

Intermediate Data Test – Medicare Synthetic

The enclosed Medicare Synthetic database (a synthetic insurance claims database) contains data for a sample of 3072 patients from 2008-01-01 to 2010-12-31. A high level overview of the files is presented below. For a more comprehensive overview of variables please reference the [Data Dictionary](#) and [Centers for Medicare and Medicaid Services](#)

Each record contains a “DESYNPUF_ID” field which is an ID that corresponds to a specific patient, and tracks patients across file types. A single patient will have many records.

Inpatient: Claims recorded in the Inpatient Hospital setting. Includes:

- diagnoses (ADMTNG_ICD9_DGNS_CD, ICD9_DGNS_CD_1 through ICD9_DGNS_CD_10)
- procedures (ICD9_PRCDR_CD_1 through ICD9_PRCDR_CD_6, HCPCS_CD_1 through HCPCS_CD_45)
- additional provider and cost information

Carrier: Claims recorded from the physician/supplier. Includes:

- diagnoses (ICD9_DGNS_CD_1 through ICD9_DGNS_CD_8, LINE_ICD9_DGNS_CD_1 through LINE_ICD9_DGNS_CD_13)
- procedures (HCPCS_CD_1 through HCPCS_CD_13)
- additional provider and cost information

Outpatient: Claims recorded in the Outpatient Hospital setting. Includes:

- diagnoses (ADMTNG_ICD9_DGNS_CD, ICD9_DGNS_CD_1 through ICD9_DGNS_CD_10)
- procedures (ICD9_PRCDR_CD_1 through ICD9_PRCDR_CD_6, HCPCS_CD_1 through HCPCS_CD_45)
- additional provider and cost information

Prescription: Part D prescription drug claims. Includes:

- PROD_SRVC_ID (NDC - National Drug Code drug identifier)
- DAYS_SUPPLY_NUM (Number of Days Supplied)
- additional cost information

Beneficiary:

- Patient level demographic information
- Note: this file has been stripped down to only a few fields necessary for the test

Additional Attachments: (Provided by BHE)

NDC Medication Codes for Lovastatin (lovastatin.txt)

Cohort Selection

From the given 3072 patient data sample, please determine the counts of patients eligible for each cohort node criteria below.

To clarify, only the patients who meet the Cohort 1 criteria should be considered for Cohort 2, and only patients who meet the Cohort 2 criteria should be considered for Cohort 3.

For Outpatient, Inpatient, and Carrier please use the "CLM_FROM_DT" for the date variable. For prescriptions, use "SRVC_DT"

1. Select patients with a diagnosis of diabetes (diagnosis code '250*') in the year 2009. The first diabetes diagnosis date in 2009 for each patient is referenced as the "Diabetes Index Date". Any diagnosis code from any file (Inpatient, Outpatient, Carrier) starting with '250' can be considered a match.
2. Filter to patients with a prescription of Lovastatin **within one year following their diabetes index date**. Please use the attached lovastatin.txt NDC codes to find a match.
3. Filter to patients who are greater than or equal to 65 years old at the time of their diabetes index date.

Node 1 (Diabetes): X patients



Node 2 (Lovastatin): Y patients



Node 3 (Age): Z patients

Results:

Section	Count
Node 1	
Node 2	
Node 3	