were generated to determine how many medications in a given class a given individual was taking. The count variables were created for the primary parent TC classes (__TC#), but they were not created for the TC Sub-classes (second tier). Note, these count variables are only included in the larger aggregate flat file, they are not included in the stacked file.

The variable names for these dummies incorporate the first 5-6 characters of the corresponding TC and PC variables as well as the numeric code for the TC or PC class. The variable label incorporates both the TC or PC class code and the category name. If a count variable was also created, then an "N" is added as the final character to the dummy variable name. For example a common parent (top tier) therapeutic class is 115=Nutritional Products. The dummy and count variables for this TC class are named/labeled as follows:

Dummy variable: __TC_115 = 'Multum Therapeutic Class 115 – nutritional products: YES/NO?'

Count variable: __TC_115_N = 'Multum Therapeutic Class 115 – nutritional products: HOW MANY?'

SECTION E: CODING REASONS FOR TAKING MEDICATION

The final piece of information recorded about a medication is the participant's response to the question "Why are you taking it?" Responses to this question were recorded verbatim to capture the participants understanding of why they think they are taking the medication. Many people were able to name specific conditions or diseases (high blood pressure, diabetes, asthma, arthritis etc.) as the reason for taking a medication, but others gave more general response (i.e. bone health, heart health, etc.). In addition, many people reported taking medications "to maintain health", "because Dr./Spouse/Friend/etc. recommended it" and so on.

Codes for reasons for taking medication were included in the MIDUS Refresher Biomarker data in the 2017 original public release. Each response was coded into one of two mutually exclusive categorical codes using a combination of more traditional procedures for coding text data and the IBM SPSS Text Analytics for Surveys described below. One code is based on the International Disease Classification Codes, Version 9 (ICD-9) and the other was developed by MIDUS, to supplement the cases could not be classified into existing ICD-9 codes.

In 2023, when coding MIDUS 3 medication data, ICD-10 classification were used. In this update release of MIDUS Refresher biomarker data, we added the ICD-10 codes, in additional to previously available ICD-9 codes, making MIDUS Refresher data more comparable to MIDUS 3 data.

NOTE: the codes assigned are based on the participant's report of why they are taking a given medication. In some instances, those reasons may not correspond to the reason that a clinician prescribed or recommended a medication.

Now, two sets of mutually exclusive reason codes were developed for inclusion in the data file. These variables are included in both the stacked medication file and the larger flat aggregated data files.

- 1. The first two variable set, **_ICD9M** and **_MDC9**, available in 2017 release and continue to be available in 2023 release.
 - a. _ICD9M 3-digit numeric codes representing major categories in the International Classification of Diseases, 9th Revision. This is in contrast to the full 5 digit codes ICD-9 codes reported in clinical settings. The MIDUS text data are subjective reports from participants thus we adopted the more conservative approach of coding to more general categories that clearly included the specific disease/condition/symptom reported by the participant.
 - The ICD9M codes correspond to the first 3 digits in the 5-digit ICD-9 codes.
 The value/category labels attached to the codes are based on the ICD-9 code labels.
 - ii. A primary resource for this coding was the free online searchable ICD-9 database created by Alkaline Software: http://www.icd9data.com/
 - b. _MDC9 5-character alphanumeric codes developed by MIDUS. These codes were assigned when a given reason for taking a medication could not be classified into an ICD-9 category. These variables were named as _MDC in previous release. There were renamed as _MDC9 in current release to distinguish with the supplement MIDUS diagnose code to ICD-10 codes. In general, a MIDUS code was assigned when:
 - i. The reason was too generic/vague to be assigned to a specific ICD-9 category. Examples include "Stress" or "Stomach Acid" which were reported often enough that they have their own MIDUS category.

- ii. The medication was taken for preventive purposes rather than to treat an existing condition. For example 'family history of heart disease' or 'Detox' or 'Boost immune system' or 'Brain health', etc.
- iii. The medication was taken because it was recommended by a clinician, family member or friend, or has been reported in some venue (i.e. T.V., news, etc.) as being a 'Good thing to do".
- iv. Some reasons could not be assigned to any of the MIDUS categories or ICD10M categories were designated as "Unable to Classify'.
- v. Because of this, while the categories are mutually exclusive, Unable to Classify cases may be identified under both variables.
- 2. The second mutually exclusive two variable set of diagnose codes, **_ICD10M** and **_MDC10**, are newly added in 2023 update release. Besides using ICD-10 code instead of ICD-9, same coding rules are used as the first set of diagnose variables.
 - a. _ICD10M 3-character alphanumeric codes representing major categories in the International Classification of Diseases, 10th Revision.
 - b. _MDC10 5-character alphanumeric codes developed by MIDUS, same as _MDC9, used to categorize reasons for taking a medication that could not be classified into an ICD-10 category.
- 3. **MISSING VALUES** Two sets of variables are both mutually exclusive, as MDC codes are supplements for ICD codes, with the exception of missing values, for which the reason was "Don't Know" or "Missing". In these situations, same missing value codes were used for both ICD codes and MDC codes.
 - a. For numeric variable ICD9M:
 - o 9996 Unable to Classify
 - o 9997 Don't know
 - o 9998 Missing
 - 9999 INAPP
 - b. For string variables ICD10M, MDC9, MDC10:
 - Z9996 Unable to Classify
 - o Z9997 Don't Know
 - o Z9998 Missing
 - Z9999 INAPP

SECTION F: APPENDICES

Appendix A: Sample Completed Medication Chart

PRESCRIPTION MEDICATION

Site # 2 D# 12345

Date 3/25/04

of prescription medications? 3

Drug code	Drug name and dosage	Route	Frequency	Taken for how long?	Why are you taking it?	Diagnosis code
	Colohrex 100mg	Po	BID	Zmos	arthritis	
	3uithorid, 75 mcg	Po	QD	2415	thy soid.	
	23yrthroid 75mcg Nasoney Zaprays	inh	Q D	6mos	arthritis hypo- thyroid allergies	
	4.					
	5.					
	6.					
	7.					
	8.					
	9.					
	10.					
	II.					

NON-PRESCRIPTION MEDICATION

(Over the Counter)

of non-prescription medications? __

Site #_ 2 ID#_ 12345 Date_ 3125/04_

Drug code	Drug name and dosage	Route	Frequency	Taken for how long?	Why are you taking it?	Diagnosis code
	1. Multiple vitamin (Y) N	90	QD	5 415	gen health	
	2. Calcium Y					
	3. aspirin 8/mg	PO	QD	bnios	heart	
	Vit C 500mg	PO	QD	5y1s	generalth	
	Tylenol 1000mg	PO	PRN	54s	headache	
	Metamucil 1 Tosp	PD	QD	bmos	Supplement	
	7.					
	8.					
	9			0		
	10.					

ALTERNATIVE MEDICATIONS (herbal, homeopathic, etc.)		Site #	1D# 12242
# of alternative medications? _	2	Date_3	125/04

Drug code	Drug name and dosage	Route	Frequency	Taken how long?	Why are you taking it?	Diagnosis code
	16/4 cosamine Sultater 1500mg	PO	TID	Tyr	arthritis	
	2. Zcaps Immune Aide	PO	BID	2415	allergies	
	3.					
	4.					

MEDICATION ALLERGIES Does R have any medication allergies? (circle one) No Yes,

Drug code	Drug name	Reaction
	penicillin	whes
	2 Codeine	halluainations
	3.	
	4.	

Appendix B: Generic Medication Names and DrugIDs

The following lists the Lexi-Data DrugIDs and Generic Names in the MIDUS Refresher 1 data files. The list is in order by DrugID.

DRUG_ID	GENERIC_NAME
d00001	acyclovir
d00004	atenolol
d00011	ciprofloxacin
d00012	codeine
d00013	enalapril
d00015	ibuprofen
d00016	labetalol
d00018	nadolol
d00019	naproxen
d00021	ranitidine
d00022	warfarin
d00023	allopurinol
d00024	azaTHIOprine
d00025	chloramphenicol
d00028	ketoprofen
d00031	probenecid
d00032	propranolol
d00037	doxycycline
d00039	indomethacin
d00043	clindamycin
d00044	cloNIDine
d00045	diltiazem
d00048	verapamil
d00049	acetaminophen
d00050	methadone
d00051	NIFEdipine
d00056	cefuroxime
d00058	carBAMazepine
d00060	methotrexate
d00061	lithium
d00069	tobramycin
d00070	furosemide
d00083	valproic acid
d00084	prednisoLONE
d00088	amoxicillin
d00089	amoxicillin-clavulanate

DRUG_ID	GENERIC_NAME
d00091	azithromycin
d00096	cephalexin
d00106	methenamine
d00110	minocycline
d00112	nitrofurantoin
d00124	sulfamethoxazole-trimethoprim
d00132	hydrALAZINE
d00134	metoprolol
d00135	minoxidil
d00137	pindolol
d00141	famotidine
d00142	theophylline
d00143	phenytoin
d00144	nortriptyline
d00145	desipramine
d00146	amitriptyline
d00148	diazepam
d00149	LORazepam
d00150	colchicine
d00168	ALPRAZolam
d00170	aspirin
d00175	benztropine
d00179	bumetanide
d00181	buPROPion
d00182	busPIRone
d00191	chlorpheniramine
d00192	chlorthalidone
d00193	cholestyramine
d00197	clonazePAM
d00207	dextromethorphan
d00210	digoxin
d00212	diphenhydrAMINE
d00227	ethosuximide
d00231	felodipine
d00233	fentaNYL
d00234	flecainide

DRUG_ID	GENERIC_NAME
d00236	FLUoxetine
d00241	folic acid
d00242	fosinopril
d00245	gemfibrozil
d00246	glipiZIDE
d00248	glyBURIDE
d00253	hydrochlorothiazide
d00255	HYDROmorphone
d00259	imipramine
d00260	indapamide
d00262	insulin
d00268	isosorbide dinitrate
d00269	isosorbide mononitrate
d00273	ketorolac
d00275	leucovorin
d00278	levothyroxine
d00280	lovastatin
d00284	medroxyPROGESTERone
d00289	mercaptopurine
d00293	methylPREDNISolone
d00298	metoclopramide
d00308	morphine
d00314	niacin
d00316	nicotine
d00321	nitroglycerin
d00325	omeprazole
d00328	oxybutynin
d00329	oxyCODONE
d00336	pentoxifylline
d00337	phenazopyridine
d00340	PHENobarbital
d00345	potassium chloride
d00348	pravastatin
d00352	primidone
d00355	prochlorperazine
d00358	propafenone
d00363	pyridostigmine
d00365	quinapril
d00370	octreotide
d00371	sotalol

DRUG_ID	GENERIC_NAME
d00373	spironolactone
d00377	sucralfate
d00379	sulfaSALAzine
d00384	temazepam
d00386	terazosin
d00395	traZODone
d00397	triazolam
d00402	vitamin A
d00405	vitamin E
d00409	riboflavin
d00412	pyridoxine
d00413	cyanocobalamin
d00417	bioflavonoids
d00425	calcium carbonate
d00426	ascorbic acid
d00427	potassium phosphate-sodium phosphate
d00440	sodium bicarbonate
d00484	selenium
d00488	lysine
d00491	levOCARNitine
d00496	inositol
d00497	omega-3 polyunsaturated fatty acids
d00537	estradiol
d00541	conjugated estrogens
d00543	estropipate
d00550	progesterone
d00557	levonorgestrel
d00558	testosterone
d00563	finasteride
d00572	chorionic gonadotropin (HCG)
d00578	arginine
d00595	glucose
d00598	calcitonin
d00608	fludrocortisone
d00620	triamcinolone
d00651	urea topical
d00655	thyroid desiccated
d00658	liothyronine
d00683	lidocaine topical

DRUG_ID	GENERIC_NAME
d00689	amLODIPine
d00699	EPINEPHrine
d00701	mephentermine
d00704	phenylephrine
d00726	doxazosin
d00728	ramipril
d00730	benazepril
d00732	lisinopril
d00746	simvastatin
d00749	albuterol
d00760	beclomethasone
d00761	flunisolide
d00769	pseudoephedrine
d00771	naphazoline ophthalmic
d00772	oxymetazoline nasal
d00773	tetrahydrozoline ophthalmic
d00787	promethazine
d00797	guaiFENesin
d00817	hydroxychloroquine
d00848	diclofenac
d00851	etodolac
d00855	perphenazine
d00859	meclizine
d00861	dimenhyDRINATE
d00867	ondansetron
d00880	sertraline
d00900	methylphenidate
d00907	hydrOXYzine
d00910	zolpidem
d00960	carisoprodol
d00963	cyclobenzaprine
d00964	metaxalone
d00965	methocarbamol
d00967	baclofen
d00986	scopolamine
d00999	dicyclomine
d01003	pancreatin
d01005	ursodiol
d01008	magnesium citrate
d01013	senna

DRUG_ID	GENERIC_NAME
d01017	polycarbophil
d01018	psyllium
d01021	docusate
d01025	loperamide
d01026	bismuth subsalicylate
d01027	simethicone
d01031	mesalamine
d01133	immune globulin intravenous
d01231	chlorhexidine topical
d01233	nystatin
d01244	tretinoin topical
d01267	mupirocin topical
d01272	ciclopirox topical
d01274	tolnaftate topical
d01288	clobetasol topical
d01290	desonide topical
d01291	desoximetasone topical
d01293	fluocinolone topical
d01294	fluocinonide topical
d01296	fluticasone
d01300	mometasone topical
d01321	capsaicin topical
d01322	aluminum chloride hexahydrate topical
d01373	hydroxyurea
d01406	naltrexone
d01407	flumazenil
d01423	potassium citrate
d03050	loratadine
d03052	hydrochlorothiazide-triamterene
d03075	HYDROcodone
d03126	calcitriol
d03128	ergocalciferol
d03129	cholecalciferol
d03130	thiamine
d03137	calcium-vitamin D
d03140	multivitamin
d03145	multivitamin with minerals
d03148	multivitamin, prenatal
d03154	doxylamine
d03157	PARoxetine

DRUG_ID	GENERIC_NAME
d03160	SUMAtriptan
d03180	risperiDONE
d03181	venlafaxine
d03182	gabapentin
d03189	torsemide
d03191	terbinafine topical
d03195	miconazole topical
d03197	betamethasone topical
d03200	erythromycin topical
d03202	ketoconazole topical
d03204	fluorouracil topical
d03205	hydrocortisone topical
d03206	triamcinolone topical
d03208	metroNIDAZOLE topical
d03210	selenium sulfide topical
d03221	prednisoLONE ophthalmic
d03226	saliva substitutes
d03238	ethinyl estradiol-norethindrone
d03242	ethinyl estradiol-levonorgestrel
d03247	hydrochlorothiazide- spironolactone
d03258	atenolol-chlorthalidone
d03265	benazepril-hydrochlorothiazide
d03266	hydrochlorothiazide-lisinopril
d03292	ibuprofen-pseudoephedrine
d03296	acetaminophen-chlorpheniramine
d03342	APAP/dextromethorphan/pseudo
u03342	ephedrine
d03349	acetaminophen/dextromethorpha n/doxylamine/PSE
d03357	codeine-promethazine
d03359	chlorpheniramine- dextromethorphan
d03360	dextromethorphan-promethazine
d03389	estradiol-testosterone
d03393	codeine-guaifenesin
d03400	dextromethorphan-guaifenesin
d03423	acetaminophen-codeine
d03428	acetaminophen-HYDROcodone
d03431	acetaminophen-oxyCODONE
d03432	aspirin-oxycodone
d03439	APAP/ASA/caffeine

DRUG_ID	GENERIC_NAME
d03445	acetaminophen-
d03455	diphenhydrAMINE APAP/butalbital/caffeine
d03456	acetaminophen-butalbital
	APAP/dichloralphenazone/isomet
d03459	heptene
d03473	carbidopa-levodopa
d03496	docusate-senna
-100547	benzoic
d03517	acid/methenamine/sodium salicylate
d03524	bacitracin/neomycin/polymyxin B topical
d03536	dexamethasone-tobramycin ophthalmic
d03561	betamethasone-clotrimazole topical
d03640	budesonide nasal
d03644	lactobacillus acidophilus
d03650	candida albicans extract
d03655	lidocaine-prilocaine topical
d03663	lecithin
d03664	phenol topical
d03665	menthol topical
d03668	methyl salicylate topical
d03740	enalapril-hydrochlorothiazide
d03744	bisoprolol-hydrochlorothiazide
d03752	tacrolimus
d03756	bacitracin topical
d03759	salmeterol
d03768	ocular lubricant
d03770	emollients, topical
d03781	ethinyl estradiol-norgestimate
d03782	desogestrel-ethinyl estradiol
d03789	potassium gluconate
d03797	magnesium oxide
d03805	dorzolamide ophthalmic
d03807	metFORMIN
d03808	nefazodone
d03809	lamoTRIgine
d03818	loratadine-pseudoephedrine
d03819	conjugated estrogens- medroxyPROGESTERone
d03821	losartan

DRUG_ID	GENERIC_NAME
d03822	ferrous gluconate
d03824	ferrous sulfate
d03826	traMADol
d03827	cetirizine
d03828	lansoprazole
d03829	amLODIPine-benazepril
d03830	hydrochlorothiazide-losartan
d03833	divalproex sodium
d03838	valACYclovir
d03839	mycophenolate mofetil
d03847	carvedilol
d03849	alendronate
d03858	lamiVUDine
d03864	glimepiride
d03866	calcium citrate
d03873	anastrozole
d03879	cannabis (Schedule I substance)
d03884	trolamine salicylate topical
d03898	sodium chloride, hypertonic, ophthalmic
d03984	ritonavir
d03990	carbamide peroxide otic
d04012	terbinafine
d04015	adapalene topical
d04017	latanoprost ophthalmic
d04025	mirtazapine
d04029	nevirapine
d04035	amphetamine- dextroamphetamine
d04037	timolol ophthalmic
d04040	fexofenadine
d04047	midodrine
d04048	brimonidine ophthalmic
d04050	OLANZapine
d04052	pentosan polysulfate sodium
d04056	zinc gluconate
d04058	melatonin
d04063	butenafine topical
d04066	albuterol-ipratropium
d04068	azelastine nasal
d04099	donepezil

DRUG_ID	GENERIC_NAME
d04101	ivermectin
d04102	tiZANidine
d04105	atorvastatin
d04111	glatiramer
d04113	valsartan
d04115	topiramate
d04117	olopatadine ophthalmic
d04121	tamsulosin
d04125	imiquimod topical
d04142	chromium picolinate
d04145	pramipexole
d04156	letrozole
d04168	acetaminophen/diphenhydramine /pseudoephedrine
d04186	phenylephrine nasal
d04197	hydrocortisone/neomycin/polymy xin B topical
d04210	estradiol topical
d04213	progesterone topical
d04215	rOPINIRole
d04219	lamivudine-zidovudine
d04220	QUEtiapine
d04223	mometasone nasal
d04233	triamcinolone nasal
d04235	ipratropium nasal
d04241	potassium chloride-sodium chloride
d04242	sodium chloride nasal
d04248	methylcellulose
d04253	ZOLMitriptan
d04258	clopidogrel
d04270	fexofenadine-pseudoephedrine
d04271	diclofenac-misoprostol
d04273	testosterone topical
d04275	beclomethasone nasal
d04276	budesonide
d04283	fluticasone nasal
d04286	fenofibrate
d04289	montelukast
d04292	loteprednol ophthalmic
d04293	hydrochlorothiazide-valsartan
d04294	tolterodine

DRUG_ID	GENERIC_NAME
d04299	sildenafil
d04303	dorzolamide-timolol ophthalmic
d04322	candesartan
d04328	rizatriptan
d04332	citalopram
d04342	inFLIXimab
d04349	leflunomide
d04362	copper gluconate
d04364	telmisartan
d04370	insulin isophane
d04373	insulin lispro
d04375	estradiol-norethindrone
d04376	abacavir
d04378	modafinil
d04380	celecoxib
d04396	conjugated estrogens topical
d04399	nystatin topical
d04407	echinacea
d04408	St. John's wort
d04411	garlic
d04412	ginseng
d04413	ginkgo
d04414	ginger
d04415	saw palmetto
d04416	valerian
d04418	glucosamine
d04420	chondroitin-glucosamine
d04421	evening primrose
d04425	dehydroepiandrosterone
d04426	red yeast rice
d04427	levalbuterol
d04429	orlistat
d04442	pioglitazone
d04448	RABEprazole
d04452	zaleplon
d04459	dofetilide
d04461	exemestane
d04466	milk thistle
d04470	cranberry
d04472	black cohosh

DRUG_ID	GENERIC_NAME
d04477	slippery elm
d04481	royal jelly
d04487	peppermint
d04488	lavender
d04490	green tea
d04491	flax
d04499	levETIRAcetam
d04509	hydrochlorothiazide-quinapril
d04513	OXcarbazepine
d04514	pantoprazole
d04521	nettles
d04523	ubiquinone
d04527	zonisamide
d04532	meloxicam
d04538	insulin glargine
d04541	azelastine ophthalmic
d04572	formoterol
d04611	fluticasone-salmeterol
d04695	colesevelam
d04697	insulin aspart
d04702	docosanol topical
d04703	glyBURIDE-metFORMIN
d04722	diclofenac topical
d04723	calcium carbonate/famotidine/Mg hydroxide
d04737	hydrochlorothiazide-telmisartan
d04747	ziprasidone
d04749	esomeprazole
d04753	travoprost ophthalmic
d04754	bimatoprost ophthalmic
d04760	drospirenone-ethinyl estradiol
d04764	cetirizine-pseudoephedrine
d04765	hydrocortisone-lidocaine topical
d04766	acetaminophen-traMADol
d04773	ethinyl estradiol-etonogestrel
d04784	pimecrolimus topical
d04785	desloratadine
d04788	dutasteride
d04795	budesonide-formoterol
d04797	alfuzosin
d04801	olmesartan

DRUG_ID	GENERIC_NAME
d04806	sodium oxybate
d04812	escitalopram
d04815	eplerenone
d04819	buprenorphine-naloxone
d04823	glipiZIDE-metFORMIN
d04824	ezetimibe
d04825	ARIPiprazole
d04829	tiotropium
d04835	adalimumab
d04836	cycloSPORINE ophthalmic
d04839	insulin aspart-insulin aspart protamine
d04844	camphor-menthol topical
d04849	eletriptan
d04851	rosuvastatin
d04857	gatifloxacin ophthalmic
d04860	moxifloxacin ophthalmic
d04875	betaine
d04881	omalizumab
d04882	atazanavir
d04893	vardenafil
d04896	tadalafil
d04899	memantine
d04929	trospium
d05027	estriol
d05234	hyaluronan
d05265	nebivolol
d05283	brimonidine-timolol ophthalmic
d05348	ezetimibe-simvastatin
d05350	polyethylene glycol 3350
d05352	emtricitabine-tenofovir
d05355	DULoxetine
d05357	ibandronate
d05413	solifenacin
d05414	natalizumab
d05421	eszopiclone
d05436	insulin detemir
d05471	alpha-D-galactosidase
d05508	pregabalin
d05529	exenatide
d05637	lactobacillus rhamnosus GG

DRUG_ID	GENERIC_NAME	
d05646	saccharomyces boulardii lyo	
d05702	methylsulfonylmethane	
d05703	chondroitin/glucosamine/methyls ulfonylmethane	
d05719	ranolazine	
d05776	iodine	
d05807	varenicline	
d05819	diphenhydrAMINE-ibuprofen	
d05825	darunavir	
d05847	efavirenz/emtricitabine/tenofovir	
d05851	levocetirizine	
d05896	sitaGLIPtin	
d05899	ciclesonide nasal	
d05964	aloe vera	
d06214	collagen	
d06297	paliperidone	
d06370	turmeric	
d06507	cinnamon	
d06649	calcium carbonate-magnesium chloride	
d06655	alpha-lipoic acid	
d06663	lisdexamfetamine	
d06720	metFORMIN-sitaGLIPtin	
d06833	acetaminophen-aspirin	
d06842	armodafinil	
d06848	lutein	
d06852	maraviroc	
d06867	biotin	
d06905	amlodipine-olmesartan	
d07048	raltegravir	
d07076	etravirine	
d07113	desvenlafaxine	
d07137	dabigatran	
d07315	glutamine	
d07347	bifidobacterium infantis	
d07349	lacosamide	
d07356	rivaroxaban	
d07373	d-xylitol	
d07374	bimatoprost topical ophthalmic	
d07395	dexlansoprazole	
d07397	febuxostat	

DRUG_ID	GENERIC_NAME	
d07400	bifidobacterium-lactobacillus	
d07409	prasugrel	
d07466	liraglutide	
d07482	bepotastine ophthalmic	
d07637	pitavastatin	
d07639	acetaminophen/CPM/dextrometh orphan/GG	
d07640	denosumab	
d07645	onabotulinumtoxinA	
d07659	caffeine-magnesium salicylate	
d07660	formoterol-mometasone	
d07668	amlodipine/hydrochlorothiazide/ol mesartan	
d07705	lurasidone	
d07709	metformin-saxagliptin	
d07717	acyclovir-hydrocortisone topical	
d07740	vilazodone	
d07764	famotidine-ibuprofen	
d07767	linagliptin	
d07804	apixaban	
d07831	tyrosine	
d07876	mirabegron	
d07885	aclidinium	
d07891	icosapent	
d07902	linaclotide	
d07905	teriflunomide	
d07921	capsaicin-menthol topical	
d08070	ospemifene	
d08079	dimethyl fumarate	
d08080	canagliflozin	
d08117	dolutegravir	
d08187	umeclidinium	
d08272	tavaborole topical	
d08275	empagliflozin	
d08349	diphenhydramine-naproxen	
d08362	olodaterol-tiotropium	
d99999	Unmatched, no generic name	

Appendix C: Therapeutic and Pharmacologic Class Codes and Names

This Appendix contains two lists 1) Therapeutic Class (TC) codes and category names, and 2) Pharmacologic Class (PC) codes and categories included in the MIDUS Refresher 1 data files. Therapeutic Class Codes and Names

The Therapeutic Classification (TC) system has three tiers consisting of a set of nested (parent-child) categories that parallels the ways in which clinicians think about medications. The system is poly-hierarchical and each therapeutic class has a unique code. See Section B above for details. The list below is organized in nested numeric order. The top tier (Parent/Grandparent) class codes are in the leftmost column. All middle tier (Parent/Child) class codes are listed under their middle tier "Parent" codes. All category names are listed in the rightmost column. Color coding is used to help illustrate the relationships among the therapeutic classes.

Multum	Therapeutic	Classes

Top Tier (Parent/ Grandparent)	Middle Tier (Parent/ Child)	Bottom Tier (Child/ GrandChild)	Therapeutic Class Names
1			ANTI-INFECTIVES
	3		ANTHELMINTICS
	4		ANTIFUNGALS
		235	POLYENES
		237	MISCELLANEOUS ANTIFUNGALS
	5		ANTIMALARIAL AGENTS
		238	ANTIMALARIAL QUINOLINES
		239	MISCELLANEOUS ANTIMALARIALS
	7		ANTIVIRAL AGENTS
		175	PROTEASE INHIBITORS
		176	NRTIS
		227	NNRTIS
		229	PURINE NUCLEOSIDES
		327	ANTIVIRAL COMBINATIONS
		364	ANTIVIRAL CHEMOKINE RECEPTOR ANTAGONIST
		366	INTEGRASE STRAND TRANSFER INHIBITOR
		480	ANTIVIRAL BOOSTERS
	9		CEPHALOSPORINS
		159	FIRST GENERATION CEPHALOSPORINS
		160	SECOND GENERATION CEPHALOSPORINS
	11		MACROLIDE DERIVATIVES
		304	MACROLIDES
	12		MISCELLANEOUS ANTIBIOTICS
	13		PENICILLINS
		224	AMINOPENICILLINS
		225	PENICILLINS BETA LACTAMASE INHIBITORS
	14		QUINOLONES
			20

	Multum Therapeutic Classes		
Top Tier (Parent/ Grandparent)	Middle Tier (Parent/ Child)	Bottom Tier (Child/ GrandChild)	Therapeutic Class Names
	15		SULFONAMIDES
	16		TETRACYCLINES
	17		URINARY ANTI INFECTIVES
	18		AMINOGLYCOSIDES
	240		LINCOMYCIN DERIVATIVES
20			ANTINEOPLASTICS
	23		ANTIMETABOLITES
	24		ANTINEOPLASTIC HORMONES
28			BIOLOGICALS
	34		IN VIVO DIAGNOSTIC BIOLOGICALS
40			CARDIOVASCULAR AGENTS
	42		ANGIOTENSIN CONVERTING ENZYME INHIBITORS
	43		ANTIADRENERGIC AGENTS PERIPHERALLY ACTING
	44		ANTIADRENERGIC AGENTS CENTRALLY ACTING
	45		ANTIANGINAL AGENTS
	46		ANTIARRHYTHMIC AGENTS
		385	GROUP I ANTIARRHYTHMICS
		386	GROUP II ANTIARRHYTHMICS
		387	GROUP III ANTIARRHYTHMICS
		388	GROUP IV ANTIARRHYTHMICS
		389	GROUP V ANTIARRHYTHMICS
	47		BETA ADRENERGIC BLOCKING AGENTS
		274	CARDIOSELECTIVE BETA BLOCKERS
		275	NON-CARDIOSELECTIVE BETA BLOCKERS
	48		CALCIUM CHANNEL BLOCKING AGENTS
	49		DIURETICS
		154	LOOP DIURETICS
		155	POTASSIUM-SPARING DIURETICS
		156	THIAZIDE AND THIAZIDE-LIKE DIURETICS
	50		INOTROPIC AGENTS
	51		MISCELLANEOUS CARDIOVASCULAR AGENTS
	53		VASODILATORS
	54		VASOPRESSORS
	55		ANTIHYPERTENSIVE COMBINATIONS
		467	ACE INHIBITORS WITH THIAZIDES
		470	MISCELLANEOUS ANTIHYPERTENSIVE COMBINATIONS
	1	472	BETA BLOCKERS WITH THIAZIDES
ı	1		

Top Tier (Parent/ Grand/Parent)			Multum Thera	peutic Classes
475	(Parent/	Tier (Parent/	(Child/	Therapeutic Class Names
476			473	ANGIOTENSIN II INHIBITORS WITH THIAZIDES
AGENTS ANGIOTENSIN II INHIBITORS WITH CALCIUM CHANNEL BLOCKERS BLOCKERS			475	
179 BLOCKERS 303 ANGIOTENSIN II INHIBITORS 303 AGENTS FOR PULMONARY HYPERTENSION 340 ALDOSTERONE RECEPTOR ANTAGONISTS 433 CATECHOLAMINE VASOPRESSORS 57 CENTRAL NERVOUS SYSTEM AGENTS 58 ANALGESICS ANALGESICS ANALGESICS 60 NARCOTIC ANALGESICS 61 NONSTEROIDAL ANTI-INFLAMMATORY AGENTS 62 SALICYLATES 63 ANALGESIC COMBINATIONS 191 NARCOTIC ANALGESIC COMBINATIONS 193 ANTIMIGRAINE AGENTS 278 COX-2 INHIBITORS 64 ANTICONVULSANTS 199 HYDANTOIN ANTICONVULSANTS 200 SUCCINIMIDE ANTICONVULSANTS 201 BARBITURATE ANTICONVULSANTS 203 BENZODIAZEPINE ANTICONVULSANTS 204 MISCELLANEOUS ANTICONVULSANTS 311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS			476	AGENTS
303 AGENTS FOR PULMONARY HYPERTENSION 340			479	
340		56		ANGIOTENSIN II INHIBITORS
433		303		AGENTS FOR PULMONARY HYPERTENSION
57 CENTRAL NERVOUS SYSTEM AGENTS 58 ANALGESICS 60 MISCELLANEOUS ANALGESICS 60 NARCOTIC ANALGESICS 61 NONSTEROIDAL ANTI-INFLAMMATORY AGENTS 62 SALICYLATES 63 ANALGESIC COMBINATIONS 191 NARCOTIC ANALGESIC COMBINATIONS 193 ANTIMIGRAINE AGENTS 278 COX-2 INHIBITORS 64 ANTICONVULSANTS 199 HYDANTOIN ANTICONVULSANTS 200 SUCCINIMIDE ANTICONVULSANTS 201 BARBITURATE ANTICONVULSANTS 203 BENZODIAZEPINE ANTICONVULSANTS 204 MISCELLANEOUS ANTICONVULSANTS 311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS		340		ALDOSTERONE RECEPTOR ANTAGONISTS
58 ANALGESICS 59 MISCELLANEOUS ANALGESICS 60 NARCOTIC ANALGESICS 61 NONSTEROIDAL ANTI-INFLAMMATORY AGENTS 62 SALICYLATES 63 ANALGESIC COMBINATIONS 191 NARCOTIC ANALGESIC COMBINATIONS 193 ANTIMIGRAINE AGENTS 278 COX-2 INHIBITORS 64 ANTICONVULSANTS 199 HYDANTOIN ANTICONVULSANTS 200 SUCCINIMIDE ANTICONVULSANTS 201 BARBITURATE ANTICONVULSANTS 203 BENZODIAZEPINE ANTICONVULSANTS 204 MISCELLANEOUS ANTICONVULSANTS 311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS		433		CATECHOLAMINE VASOPRESSORS
59	57			CENTRAL NERVOUS SYSTEM AGENTS
60 NARCOTIC ANALGESICS 61 NONSTEROIDAL ANTI-INFLAMMATORY AGENTS 62 SALICYLATES 63 ANALGESIC COMBINATIONS 191 NARCOTIC ANALGESIC COMBINATIONS 193 ANTIMIGRAINE AGENTS 278 COX-2 INHIBITORS 44 ANTICONVULSANTS 199 HYDANTOIN ANTICONVULSANTS 200 SUCCINIMIDE ANTICONVULSANTS 201 BARBITURATE ANTICONVULSANTS 203 BENZODIAZEPINE ANTICONVULSANTS 204 MISCELLANEOUS ANTICONVULSANTS 311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS		58		ANALGESICS
61 NONSTEROIDAL ANTI-INFLAMMATORY AGENTS 62 SALICYLATES 63 ANALGESIC COMBINATIONS 191 NARCOTIC ANALGESIC COMBINATIONS 192 ANTIMIGRAINE AGENTS 278 COX-2 INHIBITORS 64 ANTICONVULSANTS 199 HYDANTOIN ANTICONVULSANTS 200 SUCCINIMIDE ANTICONVULSANTS 201 BARBITURATE ANTICONVULSANTS 203 BENZODIAZEPINE ANTICONVULSANTS 204 MISCELLANEOUS ANTICONVULSANTS 311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS			59	MISCELLANEOUS ANALGESICS
62 SALICYLATES 63 ANALGESIC COMBINATIONS 191 NARCOTIC ANALGESIC COMBINATIONS 193 ANTIMIGRAINE AGENTS 278 COX-2 INHIBITORS 64 ANTICONVULSANTS 199 HYDANTOIN ANTICONVULSANTS 200 SUCCINIMIDE ANTICONVULSANTS 201 BARBITURATE ANTICONVULSANTS 203 BENZODIAZEPINE ANTICONVULSANTS 204 MISCELLANEOUS ANTICONVULSANTS 311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS			60	NARCOTIC ANALGESICS
63 ANALGESIC COMBINATIONS 191 NARCOTIC ANALGESIC COMBINATIONS 193 ANTIMIGRAINE AGENTS 278 COX-2 INHIBITORS 64 ANTICONVULSANTS 199 HYDANTOIN ANTICONVULSANTS 200 SUCCINIMIDE ANTICONVULSANTS 201 BARBITURATE ANTICONVULSANTS 203 BENZODIAZEPINE ANTICONVULSANTS 204 MISCELLANEOUS ANTICONVULSANTS 311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS			61	NONSTEROIDAL ANTI-INFLAMMATORY AGENTS
191 NARCOTIC ANALGESIC COMBINATIONS 193 ANTIMIGRAINE AGENTS 278 COX-2 INHIBITORS 64 ANTICONVULSANTS 199 HYDANTOIN ANTICONVULSANTS 200 SUCCINIMIDE ANTICONVULSANTS 201 BARBITURATE ANTICONVULSANTS 203 BENZODIAZEPINE ANTICONVULSANTS 204 MISCELLANEOUS ANTICONVULSANTS 311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS			62	SALICYLATES
193 ANTIMIGRAINE AGENTS 278 COX-2 INHIBITORS 64 ANTICONVULSANTS 199 HYDANTOIN ANTICONVULSANTS 200 SUCCINIMIDE ANTICONVULSANTS 201 BARBITURATE ANTICONVULSANTS 203 BENZODIAZEPINE ANTICONVULSANTS 204 MISCELLANEOUS ANTICONVULSANTS 311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS			63	ANALGESIC COMBINATIONS
278 COX-2 INHIBITORS 64 ANTICONVULSANTS 199 HYDANTOIN ANTICONVULSANTS 200 SUCCINIMIDE ANTICONVULSANTS 201 BARBITURATE ANTICONVULSANTS 203 BENZODIAZEPINE ANTICONVULSANTS 204 MISCELLANEOUS ANTICONVULSANTS 311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS			191	NARCOTIC ANALGESIC COMBINATIONS
64 ANTICONVULSANTS 199 HYDANTOIN ANTICONVULSANTS 200 SUCCINIMIDE ANTICONVULSANTS 201 BARBITURATE ANTICONVULSANTS 203 BENZODIAZEPINE ANTICONVULSANTS 204 MISCELLANEOUS ANTICONVULSANTS 311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS			193	ANTIMIGRAINE AGENTS
199 HYDANTOIN ANTICONVULSANTS 200 SUCCINIMIDE ANTICONVULSANTS 201 BARBITURATE ANTICONVULSANTS 203 BENZODIAZEPINE ANTICONVULSANTS 204 MISCELLANEOUS ANTICONVULSANTS 311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS			278	COX-2 INHIBITORS
200 SUCCINIMIDE ANTICONVULSANTS 201 BARBITURATE ANTICONVULSANTS 203 BENZODIAZEPINE ANTICONVULSANTS 204 MISCELLANEOUS ANTICONVULSANTS 311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS		64		ANTICONVULSANTS
201 BARBITURATE ANTICONVULSANTS 203 BENZODIAZEPINE ANTICONVULSANTS 204 MISCELLANEOUS ANTICONVULSANTS 311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS			199	HYDANTOIN ANTICONVULSANTS
203 BENZODIAZEPINE ANTICONVULSANTS 204 MISCELLANEOUS ANTICONVULSANTS 311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS			200	SUCCINIMIDE ANTICONVULSANTS
204 MISCELLANEOUS ANTICONVULSANTS 311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS			201	BARBITURATE ANTICONVULSANTS
311 DIBENZAZEPINE ANTICONVULSANTS 345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS			203	BENZODIAZEPINE ANTICONVULSANTS
345 FATTY ACID DERIVATIVE ANTICONVULSANTS 347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS			204	MISCELLANEOUS ANTICONVULSANTS
347 GAMMA-AMINOBUTYRIC ACID ANALOGS 348 TRIAZINE ANTICONVULSANTS			311	DIBENZAZEPINE ANTICONVULSANTS
348 TRIAZINE ANTICONVULSANTS			345	FATTY ACID DERIVATIVE ANTICONVULSANTS
			347	GAMMA-AMINOBUTYRIC ACID ANALOGS
350 PYRROLIDINE ANTICONVUI SANTS			348	TRIAZINE ANTICONVULSANTS
111110212111111111111111111111111111111			350	PYRROLIDINE ANTICONVULSANTS
351 CARBONIC ANHYDRASE INHIBITOR ANTICONVULSANTS			351	CARBONIC ANHYDRASE INHIBITOR ANTICONVULSANTS
65 ANTIEMETIC ANTIVERTIGO AGENTS		65		ANTIEMETIC ANTIVERTIGO AGENTS
195 5HT3 RECEPTOR ANTAGONISTS			195	5HT3 RECEPTOR ANTAGONISTS
196 PHENOTHIAZINE ANTIEMETICS			196	PHENOTHIAZINE ANTIEMETICS
197 ANTICHOLINERGIC ANTIEMETICS			197	ANTICHOLINERGIC ANTIEMETICS
198 MISCELLANEOUS ANTIEMETICS			198	MISCELLANEOUS ANTIEMETICS
66 ANTIPARKINSON AGENTS		66		ANTIPARKINSON AGENTS

		Multum Thera	peutic Classes
Top Tier (Parent/ Grandparent)	Middle Tier (Parent/ Child)	Bottom Tier (Child/ GrandChild)	Therapeutic Class Names
		205	ANTICHOLINERGIC ANTIPARKINSON AGENTS
		276	DOPAMINERGIC ANTIPARKINSONISM AGENTS
	67		ANXIOLYTICS SEDATIVES AND HYPNOTICS
		68	BARBITURATES
		69	BENZODIAZEPINES
		70	MISCELLANEOUS ANXIOLYTICS, SEDATIVES AND HYPNOTICS
	71		CNS STIMULANTS
	73		MUSCLE RELAXANTS
		178	SKELETAL MUSCLE RELAXANTS
	80		MISCELLANEOUS CENTRAL NERVOUS SYSTEM AGENTS
	313		CHOLINESTERASE INHIBITORS
	378		DRUGS USED IN ALCOHOL DEPENDENCE
81			COAGULATION MODIFIERS
	82		ANTICOAGULANTS
		262	COUMARINS AND INDANEDIONES
		283	THROMBIN INHIBITORS
		285	FACTOR XA INHIBITORS
	83		ANTIPLATELET AGENTS
		211	PLATELET AGGREGATION INHIBITORS
	85		MISCELLANEOUS COAGULATION MODIFIERS
87			GASTROINTESTINAL AGENTS
	88		ANTACIDS
	90		ANTIDIARRHEALS
	91		DIGESTIVE ENZYMES
	92		GALLSTONE SOLUBILIZING AGENTS
	93		GI STIMULANTS
	94		H2 ANTAGONISTS
	95		LAXATIVES
	96		MISCELLANEOUS GI AGENTS
	272		PROTON PUMP INHIBITORS
	277		5 AMINOSALICYLATES
	355		FUNCTIONAL BOWEL DISORDER AGENTS
		89	ANTICHOLINERGICS ANTISPASMODICS
		455	GUANYLATE CYCLASE C AGONISTS
97			HORMONES/HORMONE MODIFIERS
	98		ADRENAL CORTICAL STEROIDS

		Multum Thera	peutic Classes
Top Tier (Parent/ Grandparent)	Middle Tier (Parent/ Child)	Bottom Tier (Child/ GrandChild)	Therapeutic Class Names
		301	GLUCOCORTICOIDS
		302	MINERALOCORTICOIDS
	101		SEX HORMONES
		102	CONTRACEPTIVES
		182	ANDROGENS AND ANABOLIC STEROIDS
		183	ESTROGENS
		184	GONADOTROPINS
		185	PROGESTINS
		186	SEX HORMONE COMBINATIONS
	103		THYROID HORMONES
	288		5 ALPHA REDUCTASE INHIBITORS
	411		CALCITONIN
	416		SOMATOSTATIN AND SOMATOSTATIN ANALOGS
	417		SELECTIVE ESTROGEN RECEPTOR MODULATORS
	423		AROMATASE INHIBITORS
105			MISCELLANEOUS AGENTS
	106		ANTIDOTES
	108		CHOLINERGIC MUSCLE STIMULANTS
	109		LOCAL INJECTABLE ANESTHETICS
	110		MISCELLANEOUS UNCATEGORIZED AGENTS
	114		ILLICIT STREET DRUGS
	192		ANTIRHEUMATICS
	270		ANTIPSORIATICS
	284		VISCOSUPPLEMENTATION AGENTS
	320		SMOKING CESSATION AGENTS
113			GENITOURINARY TRACT AGENTS
	263		IMPOTENCE AGENTS
	264		URINARY ANTISPASMODICS
	265		URINARY PH MODIFIERS
	266		MISCELLANEOUS GENITOURINARY TRACT AGENTS
115			NUTRITIONAL PRODUCTS
	116		IRON PRODUCTS
	117		MINERALS AND ELECTROLYTES
	118		ORAL NUTRITIONAL SUPPLEMENTS
	119		VITAMINS
	120		VITAMIN AND MINERAL COMBINATIONS
	121		INTRAVENOUS NUTRITIONAL PRODUCTS
			40

		Multum Thera	peutic Classes
Top Tier (Parent/ Grandparent)	Middle Tier (Parent/ Child)	Bottom Tier (Child/ GrandChild)	Therapeutic Class Names
122			RESPIRATORY AGENTS
	123		ANTIHISTAMINES
	124		ANTITUSSIVES
	125		BRONCHODILATORS
		126	METHYLXANTHINES
		180	ADRENERGIC BRONCHODILATORS
		181	BRONCHODILATOR COMBINATIONS
		299	ANTICHOLINERGIC BRONCHODILATORS
	127		DECONGESTANTS
	128		EXPECTORANTS
	130		RESPIRATORY INHALANT PRODUCTS
		296	INHALED CORTICOSTEROIDS
		407	INHALED ANTI INFECTIVES
	132		UPPER RESPIRATORY COMBINATIONS
	243		LEUKOTRIENE MODIFIERS
133			TOPICAL AGENTS
	135		ANTISEPTIC AND GERMICIDES
	136		DERMATOLOGICAL AGENTS
		137	TOPICAL ANTI INFECTIVES
		138	TOPICAL STEROIDS
		139	TOPICAL ANESTHETICS
		140	MISCELLANEOUS TOPICAL AGENTS
		141	TOPICAL STEROIDS WITH ANTI INFECTIVES
		143	TOPICAL ACNE AGENTS
		248	TOPICAL EMOLLIENTS
		290	TOPICAL ANTIBIOTICS
		292	TOPICAL ANTIFUNGALS
		448	TOPICAL NON-STEROIDAL ANTI-INFLAMMATORIES
		450	TOPICAL ANTINEOPLASTICS
		453	TOPICAL RUBEFACIENT
		461	TOPICAL ANTI ROSACEA AGENTS
	146		MOUTH AND THROAT PRODUCTS
	147		OPHTHALMIC PREPARATIONS
		163	OPHTHALMIC ANTI-INFECTIVES
		164	OPHTHALMIC GLAUCOMA AGENTS
		165	OPHTHALMIC STEROIDS
		166	OPHTHALMIC STEROIDS WITH ANTI INFECTIVES
	<u> </u>		11

		Multum Thera	peutic Classes
Top Tier (Parent/ Grandparent)	Middle Tier (Parent/ Child)	Bottom Tier (Child/ GrandChild)	Therapeutic Class Names
		167	OPHTHALMIC ANTI INFLAMMATORY AGENTS
		168	OPHTHALMIC LUBRICANTS AND IRRIGATIONS
		169	MISCELLANEOUS OPHTHALMIC AGENTS
		267	OPHTHALMIC ANTIHISTAMINES AND DECONGESTANTS
	148		OTIC PREPARATIONS
		393	CERUMENOLYTICS
	151		VAGINAL PREPARATIONS
		268	VAGINAL ANTI-INFECTIVES
		269	MISCELLANEOUS VAGINAL AGENTS
	247		NASAL PREPARATIONS
		244	NASAL LUBRICANTS AND IRRIGATIONS
		245	NASAL STEROIDS
		246	NASAL ANTIHISTAMINES AND DECONGESTANTS
218			ALTERNATIVE MEDICINES
	219		NUTRACEUTICAL PRODUCTS
	220		HERBAL PRODUCTS
	363		PROBIOTICS
242			PSYCHOTHERAPEUTIC AGENTS
	249		ANTIDEPRESSANTS
		76	MISCELLANEOUS ANTIDEPRESSANTS
		208	SSRI ANTIDEPRESSANTS
		209	TRICYCLIC ANTIDEPRESSANTS
		306	PHENYLPIPERAZINE ANTIDEPRESSANTS
		307	TETRACYCLIC ANTIDEPRESSANTS
		308	SSNRI ANTIDEPRESSANTS
	251		ANTIPSYCHOTICS
		77	MISCELLANEOUS ANTIPSYCHOTIC AGENTS
		210	PHENOTHIAZINE ANTIPSYCHOTICS
		341	ATYPICAL ANTIPSYCHOTICS
254			IMMUNOLOGIC AGENTS
	33		IMMUNE GLOBULINS
	104		IMMUNOSUPPRESSIVE AGENTS
		441	CALCINEURIN INHIBITORS
		442	TNF ALPHA INHIBITORS
		444	SELECTIVE IMMUNOSUPPRESSANTS
		445	OTHER IMMUNOSUPPRESSANTS
	437		IMMUNOSTIMULANTS
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Multum Therapeutic Classes			peutic Classes
Top Tier (Parent/ Grandparent)	Middle Tier (Parent/ Child)	Bottom Tier (Child/ GrandChild)	Therapeutic Class Names
		439	OTHER IMMUNOSTIMULANTS
358			METABOLIC AGENTS
	19		ANTIHYPERLIPIDEMIC AGENTS
		173	HMG-COA REDUCTASE INHIBITORS
		174	MISCELLANEOUS ANTIHYPERLIPIDEMIC AGENTS
		241	FIBRIC ACID DERIVATIVES
		252	BILE ACID SEQUESTRANTS
		316	CHOLESTEROL ABSORPTION INHIBITORS
		317	ANTIHYPERLIPIDEMIC COMBINATIONS
	99		ANTIDIABETIC AGENTS
		213	SULFONYLUREAS
		214	BIGUANIDES
		215	INSULIN
		271	THIAZOLIDINEDIONES
		314	ANTIDIABETIC COMBINATIONS
		371	DIPEPTIDYL PEPTIDASE 4 INHIBITORS
		373	GLP 1 RECEPTOR AGONISTS
		458	SGLT 2 INHIBITORS
	194		ANTIGOUT AGENTS
	289		ANTIHYPERURICEMIC AGENTS
	293		GLUCOSE ELEVATING AGENTS
	359		PERIPHERALLY ACTING ANTIOBESITY AGENTS
	409		BONE RESORPTION INHIBITORS
		217	BISPHOSPHONATES
		415	MISCELLANEOUS BONE RESORPTION INHIBITORS
999			INAPP

Pharmacologic Class Codes and Names

The Pharmacologic Classification (PC) system is flat, thus, the classes are in numeric order by class code. This system does not include parent/child relationships, but drugs can be assigned to multiple pharmacologic categories. Within MIDUS Refresher 1, medications can be assigned up to 6 PC categories. See Section A above for more details.

to 6 PC categories. See Section A above for more details. Multum Pharmacologic Classes		
Codes	Class Names	
901	ACNE PRODUCTS	
902	ACETYLCHOLINESTERASE INHIBITOR	
903	ACETYLCHOLINESTERASE INHIBITOR (CENTRAL)	
909	ADRENERGIC AGONIST AGENT	
915	ALKALINIZING AGENT	
918	ALPHA 1 AGONIST	
919	ALPHA 1 BLOCKER	
928	ALPHA-/BETA- AGONIST	
930	ALPHA 2 -ADRENERGIC AGONIST	
931	ALPHA 2 AGONIST, OPHTHALMIC	
935	AMINOQUINOLINE (ANTIMALARIAL)	
938	5-AMINOSALICYLIC ACID DERIVATIVE	
943	ANALGESIC COMBINATION (OPIOID)	
946	ANALGESIC, OPIOID	
947	ANALGESIC NONOPIOID	
951	ANALGESIC, TOPICAL	
952	ANALGESIC, URINARY	
954	ANDROGEN	
955	ANESTHETIC/CORTICOSTEROID	
956	ANESTHETIC, TOPICAL	
957	ANGIOTENSIN-CONVERTING ENZYME (ACE) INHIBITOR	
958	ANGIOTENSIN II RECEPTOR BLOCKER	
961	ANTACID	
963	ANTHELMINTIC	
971	ANTIANGINAL AGENT	
973	ANTIANXIETY AGENT, MISCELLANEOUS	
976	ANTIARRHYTHMIC AGENT, CLASS IB	
977	ANTIARRHYTHMIC AGENT, CLASS IC	
978	ANTIARRHYTHMIC AGENT, CLASS II	
979	ANTIARRHYTHMIC AGENT, CLASS III	
980	ANTIARRHYTHMIC AGENT, CLASS IV	
983	ANTIARRHYTHMIC AGENT, MISCELLANEOUS	
989	ANTIBIOTIC, AMINOGLYCOSIDE	
994	ANTIBIOTIC, CEPHALOSPORIN (FIRST GENERATION)	
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Multum F	Multum Pharmacologic Classes		
Codes	Class Names		
995	ANTIBIOTIC, CEPHALOSPORIN (SECOND GENERATION)		
998	ANTIBIOTIC/CORTICOSTEROID, OPHTHALMIC		
1000	ANTIBIOTIC CORTICOSTEROID TOPICAL		
1002	ANTIBIOTIC, MACROLIDE		
1004	ANTIBIOTIC, OPHTHALMIC		
1005	ANTIBIOTIC, ORAL RINSE		
1008	ANTIBIOTIC, PENICILLIN		
1009	ANTIBIOTIC, FLUOROQUINOLONE		
1011	ANTIBIOTIC, SULFONAMIDE DERIVATIVE		
1013	ANTIBIOTIC, TETRACYCLINE DERIVATIVE		
1014	ANTIBIOTIC, TOPICAL		
1017	ANTIBIOTIC, MISCELLANEOUS		
1019	ANTICHOLINERGIC AGENT		
1022	ANTICOAGULANT		
1026	ANTICONVULSANT, BARBITURATE		
1027	ANTICONVULSANT BENZODIAZEPINE		
1029	ANTICONVULSANT, HYDANTOIN		
1031	ANTICONVULSANT, SUCCINIMIDE		
1032	ANTICONVULSANT, MISCELLANEOUS		
1044	ANTIDEPRESSANT, ALPHA-2 ANTAGONIST		
1050	ANTIDEPRESSANT, SELECTIVE SEROTONIN REUPTAKE INHIBITOR		
1051	ANTIDEPRESSANT, SEROTONIN/NOREPINEPHRINE REUPTAKE INHIBITOR		
1052	ANTIDEPRESSANT, SEROTONIN REUPTAKE INHIBITOR/ANTAGONIST		
1057	ANTIDEPRESSANT, TRICYCLIC (SECONDARY AMINE)		
1058	ANTIDEPRESSANT, TRICYCLIC (TERTIARY AMINE)		
1063	ANTIDIABETIC AGENT, BIGUANIDE		
1065	ANTIDIABETIC AGENT, SULFONYLUREA		
1066	ANTIDIABETIC AGENT, THIAZOLIDINEDIONE		
1069	ANTIDIARRHEAL		
1074	ANTIDOTE		
1095	ANTIDOTE, EXTRAVASATION		
1122	ANTIEMETIC		
1125	ANTIFLATULENT		
1126	ANTIFUNGAL AGENT, IMIDAZOLE DERIVATIVE		
1130	ANTIFUNGAL AGENT, ORAL		
1134	ANTIFUNGAL AGENT, TOPICAL		
1138	ANTIGOUT AGENT		

Multum Ph	Multum Pharmacologic Classes		
Codes	Class Names		
1156	ANTIHYPERTENSIVE		
1162	ANTI-INFLAMMATORY AGENT		
1169	ANTILIPEMIC AGENT, BILE ACID SEQUESTRANT		
1170	ANTILIPEMIC AGENT, FIBRIC ACID		
1171	ANTILIPEMIC AGENT, HMG-COA REDUCTASE INHIBITOR		
1172	ANTILIPEMIC AGENT, MISCELLANEOUS		
1173	ANTIMALARIAL AGENT		
1174	ANTIMANIC AGENT		
1177	ANTIMIGRAINE AGENT		
1189	ANTINEOPLASTIC AGENT, ANTIMETABOLITE		
1195	ANTINEOPLASTIC AGENT, AROMATASE INHIBITOR		
1216	ANTINEOPLASTIC AGENT, MISCELLANEOUS		
1219	ANTI-PARKINSON'S AGENT, ANTICHOLINERGIC		
1221	ANTI-PARKINSON'S AGENT, DOPAMINE AGONIST		
1225	ANTIPLATELET AGENT		
1253	ANTIRETROVIRAL, PROTEASE INHIBITOR (ANTI-HIV)		
1254	ANTIRETROVIRAL, REVERSE TRANSCRIPTASE INHIBITOR, NON-NUCLEOSIDE (ANTI-HIV)		
1255	ANTIRETROVIRAL, REVERSE TRANSCRIPTASE INHIBITOR, NUCLEOSIDE (ANTI-HIV)		
1257	ANTIRETROVIRAL, REVERSE TRANSCRIPTASE INHIBITOR, NUCLEOTIDE (ANTI-HIV)		
1259	ANTIRHEUMATIC, DISEASE MODIFYING		
1260	ANTISEBORRHEIC AGENT TOPICAL		
1263	ANTISPASMODIC AGENT, URINARY		
1268	ANTITUSSIVE		
1277	ANTIVIRAL AGENT		
1280	ANTIVIRAL AGENT, ORAL		
1282	ANTIVIRAL AGENT, TOPICAL		
1286	BARBITURATE		
1289	BENZODIAZEPINE		
1291	BETA-BLOCKER, BETA-1 SELECTIVE		
1293	BETA-BLOCKER, NONSELECTIVE		
1294	BETA-BLOCKER WITH ALPHA-BLOCKING ACTIVITY		
1295	BETA BLOCKER WITH INTRINSIC SYMPATHOMIMETIC ACTIVITY		
1299	BETA 2 AGONIST		
1303	BIOLOGICAL, MISCELLANEOUS		
1305	BISPHOSPHONATE DERIVATIVE		
1308	BLOOD VISCOSITY REDUCER AGENT		

Multum F	Multum Pharmacologic Classes		
Codes	Class Names		
1313	CALCIUM CHANNEL BLOCKER		
1314	CALCIUM SALT		
1318	CARDIAC GLYCOSIDE		
1320	CARDIOVASCULAR AGENT, MISCELLANEOUS		
1326	CENTRAL NERVOUS SYSTEM DEPRESSANT		
1343	CONTRACEPTIVE		
1363	CORTICOSTEROID, INHALANT (ORAL)		
1364	CORTICOSTEROID, NASAL		
1365	CORTICOSTEROID, OPHTHALMIC		
1367	CORTICOSTEROID, RECTAL		
1369	CORTICOSTEROID, SYSTEMIC		
1370	CORTICOSTEROID, TOPICAL		
1380	DECONGESTANT		
1382	DECONGESTANT/ANALGESIC		
1390	DIAGNOSTIC AGENT		
1428	DIETARY SUPPLEMENT		
1435	DIURETIC, LOOP		
1438	DIURETIC, POTASSIUM SPARING		
1439	DIURETIC, THIAZIDE		
1440	DIURETIC, THIAZIDE-RELATED		
1447	ELECTROLYTE SUPPLEMENT, ORAL		
1449	ENZYME		
1463	ESTROGEN AND PROGESTIN COMBINATION		
1464	ESTROGEN DERIVATIVE		
1472	EXPECTORANT		
1481	GALLSTONE DISSOLUTION AGENT		
1486	GASTROINTESTINAL AGENT, PROKINETIC		
1488	GASTROINTESTINAL AGENT, MISCELLANEOUS		
1489	GENERAL ANESTHETIC		
1497	GONADOTROPIN		
1504	HEMOSTATIC AGENT		
1507	HISTAMINE H 2 ANTAGONIST		
1509	HOMOCYSTINURIA, TREATMENT AGENT		
1510	HORMONE		
1523	HYPNOTIC, MISCELLANEOUS		
1528	IMMUNOSUPPRESSANT AGENT		
1534	IRON SALT		
1536	KERATOLYTIC AGENT		

Codes Class Names 1537 LAXATIVE 1539 LAXATIVE, BULK-PRODUCING 1543 LAXATIVE, OSMOTIC 1544 LAXATIVE, SALINE 1545 LAXATIVE, STIMULANT 1551 LEUKOTRIENE RECEPTOR ANTAGONIST 1552 LIPASE INHIBITOR 1557 LOCAL ANESTHETIC 1576 MAGNESIUM SALT 1577 MAST CELL STABILIZER 1589 OPIOID ANTAGONIST 1589 OPIOID ANTAGONIST 1597 NEUROMUSCULAR BLOCKER AGENT, TOXIN 1598 OPIOID ANTAGONIST 1599 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), 1600 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), COX-2 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), PARENTERAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, WISCELLANEOUS 1620 OVULATION STIMULATOR 1621<	Multum F	Multum Pharmacologic Classes		
1539 LAXATIVE, BULK-PRODUCING 1543 LAXATIVE, OSMOTIC 1544 LAXATIVE, SALINE 1545 LAXATIVE, STIMULANT 1551 LEUKOTRIENE RECEPTOR ANTAGONIST 1551 LEUKOTRIENE RECEPTOR ANTAGONIST 1554 LIPASE INHIBITOR 1557 LOCAL ANESTHETIC 1576 MAGNESIUM SALT 1577 MAST CELL STABILIZER 1585 MONOCLONAL ANTIBODY 1589 OPIOID ANTAGONIST 1597 NEUROMUSCULAR BLOCKER AGENT, TOXIN 1599 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID) 1600 SONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), COX-2 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), COX-2 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), PARENTERAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, VASOCONSTRICTOR 1614 OPHTHALMIC AGENT, WISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN (OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1662 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	Codes	Class Names		
1543 LAXATIVE, OSMOTIC 1544 LAXATIVE, SALINE 1545 LAXATIVE, STIMULANT 1551 LEUKOTRIENE RECEPTOR ANTAGONIST 1554 LIPASE INHIBITOR 1557 LOCAL ANESTHETIC 1576 MAGNESIUM SALT 1577 MAST CELL STABILIZER 1588 MONOCLONAL ANTIBODY 1589 OPIOID ANTAGONIST 1599 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID) 1600 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), COX-2 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, VASOCONSTRICTOR 1614 OPHTHALMIC AGENT, WISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1662 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1683 SKIN AND MUCOUS MEMBRANE AGENT	1537	LAXATIVE		
1544 LAXATIVE, SALINE 1545 LAXATIVE, STIMULANT 1551 LEUKOTRIENE RECEPTOR ANTAGONIST 1554 LIPASE INHIBITOR 1557 LOCAL ANESTHETIC 1576 MAGNESIUM SALT 1577 MAST CELL STABILIZER 1585 MONOCLONAL ANTIBODY 1589 OPIOID ANTAGONIST 1597 NEUROMUSCULAR BLOCKER AGENT, TOXIN 1599 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID) 1600 SOLECTIVE 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), COX-2 SELECTIVE 1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN, OPHTHALMIC 1651 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1673 SKIN AND MUCOUS MEMBRANE AGENT	1539	LAXATIVE, BULK-PRODUCING		
1545 LAXATIVE, STIMULANT 1551 LEUKOTRIENE RECEPTOR ANTAGONIST 1554 LIPASE INHIBITOR 1557 LOCAL ANESTHETIC 1576 MAGNESIUM SALT 1577 MAST CELL STABILIZER 1585 MONOCLONAL ANTIBODY 1589 OPIOID ANTAGONIST 1597 NEUROMUSCULAR BLOCKER AGENT, TOXIN 1599 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID) 1600 SOLECTIVE 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), COX-2 SELECTIVE 1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN, OPHTHALMIC 1651 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1683 SKIN AND MUCOUS MEMBRANE AGENT	1543	LAXATIVE, OSMOTIC		
1551 LEUKOTRIENE RECEPTOR ANTAGONIST 1554 LIPASE INHIBITOR 1557 LOCAL ANESTHETIC 1576 MAGNESIUM SALT 1577 MAST CELL STABILIZER 1585 MONOCLONAL ANTIBODY 1589 OPIOID ANTAGONIST 1597 NEUROMUSCULAR BLOCKER AGENT, TOXIN 1599 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID) 1600 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), COX-2 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, VASOCONSTRICTOR 1614 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE ESTROGEN RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1544	LAXATIVE, SALINE		
1554 LIPASE INHIBITOR 1567 LOCAL ANESTHETIC 1576 MAGNESIUM SALT 1577 MAST CELL STABILIZER 1585 MONOCLONAL ANTIBODY 1589 OPIOID ANTAGONIST 1597 NEUROMUSCULAR BLOCKER AGENT, TOXIN 1599 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID) 1600 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), COX-2 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, ANTIGLAUCOMA 1612 OPHTHALMIC AGENT, VASOCONSTRICTOR 1614 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE 5-HT 3 RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1545	LAXATIVE, STIMULANT		
1557 LOCAL ANESTHETIC 1576 MAGNESIUM SALT 1577 MAST CELL STABILIZER 1585 MONOCLONAL ANTIBODY 1589 OPIOID ANTAGONIST 1597 NEUROMUSCULAR BLOCKER AGENT, TOXIN 1599 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID) 1600 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), COX-2 SELECTIVE 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), PARENTERAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, WASOCONSTRICTOR 1614 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN 1647 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1551	LEUKOTRIENE RECEPTOR ANTAGONIST		
1576 MAGNESIUM SALT 1577 MAST CELL STABILIZER 1585 MONOCLONAL ANTIBODY 1589 OPIOID ANTAGONIST 1597 NEUROMUSCULAR BLOCKER AGENT, TOXIN 1599 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID) 1600 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), COX-2 SELECTIVE 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), PARENTERAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, WISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1554	LIPASE INHIBITOR		
1577 MAST CELL STABILIZER 1585 MONOCLONAL ANTIBODY 1589 OPIOID ANTAGONIST 1597 NEUROMUSCULAR BLOCKER AGENT, TOXIN 1599 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID) 1600 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), COX-2 SELECTIVE 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), PARENTERAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, WASOCONSTRICTOR 1614 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1557	LOCAL ANESTHETIC		
1585 MONOCLONAL ANTIBODY 1589 OPIOID ANTAGONIST 1597 NEUROMUSCULAR BLOCKER AGENT, TOXIN 1599 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID) 1600 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), COX-2 SELECTIVE 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), PARENTERAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, WISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1576	MAGNESIUM SALT		
1589 OPIOID ANTAGONIST 1597 NEUROMUSCULAR BLOCKER AGENT, TOXIN 1599 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID) 1600 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), COX-2 SELECTIVE 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, WASOCONSTRICTOR 1614 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1577	MAST CELL STABILIZER		
1597 NEUROMUSCULAR BLOCKER AGENT, TOXIN 1599 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID) 1600 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), COX-2 SELECTIVE 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), PARENTERAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, WASOCONSTRICTOR 1614 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1585	MONOCLONAL ANTIBODY		
1599 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID) 1600 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), COX-2 SELECTIVE 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), PARENTERAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, VASOCONSTRICTOR 1614 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT	1589	OPIOID ANTAGONIST		
1600 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), COX-2 SELECTIVE 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), PARENTERAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, VASOCONSTRICTOR 1614 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT	1597	NEUROMUSCULAR BLOCKER AGENT, TOXIN		
SELECTIVE 1602 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL 1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), PARENTERAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, WASOCONSTRICTOR 1614 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1599	NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID)		
1603 NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), PARENTERAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, VASOCONSTRICTOR 1614 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1600			
PARENTERAL 1604 NUTRITIONAL SUPPLEMENT 1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, VASOCONSTRICTOR 1614 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1602	NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), ORAL		
1607 OPHTHALMIC AGENT, ANTIGLAUCOMA 1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, VASOCONSTRICTOR 1614 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT	1603			
1611 OPHTHALMIC AGENT, TOXIN 1612 OPHTHALMIC AGENT, VASOCONSTRICTOR 1614 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1604	NUTRITIONAL SUPPLEMENT		
1612 OPHTHALMIC AGENT, VASOCONSTRICTOR 1614 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1607	OPHTHALMIC AGENT, ANTIGLAUCOMA		
1614 OPHTHALMIC AGENT, MISCELLANEOUS 1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1611	OPHTHALMIC AGENT, TOXIN		
1620 OVULATION STIMULATOR 1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1612	OPHTHALMIC AGENT, VASOCONSTRICTOR		
1627 PHENOTHIAZINE DERIVATIVE 1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1614	OPHTHALMIC AGENT, MISCELLANEOUS		
1629 PHOSPHATE BINDER 1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1620	OVULATION STIMULATOR		
1644 PROGESTIN 1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1627	PHENOTHIAZINE DERIVATIVE		
1646 PROSTAGLANDIN 1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1629	PHOSPHATE BINDER		
1647 PROSTAGLANDIN, OPHTHALMIC 1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1644	PROGESTIN		
1651 PROTON PUMP INHIBITOR 1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1646	PROSTAGLANDIN		
1661 RETINOIC ACID DERIVATIVE 1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1647	PROSTAGLANDIN, OPHTHALMIC		
1665 SALICYLATE 1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1651	PROTON PUMP INHIBITOR		
1670 SEDATIVE 1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1661	RETINOIC ACID DERIVATIVE		
1671 SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) 1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1665	SALICYLATE		
1672 SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST 1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1670	SEDATIVE		
1681 SKELETAL MUSCLE RELAXANT 1683 SKIN AND MUCOUS MEMBRANE AGENT	1671	SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM)		
1683 SKIN AND MUCOUS MEMBRANE AGENT	1672	SELECTIVE 5-HT 3 RECEPTOR ANTAGONIST		
	1681	SKELETAL MUSCLE RELAXANT		
1687 SKIN AND MUCOUS MEMBRANE AGENT, MISCELLANEOUS	1683	SKIN AND MUCOUS MEMBRANE AGENT		
	1687	SKIN AND MUCOUS MEMBRANE AGENT, MISCELLANEOUS		

Multum Pl	Multum Pharmacologic Classes		
Codes	Class Names		
1688	SMOKING CESSATION AID		
1691	SOMATOSTATIN ANALOG		
1694	STOOL SOFTENER		
1700	SYMPATHOMIMETIC		
1710	THYROID PRODUCT		
1712	TOPICAL SKIN PRODUCT		
1713	TOPICAL SKIN PRODUCT, ACNE		
1718	TRACE ELEMENT		
1729	URICOSURIC AGENT		
1742	VASODILATOR		
1750	VITAMIN		
1752	VITAMIN D ANALOG		
1753	VITAMIN, FAT SOLUBLE		
1756	VITAMIN, WATER SOLUBLE		
1757	XANTHINE OXIDASE INHIBITOR		
1762	SEROTONIN 5-HT 1B, 1D RECEPTOR AGONIST		
1765	CENTRAL NERVOUS SYSTEM STIMULANT		
1768	HISTAMINE H 1 ANTAGONIST		
1779	5 ALPHA-REDUCTASE INHIBITOR		
1781	ANTILIPEMIC AGENT, 2-AZETIDINONE		
1808	MONOCLONAL ANTIBODY, ANTI-ASTHMATIC		
1810	N-METHYL-D-ASPARTATE RECEPTOR ANTAGONIST		
1811	PHOSPHODIESTERASE-5 ENZYME INHIBITOR		
1822	ANTINEOPLASTIC AGENT, ANTIMETABOLITE (ANTIFOLATE)		
1824	SUBSTITUTED BENZIMIDAZOLE		
1827	SECOND GENERATION (ATYPICAL) ANTIPSYCHOTIC		
1828	FIRST GENERATION (TYPICAL) ANTIPSYCHOTIC		
1830	AMINO ACID		
1831	TUMOR NECROSIS FACTOR (TNF) BLOCKING AGENT		
1833	MONOCLONAL ANTIBODY, SELECTIVE ADHESION-MOLECULE INHIBITOR		
37021	PROBIOTIC		
309141	ANTIBIOTIC, LINCOSAMIDE		
369942	INSULIN, INTERMEDIATE-ACTING		
369943	INSULIN, LONG-ACTING		
370141	INSULIN, RAPID-ACTING		
512625	PARTIAL NICOTINE AGONIST		
515063	IMIDAZOLINE DERIVATIVE		
580286	ANTIDIABETIC AGENT, DIPEPTIDYL PEPTIDASE IV (DPP-IV)		

Codes	Multum Pharmacologic Classes Codes Class Names		
Oodes	INHIBITOR		
944618	ANTIRETROVIRAL, CCR5 ANTAGONIST (ANTI-HIV)		
996578	ANTIRETROVIRAL, INTEGRASE INHIBITOR (ANTI-HIV)		
996698	ANTINEOPLASTIC AGENT, ANTIMETABOLITE (PYRIMIDINE ANALOG)		
1035979	ANILIDOPIPERIDINE OPIOID		
1154061	RESCUE AGENT (CHEMOTHERAPY)		
1154062	CHEMOTHERAPY MODULATING AGENT		
1160459	BETA 2 -ADRENERGIC AGONIST, LONG-ACTING		
1160479	BETA 2 AGONIST, LONG-ACTING		
1163619	NONSTEROIDAL ANTI-INFLAMMATORY DRUG (NSAID), TOPICAL		
1177583	HISTAMINE H 1 ANTAGONIST, SECOND GENERATION		
1177584	HISTAMINE H 1 ANTAGONIST, FIRST GENERATION		
1191179	VASODILATOR, DIRECT-ACTING		
1274399	IMMUNOMODULATOR, SYSTEMIC		
1284841	HISTONE DEACETYLASE INHIBITOR		
1797079	CALCIUM CHANNEL BLOCKER, NONDIHYDROPYRIDINE		
1797080	CALCIUM CHANNEL BLOCKER, DIHYDROPYRIDINE		
1801719	CALCINEURIN INHIBITOR		
1826674	ANTIPLATELET AGENT, THIENOPYRIDINE		
2148013	ANTIDIABETIC AGENT, GLUCAGON-LIKE PEPTIDE-1 (GLP-1) RECEPTOR AGONIST		
2759759	ANTI-PARKINSON'S AGENT, DECARBOXYLASE INHIBITOR		
2759760	ANTI-PARKINSON'S AGENT, DOPAMINE PRECURSOR		
2792400	ANTINEOPLASTIC AGENT, ANTIMETABOLITE (PURINE ANALOG)		
2807279	TRANSIENT RECEPTOR POTENTIAL VANILLOID 1 (TRPV1) AGONIST		
2952225	ALKYLAMINE DERIVATIVE		
2952299	ETHANOLAMINE DERIVATIVE		
2952340	PIPERAZINE DERIVATIVE		
2952559	PIPERIDINE DERIVATIVE		
2965759	FIBER SUPPLEMENT		
2988377	ANALGESIC, OPIOID PARTIAL AGONIST		
3015214	ANTIDEPRESSANT, SELECTIVE SEROTONIN REUPTAKE INHIBITOR/5-HT 1A RECEPTOR PARTIAL AGONIST		
3451903	BONE-MODIFYING AGENT		
3501084	GABA ANALOG		
3509782	ALPHA-ADRENERGIC AGONIST		
3819764	BETA 3 AGONIST		
3861322	PHOSPHODIESTERASE ENZYME INHIBITOR, NONSELECTIVE		

Multum Pharmacologic Classes		
Codes	Class Names	
3964448	PYRIMIDINE SYNTHESIS INHIBITOR	
3974202	ANTILIPEMIC AGENT, OMEGA-3 FATTY ACIDS	
3988862	ANTICHOLINERGIC AGENT, LONG-ACTING	
4230723	SODIUM-GLUCOSE COTRANSPORTER 2 (SGLT2) INHIBITOR	
4230724	ANTIDIABETIC AGENT, SODIUM-GLUCOSE COTRANSPORTER 2 (SGLT2) INHIBITOR	
4230742	FUMARIC ACID DERIVATIVE	
4496663	CARBONIC ANHYDRASE INHIBITOR (OPHTHALMIC)	
4649822	ANTIHEMORRHOIDAL AGENT	
4857382	ANTIHEPADNAVIRAL, REVERSE TRANSCRIPTASE INHIBITOR, NUCLEOSIDE (ANTI-HBV)	
5002622	ANTICOAGULANT, FACTOR XA INHIBITOR	
5002623	ANTICOAGULANT, VITAMIN K ANTAGONIST	
5002625	ANTICOAGULANT, DIRECT THROMBIN INHIBITOR	
5251182	MEDICAL FOOD	
5357662	ANTIDEPRESSANT, DOPAMINE/NOREPINEPHRINE-REUPTAKE INHIBITOR	
5585170	MINERALOCORTICOID (ALDOSTERONE) RECEPTOR ANTAGONISTS	
6004244	ANTIFUNGAL AGENT ORAL NONABSORBED PARTIALLY ABSORBED	
6024732	DIRECT ORAL ANTICOAGULANT DOAC	
6433523	GUANYLATE CYCLASE C GC C AGONIST	
9999999	INAPP	

Appendix D: Reason for Taking Medications - Codes and Category Names

This Appendix contains three lists of codes representing reasons why participants think they are taking medications reported on the Medication Chart. The list of modified ICD-9 (ICD9M) codes and category names is presented first, followed by the list of modified ICD-10 (ICD10M) codes and category names, and then the list of MIDUS (MDC) codes and category names. See Section E above for details about the coding process.

Modified ICD-9 Codes and Labels

The ICD9M category labels are based on clinical descriptions of diseases etc., thus, this table also contains a column listing key words/common phrases indicating the conditions/symptoms etc. included in a given category.

ICD9M CODE	ICD9 CODE LABEL	Key Words/Common Responses
41	BACT INF IN OTH DIS/NOS	Infectious disease
42	HUMAN IMMUNO VIRUS DIS	HIV
53	HERPES ZOSTER	Shingles
54	HERPES SIMPLEX	Cold sores, Herpes
79	VIRAL INFECTION	anti-viral, viral infection
110	DERMATOPHYTOSIS	Athlete's foot, Toe nail fungus, Fungal infection, Ringworm
112	CANDIDIASIS	Yeast infection
135	SARCOIDOSIS	sarcoidosis
173	OTHER MALIGNANT NEOPLASM OF SKIN	skin cancer
174	MALIG NEO FEMALE BREAST	Breast cancer
188	MALIGN NEOPL BLADDER	Bladder cancer
209	NEUROENDOCRINE TUMORS	neuroendocrine carcinoid cancer
240	GOITER	Goiters-Thyroid med, keeps goiters away
242	TOXIC DIFFUSE GOITER	Grave's disease
244	ACQUIRED HYPOTHYROIDISM	Hypothyroidism, Thyroiditis
246	OTH DISORDERS OF THYROID	Thyroid hormone, Thyroid
250	DIABETES MELLITUS	Diabetes, High blood sugar
255	ADRENAL GLAND DISORDERS	Adrenal gland disorder, Adrenal gland dysfunction
256	OVARIAN DYSFUNCTION	Polycystic Ovarian Syndrome
257	TESTICULAR DYSFUNCTION	Low testosterone levels
266	B-COMPLEX DEFICIENCIES	Low B12
267	ASCORBIC ACID DEFICIENCY	Vitamin C deficiency
268	VITAMIN D DEFICIENCY	Rickets, Low Vitamin D, Vitamin D deficiency
269	OTH NUTRITION DEFICIENCY	lodine deficiency, calcium deficiency
272	PURE HYPERCHOLESTEROLEM	High cholesterol, Hyperlipidemia, High neutral lipid
274	GOUT	Gout

ICD9M CODE	ICD9 CODE LABEL	Key Words/Common Responses
275	DIS MINERAL METABOLISM	Magnesium supplement, Reduce phosphate, Supplement iron
276	FLUID/ELECTROLYTE DIS	Low potassium, Hypokalemia
279	DISORDER OF IMMUNE MECHANISM	Autoimmune disease
280	IRON DEFICIENCY ANEMIA	Iron deficiency
285	ANEMIA NEC/NOS	Anemia
287	PURPURA & OTH HEMOR COND	Low platelet count
295	SCHIZOPHRENIC DISORDERS	Schizophrenia
296	AFFECTIVE PSYCHOSES	Bipolar disorder, Mood swings
298	OTH NONORGANIC PSYCHOSES	Psychosis
300	NEUROTIC DISORDERS	Tranquilizer, Stay calm, Anxiety, nervousness, 'Stabilizer'
302	SEXUAL DISORDERS	Impotence, Erectile Dysfunction
303	ALCOHOL DEPENDENCE	Preventing craving alcohol
304	DRUG DEPENDENCE	Heroin addiction maintenance
305	NONDEPENDENT DRUG ABUSE	Smoking cessation
308	ACUTE REACTION TO STRESS	stress
309	ADJUSTMENT REACTION	PTSD
311	DEPRESSIVE DISORDER NEC	Depression, Anti-depressant
314	HYPERKINETIC SYNDROME	ADD, ADHD
332	PARKINSON'S DISEASE	Parkinson's disease
333	EXTRAPYRAMIDAL DIS NEC	Restless leg syndrome, Tick in eye, Tremors, Huntington's disease
337	AUTONOMIC NERVE DISORDER	Treat disorder of peripheral nerve, Neuropathy in heart
338	PAIN, NOT ELSEWHERE CLASSIFIED	Pain, Pain in multiple locations,
340	MULTIPLE SCLEROSIS	MS, Multiple sclerosis, Muscle fatigue
345	EPILEPSY	Epilepsy, Seizure disorder, Focal seizures
346	MIGRAINE	Migraine
347	CATAPLEXY AND NARCOLEPSY	Narcolepsy
354	CARPAL TUNNEL SYNDROME	Carpal Tunnel
356	HERED & IDIOPATH PERIPH NEUROPATHY	Improvement of peripheral nervous system,
358	MYONEURAL DISORDERS	Myasthenia gravis
362	RETINAL DISORDERS NEC	Macular degeneration
365	GLAUCOMA	Glaucoma, pressure in eye, lower ocular pressure
371	CORNEAL OPACITY/DISORDER	Corneal problem
372	DISORDERS OF CONJUNCTIVA	Prevent eye infection
373	INFLAMMATION OF EYELIDS	Sty, Blepharitis

ICD9M CODE	ICD9 CODE LABEL	Key Words/Common Responses
375	LACRIMAL SYSTEM DISORDER	Dry eyes, Lacrimal gland disorder
379	EYE DISORDERS NEC	Inflammation of eye, Itchy eyes
380	DISORDER OF EXTERNAL EAR	Ear infection
386	VERTIGINOUS SYNDROMES	Meniere's disease, Inner ear
388	DISORDERS OF EAR NEC	Ringing ears, Tinnitus, Ear pain, Dry ear
401	ESSENTIAL HYPERTENSION	High blood pressure, Hypertension, Reduce/lower blood pressure, Blood pressure, Anti-hypertensive
410	ACUTE MYOCARDIAL INFARCT	Myocardial infarction, Cardiac infarction
413	ANGINA PECTORIS	Angina pectoris, Angina
414	OTH CHR ISCHEMIC HRT DIS	Arterial Sclerosis
415	ACUTE PULMONARY HEART DISEASE	Heart pulmonary embolism
427	CARDIAC DYSRHYTHMIAS	Irregular pulse, Atrial fibrillation
428	HEART FAILURE	Heart Failure
429	ILL-DEFINED HEART DIS	Cardiac disease, Heart dilation, Dysraphism of aortic valve
440	ATHEROSCLEROSIS	atherosclerosis
442	OTHER ANEURYSM	Aneurysm
443	RAYNAUD'S SYNDROME	Raynaud's
453	OTH VENOUS THROMBOSIS	Anticoagulant, Thrombosis, Prevent thrombosis, Prevent blood clot, Thrombus
458	HYPOTENSION	low blood pressure
460	ACUTE NASOPHARYNGITIS	Treat Cold, Acute Upper respiratory infection
461	ACUTE SINUSITIS	Acute sinus problems, Post nasal drip, Nasal inflammation, Nasal mucus
470	DEVIATED NASAL SEPTUM	Deviated septum
471	NASAL POLYPS	Polyps in sinus
472	CHR PHARYNG/NASOPHARYNG	Rhinitis, Chronic nasal congestion, Reduce swelling of nasal passages
477	ALLERGIC RHINITIS	Hay fever, Dust allergy, Allergic rhinitis
478	OTH UPPR RESPIRATORY DIS	Drippy/clogged nose
490	BRONCHITIS NOS	Bronchitis
492	EMPHYSEMA	Emphysema
493	ASTHMA	Asthma, Pulmonary emphysema, Emphysema
496	CHR AIRWAY OBSTRUCT NEC	COPD
518	OTHER LUNG DISEASES	Repair damage to lung
519	OTHER DISEASES OF RESPIRATORY SYSTEM	Bronchial spasm prevention
524	DENOFACIAL ANOMALIES	Temporomandibular joint dysfunction,

DISEASES OF THE JAWS root canal, root canal infection 526 DISEASES OF THE JAWS root canal, root canal infection 527 SALIVARY GLAND DISEASES Dry mouth 528 ORAL SOFT TISSUE DISEASE 530 DISEASES OF ESOPHAGUS 531 GASTRIC ULCER Gastritis, Esophagus trouble, Backward flow of gastric acid, 532 DUODENAL ULCER Duodenal ulcer 533 OTHER ABDOMINAL HERNIA Hernia, High hiatal hernia 553 OTHER ABDOMINAL HERNIA Hernia, High hiatal hernia 555 REGIONAL ENTERITIS Crohn's disease 556 IDIOPATHIC PROCTOCOLITIS Colitis 561 DIVERTICULA OF INTESTINE Diverticultiis 562 DIVERTICULA OF INTESTINE Diverticultiis 564 FUNCT DIGESTIVE DIS NEC Constipation, Bowel movement, Colocramps, Irritable bowel 575 OTHER DISORDERS OF GALLBLADDER Gallbladder polyp 579 INTESTINAL MALABSORPTION Celiac disease nutrition 580 OTH ROBLADDER DISORDERS 581 OTH URINARY TRACT DISOR Urinary tract infection, UTI 582 PROSTATIC INFLAMMATION Prostatic hypertorphy, Prostatic hyperprisaisa 584 PROSTATIC INFLAMMATION Prostatic infection, UTI 585 PROSTATIC INFLAMMATION Prostatic infection, UTI 586 PROSTATIC INFLAMMATION Prostatic infection, Premenstrual tension 687 DISORDER OF PENIS due to prostate cancer/vitality 588 VINCHMATORY DISEASE OF CERVIX, VAGINA, AND VULVA MENOPAUSAL DISORDERS 689 DISORDER OF PENIS DISORDERS Pemporrhea, Premenstrual tension 680 DISORDER OF MENSTRUATION Menstrual pain, Irregular period Menopause, Menopause 682 CELLULITIS AND ABSCESS, UNSPEC Cellulitis 683 CELLULITIS AND ABSCESS, UNSPEC Cellulitis 684 DISPACED AND ABSCESS, UNSPEC Cellulitis 685 DISORDER OF MENSTRUATION DISORDERS 686 DISORDER OF MENSTRUATION 686 DISORDER OF MENSTRUATION 687 MENOPAUSAL DISORDERS 688 CELLULITIS AND ABSCESS, UNSPEC Cellulitis	ICD9M CODE	ICD9 CODE LABEL	Key Words/Common Responses
DISEASES OF THE JAWS Toot canal, root canal infection SALIVARY GLAND DISEASES Dry mouth Stomattis, Chapped lips, Canker sores, Dental abscess Acid Reflux, GERD, Gastritis, Esophagus trouble, Backward flow of gastric acid, Stomattis, Chapped lips, Canker sores, Dental abscess Acid Reflux, GERD, Gastritis, Esophagus trouble, Backward flow of gastric acid, Stomach ulcer Duodenal ulcer Castric hyperacidity, Dyspepsia, Neutralize/reduce gastric acid, Stomach pain Hernia, High hiatal hernia EGONAL ENTERITIS Crohn's disease Crohn's disease Crohn's disease Diopartic procrocolutis Colitis OTH NONINF GASTROENTERIT Diarrhea, Gastroenteritis Diverticulitis Diverticulitis Toney of the procrocolutis of the procrocolutis or camps, Irritable bowel Toney of the procrocolutis or camps, Irritable bowel Tother Disorders of Gallbladder Tother Disorders of Gallbladder Tother Bladder Disorders DITHESTINAL MALABSORPTION Celiac disease nutrition Celiac disease nutrition Celiac disease nutrition Tother Bladder Disorders Bladder tone, Neurogenic bladder Tother Prostatic hypertrophy, Prostatic hyperplasia Tother Prostatic hypertrophy, Prostatic hyperplasia Tother Prostatic infection, UTI Prostatitis, Enlarged prostate, Help reduce swelling of prostate Tother Prostatic hypertrophy, Prostatic hyperplasia Tother Prostatic infection, UTI Prostatitis, Enlarged prostate, Help reduce swelling of prostate Tother Prostatic hypertrophy, Prostatic hyperplasia Tother Bladder of PROSTATE To			TMJ
527 SALIVARY GLAND DISEASES ORAL SOFT TISSUE DISEASE Stomatitis, Chapped lips, Canker scres, Dental abscess Acid Reflux, GERD, Gastritis, Esophagus trouble, Backward flow of gastric acid, GaSTRIC ULCER 530 DISEASES OF ESOPHAGUS STOMACH FUNCTION DISORD STOMACH FUNCTION PROPRIET DISORD STOMACH FUNCTION DISORD STOMACH FUNCTION DISORD STOMACH FUNCTION PROPRIET DISORD STOMACH FUNCTION PROPRIET DISORD STOMACH FUNCTION DISORD STOMACH FUNCTION PROPRIET DISORD STOMACH FUNC	525	OTHER DENTAL DISORDER	Extracted teeth, Treatment for a tooth, Toothache
Stomatitis, Chapped lips, Canker sores, Dental abscess Acid Reflux, GERD, Gastritis, Esophagus trouble, Backward flow of gastric acid, Gastric ULCER Gastric ULCER Duodenal ulcer Gastric hyperacidity, Dyspepsia, Neutralize/reduce gastric acid, Stomach pain STOMACH FUNCTION DISORD STOMACH FUNCTION OF STOMACH ST	526	DISEASES OF THE JAWS	root canal, root canal infection
DISEASES OF ESOPHAGUS 530 DISEASES OF ESOPHAGUS 531 GASTRIC ULCER 532 DUODENAL ULCER 533 DUODENAL ULCER 534 STOMACH FUNCTION DISORD 535 OTHER ABDOMINAL HERNIA 535 OTHER ABDOMINAL HERNIA 536 IDIOPATHIC PROCTOCOLITIS 537 CONTROLLER 538 OTH NONINF GASTROENTERIT 539 DIVERTICULA OF INTESTINE 540 DIVERTICULA OF INTESTINE 551 OTHER DISORDERS OF GALLBLADDER 552 OTHER DISORDERS OF GALLBLADDER 553 OTHER DISORDERS OF BIALDER DIVERTINAL MALABSORPTION 554 CONTROLLER OF INTESTINE 555 CONTROLLER OF INTESTINE 566 DIVERTICULA OF INTESTINE 567 OTHER DISORDERS OF GALLBLADDER 568 OTHER DISORDERS OF GALLBLADDER 579 INTESTINAL MALABSORPTION 580 OTHER BLADDER DISORDERS 580 OTHER BLADDER DISORDERS 581 Bladder tone, Neurogenic bladder 580 OTHER BLADDER DISORDERS 581 Bladder tone, Neurogenic bladder 580 OTHER BLADDER DISORDERS 581 Bladder tone, Neurogenic bladder 580 OTHER BLADDER DISORDERS 581 Bladder tone, Neurogenic bladder 580 OTHER BLADDER DISORDERS 581 Bladder tone, Neurogenic bladder 580 OTHER BLADDER DISORDERS 581 Bladder tone, Neurogenic bladder 580 OTHER BLADDER DISORDERS 581 Bladder tone, Neurogenic bladder 580 OTHER BLADDER DISORDERS 581 Bladder tone, Neurogenic bladder 582 Prostatic hypertrophy, Prostatic hypertrophy, Prostatic hyperplasia 584 Prostatic, Enlarged prostate, Help reduce swelling of prostate 585 Bladder tone, Neurogenic bladder 586 DISORDER OF PENIS 586 DISORDER OF PENIS 587 DISORDER OF PENIS 588 DISORDER OF PENIS 589 DISORDER OF PENIS 580 DISORDER OF MENSTRUATION 580 MENOPAUSAL DISORDERS 580 MENOPAUSAL DISORDERS 580 DISORDER OF MENSTRUATION 580 MENOPAUSAL DISORDERS 580 ERYTHEMATOSQUAMOUS DERM 580 DISORDER OF menopause, Menopause 582 CELLULITIS AND ABSCESS, UNSPEC 581 CELLULITIS AND ABSCESS, UNSPEC 581 CELLULITIS AND ABSCESS, UNSPEC 582 CELLULITIS AND ABSCESS, UNSPEC 583 CELLULITIS AND ABSCESS, UNSPEC 584 CELLULITIS AND ABSCESS, UNSPEC 585 CELLULITIS AND ABSCESS	527	SALIVARY GLAND DISEASES	Dry mouth
DISEASES OF ESOPHAGUS Esophagus trouble, Backward flow of gastric acid, Gastric Ulcer Duodenal ulcer Duodenal ulcer Duodenal ulcer Duodenal ulcer Gastric hyperacidity, Dyspepsia, Neutralize/reduce gastric acid, Stomach pain Stom	528	ORAL SOFT TISSUE DISEASE	
532 DUODENAL ULCER 536 STOMACH FUNCTION DISORD 537 STOMACH FUNCTION DISORD 538 STOMACH FUNCTION DISORD 539 OTHER ABDOMINAL HERNIA 540 Herria, High hiatal hernia 551 REGIONAL ENTERITIS 552 CIDIOPATHIC PROCTOCOLITIS 553 OTH NONINF GASTROENTERIT 554 DIVERTICULA OF INTESTINE 555 DIVERTICULA OF INTESTINE 566 DIVERTICULA OF INTESTINE 567 OTHER DISORDERS OF GALLBLADDER 578 OTHER DISORDERS OF GALLBLADDER 579 INTESTINAL MALABSORPTION 590 CHER BLADDER DISORDERS 590 OTHER BLADDER DISORDERS 590 OTH URINARY TRACT DISOR 591 HYPERPLASIA OF PROSTATE 601 PROSTATIC INFLAMMATION 602 DISORDER OF PENIS 603 DISORDER OF PENIS 604 DISORDER OF MENSTRUATION 605 FEMALE GENITAL SYMPTOMS 606 DISORDER OF MENSTRUATION 607 MENOPAUSAL DISORDERS 608 ERYTHEMATOSQUAMOUS DERM 609 DISORDER OF MENSTRUATION 600 DISORDER OF MENSTRUATION 601 MENOPAUSAL DISORDERS 602 CELLULITIS AND ABSCESS, UNSPEC 603 CITIER SASTINE CIRCLES 604 CELLULITIS AND ABSCESS, UNSPEC 605 CIBICITIS 606 CIDISORDER OF MENSTRUATION 607 DISORDER OF MENSTRUATION 608 DISORDER OF MENSTRUATION 609 DISORDER OF MENSTRUATION 600 MENOPAUSAL DISORDERS 600 ERYTHEMATOSQUAMOUS DERM 600 DISORDER OF MENSTRUATION 600 DISORDER OF MENSTRUATION 601 MENOPAUSAL DISORDERS 602 CELLULITIS AND ABSCESS, UNSPEC 603 CILIUTIS AND ABSCESS, UNSPEC 604 CILIUTIS AND ABSCESS, UNSPEC 605 CILIUTIS CICLUS 607 CICLUSTIC CICLUS 608 CILIUTIS AND ABSCESS, UNSPEC 609 CILIUTIS AND ABSCESS, UNSPEC 609 CILIUTIS CICLUS 609 CILIUTIS AND ABSCESS, UNSPEC 609 CILIUTIS CICLUS 609 CILIUTIS AND ABSCESS, UNSPEC 609 CILIUTIS AND ABSCESS, UNSPEC 609 CILIUTIS AND ABSCESS, UNSPEC 600 CILIUTIS CICLUS 600 CILIUTIS AND ABSCESS, UNSPEC 601 CILIUTIS CICLUS 602 CILIUTIS AND ABSCESS, UNSPEC 607 CILIUTIS CICLUS 608 CILIUTIS AND ABSCESS, UNSPEC 609 CILIUTIS AND ABSCESS, UNSPEC 609 CILIUTIS AND ABSCESS OF CILIUTIS CICLUS 607 CILIUTIS AND ABSCESS OF CILIU	530	DISEASES OF ESOPHAGUS	Esophagus trouble, Backward flow of
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STOMACH FUNCTION DISORD Neutralize/reduce gastric acid, Stomach pain The property of the part of the	532	DUODENAL ULCER	Duodenal ulcer
S55 REGIONAL ENTERITIS Crohn's disease	536	STOMACH FUNCTION DISORD	Neutralize/reduce gastric acid,
556 IDIOPATHIC PROCTOCOLITIS 558 OTH NONINF GASTROENTERIT 562 DIVERTICULA OF INTESTINE 564 FUNCT DIGESTIVE DIS NEC 575 OTHER DISORDERS OF GALLBLADDER 576 GAILBLADDER 577 INTESTINAL MALABSORPTION 580 OTHER BLADDER DISORDERS 590 OTHER BLADDER DISORDERS 591 OTH URINARY TRACT DISOR 592 HYPERPLASIA OF PROSTATE 603 PROSTATIC INFLAMMATION 604 PROSTATIC INFLAMMATION 605 DISORDER OF PENIS 606 DISORDER OF PENIS 607 DISORDER OF PENIS 608 DISORDER OF MENSTRUATION 608 MENOPAUSAL DISORDERS 609 ERYTHEMATOSQUAMOUS DERM Constitution Constitution Disorder of Menopause Disorder of Menopause Disorder of menopause Menopause Cellulitis Disorder of menopause Disorder of menopause Menopause Cellulitis Dry scalp	553	OTHER ABDOMINAL HERNIA	Hernia, High hiatal hernia
558OTH NONINF GASTROENTERITDiarrhea, Gastroenteritis562DIVERTICULA OF INTESTINEDiverticulitis564FUNCT DIGESTIVE DIS NECConstipation, Bowel movement, Colo cramps, Irritable bowel575OTHER DISORDERS OF GALLBLADDERGallbladder polyp579INTESTINAL MALABSORPTIONCeliac disease nutrition592RENAL/URETERAL CALCULUSKidney stones,596OTHER BLADDER DISORDERSBladder tone, Neurogenic bladder599OTH URINARY TRACT DISORUrinary tract infection, UTI600HYPERPLASIA OF PROSTATEProstatic hypertrophy, Prostatic hyperplasia601PROSTATIC INFLAMMATIONProstatitis, Enlarged prostate, Help reduce swelling of prostate607DISORDER OF PENISdue to prostate cancer/vitality616INFLAMMATORY DISEASE OF CERVIX, VAGINA, AND VULVAvaginitis625FEMALE GENITAL SYMPTOMSDysmenorrhea, Premenstrual tension626DISORDER OF MENSTRUATIONMenstrual pain, Irregular period627MENOPAUSAL DISORDERSMenopausal disorder, Balancing hormones, Stabilizer for menopause, Menopause682CELLULITIS AND ABSCESS, UNSPECCellulitis690ERYTHEMATOSQUAMOUS DERMDrys scalp	555	REGIONAL ENTERITIS	Crohn's disease
562DIVERTICULA OF INTESTINEDiverticulitis564FUNCT DIGESTIVE DIS NECConstipation, Bowel movement, Colo cramps, Irritable bowel575OTHER DISORDERS OF GALLBLADDERGallbladder polyp579INTESTINAL MALABSORPTIONCeliac disease nutrition592RENAL/URETERAL CALCULUSKidney stones,596OTHER BLADDER DISORDERSBladder tone, Neurogenic bladder599OTH URINARY TRACT DISORUrinary tract infection, UTI600HYPERPLASIA OF PROSTATEProstatic hypertrophy, Prostatic hyperplasia601PROSTATIC INFLAMMATIONProstatitis, Enlarged prostate, Help reduce swelling of prostate607DISORDER OF PENISdue to prostate cancer/vitality616INFLAMMATORY DISEASE OF CERVIX, VAGINA, AND VULVAvaginitis625FEMALE GENITAL SYMPTOMSDysmenorrhea, Premenstrual tension626DISORDER OF MENSTRUATIONMenstrual pain, Irregular period627MENOPAUSAL DISORDERSMenopausal disorder, Balancing hormones, Stabilizer for menopause, Menopause682CELLULITIS AND ABSCESS, UNSPECCellulitis690ERYTHEMATOSQUAMOUS DERMDry scalp	556	IDIOPATHIC PROCTOCOLITIS	Colitis
FUNCT DIGESTIVE DIS NEC Constipation, Bowel movement, Colocramps, Irritable bowel 575 OTHER DISORDERS OF GALLBLADDER Gallbladder polyp 579 INTESTINAL MALABSORPTION Celiac disease nutrition 592 RENAL/URETERAL CALCULUS Kidney stones, 596 OTHER BLADDER DISORDERS Bladder tone, Neurogenic bladder 599 OTH URINARY TRACT DISOR Urinary tract infection, UTI 600 HYPERPLASIA OF PROSTATE Prostatic hypertrophy, Prostatic hyperplasia Prostatitis, Enlarged prostate, Help reduce swelling of prostate 607 DISORDER OF PENIS due to prostate cancer/vitality 616 INFLAMMATORY DISEASE OF CERVIX, VAGINA, AND VULVA 625 FEMALE GENITAL SYMPTOMS Dysmenorrhea, Premenstrual tension 626 DISORDER OF MENSTRUATION Menstrual pain, Irregular period Menopausal disorder, Balancing hormones, Stabilizer for menopause, Menopause 682 CELLULITIS AND ABSCESS, UNSPEC Cellulitis Dry scalp	558	OTH NONINF GASTROENTERIT	Diarrhea, Gastroenteritis
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596OTHER BLADDER DISORDERSBladder tone, Neurogenic bladder599OTH URINARY TRACT DISORUrinary tract infection, UTI600HYPERPLASIA OF PROSTATEProstatic hypertrophy, Prostatic hyperplasia601PROSTATIC INFLAMMATIONProstatitis, Enlarged prostate, Help reduce swelling of prostate607DISORDER OF PENISdue to prostate cancer/vitality616INFLAMMATORY DISEASE OF CERVIX, VAGINA, AND VULVAvaginitis625FEMALE GENITAL SYMPTOMSDysmenorrhea, Premenstrual tension626DISORDER OF MENSTRUATIONMenstrual pain, Irregular period627MENOPAUSAL DISORDERSMenopausal disorder, Balancing hormones, Stabilizer for menopause, Menopause682CELLULITIS AND ABSCESS, UNSPECCellulitis690ERYTHEMATOSQUAMOUS DERMDry scalp	579	INTESTINAL MALABSORPTION	Celiac disease nutrition
599OTH URINARY TRACT DISORUrinary tract infection, UTI600HYPERPLASIA OF PROSTATEProstatic hypertrophy, Prostatic hyperplasia601PROSTATIC INFLAMMATIONProstatitis, Enlarged prostate, Help reduce swelling of prostate607DISORDER OF PENISdue to prostate cancer/vitality616INFLAMMATORY DISEASE OF CERVIX, VAGINA, AND VULVAvaginitis625FEMALE GENITAL SYMPTOMSDysmenorrhea, Premenstrual tension626DISORDER OF MENSTRUATIONMenstrual pain, Irregular period627MENOPAUSAL DISORDERSMenopausal disorder, Balancing hormones, Stabilizer for menopause, Menopause682CELLULITIS AND ABSCESS, UNSPECCellulitis690ERYTHEMATOSQUAMOUS DERMDry scalp	592	RENAL/URETERAL CALCULUS	Kidney stones,
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PROSTATIC INFLAMMATION reduce swelling of prostate 607 DISORDER OF PENIS due to prostate cancer/vitality 616 INFLAMMATORY DISEASE OF CERVIX, VAGINA, AND VULVA 625 FEMALE GENITAL SYMPTOMS Dysmenorrhea, Premenstrual tension 626 DISORDER OF MENSTRUATION Menstrual pain, Irregular period Menopausal disorder, Balancing hormones, Stabilizer for menopause, Menopause 682 CELLULITIS AND ABSCESS, UNSPEC Cellulitis 690 ERYTHEMATOSQUAMOUS DERM DISORDER Dry scalp	600	HYPERPLASIA OF PROSTATE	
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626 DISORDER OF MENSTRUATION Menstrual pain, Irregular period 627 MENOPAUSAL DISORDERS Menopausal disorder, Balancing hormones, Stabilizer for menopause, Menopause 682 CELLULITIS AND ABSCESS, UNSPEC Cellulitis 690 ERYTHEMATOSQUAMOUS DERM Dry scalp	616		vaginitis
627 MENOPAUSAL DISORDERS Menopausal disorder, Balancing hormones, Stabilizer for menopause, Menopause 682 CELLULITIS AND ABSCESS, UNSPEC 690 ERYTHEMATOSQUAMOUS DERM Dry scalp	625	FEMALE GENITAL SYMPTOMS	Dysmenorrhea, Premenstrual tension
627 MENOPAUSAL DISORDERS hormones, Stabilizer for menopause, Menopause 682 CELLULITIS AND ABSCESS, UNSPEC Cellulitis 690 ERYTHEMATOSQUAMOUS DERM Dry scalp	626	DISORDER OF MENSTRUATION	1 7 9 1
690 ERYTHEMATOSQUAMOUS DERM Dry scalp	627	MENOPAUSAL DISORDERS	hormones, Stabilizer for menopause,
	682	CELLULITIS AND ABSCESS, UNSPEC	Cellulitis
692 CONTACT DERMATITIS Eczema, Dermatitis, Poison Oak	690	ERYTHEMATOSQUAMOUS DERM	Dry scalp
Lazaria, Parinada, Falcon Gui	692	CONTACT DERMATITIS	Eczema, Dermatitis, Poison Oak
695 ERYTHEMATOUS CONDITIONS Rosacea, Lupus	695	ERYTHEMATOUS CONDITIONS	Rosacea, Lupus

ICD9M CODE	ICD9 CODE LABEL	Key Words/Common Responses
696	PSORIASIS/LIKE DISORDERS	Psoriasis
697	LICHEN	Lichen
698	PRURITUS & LIKE COND	Itch, Itching
702	OTHER DERMATOSES	Actinic keratosis
704	HAIR & FOLLICLE DISEASE	Hair thinning
706	SEBACEOUS GLAND DISEASE	Acne
708	URTICARIA	Hives, Chronic urticaria
709	OTHER SKIN DISORDERS	Scar
714	RHEUMATOID & OTH INFLAMM POLYARTHROP	Rheumatoid arthritis, RA
715	OSTEOARTHROSIS ET AL	Osteoarthritis
716	ARTHROPATHIES NEC/NOS	Arthritis, Arthritis pain
719	JOINT DISORDER NEC & NOS	Knee, shoulder, joint etc. pain or problem, Arthralgia,
721	SPONDYLOSIS AND ALLIED DISORDERS	Undifferentiated spondyloarthropathy
722	INTERVERTEBRAL DISC DIS	Degenerative spine condition
724	BACK DISORDER NEC & NOS	Back pain, Sciatica, Lumbar canal stenosis, Back spasms
727	OTH DIS SYNOV/TEND/BURSA	Bursitis
728	DIS OF MUSCLE/LIG/FASCIA	Muscle spasm
729	OTHER SOFT TISSUE DIS	Sore muscles, Leg pain/cramps, Muscle constriction, Rheumatism
733	OTH BONE & CARTILAGE DIS	Osteoporosis, Osteopenia, pain in bone, low bone density
753	CONGENITAL ANOMALIES OF URINARY SYSTEM	Polycystic kidney disease
780	GENERAL SYMPTOMS	Sleep aid, Night sweats, Vas-vagal syncope, Sensitive to cold, Stiff, Giddy, Insomnia, Vertigo, Memory problems
782	SKIN/OTH INTEGUMENT SYMP	Rash, Numbness of feet/finger/legs, Reduce keloidosis, Reduce skin inflammation, Edema
783	NUTRIT/METAB/DEVEL SYMP	Anorexia, Weight loss, Appetite suppressant
784	SYMPTOMS INVOL HEAD/NECK	Headache, Sore throat
785	CARDIOVASCULAR SYS SYMP	Heart murmur
786	RESP SYS/OTH CHEST SYMP	Difficulty breathing, Loosen phlegm, Short breath, Whooping cough, Chest tightness
787	GI SYSTEM SYMPTOMS	Gassy, Heartburn, Nausea
788	URINARY SYSTEM SYMPTOMS	Urination disorder, Frequent urination, Urination trouble/problem, Bladder control
789	OTH ABDOMEN/PELVIS SYMP	Stomach spasm, Stomach cramp, Groin pain

ICD9M CODE	ICD9 CODE LABEL	Key Words/Common Responses
797	SENILITY WITHOUT MENTION OF PSYCHOSIS	memory
904	INJURY TO BLOOD VESSELS OF LOWER EXTREMITY AND UNSPECIFIED SITES	Blood vessel injury
918	SUPERFICIAL INJURY OF EYE AND ADNEXA	Eye injury
919	SUPERFICIAL INJ OTH SITE	Blisters
957	INJURY TO NERVE NEC/NOS	Nerve damage
993	EFFECTS OF AIR PRESSURE	Altitude sickness
994	EFFECT EXTERNAL CAUS NEC	Motion sickness
995	CERTAIN ADVERSE EFF NEC	Inflammation, Food allergy, Allergy (non-specific)
9996	UNABLE TO CLASSIFY	
9997	DON'T KNOW	
9998	MISSING	
9999	INAPP	

Medical Claim ICD-10 Codes and Labels

The ICD10 CM category labels are based on clinical descriptions of diseases etc., thus, this table also contains a column listing key words/common phrases indicating the conditions/symptoms

etc. included in a given category.

ICD10 CM CODE	ICD10 CM CODE LABEL	Key Words/Common Responses
B00	HERPESVIRAL [HERPES SIMPLEX] INFECTIONS	Cold sores, Herpes
B02	ZOSTER [HERPES ZOSTER]	Shingles
B20	HUMAN IMMUNODEFICIENCY VIRUS [HIV] DISEASE	HIV
B34	VIRAL INFECTION OF UNSPECIFIED SITE	Anti-viral, viral infection
B35	DERMATOPHYTOSIS	Athlete's foot, Toe nail fungus, Fungal infection, Ringworm, Jock itch
B37	CANDIDIASIS	Yeast infection, Candida
B99	OTHER AND UNSPECIFIED INFECTIOUS DISEASES	Infectious disease, bacterial infection
C44	OTHER AND UNSPECIFIED MALIGNANT NEOPLASM OF SKIN	Skin cancer
C50	MALIGNANT NEOPLASM OF BREAST	Breast cancer
C67	MALIGNANT NEOPLASM OF BLADDER	Bladder cancer
C7A	MALIGNANT NEUROENDOCRINE TUMORS	Neuroendocrine carcinoid cancer
D64	OTHER ANEMIAS	Anemia
D69	PURPURA AND OTHER HEMORRHAGIC CONDITIONS	Low platelet count
D86	SARCOIDOSIS	Sarcoidosis
D89	OTHER DISORDERS INVOLVING THE IMMUNE MECHANISM, NOT ELSEWHERE CLASSIFIED	Autoimmune disease, poor immune system
E01	IODINE-DEFICIENCY RELATED THYROID DISORDER AND ALLIED CONDITIONS	lodine deficiency
E03	OTHER HYPOTHYROIDISM	Hypothyroidism, Thyroiditis, low thyroid, inactive thyroid function
E04	OTHER NONTOXIC GOITER	Goiters-Thyroid med, keeps goiters away
E05	THYROTOXICOSIS (HYPERTHYROIDISM)	Grave's disease, hyper thyroid
E07	OTHER DISORDERS OF THYROID	Thyroid hormone, thyroid issue, thyroid problem, thyroid health, thyroid
E10	TYPE 1 DIABETES MELLITUS	Diabetes, type 1
E11	TYPE 2 DIABETES MELLITUS	Diabetes, type 2; Diabetes (unspecified)
E27	OTHER DISORDERS OF ADRENAL GLAND	Adrenal gland disorder, Adrenal gland dysfunction
E28	OVARIAN DYSFUNCTION	Polycystic Ovarian Syndrome
E29	TESTICULAR DYSFUNCTION	Low testosterone levels
E53	DEFICIENCY OF OTHER B GROUP VITAMINS	Low B vitamin level, B12 deficiency
E54	ASCORBIC ACID DEFICIENCY	Vitamin C deficiency
E55	VITAMIN D DEFICIENCY	Low Vitamin D, Vitamin D deficiency, Vitamin D rickets

ICD10 CM CODE	ICD10 CM CODE LABEL	Key Words/Common Responses
E56	OTHER VITAMIN DEFICIENCIES	Vitamin, vitamin E deficiency
E61	DEFICIENCY OF OTHER NUTRIENT ELEMENTS	Magnesium supplement, Reduce phosphate, Supplement iron, iron deficiency (without anemia)
E63	OTHER NUTRITIONAL DEFICIENCIES	Needs protein
E78	DISORDERS OF LIPOPROTEIN METABOLISM AND OTHER LIPIDEMIAS	High cholesterol, Hyperlipidemia, High neutral lipid
E83	DISORDER OF MINERAL METABOLISM	Disorder of mineral metabolism
E87	OTHER DISORDERS OF FLUID, ELECTROLYTE AND ACID-BASE BALANCE	Low potassium, Potassium deficiency, Hypokalemia
F10	ALCOHOL RELATED DISORDERS	Preventing alcohol craving
F11	OPIOID RELATED DISORDERS	Heroin addiction maintenance
F17	NICOTINE DEPENDENCE	Smoking cessation
F20	SCHIZOPHRENIA	Schizophrenia
F29	UNSPECIFIED PSYCHOSIS NOT DUE TO A SUBSTANCE OR KNOWN PHYSIOLOGICAL CONDITION	Psychosis
F31	BIPOLAR DISORDER	Bipolar disorder
F33	MAJOR DEPRESSIVE DISORDER, RECURRENT	Depression, Anti-depressant (Recurrent or unspecified)
F34	PERSISTENT MOOD DISORDERS	Dysthymia
F39	UNSPECIFIED MOOD DISORDER	Mood swings, mood stabilizer, mood balance
F41	OTHER ANXIETY DISORDER	Tranquilizer, Stay calm, Anxiety, nervousness, 'Stabilizer'
F43	REACTION TO SEVERE STRESS, AND ADJUSTMENT DISORDERS	Stress, PTSD
F90	ATTENTION-DEFICIT HYPERACTIVITY DISORDER	ADD, ADHD
G20	PARKINSON'S DISEASE	Parkinson's disease
G24	DYSTONIA	Spasmodic torticollis, muscle dystonia
G25	OTHER EXTRAPYRAMIDAL AND MOVEMENT DISORDERS	Restless leg syndrome, Tick in eye, Tremors
G35	MULTIPLE SCLEROSIS	MS, Multiple sclerosis, Muscle fatigue
G40	EPILEPSY AND RECURRENT SEIZURES	Epilepsy, Seizure disorder, Focal seizures
G43	MIGRAINE	Migraine
G47	SLEEP DISORDERS	Narcolepsy, Insomnia, Sleep aid
G56	MONONEUROPATHIES OF UPPER LIMB	Carpal Tunnel
G70	MYASTHENIA GRAVIS AND OTHER MYONEURAL DISORDERS	Myasthenia gravis
G89	PAIN, NOT ELSEWHERE CLASSIFIED	Chronic pain syndrome, pain related to nervous system
G90	DISORDERS OF AUTONOMIC NERVOUS SYSTEM	Neuropathy in heart
H01	OTHER INFLAMMATION OF EYELID	Blepharitis, Inflammation of eye
H02	OTHER DISORDERS OF EYELID	Eyelash length

ICD10 CM CODE	ICD10 CM CODE LABEL	Key Words/Common Responses
H04	DISORDERS OF LACRIMAL SYSTEM	Dry eyes, Lacrimal gland disorder
H10	CONJUNCTIVITIS	Eye infection
H18	OTHER DISORDERS OF CORNEA	Corneal problem
H35	OTHER RETINAL DISORDERS	Macular degeneration
H40	GLAUCOMA	Glaucoma, pressure in eye, lower ocular pressure
H57	OTHER DISORDERS OF EYE AND ADNEXA	Itchy eyes, eye irritation, red eyes
H66	SUPPURATIVE AND UNSPECIFIED OTITIS MEDIA	Ear infection
H81	DISORDERS OF VESTIBULAR FUNCTION	Meniere's disease (Inner ear), Vertigo (if Ear related)
H93	OTHER DISORDERS OF EAR, NOT ELSEWHERE CLASSIFIED	Ringing ears, Tinnitus, Ear pain, Dry ear
I10	ESSENTIAL (PRIMARY) HYPERTENSION	High blood pressure, Hypertension, Reduce/lower blood pressure, Blood pressure, Anti-hypertensive
120	ANGINA PECTORIS	Angina pectoris, Angina
I21	ACUTE MYOCARDIAL INFARCTION	Myocardial infarction, Cardiac infarction
125	CHRONIC ISCHEMIC HEART DISEASE	Arterial Sclerosis
126	PULMONARY EMBOLISM	Heart pulmonary embolism
148	ATRIAL FIBRILLATION AND FLUTTER	Atrial fibrillation
149	OTHER CARDIAC ARRHYTHMIAS	Irregular pulse
150	HEART FAILURE	Heart Failure
I51	COMPLICATIONS AND ILL-DEFINED DESCRIPTIONS OF HEART DISEASE	Cardiac disease, Heart dilation, Dysraphism of aortic valve
167	OTHER CEREBROVASCULAR DISEASES	Aneurysm
170	ATHEROSCLEROSIS	Atherosclerosis
173	OTHER PERIPHERAL VASCULAR DISEASE	Raynaud's
182	OTHER VENOUS EMBOLISM AND THROMBOSIS	Anticoagulant, Thrombosis, Prevent thrombosis, Prevent blood clot, Thrombus
195	HYPOTENSION	Low blood pressure
J00	ACUTE NASOPHARYNGITIS [COMMON COLD]	Treat Cold, Acute Upper respiratory infection
J01	ACUTE SINUSITIS	Acute sinus problems, Post nasal drip, Nasal inflammation, Nasal mucus
J30	VASOMOTOR AND ALLERGIC RHINITIS	Hay fever, Dust allergy, Allergic rhinitis
J31	CHRONIC RHINITIS, NASOPHARYNGITIS AND PHARYNGITIS	Rhinitis, Chronic nasal congestion, Reduce swelling of nasal passages
J33	NASAL POLYP	Polyps in sinus
J34	OTHER AND UNSPECIFIED DISORDERS OF NOSE AND NASAL SINUSES	Deviated septum
J40	BRONCHITIS, NOT SPECIFIED AS ACUTE OR CHRONIC	Bronchitis
J43	EMPHYSEMA	Pulmonary emphysema, Emphysema
J44	OTHER CHRONIC OBSTRUCTIVE PULMONARY DISEASE	COPD

ICD10 CM CODE	ICD10 CM CODE LABEL	Key Words/Common Responses
J45	ASTHMA	Asthma
J84	OTHER INTERSTITIAL PULMONARY DISEASES	Repair damage to lung
J98	OTHER RESPIRATORY DISORDERS	Bronchial spasm prevention
K01	EMBEDDED AND IMPACTED TEETH	Toothache
K04	DISEASES OF PULP AND PERIAPICAL TISSUES	Dental abscess, root canal, root canal infection
K12	STOMATITIS AND RELATED LESIONS	Stomatitis, Canker sores
K13	OTHER DISEASES OF LIP AND ORAL MUCOSA	Chapped lips
K21	GASTRO-ESOPHAGEAL REFLUX DISEASE	Acid Reflux, GERD, Backward flow of gastric acid
K22	OTHER DISEASES OF ESOPHAGUS	Esophagus trouble
K25	GASTRIC ULCER	Gastric ulcer
K26	DUODENAL ULCER	Duodenal ulcer
K29	GASTRITIS AND DUODENITIS	Gastritis, Inflammation of stomach
K30	FUNCTIONAL DYSPEPSIA	Dyspepsia, indigestion
K31	OTHER DISEASES OF STOMACH AND DUODENUM	Gastric hyperacidity, Neutralize/reduce gastric acid, stomach acid
K44	DIAPHRAGMATIC HERNIA	Hernia, High hiatal, hiatal hernia
K50	CROHN'S DISEASE [REGIONAL ENTERITIS]	Crohn's disease
K52	OTHER AND UNSPECIFIED NONINFECTIVE GASTROENTERITIS AND COLITIS	Gastroenteritis, Colitis, Inflammation of intestines
K57	DIVERTICULAR DISEASE OF INTESTINE	Diverticulitis
K58	IRRITABLE BOWEL SYNDROME	Irritable bowel, IBS
K59	OTHER FUNCTIONAL INTESTINAL DISORDERS	Constipation, Bowel movement, Intestinal disorder, laxative
K82	OTHER DISEASES OF GALLBLADDER	Gallbladder polyp, elongated bile duct
K90	INTESTINAL MALABSORPTION	Celiac disease nutrition
L03	CELLULITIS AND ACUTE LYMPHANGITIS	Cellulitis
L21	SEBORRHEIC DERMATITIS	Dry scalp
L29	PRURITUS	Itch, Itching
L30	OTHER AND UNSPECIFIED DERMATITIS	Eczema, Dermatitis, reduce skin inflammation
L40	PSORIASIS	Psoriasis, skin palmoplantar pustulosis
L50	URTICARIA	Hives, Chronic urticaria
L57	SKIN CHANGES DUE TO CHRONIC EXPOSURE TO NONIONIZING RADIATION	Actinic keratosis
L65	OTHER NONSCARRING HAIR LOSS	Hair thinning
L70	ACNE	Acne
L71	ROSACEA	Rosacea
L85	OTHER EPIDERMAL THICKENING	Scar, dry skin
L90	ATROPHIC DISORDERS OF SKIN	Lichen sclerosis

ICD10 CM CODE	ICD10 CM CODE LABEL	Key Words/Common Responses
L93	LUPUS ERYTHEMATOSUS	Lupus, non-systemic
M05	RHEUMATOID ARTHRITIS WITH RHEUMATOID FACTOR	Rheumatoid arthritis, RA, (based on rarity of RA diagnosis without Rheumatoid factor)
M10	GOUT	Gout
M13	OTHER ARTHRITIS	Arthritis, Arthritis pain
M19	OTHER AND UNSPECIFIED OSTEOARTHRITIS	Osteoarthritis
M25	OTHER JOINT DISORDER, NOT ELSEWHERE CLASSIFIED	Knee, shoulder, hip, joint etc. pain or problem, Arthralgia
M26	DENTOFACIAL ANOMALIES	Temporomandibular joint dysfunction, TMJ
M47	SPONDYLOSIS	Undifferentiated spondyloarthropathy
M51	THORACIC, THORACOLUMBAR, AND LUMBOSACRAL INTERVERTEBRAL DISC DISORDERS	Degenerative spine condition
M54	DORSALGIA	Cervical vertebra pain, Pinched nerve, Neck pain, Back pain, Sciatica
M62	OTHER DISORDERS OF MUSCLE	Muscle spasm, Back spasms, muscle pain, muscle relaxant
M70	SOFT TISSUE DISORDERS RELATED TO USE, OVERUSE AND PRESSURE	Bursitis
M72	FIBROBLASTIC DISORDERS	Plantar fasciitis
M79	OTHER AND UNSPECIFIED SOFT TISSUE DISORDERS, NOT ELSEWHERE CLASSIFIED	Leg pain, limb pain, neuralgia, fibromyalgia, nerve pain, foot pain
M81	OSTEOPOROSIS WITHOUT CURRENT PATHOLOGICAL FRACTURE	Osteoporosis (without fracture)
M85	OTHER DISORDERS OF BONE DENSITY AND STRUTURE	Osteopenia, pain in bone, low bone density
N20	CALCULUS OF KIDNEY AND URETER	Kidney stones
N32	OTHER DISORDERS OF BLADDER	Bladder tone
N39	OTHER DISORDERS OF URINARY SYSTEM	Urinary tract infection, UTI, Urination disorder, Frequent urination, Urination trouble/problem, Bladder control
N40	BENIGN PROSTATIC HYPERPLASIA	Prostatic hypertrophy, Prostatic hyperplasia
N41	INFLAMMATORY DISEASES OF PROSTATE	Prostatitis, Enlarged prostate, Help reduce swelling of prostate
N48	OTHER DISORDER OF PENIS	Balanitis
N52	MALE ERECTILE DYSFUNCTION	Impotence, Erectile dysfunction, due to prostate cancer/vitality
N76	OTHER INFLAMMATION OF VAGINA AND VULVA	Vaginitis
N92	EXCESSIVE, FREQUENT AND IRREGULAR MENSTRUATION	Irregular period
N94	PAIN AND OTHER CONDITIONS ASSOCIATED WITH FEMALE GENITAL ORGANS AND MESTRUAL CYCLE	Dysmenorrhea, Premenstrual tension, Menstrual pain
N95	MENOPAUSAL AND OTHER PERIMENOPAUSAL DISORDERS	Menopausal disorder, Balancing hormones, Stabilizer for menopause, Menopause, hot flashes

ICD10 CM CODE	ICD10 CM CODE LABEL	Key Words/Common Responses
Q61	CYSTIC KIDNEY DISEASE	Polycystic kidney disease
R00	ABNORMALITIES OF HEART BEAT	Heart palpitations
R05	COUGH	Cough
R06	ABNORMALITIES OF BREATHING	Difficulty breathing, shortness of breath, breathing issues
R07	PAIN IN THROAT AND CHEST	Chest tightness, Sore throat
R09	OTHER SYMPTOMS AND SIGNS INVOLVING THE CIRCULATORY AND RESPIRATORY SYSTEM	Loosen phlegm, nasal congestion, stuffy nose, decongestion
R10	UNSPECIFIED ABDOMINAL PAIN	Stomach spasm, Stomach cramp, Groin pain, Stomach pain, Colon cramps
R11	NAUSEA AND VOMITING	Nausea
R12	HEARTBURN	Heartburn
R14	FLATULENCE AND RELATED CONDITIONS	Gassy, gas, anti-gas, relieve gas
R19	OTHER SYMPTOMS AND SIGNS INVOLVING THE DIGESTIVE SYSTEM AND ABDOMEN	Diarrhea
R21	RASH AND OTHER NONSPECIFIC SKIN ERUPTION	Rash, skin irritation
R23	OTHER SKIN CHANGES	Blisters
R25	ABNORMAL INVOLUNTARY MOVEMENT	Muscle spasm/cramps, Tremor
R40	SOMNOLENCE, STUPOR AND COMA	Alertness, increase wakefulness, prevent sleepiness
R41	OTHER SYMPTOMS AND SIGNS INVOLVING COGNITIVE FUNCTIONS AND AWARENESS	Memory problems
R42	DIZZINESS AND GIDDINESS	Giddy, dizzy, vertigo (if not ear related)
R51	HEADACHE	Headache
R52	PAIN, UNSPECIFIED	Pain, pain relief, body aches. (Use this code if R specified multiple locations of pain)
R55	SYNCOPE AND COLLAPSE	Vas-vagal syncope, syncope, prevent fainting
R56	CONVULSIONS, NOT ELSEWHERE CLASSIFIED	Seizures
R60	EDEMA, NOT ELSEWHERE CLASSIFIED	Edema
R61	GENERALIZED HYPERHIDROSIS	Night sweats, excessive sweating
R63	SYMPTOMS AND SIGNS CONCERNING FOOD AND FLUID INTAKE	Anorexia, Weight loss, Appetite suppressant (RX meds only, use MIDUS code for OTC/ALT meds)
R65	SYMPTOMS AND SIGNS SPECIFICALLY ASSOCIATED WITH SYSTEMIC INFLAMMATION AND INFECTION	Inflammation, anti-inflammatory, infection (non-specific)
R68	OTHER GENERAL SYMPTOMS AND SIGNS	Tendonitis of jaw, Dry mouth, saliva production
R73	ELEVATED BLOOD GLUCOSE LEVEL	High blood sugar, pre-diabetic, borderline diabetes
S05	INJURY OF EYE AND ORBIT	Eye injury
T14	INJURY OF UNSPECIFIED BODY REGION	Blood vessel injury

ICD10 CM CODE	ICD10 CM CODE LABEL	Key Words/Common Responses
T45	POISONING BY, ADVERSE EFFECT OF AND UNDERDOSING OF PRIMARILY SYSTEMIC AND HEMATOLOGICAL AGENTS, NOT ELSEWHERE CLASSIFIED	Prevent hair loss (side effect of methotrexate)
T70	EFFECTS OF AIR PRESSURE AND WATER PRESSURE	Altitude sickness
T75	OTHER AND UNSPECIFIED EFFECTS OF OTHER EXTERNAL CAUSES	Motion sickness
T78	ADVERSE EFFECTS, NOT ELSEWHERE CLASSIFIED	Allergy (non-specific)
W55	CONTACT WITH OTHER MAMMALS	Cat bite
Z29	ENCOUNTER FOR OTHER PROPHYLACTIC MEASURES	Prophylactic (RX meds only, use MIDUS code for OTC/ALT meds)
Z48	ENCOUNTER FOR OTHER POSTPROCEDURAL AFTERCARE	Eye surgery, eye support for surgery recovery, to aid healing from prostate surgery
Z79	LONG TERM (CURRENT) DRUG THERAPY	Diuretic, Blood thinner (RX meds only, use MIDUS code for OTC/ALT meds)
Z82	FAMILY HISTORY OF CERTAIN DISABILITIES AND CHRONIC DISEASES	Family history of heart diseases
Z85	PERSONAL HISTORY OF MALIGNANT NEOPLASM	Cancer recovery
Z87	PERSONAL HISTROY OF OTHER DISEASES AND CONDITIONS	Transgender, transitions
Z91	PERSONAL RISK FACTORS, NOT ELSEWHERE CLASSIFIED	Bug bites, prevent infection
Z94	TRANSPLANTED ORGAN AND TISSUE STATUS	Kidney transplant, immunosuppressant after kidney transplant
Z9996	UNABLE TO CLASSIFY	
Z9997	DON'T KNOW	
Z9998	MISSING	
Z9999	INAPP	

MIDUS Codes and Labels

To assist users in understanding the type of responses in the MIDUS code categories this table also contains a column listing key words/common phrases used to assign a response to a given category. Note all the MIDUS codes are alphanumeric and begin with a "M" followed by a 4-digit numeric code. The exception is the codes for "Unable to Classify", "Don't Know", "Missing", and

"INAPP" which begin with a "Z" and the usual missing value codes.

MIDUS CODE	MIDUS CODE LABEL	Key words/Common Phrases
M1000	GENERAL HEALTH	Health, For health, Maintain Health
M1010	IMPROVE HEALTH	Improve health, Strengthen the system, For healing, Recovery from (cancer, surgery, etc.), Getting better
M1020	ENERGY	Gives me a boost, When feel run down, Increase energy, Improve drive, When tired
M1030	GENERAL HEALTH, OTHERS	Beauty, Aging, Stay younger, Detox, Cleanse body
M1040	GENERAL HEALTH, PREVENTIVE	Preventive, prevention, prevent potential sickness
M2000	SUPPLEMENT	Supplement (just the word)
M2010	VITAMIN SUPPLEMENT	Lacking vitamins, To supply vitamins, Get balance of vitamins
M2020	CALCIUM SUPPLEMENT	Calcium, Need more calcium, Don't drink milk
M2030	DIETARY SUPPLEMENT	Supplement diet, Balance diet needs
M2040	ENSURE NUTRITIONAL INTAKES	Nutrient fortification, Add nutrients, Balance nutrition
M2060	ANTIOXIDANT	Antioxidants, Help with free radicals,
M2070	SUPPLEMENT, OTHERS	Iron pill, Resupply iron, Omega 3, Fiber, Probiotics
M3010	CARDIOVASCULAR HEALTH	Heart health, Good for heart, Cardiovascular health
M3011	CARDIOVASCULAR HEALTH, PREVENTIVE	Cardiac family history, prevent clots/stroke/heart attack/atherosclerosis
M3012	CARDIOVASCULAR HEALTH, BLOOD THINNER	Blood thinner
M3013	CARDIOVASCULAR HEALTH, OTHERS	Improve blood circulation, Neutral fat,
M3020	MUSCULOSKELETAL HEALTH	Bone health, Because of broken bones, Health leg and hip,
M3021	BONE STRENGTH/DENSITY	Bone strength/density/loss/mass
M3022	JOINT HEALTH	Healthy joints, Good for bones-joints, Maintain bone and joint health
M3023	MUSCULOSKELETAL HEALTH, PREVENTIVE	Prevent bone loss, Prevent Osteoporosis
M3024	MUSCULOSKELETAL HEALTH, OTHERS	Repair muscles, Get older legs weaken, Bone/Muscle
M3030	DIGESTIVE HEALTH	Digestion, Break down food, Help digest food, Condition of my stomach

MIDUS CODE	MIDUS CODE LABEL	Key words/Common Phrases
M3031	INTESTINAL/COLON HEALTH	Colon health, Cleans out colon, Regularity, To condition intestinal functions,
M3032	STOMACH ACID	Stomach Acid
M3040	PROSTATE HEALTH	Prostate health, Prostate gland, Prostate problem,
M3050	EYE HEALTH	Eye health, Good for eyes, Nutrients for eyes, Tired eyes, Eye problem, Uveal tract
M3060	BRAIN HEALTH	Boost cognitive abilities, Memory, Good for your brain, Brain health, Brain function, Avoid senile brain,
M3070	IMMUNE HEALTH	Boost/support immune system, Beneficial for immune system,
M3071	PREVENT COLDS	Prevent catching cold, Improve sensitivity to colds
M3072	IMMUNOSUPRESSION	Immunosuppressant, Immunosuppressant after kidney transplant
M3080	INTEGUMENT HEALTH	Hair/Skin/Nail health, Dry skin/hair, For skin, To avoid tanning/sunburn, Liver spot, Rough hands
M3090	OTHER TARGETED HEALTH	Low frequency reasons that cannot be assigned elsewhere (e.g. Multiple organ/system support (i.e. eye & bone, prevent cancer and strokes), Bladder protection, Protect liver from alcohol, Liver, Chronic illness)
M4010	MD RECOMMEND	Doctor suggested/prescribed/recommended/ "told me to"
M4020	GOOD FOR YOU/ME	Good for me/you, Everyone says it's a good idea, Healthy thing to do, Heard it's good for you, saw on TV etc.
M4030	FAMILY/FRIEND RECOMMEND	Friend, Family member, Mother, etc. recommended it, Spouse puts it out,
M5000	WEIGHT LOSS	Lose weight, Weight management, Diet plan pills
M5100	STRESS	For stress, helps with stress
M5200	CONTRACEPTION	Birth Control, Prevent Pregnancy
M5300	COUNTER/PREVENT DRUG SIDE EFFECTS	counter the effects of statin, prevent side effect of Lipitor, help with side effects of atorvastatin, etc.
Z9996	UNABLE TO CLASSIFY	
Z9997	DON'T KNOW	
Z9998	MISSING	
Z9999	INAPP	