

## 4. Summary of Variables of the CMS Linkable 2008–2010 Medicare DE-SynPUF

Please refer to the *CMS Linkable 2008–2010 Medicare DE-SynPUF Codebook* for more detailed information about the data. Next, we list the variables and their labels in each of the files.

1. The *CMS Beneficiary Summary DE-SynPUF* contains 32 variables. Each record pertains to a synthetic Medicare beneficiary and contains:

#	Variable names	Labels
1	<i>DESYNPUF_ID</i>	DESYNPUF: Beneficiary Code
2	<i>BENE_BIRTH_DT</i>	DESYNPUF: Date of birth
3	<i>BENE_DEATH_DT</i>	DESYNPUF: Date of death
4	<i>BENE_SEX_IDENT_CD</i>	DESYNPUF: Sex
5	<i>BENE_RACE_CD</i>	DESYNPUF: Beneficiary Race Code
6	<i>BENE_ESRD_IND</i>	DESYNPUF: End stage renal disease Indicator
7	<i>SP_STATE_CODE</i>	DESYNPUF: State Code
8	<i>BENE_COUNTY_CD</i>	DESYNPUF: County Code
9	<i>BENE_HI_CVRAGE_TOT_MONS</i>	DESYNPUF: Total number of months of part A coverage for the beneficiary.
10	<i>BENE_SMI_CVRAGE_TOT_MONS</i>	DESYNPUF: Total number of months of part B coverage for the beneficiary.
11	<i>BENE_HMO_CVRAGE_TOT_MONS</i>	DESYNPUF: Total number of months of HMO coverage for the beneficiary.
12	<i>PLAN_CVRG_MOS_NUM</i>	DESYNPUF: Total number of months of part D plan coverage for the beneficiary.
13	<i>SP_ALZHDMTA</i>	DESYNPUF: Chronic Condition: Alzheimer or related disorders or senile
14	<i>SP_CHF</i>	DESYNPUF: Chronic Condition: Heart Failure
15	<i>SP_CHRNKIDN</i>	DESYNPUF: Chronic Condition: Chronic Kidney Disease
16	<i>SP_CNCR</i>	DESYNPUF: Chronic Condition: Cancer
17	<i>SP_COPD</i>	DESYNPUF: Chronic Condition: Chronic Obstructive Pulmonary Disease
18	<i>SP_DEPRESSN</i>	DESYNPUF: Chronic Condition: Depression
19	<i>SP_DIABETES</i>	DESYNPUF: Chronic Condition: Diabetes
20	<i>SP_ISCHMCHT</i>	DESYNPUF: Chronic Condition: Ischemic Heart Disease
21	<i>SP_OSTEOPRS</i>	DESYNPUF: Chronic Condition: Osteoporosis
22	<i>SP_RA_OA</i>	DESYNPUF: Chronic Condition: rheumatoid arthritis and osteoarthritis (RA/OA)
23	<i>SP_STRKETIA</i>	DESYNPUF: Chronic Condition: Stroke/transient Ischemic Attack
24	<i>MEDREIMB_IP</i>	DESYNPUF: Inpatient annual Medicare reimbursement amount
25	<i>BENRES_IP</i>	DESYNPUF: Inpatient annual beneficiary responsibility amount
26	<i>PPPYMT_IP</i>	DESYNPUF: Inpatient annual primary payer reimbursement amount

#	Variable names	Labels
27	<i>MEDREIMB_OP</i>	DESYNPUF: Outpatient Institutional annual Medicare reimbursement amount
28	<i>BENRES_OP</i>	DESYNPUF: Outpatient Institutional annual beneficiary responsibility amount
29	<i>PPPYMT_OP</i>	DESYNPUF: Outpatient Institutional annual primary payer reimbursement amount
30	<i>MEDREIMB_CAR</i>	DESYNPUF: Carrier annual Medicare reimbursement amount
31	<i>BENRES_CAR</i>	DESYNPUF: Carrier annual beneficiary responsibility amount
32	<i>PPPYMT_CAR</i>	DESYNPUF: Carrier annual primary payer reimbursement amount

2. The *CMS Inpatient Claims DE-SynPUF* contains 81 variables. Each record pertains to a synthetic inpatient claim and contains:

#	Variable names	Labels
1	<i>DESYNPUF_ID</i>	DESYNPUF: Beneficiary Code
2	<i>CLM_ID</i>	DESYNPUF: Claim ID
3	<i>SEGMENT</i>	DESYNPUF: Claim Line Segment
4	<i>CLM_FROM_DT</i>	DESYNPUF: Claims start date
5	<i>CLM_THRU_DT</i>	DESYNPUF: Claims end date
6	<i>PRVDR_NUM</i>	DESYNPUF: Provider Institution
7	<i>CLM_PMT_AMT</i>	DESYNPUF: Claim Payment Amount
8	<i>NCH_PRMRY_PYR_CLM_PD_AMT</i>	DESYNPUF: NCH Primary Payer Claim Paid Amount
9	<i>AT_PHYSN_NPI</i>	DESYNPUF: Attending Physician – National Provider Identifier Number
10	<i>OP_PHYSN_NPI</i>	DESYNPUF: Operating Physician – National Provider Identifier Number
11	<i>OT_PHYSN_NPI</i>	DESYNPUF: Other Physician – National Provider Identifier Number
12	<i>CLM_ADMSN_DT</i>	DESYNPUF: Inpatient admission date
13	<i>ADMTNG_ICD9_DGNS_CD</i>	DESYNPUF: Claim Admitting Diagnosis Code
14	<i>CLM_PASS_THRU_PER_DIEM_AMT</i>	DESYNPUF: Claim Pass Thru Per Diem Amount
15	<i>NCH_BENE_IP_DDCTBL_AMT</i>	DESYNPUF: NCH Beneficiary Inpatient Deductible Amount
16	<i>NCH_BENE_PTA_COINSRNC_LBLTY_AM</i>	DESYNPUF: NCH Beneficiary Part A Coinsurance Liability Amount
17	<i>NCH_BENE_BLOOD_DDCTBL_LBLTY_AM</i>	DESYNPUF: NCH Beneficiary Blood Deductible Liability Amount
18	<i>CLM_UTLZTN_DAY_CNT</i>	DESYNPUF: Claim Utilization Day Count
19	<i>NCH_BENE_DSCHRG_DT</i>	DESYNPUF: Inpatient discharged date
20	<i>CLM_DRG_CD</i>	DESYNPUF: Claim Diagnosis Related Group Code
21-30	<i>ICD9_DGNS_CD_1 – ICD9_DGNS_CD_10</i>	DESYNPUF: Claim Diagnosis Code 1 – Claim Diagnosis Code 10
31-36	<i>ICD9_PRCDR_CD_1 – ICD9_PRCDR_CD_6</i>	DESYNPUF: Claim Procedure Code 1 – Claim Procedure Code 6
37-81	<i>HCPCS_CD_1 – HCPCS_CD_45</i>	DESYNPUF: Revenue Center HCFA Common Procedure Coding System 1 – Revenue Center HCFA Common Procedure Coding System 45

3. The *CMS Outpatient Claims DE-SynPUF* contains 76 variables. Each record pertains to a synthetic outpatient claim and contains:

#	Variable names	Labels
1	<i>DESYNPUF_ID</i>	DESYNPUF: Beneficiary Code
2	<i>CLM_ID</i>	DESYNPUF: Claim ID
3	<i>SEGMENT</i>	DESYNPUF: Claim Line Segment
4	<i>CLM_FROM_DT</i>	DESYNPUF: Claims start date
5	<i>CLM_THRU_DT</i>	DESYNPUF: Claims end date
6	<i>PRVDR_NUM</i>	DESYNPUF: Provider Institution
7	<i>CLM_PMT_AMT</i>	DESYNPUF: Claim Payment Amount
8	<i>NCH_PRMRY_PYR_CLM_PD_AMT</i>	DESYNPUF: NCH Primary Payer Claim Paid Amount
9	<i>AT_PHYSN_NPI</i>	DESYNPUF: Attending Physician – National Provider Identifier Number
10	<i>OP_PHYSN_NPI</i>	DESYNPUF: Operating Physician – National Provider Identifier Number
11	<i>OT_PHYSN_NPI</i>	DESYNPUF: Other Physician – National Provider Identifier Number
12	<i>NCH_BENE_BLOOD_DDCTBL_LBLTY_AM</i>	DESYNPUF: NCH Beneficiary Blood Deductible Liability Amount
13-22	<i>ICD9_DGNS_CD_1 – ICD9_DGNS_CD_10</i>	DESYNPUF: Claim Diagnosis Code 1 – Claim Diagnosis Code 10
23-28	<i>ICD9_PRCDR_CD_1 – ICD9_PRCDR_CD_6</i>	DESYNPUF: Claim Procedure Code 1 – Claim Procedure Code 6
29	<i>NCH_BENE_PTB_DDCTBL_AMT</i>	DESYNPUF: NCH Beneficiary Part B Deductible Amount
30	<i>NCH_BENE_PTB_COINSRNC_AMT</i>	DESYNPUF: NCH Beneficiary Part B Coinsurance Amount
31	<i>ADMTNG_ICD9_DGNS_CD</i>	DESYNPUF: Claim Admitting Diagnosis Code
32-76	<i>HCPCS_CD_1 – HCPCS_CD_45</i>	DESYNPUF: Revenue Center HCFA Common Procedure Coding System 1 – Revenue Center HCFA Common Procedure Coding System 45

4. The *CMS Carrier Claims DE-SynPUF* contains 142 variables. Each record pertains to a synthetic physician/supplier claim and contains:

#	Variable names	Labels
1	<i>DESYNPUF_ID</i>	DESYNPUF: Beneficiary Code
2	<i>CLM_ID</i>	DESYNPUF: Claim ID
3	<i>CLM_FROM_DT</i>	DESYNPUF: Claims start date
4	<i>CLM_THRU_DT</i>	DESYNPUF: Claims end date
5-12	<i>ICD9_DGNS_CD_1 – ICD9_DGNS_CD_8</i>	DESYNPUF: Claim Diagnosis Code 1 – Claim Diagnosis Code 8
13-25	<i>PRF_PHYSN_NPI_1 – PRF_PHYSN_NPI_13</i>	DESYNPUF: Provider Physician – National Provider Identifier Number
26-38	<i>TAX_NUM_1 – TAX_NUM_13</i>	DESYNPUF: Provider Institution Tax Number
39-51	<i>HCPCS_CD_1 – HCPCS_CD_13</i>	DESYNPUF: Line HCFA Common Procedure Coding System 1 – Line HCFA Common Procedure Coding System 13
52-64	<i>LINE_NCH_PMT_AMT_1 – LINE_NCH_PMT_AMT_13</i>	DESYNPUF: Line NCH Payment Amount 1 – Line NCH Payment Amount 13
65-77	<i>LINE_BENE_PTB_DDCTBL_AMT_1 – LINE_BENE_PTB_DDCTBL_AMT_13</i>	DESYNPUF: Line Beneficiary Part B Deductible Amount 1 – Line Beneficiary Part B Deductible Amount 13
78-90	<i>LINE_BENE_PRMRY_PYR_PD_AMT_1 – LINE_BENE_PRMRY_PYR_PD_AMT_13</i>	DESYNPUF: Line Beneficiary Primary Payer Paid Amount 1 – Line Beneficiary Primary Payer Paid Amount 13
91-103	<i>LINE_COINSRNC_AMT_1 – LINE_COINSRNC_AMT_13</i>	DESYNPUF: Line Coinsurance Amount 1 – Line Coinsurance Amount 13
104-116	<i>LINE_ALOWD_CHRG_AMT_1 – LINE_ALOWD_CHRG_AMT_13</i>	DESYNPUF: Line Allowed Charge Amount 1 – Line Allowed Charge Amount 13
117-129	<i>LINE_PRCSG_IND_CD_1 – LINE_PRCSG_IND_CD_13</i>	DESYNPUF: Line Processing Indicator Code 1 – Line Processing Indicator Code 13
130-142	<i>LINE_ICD9_DGNS_CD_1 – LINE_ICD9_DGNS_CD_13</i>	DESYNPUF: Line Diagnosis Code 1 – Line Diagnosis Code 13

5. The *CMS Prescription Drug Events (PDE) DE-SynPUF* contains 8 variables. Each record pertains to a synthetic Part D event and contains:

#	Variable names	Labels
1	<i>DESYNPUF_ID</i>	DESYNPUF: Beneficiary Code
2	<i>PDE_ID</i>	DESYNPUF: CCW Part D Event Number
3	<i>SRVC_DT</i>	DESYNPUF: RX Service Date
4	<i>PROD_SRVC_ID</i>	DESYNPUF: Product Service ID
5	<i>QTY_DSPNSD_NUM</i>	DESYNPUF: Quantity Dispensed
6	<i>DAYS_SUPLY_NUM</i>	DESYNPUF: Days Supply
7	<i>PTNT_PAY_AMT</i>	DESYNPUF: Patient Pay Amount
8	<i>TOT_RX_CST_AMT</i>	DESYNPUF: Gross Drug Cost