

# Files for *TRAINING* and *HOLDOUT*

**Training dataset: 2021\_Competition\_Training.csv**

**Number of records: 974,842**

no vaccination: covid_vaccination = 0	805,389	83%
vaccination: covid_vaccination = 1	169,453	17%
974,842		

SEX_CD: F	524,915	54%
SEX_CD: M	449,927	46%
974,842		

RACE_CD: 0	20,994	2%
RACE_CD: 1	813,447	83%
RACE_CD: 2	85,731	9%
RACE_CD: 3	12,230	1%
RACE_CD: 4	10,480	1%
RACE_CD: 5	14,467	1%
RACE_CD: 6	1,728	0%
null	15,765	2%
974,842		

**Holdout dataset: 2021\_Competition\_Holdout.csv**

**Number of records: 525,158**

SEX_CD: F	282,386	54%
SEX_CD: M	242,772	46%
525,158		

RACE_CD: 0	11,369	2%
RACE_CD: 1	438,131	83%
RACE_CD: 2	45,786	9%
RACE_CD: 3	6,557	1%

RACE_CD: 4	5,699	1%
RACE_CD: 5	7,936	2%
RACE_CD: 6	978	0%
null	8,702	2%

525,158

Features
id
auth_3mth_post_acute_dia
rx_gpi2_72_pmpm_cost_6to9m_b4
atlas_pct_laccess_child15
atlas_recfacpth14
atlas_pct_fmrkt_frveg16
atlas_pct_free_lunch14
bh_ip_snf_net_paid_pmpm_cost_9to12m_b4
auth_3mth_acute_ckd
bh_ncal_pmpm_ct
src_div_id
total_bh_copay_pmpm_cost_t_9-6-3m_b4
bh_ip_snf_net_paid_pmpm_cost_3to6m_b4
cons_chmi
mcc_ano_pmpm_ct_t_9-6-3m_b4
auth_3mth_post_acute_trm
rx_maint_pmpm_cost_t_12-9-6m_b4
auth_3mth_post_acute_rsk
cons_ltmedicr
rx_gpi4_6110_pmpm_ct
atlas_pc_snapben15
credit_bal_nonmtgcredit_60dpd
rx_bh_mbr_resp_pmpm_cost_9to12m_b4
rx_nonbh_pmpm_cost_t_9-6-3m_b4
atlas_pct_laccess_nhna15
auth_3mth_acute_vco
credit_hh_nonmtgcredit_60dpd
rx_bh_pmpm_ct_0to3m_b4
auth_3mth_dc_ltac
cons_lwcm10
auth_3mth_post_acute_inj

atlas_fsrpth14
auth_3mth_dc_home
atlas_wicspth12
rx_gpi2_17_pmpm_cost_t_12-9-6m_b4
cons_hxmloc
rx_generic_pmpm_cost_t_6-3-0m_b4
cmsd2_sns_digest_abdomen_pmpm_ct
atlas_ghveg_farms12
credit_hh_bankcardcredit_60dpd
total_outpatient_allowed_pmpm_cost_6to9m_b4
cons_cwht
atlas_netmigrationrate1016
atlas_pct_laccess_snap15
bh_ncdm_ind
rx_nonmaint_mbr_resp_pmpm_cost_9to12m_b4
atlas_retirement_destination_2015_upda
rx_overall_mbr_resp_pmpm_cost_t_6-3-0m_b4
atlas_naturalchangerate1016
ccsp_236_pct
bh_ip_snf_mbr_resp_pmpm_cost_6to9m_b4
rx_overall_dist_gpi6_pmpm_ct_t_6-3-0m_b4
auth_3mth_post_acute_ben
atlas_pct_laccess_hisp15
auth_3mth_dc_no_ref
rx_overall_mbr_resp_pmpm_cost
rx_overall_gpi_pmpm_ct_0to3m_b4
auth_3mth_dc_snf
rx_phar_cat_humana_pmpm_ct_t_9-6-3m_b4
atlas_pct_laccess_hhmv15
auth_3mth_acute_ccs_048
bh_ip_snf_net_paid_pmpm_cost_0to3m_b4

auth_3mth_acute_end
auth_3mth_psychic
atlas_hiamenity
auth_3mth_bh_acute
credit_bal_consumerfinance
auth_3mth_acute_chf
rx_overall_gpi_pmpm_ct_t_6-3-0m_b4
rwjf_uninsured_pct
mcc_chf_pmpm_ct_t_9-6-3m_b4
rx_mail_mbr_resp_pmpm_cost_0to3m_b4
bh_urgent_care_copay_pmpm_cost_t_12-9-6m_b4
auth_3mth_hospice
auth_3mth_acute_bld
atlas_pct_wic15
ccsp_193_pct
auth_3mth_dc_hospice
auth_3mth_acute_ccs_030
atlas_pct_fmrkt_baked16
rx_nonmaint_mbr_resp_pmpm_cost
auth_3mth_acute_skn
atlas_veg_farms12
atlas_vlfoodsec_13_15
rx_gpi2_34_dist_gpi6_pmpm_ct
bh_ip_snf_net_paid_pmpm_cost
credit_hh_bankcard_severederog
rx_hum_16_pmpm_ct
est_age
rx_maint_pmpm_cost_t_6-3-0m_b4
cnt_cp_webstatement_pmpm_ct
atlas_pct_laccess_seniors15
phy_em_px_pct
atlas_percapitainc

rwjf_uninsured_adults_pct
rx_generic_mbr_resp_pmpm_cost_0to3m_b4
auth_3mth_acute_neo
rwjf_air_pollute_density
rx_gpi2_02_pmpm_cost
atlas_recfac14
cons_mobplus
lab_albumin_loinc_pmpm_ct
atlas_pct_obese_adults13
rx_maint_net_paid_pmpm_cost_t_12-9-6m_b4
rev_pm_obsrm_pmpm_ct
atlas_pct_sfsp15
total_physician_office_net_paid_pmpm_cost_9to12m_b4
atlas_pc_dirsales12
med_ip_snf_admit_days_pmpm
rej_med_outpatient_visit_ct_pmpm_t_6-3-0m_b4
auth_3mth_post_acute_vco
cms_tot_partd_payment_amt
rx_nonotc_dist_gpi6_pmpm_ct
rx_nonmaint_pmpm_ct
rx_nonbh_mbr_resp_pmpm_cost_6to9m_b4
cons_stlnindx
atlas_hipov_1115
auth_3mth_post_acute_dig
rx_nonbh_mbr_resp_pmpm_cost
atlas_redemp_snaps16
atlas_berry_farms12
rej_med_ip_snf_coins_pmpm_cost_t_9-6-3m_b4
rwjf_inactivity_pct
rx_gpi2_72_pmpm_ct_6to9m_b4
cons_n2pmr

med_physician_office_allowed_pmpm_cost_t_9-6-3m_b4
auth_3mth_acute_res
rev_cms_ct_pmpm_ct
atlas_foodhub16
total_physician_office_copay_pmpm_cost
auth_3mth_acute_dig
auth_3mth_dc_acute_rehab
atlas_pct_fmkt_anmlprod16
auth_3mth_post_acute_hdz
bh_ip_snf_mbr_resp_pmpm_cost_3to6m_b4
auth_3mth_acute_ccs_172
credit_num_agencyfirstmtg
total_physician_office_net_paid_pmpm_cost_t_9-6-3m_b4
auth_3mth_acute_ccs_154
atlas_type_2015_mining_no
atlas_agritrsm_rct12
rx_days_since_last_script
atlas_pct_laccess_pop15
auth_3mth_post_acute_res
auth_3mth_acute_inf
rx_gpi2_01_pmpm_cost_0to3m_b4
atlas_povertyallagespct
covid_vaccination
rwjf_uninsured_child_pct
rx_branded_pmpm_ct_t_6-3-0m_b4
med_outpatient_deduct_pmpm_cost_t_9-6-3m_b4
credit_bal_mtgcredit_new
atlas_low_employment_2015_update
atlas_pct_diabetes_adults13
atlas_pct_laccess_nhasian15
atlas_deep_pov_all
atlas_net_international_migration_rate
atlas_deep_pov_children

bh_ncdm_pct
auth_3mth_non_er
atlas_foodinsec_child_03_11
rx_branded_mbr_resp_pmpm_cost
atlas_pc_wic_redemp12
rwjf_mv_deaths_rate
auth_3mth_acute_cad
atlas_pct_reduced_lunch14
cons_nwperadult
total_allowed_pmpm_cost_t_9-6-3m_b4
rx_hum_28_pmpm_cost
mabh_seg
cms_orig_reas_entitle_cd
atlas_totalocchu
med_physician_office_ds_clm_6to9m_b4
bh_ip_snf_mbr_resp_pmpm_cost_9to12m_b4
atlas_pct_loclfarm12
rx_generic_mbr_resp_pmpm_cost
total_outpatient_mbr_resp_pmpm_cost_6to9m_b4
auth_3mth_post_acute_cir
rx_gpi4_3400_pmpm_ct
auth_3mth_post_acute_cer
lab_dist_loinc_pmpm_ct
atlas_pct_nslp15
rx_generic_pmpm_ct_0to3m_b4
oontwk_mbr_resp_pmpm_cost_t_6-3-0m_b4
atlas_pct_laccess_lowi15
bh_ncal_ind
auth_3mth_post_acute_mus
atlas_pct_fmrkt_sfmnp16
hum_region
rx_nonmail_dist_gpi6_pmpm_ct_t_9-6-3m_b4
atlas_pct_loclsale12



bh_ip_snf_net_paid_pmpm_cost_6to9m_b4
rej_med_er_net_paid_pmpm_cost_t_9-6-3m_b4
credit_bal_autobank
med_outpatient_mbr_resp_pmpm_cost_t_9-6-3m_b4
rx_overall_mbr_resp_pmpm_cost_0to3m_b4
rx_tier_2_pmpm_ct_3to6m_b4
rx_nonbh_net_paid_pmpm_cost
rx_maint_pmpm_ct_9to12m_b4
rx_nonbh_net_paid_pmpm_cost_t_6-3-0m_b4
atlas_type_2015_recreation_no
auth_3mth_post_acute_sns
rx_gpi2_39_pmpm_cost_t_6-3-0m_b4
atlas_type_2015_update
cms_risk_adjustment_factor_a_amt
total_ip_maternity_net_paid_pmpm_cost_t_12-9-6m_b4
rx_generic_pmpm_cost
cmsd2_eye_retina_pmpm_ct
auth_3mth_acute_can
auth_3mth_post_acute
auth_3mth_facility
rx_days_since_last_script_0to3m_b4
atlas_population_loss_2015_update
rx_maint_pmpm_ct_t_6-3-0m_b4
auth_3mth_post_acute_men
auth_3mth_acute_mean_los
credit_num_autofinance
cons_rxmaint
rx_mail_net_paid_pmpm_cost_t_6-3-0m_b4
auth_3mth_home
rx_maint_mbr_resp_pmpm_cost_6to9m_b4

cons_hxwearbl
total_physician_office_mbr_resp_pmpm_cost_t_9-6-3m_b4
atlas_pct_laccess_black15
atlas_hh65plusalonepct
atlas_farm_to_school13
auth_3mth_acute_inj
auth_3mth_acute_ccs_153
rej_days_since_last_clm
auth_3mth_transplant
bh_outpatient_net_paid_pmpm_cost
atlas_dirsales_farms12
rx_generic_pmpm_cost_6to9m_b4
rev_cms_ansth_pmpm_ct
atlas_convspth14
total_med_allowed_pmpm_cost_9to12m_b4
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med_outpatient_visit_ct_pmpm_t_12-9-6m_b4
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rx_nonbh_pmpm_ct_0to3m_b4
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credit_bal_bankcard_severederog
atlas_povertyunder18pct
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cons_estinv30_rc
auth_3mth_bh_acute_men
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auth_3mth_dc_custodial
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atlas_grocpth14
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sex_cd
rx_gpi2_62_pmpm_cost_t_9-6-3m_b4
lang_spoken_cd
rx_overall_gpi_pmpm_ct_t_12-9-6m_b4
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cons_hhcomp
auth_3mth_acute_hdz
cons_rxadhs
auth_3mth_acute_men
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met_obc_diag_pct
cms_partd_ra_factor_amt
atlas_pct_sbp15
rwjf_resident_seg_black_inx
atlas_pct_cacfp15
auth_3mth_rehab
pdc_lip
atlas_ffrpth14
credit_num_autobank_new
auth_3mth_acute_ccs_086
rx_tier_2_pmpm_ct
cons_n2pwh
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atlas_pct_fmrkt_credit16
atlas_slhouse12
atlas_pc_frsales12
credit_hh_1stmtgcredit
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atlas_pct_fmrkt_wiccash16
atlas_foodinsec_13_15
auth_3mth_acute_cer
cons_rxadhm
atlas_fmrktpth16
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cons_n2phi
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rwjf_income_inequ_ratio
rej_total_physician_office_visit_ct_pmpm_0to3m_b4
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credit_num_nonmtgcredit_60dpd
auth_3mth_snf_direct
credit_bal_autofinance_new
auth_3mth_acute_ccs_067
auth_3mth_acute_ccs_043
rwjf_men_hlth_prov_ratio
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auth_3mth_acute_ner
auth_3mth_acute_ccs_094
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hedis_dia_hba1c_ge9
bh_ncal_pct
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ccsp_227_pct
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rx_days_since_last_script_6to9m_b4
atlas_orchard_acrespth12
atlas_persistentchildpoverty_1980_2011

auth_3mth_post_acute_cad
atlas_pct_laccess_multir15
cons_cgqs
ccsp_065_pmpm_ct
auth_3mth_acute_ccs_044
atlas_medhhinc
rx_maint_net_paid_pmpm_cost_t_9-6-3m_b4
rwjf_mental_distress_pct
bh_ip_snf_admit_days_pmpm_t_9-6-3m_b4
rx_phar_cat_cvs_pmpm_ct_t_9-6-3m_b4
zip_cd
auth_3mth_post_acute_ckd
atlas_pct_laccess_nhpi15
auth_3mth_post_acute_ner
auth_3mth_post_er
credit_num_consumerfinance_new
rx_gpi2_49_pmpm_cost_0to3m_b4
cons_chva
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rx_overall_net_paid_pmpm_cost_6to9m_b4
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atlas_orchard_farms12
total_physician_office_visit_ct_pmpm_t_6-3-0m_b4
atlas_pct_fmrkt_wic16
rx_gpi2_33_pmpm_ct_0to3m_b4
auth_3mth_post_acute_chf
rwjf_social_associate_rate
atlas_freshveg_farms12
auth_3mth_acute_ccs_042
auth_3mth_post_acute_inf
auth_3mth_acute_sns
days_since_last_clm_0to3m_b4

auth_3mth_dc_other
auth_3mth_bh_acute_mean_los
mcc_end_pct
auth_3mth_post_acute_gus
cons_lwcm07
atlas_pct_fmrkt_otherfood16
auth_3mth_post_acute_end
auth_3mth_acute_mus
atlas_perpov_1980_0711
atlas_pct_laccess_white15
auth_3mth_post_acute_mean_los
rx_gpi2_66_pmpm_ct
auth_3mth_acute_gus
rx_generic_dist_gpi6_pmpm_ct_t_9-6-3m_b4
atlas_low_education_2015_update
race_cd

Description
Person Identifier - unique for a member
unique authorization/admit count for post acute admits related to diabetes in the past three months {Based on Major Clinical Condition}
cost per month of prescriptions related to ANTICONVULSANTS drugs in the past sixth to ninth month prior to the score date {Based on Generic Product Identifier-2 grouping}
Children, low access to store
Recreation & fitness facilities/1,000 pop
Farmers' markets that report selling fruit & vegetables
Students eligible for free lunch
net paid cost per month for behavioral health claims related to skilled nursing inpatient facilities in the past ninth to twelfth month prior to the score date
unique authorization/admit count for acute admits related to chronic kidney disease in the past three months {Based on Major Clinical Condition}
count per month of behavioral health claims related to neuro cognition disorder: alzheimers in the past one year
The division ID assigned by the legacy system {each platform has a different system}
trend of copay cost per month for behavioral health claims in the past third to sixth month versus sixth to ninth month prior to the score date in the past third to sixth month versus sixth to ninth month prior to the score date
net paid cost per month for behavioral health claims related to skilled nursing inpatient facilities in the past third to sixth month prior to the score date
Census Median Household Income
trend of claims per month related to congenital anomalies in the past third to sixth month versus sixth to ninth month prior to the score date {based on Major Clinical Condition}
unique authorization/admit count for post acute admits related to head/neck/spine trauma, multiple fractures, and paralysis in the past three months {Based on Major Clinical Condition}
trend of cost per month of prescriptions related to maintenance drugs in the past sixth to ninth month versus ninth to twelfth month prior to the score date
unique authorization/admit count for post acute admits related to risk behaviors in the past three months {Based on Major Clinical Condition}
Late to Medicare Index
count per month of prescriptions related to ADHD/ANTI-NARCOLEPSY/ANTI-OBESITY/ANOREXIANTS : AMPHETAMINES drugs in the past one year {Based on GPI4 grouping}
SNAP benefits per capita
Balance Non-Mortgage Loan Accts 60+ Days Past Due
member reponsible cost per month of prescriptions related to behavioral health drugs in the past ninth to twelfth month prior to the score date
trend of cost per month of prescriptions related to non behavioral health drugs in the past third to sixth month versus sixth to ninth month prior to the score date
American Indian or Alaska Native, low access to store
unique authorization/admit count for acute admits related to v-codes in the past three months {Based on Major Clinical Condition}
% HH Non-Mortgage Loan Accts 60+ Days Past Due
count per month of prescriptions related to behavioral health drugs in the past three months prior to score date
unique authorization/admit count for discharge category related to Itac in the past three months
The probability of the individual not exercising at all
unique authorization/admit count for post acute admits related to injury and poisoning in the past three months {Based on Major Clinical Condition}

Full-service restaurants/1,000 pop
unique authorization/admit count for discharge category related to home in the past three months
WIC-authorized stores/1,000 pop
trend of cost per month of prescriptions related to VACCINES drugs in the past sixth to ninth month versus ninth to twelfth month prior to the score date {Based on GPI2 grouping}
Predicts the likelihood of an individual to self-monitor an illness or health condition. They are likely to manage medication, look up health or nutritional information, post a question online or share personal health history, use an online application th
trend of cost per month of prescriptions related to generic drugs in the past three months versus third to sixth month prior to the score date
claims per month related to symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified : symptoms and signs involving the digestive system and abdomen in the past one year {based on CMS diagnosis code level-2}
Greenhouse vegetable and fresh herb farms
% HH Bank Card Accts 60+ Days Past Due
allowed cost per month for overall claims related to outpatient facilities in the past sixth to ninth month prior to the score date
Percent White Collar Employed
Net Migration 2010-2016
SNAP households, low access to store
binary value indicating the presence of behavioral health condition related to nc dementia in the past one year
member responsible cost per month of prescriptions related to non maintenance drugs in the past ninth to twelfth month prior to the score date
Retirement destination counties
trend of member responsibility cost per month for prescriptions in the past three months versus third to sixth month prior to the score date
Natural population change 2010-2016
percentage of claims related to home health services procedure in the past one year {based on CCS codes}
member responsibility cost per month for behavioral health claims related to skilled nursing inpatient facilities in the past sixth to ninth month prior to the score date
trend of number of distinct drugs per month at a GPI6 level in the past three months versus third to sixth month prior to the score date
unique authorization/admit count for post acute admits related to neoplasms (benign) in the past three months {Based on Major Clinical Condition}
Hispanic ethnicity, low access to store
unique authorization/admit count for discharge category related to no_ref in the past three months
member responsibility cost per month for prescriptions in the past one year
number of prescriptions per month in the past three months prior to score date
unique authorization/admit count for discharge category related to snf in the past three months
trend of count per month of prescriptions purchased at humana pharmacy in the past third to sixth month versus sixth to ninth month prior to the score date
Households, no car & low access to store
unique authorization/admit count for acute admits related to insertion, revision, replacement, removal of cardiac pacemaker or cardioverter/defibrillator in the past three months {Based on CCS}
net paid cost per month for behavioral health claims related to skilled nursing inpatient facilities in the past three months prior to score date



unique authorization/admit count for acute admits related to endocrine in the past three months {Based on Major Clinical Condition}
unique authorization/admit count for admit category related to psychic in the past three months
High natural amenities
unique authorization/admit count for admit category related to bh_acute in the past three months
Balance Consumer Finance Accts
unique authorization/admit count for acute admits related to congestive heart failure in the past three months {Based on Major Clinical Condition}
trend of the number of prescriptions per month in the past three months versus third to sixth month prior to the score date
Clinical Care - Percentage of population under age 65 without health insurance
trend of claims per month related to congestive heart failure in the past third to sixth month versus sixth to ninth month prior to the score date {based on Major Clinical Condition}
member responsible cost per month of prescriptions related to mail drugs in the past three months prior to score date
trend of copay cost per month for behavioral health claims related to urgent care in the past sixth to ninth month versus ninth to twelfth month prior to the score date in the past sixth to ninth month versus ninth to twelfth month prior to the score date
unique authorization/admit count for admit category related to hospice in the past three months
unique authorization/admit count for acute admits related to diseases of blood and blood-forming organs in the past three months {Based on Major Clinical Condition}
WIC participants (% pop)
percentage of claims related to diagnostic ultrasound of heart (echocardiogram) procedure in the past one year {based on CCS codes}
unique authorization/admit count for discharge category related to hospice in the past three months
unique authorization/admit count for acute admits related to tonsillectomy and/or adenoidectomy in the past three months {Based on CCS}
Farmers' markets that report selling baked/prepared food products
member responsible cost per month of prescriptions related to non maintenance drugs in the past one year
unique authorization/admit count for acute admits related to diseases of skin and subcutaneous tissue in the past three months {Based on Major Clinical Condition}
Vegetable farms
Household very low food security (% , three-year average), 2013-15
count per month of distinct prescriptions related to CALCIUM CHANNEL BLOCKERS drugs at the GPI6 level in the past one year {Based on Generic Product Identifier-2 grouping}
net paid cost per month for behavioral health claims related to skilled nursing inpatient facilities in the past one year
% HH Bank Card Accts - Severe Derogatory Accts
count per month of prescriptions related to CARDIOLOGY - HEART FAILURE drugs in the past one year {Based on Humana drug classification}
Member age {calculated using est_bday, relative to score/index date}
trend of cost per month of prescriptions related to maintenance drugs in the past three months versus third to sixth month prior to the score date
count per month of member interactions via webstatement in the past one year
Seniors, low access to store
percentage of claims for physician evaluation and management related to outpatient in the past one year
Per capita Income in the past 12 months 2014-2018

Clinical Care - Percentage of adults under age 65 without health insurance
member responsible cost per month of prescriptions related to generic drugs in the past three months prior to score date
unique authorization/admit count for acute admits related to neonates in the past three months {Based on Major Clinical Condition}
Physical Environment - Average daily density of fine particulate matter in micrograms per cubic meter (PM2.5)
cost per month of prescriptions related to CEPHALOSPORINS drugs in the past one year {Based on Generic Product Identifier-2 grouping}
Recreation & fitness facilities
Mail Order Buyer
count per month of distinct LOINC codes related to albumin in the past one year
Adult Obesity Rate
trend of net paid cost per month of prescriptions related to maintenance drugs in the past sixth to ninth month versus ninth to twelfth month prior to the score date
claims per month for a revenue code related to specialty services in the past one year
Summer Food Service Program participants (% pop)
net paid cost per month for overall claims related to physician office in the past ninth to twelfth month prior to the score date
Direct farm sales per capita
admitted days per month for non-behavioral health claims related to skilled nursing inpatient facilities in the past one year
trend of visits per month for rejected non-behavioral health claims related to outpatient facilities among rejected claims in the past three months versus third to sixth month prior to the score date among rejected claims in the past three months versus t
unique authorization/admit count for post acute admits related to v-codes in the past three months {Based on Major Clinical Condition}
Total Part D Payment Amount
count per month of distinct prescriptions related to non over the counter drugs at the GPI6 level in the past one year
count per month of prescriptions related to non maintenance drugs in the past one year
member responsible cost per month of prescriptions related to non behavioral health drugs in the past sixth to ninth month prior to the score date
Student Loan Index (0: Top Decile, 9: Bottom Decile)
High poverty counties
unique authorization/admit count for post acute admits related to digestive in the past three months {Based on Major Clinical Condition}
member responsible cost per month of prescriptions related to non behavioral health drugs in the past one year
SNAP redemptions/SNAP-authorized stores
Berry farms
trend of coinsurance cost per month for rejected non-behavioral health claims related to skilled nursing inpatient facilities among rejected claims in the past third to sixth month versus sixth to ninth month prior to the score date among rejected claims
Health Behaviors - Percentage of adults age 20 and over reporting no leisure-time physical activity
count per month of prescriptions related to ANTICONVULSANTS drugs in the past sixth to ninth month prior to the score date {Based on Generic Product Identifier-2 grouping}
Census Percent Married

trend of allowed cost per month for non-behavioral health claims related to physician office in the past third to sixth month versus sixth to ninth month prior to the score date in the past third to sixth month versus sixth to ninth month prior to the sco
unique authorization/admit count for acute admits related to respiratory in the past three months {Based on MCC}
claims per month for a revenue code related to ct scan in the past one year
Food hubs
copay cost per month for overall claims related to physician office in the past one year
unique authorization/admit count for acute admits related to digestive in the past three months {Based on MCC}
unique authorization/admit count for discharge category related to acute_rehab in the past three months
Farmers' markets that report selling animal products
unique authorization/admit count for post acute admits related to other heart disease in the past three months {Based on MCC}
member responsibility cost per month for behavioral health claims related to skilled nursing inpatient facilities in the past third to sixth month prior to the score date
unique authorization/admit count for acute admits related to skin graft in the past three months {Based on CCS}
Number Agency 1st Mortgage Accts
trend of net paid cost per month for overall claims related to physician office in the past third to sixth month versus sixth to ninth month prior to the score date in the past third to sixth month versus sixth to ninth month prior to the score date
unique authorization/admit count for acute admits related to arthroplasty other than hip or knee in the past three months {Based on CCS}
Mining-dependent counties
Agritourism receipts
days since last prescription in the past one year
Population, low access to store
unique authorization/admit count for post acute admits related to respiratory in the past three months {Based on Major Clinical Condition}
unique authorization/admit count for acute admits related to infections in the past three months {Based on Major Clinical Condition}
cost per month of prescriptions related to PENICILLINS drugs in the past three months prior to score date {Based on Generic Product Identifier-2 grouping}
Poverty rate
Covid vaccination
Clinical Care - Percentage of children under age 19 without health insurance
trend of the count per month of prescriptions related to branded drugs in the past three months versus third to sixth month prior to the score date
trend of deductible cost per month for non-behavioral health claims related to outpatient facilities in the past third to sixth month versus sixth to ninth month prior to the score date in the past third to sixth month versus sixth to ninth month prior to
Balance All Mortgage Type Accts New w/in 12 months
Low employment counties
Adult Diabetes Rate
Asian, low access to store
Deep poverty
Net international migration rate 2010-2016
Deep poverty for children

percentage of claims corresponding to behavioral health conditions related to nc dementia in the past one year
unique authorization/admit count for admit category related to non_er in the past three months
Child food insecurity (% households, multiple-year average), 2003-11
member reponsible cost per month of prescriptions related to branded drugs in the past one year
WIC redemptions per capita
Health Behaviors - Motor vehicle crash deaths
unique authorization/admit count for acute admits related to coronary artery disease in the past three months {Based on Major Clinical Condition}
Students eligible for reduced-price lunch
Net Worth Per Adult
trend of allowed cost per month for overall claims in the past third to sixth month versus sixth to ninth month prior to the score date in the past third to sixth month versus sixth to ninth month prior to the score date
cost per month of prescriptions related to CONTRACEPTIVES drugs in the past one year {Based on Humana drug classification}
MAPD behavioral segment - text categories
Code indicating the original reason for entry into Medicare
Total number of occupied housing units
days since last claim for non-behavioral health claims related to physician office in the past sixth to ninth month prior to the score date
member responsibility cost per month for behavioral health claims related to skilled nursing inpatient facilities in the past ninth to twelfth month prior to the score date
Percent of Farms with direct sales
member reponsible cost per month of prescriptions related to generic drugs in the past one year
member responsibility cost per month for overall claims related to outpatient facilities in the past sixth to ninth month prior to the score date
unique authorization/admit count for post acute admits related to other circulatory in the past three months {Based on Major Clinical Condition}
count per month of prescriptions related to CALCIUM CHANNEL BLOCKERS : CALCIUM CHANNEL BLOCKERS drugs in the past one year {Based on Generic Product Identifier-4 grouping}
unique authorization/admit count for post acute admits related to cerebrovascular in the past three months {Based on Major Clinical Condition}
count per month of distinct LOINC codes in the past one year
National School Lunch Program participants (% pop)
count per month of prescriptions related to generic drugs in the past three months prior to score date
trend of member responsibility cost per month for out-of-network claims in the past three months versus third to sixth month prior to the score date in the past three months versus third to sixth month prior to the score date
Low income & low access to store
binary value indicating the presence of behavioral health condition related to neuro cognition disorder: alzheimers in the past one year
unique authorization/admit count for post acute admits related to musculoskeletal and connective tissue in the past three months {Based on Major Clinical Condition}
Farmers' markets that report accepting SFMNP
Member geographic information - Humana Region
trend of the count per month of distinct prescriptions related to non mail drugs at the Generic Product Identifier-6 level in the past third to sixth month versus sixth to ninth month prior to the score date
Direct farm sales

net paid cost per month for behavioral health claims related to skilled nursing inpatient facilities in the past sixth to ninth month prior to the score date
trend of net paid cost per month for rejected non-behavioral health claims related to emergency room among rejected claims in the past third to sixth month versus sixth to ninth month prior to the score date among rejected claims in the past third to sixth month prior to the score date
Balance Auto Bank Loan Accts
trend of member responsibility cost per month for non-behavioral health claims related to outpatient facilities in the past third to sixth month versus sixth to ninth month prior to the score date in the past third to sixth month versus sixth to ninth month prior to the score date
member responsibility cost per month for prescriptions in the past three months prior to score date
count per month of prescriptions related to Tier 2 drugs in the past third to sixth month prior to the score date
net paid cost per month of prescriptions related to non behavioral health drugs in the past one year
count per month of prescriptions related to maintenance drugs in the past ninth to twelfth month prior to the score date
trend of net paid cost per month of prescriptions related to non behavioral health drugs in the past three months versus third to sixth month prior to the score date
Recreation counties
unique authorization/admit count for post acute admits related to signs and symptoms in the past three months {Based on MCC}
trend of cost per month of prescriptions related to ANTIHYPERLIPIDEMICS drugs in the past three months versus third to sixth month prior to the score date {Based on Generic Product Identifier-2 grouping}
County typology economic types
Risk Adjustment Factor A Amount
trend of net paid cost per month for overall claims related to maternity inpatient facilities in the past sixth to ninth month versus ninth to twelfth month prior to the score date in the past sixth to ninth month versus ninth to twelfth month prior to the score date
cost per month of prescriptions related to generic drugs in the past one year
claims per month related to diseases of the eye and adnexa : disorders of choroid and retina in the past one year {based on CMS diagnosis code level2}
unique authorization/admit count for acute admits related to malignant neoplasms in the past three months {Based on MCC}
unique authorization/admit count for admit category related to post_acute in the past three months
unique authorization/admit count for admit category related to facility in the past three months
days since last prescription in the past three months prior to score date
Population loss counties
trend of the count per month of prescriptions related to maintenance drugs in the past three months versus third to sixth month prior to the score date
unique authorization/admit count for post acute admits related to mental health conditions in the past three months {Based on Major Clinical Condition}
Mean length of stay for authorization category of acute in the past three months
Number Auto Finance Loan Accts
RX Maintenance Meds
trend of net paid cost per month of prescriptions related to mail drugs in the past three months versus third to sixth month prior to the score date
unique authorization/admit count for admit category related to home in the past three months
member responsible cost per month of prescriptions related to maintenance drugs in the past sixth to ninth month prior to the score date

Use Wearable Device to Manage Health - Index
trend of member responsibility cost per month for overall claims related to physician office in the past third to sixth month versus sixth to ninth month prior to the score date
Black, low access to store
Percent of persons 65 or older living alone
Farm to school program
unique authorization/admit count for acute admits related to injury and poisoning in the past three months {Based on Major Clinical Condition}
unique authorization/admit count for acute admits related to hip replacement, total and partial in the past three months {Based on CCS}
days since last claim among rejected claims in the past one year
unique authorization/admit count for admit category related to transplant in the past three months
net paid cost per month for behavioral health claims related to outpatient facilities in the past one year
Farms with direct sales
cost per month of prescriptions related to generic drugs in the past sixth to ninth month prior to the score date
claims per month for a revenue code related to anesthesiology in the past one year
Convenience stores/1,000 pop
allowed cost per month for non-behavioral health claims in the past ninth to twelfth month prior to the score date
trend of member responsible cost per month of prescriptions related to mail drugs in the past third to sixth month versus sixth to ninth month prior to the score date
trend of visits per month for non-behavioral health claims related to outpatient facilities in the past sixth to ninth month versus ninth to twelfth month prior to the score date in the past sixth to ninth month versus ninth to twelfth month prior to the
trend of the count per month of prescriptions related to non behavioral health drugs in the past third to sixth month versus sixth to ninth month prior to the score date
unique authorization/admit count for admit category related to acute in the past three months
count per month of prescriptions related to non behavioral health drugs in the past three months prior to score date
Expenditures per capita, fast food
unique authorization/admit count for discharge category related to left_ama in the past three months
Balance Bank Card Accts - Severe Derogatory Accts
Poverty rate for children age 0-17
count per month of prescriptions related to Tier 1 drugs in the past three months prior to score date
unique authorization/admit count for acute admits related to other diagnostic procedures in the past three months {Based on CCS}
Estimated Household Investable Assets Recoded
unique authorization/admit count for behavioral health acute admits related to mental health conditions in the past three months {Based on Major Clinical Condition}
count per month of prescriptions related to CALCIUM CHANNEL BLOCKERS drugs in the past one year {Based on Generic Product Identifier-2 grouping}
unique authorization/admit count for discharge category related to custodial in the past three months
Vegetable acres harvested/1,000 pop
Grocery stores/1,000 pop
trend of net paid cost per month for non-behavioral health claims in the past three months versus third to sixth month prior to the score date in the past three months versus third to sixth month prior to the score date

count per month of distinct prescriptions related to DERMATOLOGICALS drugs at the GPI6 level in the past ninth to twelfth month prior to the score date {Based on Generic Product Identifier-2 grouping}
CSA farms
Member gender
trend of cost per month of prescriptions related to PSYCHOTHERAPEUTIC AND NEUROLOGICAL AGENTS - MISC. drugs in the past third to sixth month versus sixth to ninth month prior to the score date {Based on Generic Product Identifier-2 grouping}
Preferred language for member
trend of the number of prescriptions per month in the past sixth to ninth month versus ninth to twelfth month prior to the score date
unique authorization/admit count for admit category related to ltac in the past three months
Household Composition
unique authorization/admit count for acute admits related to other heart disease in the past three months {Based on Major Clinical Condition}
RX Adherence - Supplement
unique authorization/admit count for acute admits related to mental health conditions in the past three months {Based on Major Clinical Condition}
Farmers' markets that report accepting SNAP
percentage of medical claims related to obesity in the past one year {Based on metabolic syndrome}
Medicare Part D Risk Adjustment Factor Amount
School Breakfast Program participants (% pop)
Social and Economic Factors - Residential segregation - black/white
Child & Adult Care (% pop)
unique authorization/admit count for admit category related to rehab in the past three months
proportion of days covered for prescriptions related to hyperlipidemia in the past one year
Fast-food restaurants/1,000 pop
Number Auto Bank Loan Accts New w/in 12 months
unique authorization/admit count for acute admits related to other hernia repair in the past three months {Based on CCS}
count per month of prescriptions related to Tier 2 drugs in the past one year
Census Percent White
trend of the count per month of distinct prescriptions related to non maintenance drugs at the Generic Product Identifier-6 level in the past sixth to ninth month versus ninth to twelfth month prior to the score date
Berry acres/1,000 pop
Farmers' markets that report accepting credit cards
Small slaughterhouse facilities
Expenditures per capita, restaurants
% HH 1st Mortgage Accts
unique authorization/admit count for admit category related to snf_post_hsp in the past three months
Farmers' markets that report accepting WIC Cash
Household food insecurity (% , three-year average), 2013-15
unique authorization/admit count for acute admits related to cerebrovascular in the past three months {Based on Major Clinical Condition}
RX Adherence - Maintenance
Farmers' markets
trend of cost per month of prescriptions related to non over the counter drugs in the past three months versus third to sixth month prior to the score date

count per month of claims related to diabetes without chronic complications in the past one year {Based on Charlson Comorbidity Index Categories}
unique authorization/admit count for acute admits related to head/neck/spine trauma, multiple fractures, and paralysis in the past three months {Based on Major Clinical Condition}
Census Percent Hispanic
copay cost per month for behavioral health claims related to physician office in the past sixth to ninth month prior to the score date
Social and Economic Factors - Ratio of household income at the 80th percentile to income at the 20th percentile
visits per month for rejected overall claims related to physician office among rejected claims in the past three months prior to score date
unique authorization/admit count for acute admits related to diabetes in the past three months {Based on Major Clinical Condition}
Number Non-Mortgage Loan Accts 60+ Days Past Due
unique authorization/admit count for admit category related to snf_direct in the past three months
Balance Auto Finance Loan Accts New w/in 12 months
unique authorization/admit count for acute admits related to other procedures, hemic and lymphatic systems in the past three months {Based on CCS}
unique authorization/admit count for acute admits related to heart valve procedures in the past three months {Based on CCS}
Clinical Care - Ratio of population to mental health providers
unique authorization/admit count for discharge category related to home_health in the past three months
count per month of distinct prescriptions related to GENITOURINARY AGENTS - MISCELLANEOUS drugs at the GPI6 level in the past third to sixth month prior to the score date {Based on Generic Product Identifier-2 grouping}
claims per month related to symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified : symptoms and signs involving the genitourinary system in the past one year {based on CMS diagnosis code level2}
unique authorization/admit count for acute admits related to other circulatory in the past three months {Based on Major Clinical Condition}
unique authorization/admit count for acute admits related to nervous system in the past three months {Based on Major Clinical Condition}
unique authorization/admit count for acute admits related to other or upper gi therapeutic procedures in the past three months {Based on CCS}
trend of coinsurance cost per month for non-behavioral health claims related to ambulance place of treatment in the past third to sixth month versus sixth to ninth month prior to the score date in the past third to sixth month versus sixth to ninth month
Binary flag without applying all Diabetes HEDIS eligibility criteria indicating if evidence for HBA1C test is greater than or equal to nine in the past one year
percentage of claims corresponding to behavioral health conditions related to neuro cognition disorder: alzheimers in the past one year
SNAP participants (% pop)
percentage of claims related to other diagnostic procedures procedure in the past one year {based on CCS codes}
Greenhouse veg and fresh herb sq feet/1,000 pop
days since last prescription in the past sixth to ninth month prior to the score date
Orchard acres/1,000 pop
Persistent child poverty counties



unique authorization/admit count for post acute admits related to coronary artery disease in the past three months {Based on Major Clinical Condition}
Multiracial, low access to store
Census Geo-unit Quality Score
claims per month related to bone marrow biopsy procedure in the past one year {based on CCS codes}
unique authorization/admit count for acute admits related to coronary artery bypass graft (cabg) in the past three months {Based on CCS}
Median household income
trend of net paid cost per month of prescriptions related to maintenance drugs in the past third to sixth month versus sixth to ninth month prior to the score date
Health Outcomes - % Frequent mental distress
trend of admitted days per month for behavioral health claims related to skilled nursing inpatient facilities in the past third to sixth month versus sixth to ninth month prior to the score date in the past third to sixth month versus sixth to ninth month
trend of count per month of prescriptions purchased at cvs pharmacy in the past third to sixth month versus sixth to ninth month prior to the score date
Member zip code
unique authorization/admit count for post acute admits related to chronic kidney disease in the past three months {Based on Major Clinical Condition}
Hawaiian or Pacific Islander, low access to store
unique authorization/admit count for post acute admits related to nervous system in the past three months {Based on Major Clinical Condition}
unique authorization/admit count for admit category related to post_er in the past three months
Number Consumer Finance Accts New w/in 12 months
cost per month of prescriptions related to ULCER DRUGS/ANTISPASMODICS/ANTICHOLINERGICS drugs in the past three months prior to score date {Based on Generic Product Identifier-2 grouping}
Census Median Home Value
Average household size
net paid cost per month for prescriptions in the past sixth to ninth month prior to the score date
Percent of owner occupied housing units
Orchard farms
trend of visits per month for overall claims related to physician office in the past three months versus third to sixth month prior to the score date in the past three months versus third to sixth month prior to the score date
Farmers' markets that report accepting WIC
count per month of prescriptions related to BETA BLOCKERS drugs in the past three months prior to score date {Based on Generic Product Identifier-2 grouping}
unique authorization/admit count for post acute admits related to congestive heart failure in the past three months {Based on Major Clinical Condition}
Social and Economic Factors - Number of membership associations per 10K population
Farms with vegetables harvested for fresh market
unique authorization/admit count for acute admits related to other or rx procedures on respiratory system and mediastinum in the past three months {Based on CCS}
unique authorization/admit count for post acute admits related to infections in the past three months {Based on Major Clinical Condition}
unique authorization/admit count for acute admits related to signs and symptoms in the past three months {Based on Major Clinical Condition}
days since last claim in the past three months prior to score date

unique authorization/admit count for discharge category related to other in the past three months
Mean length of stay for authorization category of behavioral health acute in the past three months
percentage of claims related to endocrine in the past one year {based on Major Clinical Condition}
unique authorization/admit count for post acute admits related to genito-urinary system in the past three months {Based on Major Clinical Condition}
The probability of the individual being less likely to use doctor/physician as a primary source for medical information
Farmers' markets that report selling other food products
unique authorization/admit count for post acute admits related to endocrine in the past three months {Based on Major Clinical Condition}
unique authorization/admit count for acute admits related to musculoskeletal and connective tissue in the past three months {Based on Major Clinical Condition}
Persistent poverty counties
White, low access to store
Mean length of stay for authorization category of post acute in the past three months
count per month of prescriptions related to ANALGESICS - ANTI-INFLAMMATORY drugs in the past one year {Based on Generic Product Identifier-2 grouping}
unique authorization/admit count for acute admits related to genito-urinary system in the past three months {Based on Major Clinical Condition}
trend of the count per month of distinct prescriptions related to generic drugs at the GPI6 level in the past third to sixth month versus sixth to ninth month prior to the score date
Low education counties
Code indicating a member's race {0 = Unknown, 1 = White, 2 = Black, 3 = Other, 4 = Asian, 5 = Hispanic, 6 = N. American Native}

Field Name	Description
CONS_HHCOMP	Indicator of the household composition based on family position and presence of children.
MABH_SEG	MAPD Behavioral Segmentation - A classification of members based on their engagement with the health and their willingness to engage with Humana
SEX_CD	Individual Sex
LANG_SPOKEN_CD	Preferred language spoken in the home

CMS\_ORIG\_REAS\_ENTITLE\_CD

Code indicating the original reason for entry into  
Medicare

## Values

A = Married (husband and wife present) with children present.

B = Married (husband & wife present) with no children present.

C = Two persons, one male and one female - marital status unknown - with children present.

D = Two persons, one male and one female - marital status unknown with no children present.

E = Male householder with one or more other persons of any gender with children present.

F = Male householder with one or more persons of any gender with no children present.

G = Female householder with one or more other persons of any gender with children present.

H = Female householder with one or more other persons of any gender with no children present.

I = One person (male householder) with children present.

J = One person (male householder) with no children present.

K = One person (female householder) with children present.

L = One person (female householder) with no children present.

U = Composition unknown

H1 - Healthy: Self-Engaged Optimists

H2 - Healthy: Auto-Pilot Participators

H3 - Healthy: Health Services Maximizers

H4 - Healthy: Healthy Self-Sustainers

H5 - Healthy: Simplicity-Seeking Followers

H6 - Healthy: Skeptical Control-Seekers A

H7 - Healthy: Skeptical Control-Seekers B

H8 - Healthy: Overwhelmed and Reluctant Reactors

C1 - Chronic:Support-Seeking Participators

C2 - Chronic:Self-Engaged Optimists

C3 - Chronic:Health Services Maximizers

C4 - Chronic:Auto-Pilot Participators

C5 - Chronic:Simplicity-Seeking Followers

C6 - Chronic:Skeptical Control-Seekers

C7 - Chronic:Overwhelmed and Reluctant Reactors

F - Female

M - Male

VIE - Vietnamese

SPA - Spanish

ENG - English

CHI - Chinese

CRE - CREE

OTH - Other

0 - Old Age Survivors Insurance (OASI)

1 - Disable

2 - End Stage Renal Disease (ESRD)

3 - Both

null - null