



MULTICENTER OSTEOARTHRITIS STUDY
MEDICATION INVENTORY DATASET DESCRIPTION

V01235MIF

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1. Dataset description and Analyst Notes

Dataset: V01235MIF.sas7bdat

Observations: 81199 records (multiple records per participant)

Documentation:

- VariableGuide_V01235MIF.pdf
- Distributions_V01235MIF.pdf
- MOST_IDISLegend.pdf
- Operation manual chapter: Cycle 1: 4L_MedicationInventory1.0pMay2009.pdf and Cycle 2: 3E_MedicationInventory_v1.0p_June 2013.pdf

V01235MIF dataset contains 81199 records, one record per ingredient; multiple records per participant with Medication Inventory Form (MIF) data collected during MOST visits (baseline (V0) to 84M (V5) clinic visit). See Medication Inventory Operations Manual for the protocol (https://agingresearchbiobank.nia.nih.gov/studies/most/documents/?f=Manual_of_Procedures). See calculated variables for specific medication class (See AnnotatedForms_Baseline page 64).

The Medication Inventory Form Distributions dataset provides the [Iowa Drug Information Service \(IDIS\)](#) ingredient code and name, formulation code, duration, and frequency of use for prescription medications taken by MOST participants within the last 30 days at the time of the Clinic Visit. The dataset (N=81199) is structured as one row per active ingredient. For each medication, the list of ingredients is reviewed by a UCSF specialist who assigns the IDIS code and medication ingredient name. These are industry specific codes that make it possible to cross-reference an active ingredient across different medications. The dataset V01235MIF includes medication codes from [IDIS version 4.0 \(4/2/12\)](#).

Analysts may consult the MOST IDIS Legend file to assess the number of times that a medication ingredient or drug class was reported as taken and the number of participants and percent of total participants who have taken a medication or drug class. The legend is hierarchically organized by IDIS code. Analysts should be aware that a medication may have multiple ingredients.

NOTE – in rare instances, an active ingredient was reported by a participant more than one time for the various reasons: RX and non-RX, different formulation code or different frequency usage. This resulted in duplicate records by ID+visit+IDISCODE. Coordinating Center recommends exploring data in detail and check all parameters (if available).

2. Dataset structure

- Variables #1 to #3 indicators for ID and visit when collection was completed.
- Variable VISIT values:
 - V0 = Baseline Clinic Visit
 - V1 = 15-month Clinic Visit (subset of participants were eligible for MIF collection)
 - V2 = 30-month Clinic Visit
 - V3 = 60-month Clinic Visit (only RX MIF was recorded according to protocol)
 - V5 = 84-month Clinic Visit (only RX MIF was recorded according to protocol)
- Variables #4 and #5 – IDIS code and IDIS name for active ingredient.

- Variables #6 to #9 – indicators for usage: formulation code, duration of use, indicator for RX or non-RX and frequency of use. NOTE: for the standard calculated variables included in the visit data (VxENROLL) usage details were not used (except formulation code) to derive indicator (1/0).

Investigators should also keep in mind that IDIS currently classifies some ingredients under multiple hierarchical headings. In addition, investigators should be aware that IDIS uses both 7- and 8-digit ingredient codes. It is therefore easy to accidentally pull out all “blood formation & coagulation” agents (20000000) when looking for “antigout agents” (2000000), etc.

In addition to IDIS Ingredient Name (IDSNAME) and IDIS Ingredient Code (IDSCODE), form data from the MIF includes frequency, duration of medication usage, prescription vs. nonprescription information, and formulation codes. Formulation codes were not collected until December 2004; medication inventory data prior to this do not have formulation information. Each participant may have multiple records in this dataset. In addition, each medication that a participant reported taking may have been coded to more than one ingredient. Participants that did not record taking any medications will have a missing (“.”) entry in this dataset. There are medication calculated variables for medication groups that may be of interest; these are located in the calculated variables dataset (VxENROLL).

3. Reference

For further information about IDIS, please see the following citation:

Pahor M, Chrischilles EA, Guralnik, JM. Drug data coding and analysis in epidemiologic studies, Eur J Epidemiol. 1994 Aug;10(4):405-11.