

Medicare Part D Prescribers Datasets: Technical Specifications

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Part D Prescriber PUF Technical Specifications

This programming specifications appendix provides users with additional information about how the Part D Prescribers Datasets were developed. It describes the source data used in creating the file, including any supplemental information beyond the Medicare Part D event data. This document also describes the step-by-step methodology CMS used to create the Part D Prescriber Dataset.

Source Data:

- 1. CMS Part D Event (PDE) Calendar Year Data available at: <u>http://www.resdac.org/cms-data/files/pde</u>.
- 2. *Medicare Part D Drug Characteristics Data* available at: <u>https://www.resdac.org/cms-data/files/part-d-drug-characteristics-file-0</u>.
- 3. Master Beneficiary Summary Calendar Year Data available at: <u>https://www.resdac.org/cms-data/files/mbsf-base</u>.
- 4. CMS National Plan and Provider Enumeration System (NPPES) Name and Address data available at: <u>http://download.cms.gov/nppes/NPI_Files.html</u>. The most current NPPES name and address information for active NPIs is in the "NPPES Data Dissemination (month, DD, YYYY)" full NPI replacement file.
- 5. CMS Carrier Calendar Year Data see: https://www.resdac.org/cms-data/files/carrier-ffs.
- 6. CMS Durable Medical Equipment, Prosthetic, Orthotic and Other Supplies (DMEPOS) Calendar Year Data see: <u>http://www.resdac.org/cms-data/dme-ffs</u>.
- 7. CMS Provider Specialty Descriptions available at: <u>https://data.cms.gov/Medicare-Enrollment/CROSSWALK-MEDICARE-PROVIDER-SUPPLIER-to-HEALTHCARE/j75i-rw8y</u>. The provider specialty crosswalk is titled "Taxonomy Crosswalk (Updated MM-DD-YYY)".
- 8. National Uniform Claim Committee (NUCC) taxonomy code set available at: <u>http://www.nucc.org/index.php?option=com_content&view=article&id=107&Itemid=132</u>.

Methodology:

Step 1: Starting with the CMS PDE Calendar Year Data (which includes Part D Drug Characteristics Data pre-merged when requested together), exclude over-the-counter drugs from this file using the following criteria:

• Drug Coverage Status Code (DRCVSTCD) **NOT** = "O" (*To exclude over-the-counter drugs*)

Step 2: Create the following variables (and limit the file to only these variables) from CMS PDE Calendar Year Data from Step 1:

- **NPI** = CCW Prescriber ID (CCW_PRSCRBR_ID)
- **Beneficiary_id** = Encrypted CCW Beneficiary ID (BENE_ID)
- **drug_name** = Brand Name (BN)
- generic_name = Generic Name (GNN)
- total_day_supply = Days Supply (DAYSSPLY)
- total_drug_cost = Gross Drug Cost (TOTALCST)
- Derive total_30_day_fill_count = total_day_supply / 30; when total_30_day_fill_count < 1 then set total_30_day_fill_count = 1; when total_30_day_fill_count > 12 then set total_30_day_fill_count = 12

Step 3: Merge output from Step 2 (retaining all data if matched) using **Beneficiary_id** with the Master Beneficiary Summary Calendar Year Data using **Encrypted CCW Beneficiary ID (BENE_ID)** and attach the following:

- Derive AgeGE65 = 1 when Age at End of Reference Year (AGE) > 64; otherwise AGEGE65 = 0
- Derive PartD_indicator = value of "PDP" when first character of any of the 12 monthly
 Encrypted Contract ID (CNTRCT<month>) is equal to a value of "E", "S", or "X"; otherwise
 PartD_indicator = value of "MAPD" when first character of any of the 12 monthly Encrypted
 Contract ID (CNTRCT<month>) is equal to a value of "H", or "R"; otherwise drop the record (not
 Part D enrolled)

Step 4: Summarize the following variables from the output from Step 3 to the **NPI**, **drug_name**, and **generic_name**:

- **bene_count** = distinct count of beneficiary_id
- total_claim_count = sum of 1 (represents count of prescription drug events)
- total_day_supply = sum of total_day_supply
- total_drug_cost = sum of total_drug_cost
- **bene_count_ge65** = distinct count of beneficiary_id when AgeGE65 = 1
- total_claim_count_ge65 = sum of 1 (represents count of prescription drug events) when AgeGE65 = 1
- total_day_supply_ge65 = sum of total_day_supply when AgeGE65 = 1
- total_drug_cost_ge65 = sum of total_drug_cost when AgeGE65 = 1
- total_30_day_fill_count_ge65 = sum of total_30_day_fill_count when AgeGE65 = 1

Step 5: Merge output from Step 4 (retaining all data if matched) using **NPI** with the NPPES Name and Address Data using **NPI** and attach the following:

- **nppes_provider_last_org_name** = Provider Organization Name (Legal Business Name) when Entity Type Code = "O"; else Provider Last Name (Legal Name) when Entity Type Code = "I"
- nppes_provider_first_name = Provider First Name

- **nppes_provider_city** = Provider Business Practice Location Address City Name
- **nppes_provider_state** = Provider Business Practice Location Address State Name
- Derive provider_taxonomy_code = Taxonomy Code when associated Primary Taxonomy = "Y"

Step 6: Derive a single **specialty_description** and **description_flag** based on the hierarchy described below.

- a. CMS Carrier Calendar data:
 - o Extract the following variables from the CMS Carrier Calendar Year Data
 - NPI = Carrier Line Performing NPI Number (PRFNPI)
 - Provider_specialty_code = Line HCFA Provider Specialty Code (HCFASPCL)
 - line_srvc_cnt = Line Service Count (SRVC_CNT)
 - Derive a single provider_specialty_code for each NPI record based on the provider_specialty_code associated with the maximum line_srvc_cnt
 - Derive specialty_description = "Medicare Provider/Supplier Type Description" from CMS Provider Specialty Descriptions using provider_specialty_code
- b. CMS DMEPOS Calendar Year data:
 - Extract the following variables from the CMS DMEPOS Calendar Data
 - **NPI** = DMERC Line Item Supplier NPI Number (SUP_NPI)
 - Provider_specialty_code = Line HCFA Provider Specialty Code (HCFASPCL)
 - line_srvc_cnt = Line Service Count (SRVC_CNT)
 - Derive a single provider_specialty_code for each NPI record based on the provider_specialty_code associated with the maximum line_srvc_cnt
 - Derive specialty_description = "Medicare Provider/Supplier Type Description" from CMS Provider Specialty Descriptions using provider_specialty_code
- c. Merge output from Step 6 a. using **NPI** with the output from Step 6 b. using **NPI**.
 - Derive a single NPI with specialty_description = specialty_description from Step 6 a.; otherwise specialty_description = specialty_description from Step 6 b.
 - Set **description_flag** = "S"

Step 7: Merge the **NPI** from the output from Step 5 (retaining all records) with the **NPI** from the output from Step 6 c.:

• If NPI from the output from Step 5 = NPI from the output from Step 6 c. then attach specialty_description and description_flag; otherwise

- When **provider_taxonomy_code** crosswalks to a single "Medicare Provider/Supplier Type Description" from CMS Provider Specialty Descriptions then derive **specialty_description** = "Medicare Provider/Supplier Type Description" and **description_flag** = "S"; otherwise
- Derive **specialty_description** = "Classification" from the NUCC Taxonomy Set using provider_taxonomy_code and set **description_flag** = "T"