CMS Monthly Enrollment Data Extraction - All Months

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Purpose

The purpose of this R code file is to wrangle raw monthly health plan enrollment data obtained from the Centers for Medicare & Medicaid Services (CMS) website, and extract only the relevant data for MAP and MA D-SNP plans in the New York area. The code then combines the separate monthly enrollment datasets into large time series datasets to analyze trends in health plan enrollments over time. The resulting datasets are available for the New York City (NYC), NYC metro area, and New York State (NYS) geographic regions. The code is designed to ensure minimal editing and ease of use when new months of data become available. This allows for efficient and consistent analysis of health plan enrollment trends over time. Overall, the aim of this code is to provide insights into the changing landscape of health plan enrollments in the New York area, which can inform decision-making for healthcare providers, policymakers, and other stakeholders.

Data

Monthly enrollment data at the contract/plan/state/county level was downloaded from CMS here: https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/MCRAdvPartDEnrolData/Monthly-Enrollment-by-Contract-Plan-State-County

The downloaded folders contain 2 files: an enrollment data file and a contract data file. Both files share the following common fields: `contract_number` (= `contract_id`) and `plan_id`. These two fields combined make up the H-number.

Overview

The function below called `enrollment_data` reads in these files and creates 2 output files: one for MAP plans and one for MA D-SNP plans for any given month. The output dataset is restricted to health plans (i.e. H-numbers) of interest only. The function merges the contract data file and the enrollment data file together using the shared fields `contract_number` (= `contract_id`) and `plan_id`. Then, it pivots the datasets to wide format and calculates the following "total" variables:

- New York City Total: `nyc_total` = the sum across New York, Bronx, Kings, Queens, and Richmond counties
- New York City Metro Total: `nyc_metro_total` = the sum across NYC counties plus Nassau, Suffolk, Westchester, and Rockland counties
- New York State Total: `nys_total` = the sum across all counties in New York

Finally, the function saves the resulting datasets in the R environment and creates a CSV file for both the MAP plan dataset and the MA D-SNP plan dataset:

```
enrollment_data <- function(yyyy_mm) {

  path_enroll = str_c("data/raw_data/CPSC_Enrollment_", yyyy_mm, "/CPSC_Enrollment_Info_", yyyy_mm, ".cs
  path_contract = str_c("data/raw_data/CPSC_Enrollment_", yyyy_mm, "/CPSC_Contract_Info_", yyyy_mm, ".cs

  # read in the enrollment data file
  enroll <- read_csv(path_enroll) %>%
    filter(State == "NY") %>%
    janitor::clean_names()

  # read in the contract data file and restrict to map plans (h-numbers) of interest only
  contract_map <- read_csv(path_contract) %>%
  janitor::clean_names() %>%
  mutate(h_number = str_c(contract_id, '-', plan_id)) %>% # create h-number variable
  filter(h_number %in% c("H3359-034", "H5549-003", "H3347-007", "H2168-002", "H6988-004", "H5599-003",

  # read in the contract data file and restrict to madsnp plans (h-numbers) of interest only
  contract_madsnp = read_csv(path_contract) %>%
  janitor::clean_names() %>%
  mutate(h_number = str_c(contract_id, '-', plan_id)) %>% # create h-number variable
  filter(h_number %in% c("H3312-069", "H4922-003", "H6988-002", "H3347-002", "H3330-042", "H5991-010",

# join the enrollment and contract data files
map =
  inner_join(enroll, contract_map, by = c("contract_number" = "contract_id", "plan_id" = "plan_id")) %>%
  select(h_number, contract_number, plan_id, organization_marketing_name, plan_name, plan_type, county,
  mutate(enrollment = case_when(enrollment == "*" ~ "0", enrollment != "*" ~ enrollment)) %>% # set cel
  mutate(enrollment = as.numeric(enrollment)) %>%
  pivot_wider(names_from = county, values_from = enrollment) %>% # make data wide format for readabilit
  janitor::clean_names() %>%
  select(order(colnames(.))) %>%
  select(h_number, contract_number, plan_id, organization_marketing_name, plan_name, plan_type, everythi
  mutate(
    nyc_total = (sum = rowSums(dplyr::select(., new_york, bronx, kings, queens, richmond), na.rm = TRUE
    nyc_metro_total = (sum = rowSums(dplyr::select(., new_york, bronx, kings, queens, richmond, nassau,
    nys_total = (sum = rowSums(dplyr::select(., albany:westchester), na.rm = TRUE))) %>% # calculate ny
  select(organization_marketing_name, plan_name, h_number, contract_number, plan_id, plan_type, nyc_tota

madsnp =
  inner_join(enroll, contract_madsnp, by = c("contract_number" = "contract_id", "plan_id" = "plan_id"))
  select(h_number, contract_number, plan_id, organization_marketing_name, plan_name, plan_type, county,
  mutate(enrollment = case_when(enrollment == "*" ~ "0", enrollment != "*" ~ enrollment)) %>%
  mutate(enrollment = as.numeric(enrollment)) %>%
  pivot_wider(names_from = county, values_from = enrollment) %>%
  janitor::clean_names() %>%
  select(order(colnames(.))) %>%
  select(h_number, contract_number, plan_id, organization_marketing_name, plan_name, plan_type, everythi
  mutate(
    nyc_total = (sum = rowSums(dplyr::select(., new_york, bronx, kings, queens, richmond), na.rm = TRUE
    nyc_metro_total = (sum = rowSums(dplyr::select(., new_york, bronx, kings, queens, richmond, nassau,
    nys_total = (sum = rowSums(dplyr::select(., albany:yates), na.rm = TRUE))) %>%
  select(organization_marketing_name, plan_name, h_number, contract_number, plan_id, plan_type, nyc_tota
```

```
map_blank <- map %>% # replicate dataset to create a version with blank cells rather than NAs
  select(-organization_marketing_name, -contract_number, -plan_id, -plan_type) # select only necessary
map_blank <- sapply(map_blank, as.character)
map_blank[is.na(map_blank)] <- "" # replace NA with blank

madsnp_blank <- madsnp %>% # replicate dataset to create a version with blank cells rather than NAs
  select(-organization_marketing_name, -contract_number, -plan_id, -plan_type) # select only necessary
madsnp_blank <- sapply(madsnp_blank, as.character)
madsnp_blank[is.na(madsnp_blank)] <- "" # replace NA with blank

# name each resulting dataset based on the month and year of the input data files
df_name_map = str_c("map_", yyyy_mm)
df_name_madsnp = str_c("madsnp_", yyyy_mm)

assign(x = df_name_map, value = map, envir = globalenv()) # or map_blank
assign(x = df_name_madsnp, value = madsnp, envir = globalenv()) # or madsnp_blank

# save datasets as csv files
save_path_map = str_c("data/output_data/map/", df_name_map, ".csv")
save_path_madsnp = str_c("data/output_data/madsnp/", df_name_madsnp, ".csv")

write.csv(map_blank,save_path_map, row.names = TRUE)
write.csv(madsnp_blank, save_path_madsnp, row.names = TRUE)
}
```

The `enrollment_data` function above is applied to all months of data from 2021 - present:

```
enrollment_data(yyyy_mm = "2023_02")  # note: must add new row above here for new months
enrollment_data(yyyy_mm = "2023_01")
enrollment_data(yyyy_mm = "2022_12")
enrollment_data(yyyy_mm = "2022_11")
enrollment_data(yyyy_mm = "2022_10")
enrollment_data(yyyy_mm = "2022_09")
enrollment_data(yyyy_mm = "2022_08")
enrollment_data(yyyy_mm = "2022_07")
enrollment_data(yyyy_mm = "2022_06")
enrollment_data(yyyy_mm = "2022_05")
enrollment_data(yyyy_mm = "2022_04")
enrollment_data(yyyy_mm = "2022_03")
enrollment_data(yyyy_mm = "2022_02")
enrollment_data(yyyy_mm = "2022_01")
enrollment_data(yyyy_mm = "2021_12")
enrollment_data(yyyy_mm = "2021_11")
enrollment_data(yyyy_mm = "2021_10")
enrollment_data(yyyy_mm = "2021_09")
enrollment_data(yyyy_mm = "2021_08")
enrollment_data(yyyy_mm = "2021_07")
enrollment_data(yyyy_mm = "2021_06")
enrollment_data(yyyy_mm = "2021_05")
enrollment_data(yyyy_mm = "2021_04")
enrollment_data(yyyy_mm = "2021_03")
enrollment_data(yyyy_mm = "2021_02")
enrollment_data(yyyy_mm = "2021_01")
```

The functions and code blocks below create time series datasets for MAP and MA D-SNP plans by Region (NYC, NYC Metro Area, NYS) and adjusts the column names:

```
# NYC MAP
# initialize nyc_map as an empty dataframe
nyc_map <- data.frame()

# iterate over each month and year
for (year in 2021:2023) { # note: adjust if beyond 2023
  for (month in 1:12) {
    # create the name of the dataframe to be merged
    map_name <- paste0("map_", year, "_", sprintf("%02d", month))

    # check if object exists
    if (exists(map_name)) {
      # merge the current dataframe with nyc_metro_map
      if (nrow(nyc_map) == 0) {
        # if nyc_metro_map is empty, just add the current dataframe to it
        nyc_map <- get(map_name)[ , c("h_number", "nyc_total")]
      } else {
        # if nyc_metro_map is not empty, merge the current dataframe with it
        merge_cols <- c("h_number")
        nyc_map <- merge(nyc_map,
                         get(map_name)[ , c("h_number", "nyc_total")],
                         by = merge_cols,
                         all = TRUE)
        # clean up suffixes in column names
        colnames(nyc_map) <- gsub("_x$", "", colnames(nyc_map))
        colnames(nyc_map) <- gsub("_y$", "", colnames(nyc_map))
      }
    } else {
      # object does not exist, so skip this iteration
      next
    }
  }
}
```

```
# NYC Metro MAP
# initialize nyc_metro_map as an empty dataframe
nyc_metro_map <- data.frame()

# iterate over each month and year
for (year in 2021:2023) { # note: adjust if beyond 2023
  for (month in 1:12) {
    # create the name of the dataframe to be merged
    map_name <- paste0("map_", year, "_", sprintf("%02d", month))

    # check if object exists
    if (exists(map_name)) {
      # merge the current dataframe with nyc_metro_metro_map
      if (nrow(nyc_metro_map) == 0) {
        # if nyc_metro_metro_map is empty, just add the current dataframe to it
        nyc_metro_map <- get(map_name)[ , c("h_number", "nyc_metro_total")]
      } else {
```

```
        # if nyc_metro_metro_map is not empty, merge the current dataframe with it
        merge_cols <- c("h_number")
        nyc_metro_map <- merge(nyc_metro_map,
                               get(map_name)[ , c("h_number", "nyc_metro_total")],
                               by = merge_cols,
                               all = TRUE)
        # clean up suffixes in column names
        colnames(nyc_metro_map) <- gsub("_x$", "", colnames(nyc_metro_map))
        colnames(nyc_metro_map) <- gsub("_y$", "", colnames(nyc_metro_map))
      }
    } else {
      # object does not exist, so skip this iteration
      next
    }
  }
}
```

```
# NYS MAP
# initialize nys_map as an empty dataframe
nys_map <- data.frame()

# iterate over each month and year
for (year in 2021:2023) { # note: adjust if beyond 2023
  for (month in 1:12) {
    # create the name of the dataframe to be merged
    map_name <- paste0("map_", year, "_", sprintf("%02d", month))

    # Check if object exists
    if (exists(map_name)) {
      # merge the current dataframe with nys_metro_map
      if (nrow(nys_map) == 0) {
        # if nys_metro_map is empty, just add the current dataframe to it
        nys_map <- get(map_name)[ , c("h_number", "nys_total")]
      } else {
        # if nys_metro_map is not empty, merge the current dataframe with it
        merge_cols <- c("h_number")
        nys_map <- merge(nys_map,
                         get(map_name)[ , c("h_number", "nys_total")],
                         by = merge_cols,
                         all = TRUE)
        # clean up suffixes in column names
        colnames(nys_map) <- gsub("_x$", "", colnames(nys_map))
        colnames(nys_map) <- gsub("_y$", "", colnames(nys_map))
      }
    } else {
      # object does not exist, so skip this iteration
      next
    }
  }
}
```

```
# NYC MA D-SNP
# initialize nyc_madsnp as an empty dataframe
```

```r
nyc_madsnp <- data.frame()

# iterate over each month and year
for (year in 2021:2023) { # note: adjust if beyond 2023
  for (month in 1:12) {
    # create the name of the dataframe to be merged
    madsnp_name <- paste0("madsnp_", year, "_", sprintf("%02d", month))

    # check if object exists
    if (exists(madsnp_name)) {
      # merge the current dataframe with nyc_metro_madsnp
      if (nrow(nyc_madsnp) == 0) {
        # if nyc_metro_madsnp is empty, just add the current dataframe to it
        nyc_madsnp <- get(madsnp_name)[ , c("h_number", "nyc_total")]
      } else {
        # if nyc_metro_madsnp is not empty, merge the current dataframe with it
        merge_cols <- c("h_number")
        nyc_madsnp <- merge(nyc_madsnp,
                            get(madsnp_name)[ , c("h_number", "nyc_total")],
                            by = merge_cols,
                            all = TRUE)
        # clean up suffixes in column names
        colnames(nyc_madsnp) <- gsub("_x$", "", colnames(nyc_madsnp))
        colnames(nyc_madsnp) <- gsub("_y$", "", colnames(nyc_madsnp))
      }
    } else {
      # object does not exist, so skip this iteration
      next
    }
  }
}
```

```r
# NYC Metro MA D-SNP
# initialize nyc_metro_madsnp as an empty dataframe
nyc_metro_madsnp <- data.frame()

# iterate over each month and year
for (year in 2021:2023) { # note: adjust if beyond 2023
  for (month in 1:12) {
    # create the name of the dataframe to be merged
    madsnp_name <- paste0("madsnp_", year, "_", sprintf("%02d", month))

    # check if object exists
    if (exists(madsnp_name)) {
      # merge the current dataframe with nyc_metro_metro_madsnp
      if (nrow(nyc_metro_madsnp) == 0) {
        # if nyc_metro_metro_madsnp is empty, just add the current dataframe to it
        nyc_metro_madsnp <- get(madsnp_name)[ , c("h_number", "nyc_metro_total")]
      } else {
        # if nyc_metro_metro_madsnp is not empty, merge the current dataframe with it
        merge_cols <- c("h_number")
        nyc_metro_madsnp <- merge(nyc_metro_madsnp,
                            get(madsnp_name)[ , c("h_number", "nyc_metro_total")],
```

```
                        by = merge_cols,
                        all = TRUE)
        # clean up suffixes in column names
        colnames(nyc_metro_madsnp) <- gsub("_x$", "", colnames(nyc_metro_madsnp))
        colnames(nyc_metro_madsnp) <- gsub("_y$", "", colnames(nyc_metro_madsnp))
      }
    } else {
      # object does not exist, so skip this iteration
      next
    }
  }
}
```

```
# NYS MA D-SNP
# initialize nys_madsnp as an empty dataframe
nys_madsnp <- data.frame()

# iterate over each month and year
for (year in 2021:2023) { # note: adjust if beyond 2023
  for (month in 1:12) {
    # create the name of the dataframe to be merged
    madsnp_name <- paste0("madsnp_", year, "_", sprintf("%02d", month))

    # check if object exists
    if (exists(madsnp_name)) {
      # merge the current dataframe with nys_metro_madsnp
      if (nrow(nys_madsnp) == 0) {
        # if nys_metro_madsnp is empty, just add the current dataframe to it
        nys_madsnp <- get(madsnp_name)[ , c("h_number", "nys_total")]
      } else {
        # if nys_metro_madsnp is not empty, merge the current dataframe with it
        merge_cols <- c("h_number")
        nys_madsnp <- merge(nys_madsnp,
                        get(madsnp_name)[ , c("h_number", "nys_total")],
                        by = merge_cols,
                        all = TRUE)
        # Clean up suffixes in column names
        colnames(nys_madsnp) <- gsub("_x$", "", colnames(nys_madsnp))
        colnames(nys_madsnp) <- gsub("_y$", "", colnames(nys_madsnp))
      }
    } else {
      # object does not exist, so skip this iteration
      next
    }
  }
}
```

```
# Add column names to all MAP and MA D-SNP dataframes
  # create column names vector
col_name_vector_forward = c("h_number", "2021_01", "2021_02", "2021_03", "2021_04", "2021_05", "2021_06

  # applying colnames
    # map datasets
```

```
colnames(nyc_map) = col_name_vector_forward
colnames(nyc_metro_map) = col_name_vector_forward
colnames(nys_map) = col_name_vector_forward

    # madsnp datasets
colnames(nyc_madsnp) = col_name_vector_forward
colnames(nyc_metro_madsnp) = col_name_vector_forward
colnames(nys_madsnp) = col_name_vector_forward
```

```
# Add `plan_name` column to the datasets by merging a month dataset with the time series dataset using
  # restrict month dataset to only the columns of interest (plan_name, h_number)
map_plan_names <- map_2023_02 %>% # note: may need to adjust to more recent month/year dataset if new p
  select(plan_name, h_number)

madsnp_plan_names <- madsnp_2023_02 %>% # note: may need to adjust to more recent month/year dataset if
  select(plan_name, h_number)

  # join the datasets and move plan_name to the front
    # map datasets
nyc_map <- inner_join(nyc_map, map_plan_names, by = "h_number") %>%
  select(plan_name, everything())

nyc_metro_map <- inner_join(nyc_metro_map, map_plan_names, by = "h_number") %>%
  select(plan_name, everything())

nys_map <- inner_join(nys_map, map_plan_names, by = "h_number") %>%
  select(plan_name, everything())

    # madsnp datasets
nyc_madsnp <- inner_join(nyc_madsnp, madsnp_plan_names, by = "h_number") %>%
  select(plan_name, everything())
nyc_madsnp[is.na(nyc_madsnp)] <- 0 # replace NA with 0s

nyc_metro_madsnp <- inner_join(nyc_metro_madsnp, madsnp_plan_names, by = "h_number") %>%
  select(plan_name, everything())
nyc_metro_madsnp[is.na(nyc_metro_madsnp)] <- 0 # replace NA with 0s

nys_madsnp <- inner_join(nys_madsnp, madsnp_plan_names, by = "h_number") %>%
  select(plan_name, everything())
nys_madsnp[is.na(nys_madsnp)] <- 0 # replace NA with 0s
```

Preview final time series datasets:

NYC MAP Enrollment

plan_name	he_number	2020_01	2020_02	2020_03	2020_04	2020_05	2020_06	2020_07	2020_08	2020_09	2020_10	2020_11	2020_12	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
Hamaspik Medicare Choice (HMO D-SNP)	H0034-002	0	0	0	0	0	0	12	21	47	56	87	86	92	101	130	173	196	232	257	289	340	379	404	423	461													
MetroPlus Ultra Care (HMO D-SNP)	H0423-007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	13	25	26	37												
Empire Medi-Blue Health-Plus Dual Plus (HMO D-SNP)	H1782-001	0	0	0	37	44	70	79	91	93	101	117	118	150	152	159	159	161	157	159	149	151	156	169	159	148													
VillageCare Medicare Total Advantage (HMO D-SNP)	H2106-002	2502	2637	2725	2835	2859	2898	2898	2915	2894	2871	2807	2798	2774	2757	2734	2705	2722	2730	2678	2658	2638	2616	2577	2529	2540													
Elderplan Plus Long Term Care (HMO D-SNP)	H3347-007	1713	2193	2255	2258	2404	2443	2473	2519	2551	2572	2577	2571	2542	2592	2595	2657	2715	2756	2796	2831	2859	2897	2906	2912	2895	2934													
Healthfirst Complete-Care (HMO D-SNP)	H3351-034	1473	1542	1593	1638	1589	1720	1757	1797	1823	1855	1866	1871	1895	1945	1962	1988	2029	2077	2115	2131	2137	2144	2158	2172	2190	2226	3											

plan_name	he_number	2021-01	2021-02	2021-03	2021-04	2021-05	2021-06	2021-07	2021-08	2021-09	2021-10	2021-11	2021-12	2022-01	2022-02	2022-03	2022-04	2022-05	2022-06	2022-07	2022-08	2022-09	2022-10	2022-11	2022-12	2023-01	2023-02
AgeWell New York Advantage Plus (HMO D-SNP)	H4902-010	0	0	11	12	12	12	12	12	12	12	12	13	12	12	12	13	14	14	15	17	29	30	33	35	38	
VNS Health Total (HMO D-SNP)	H5524-003	2903	2868	2838	2812	2810	2817	2856	2867	2873	2897	2883	2845	2848	2797	2781	2759	2789	2802	2796	2824	2823	2817	2823	2784	2886	2903
Wellcare Fidelis Dual Plus (HMO D-SNP)	H5597-003	18	16	16	31	65	74	77	103	118	139	152	157	160	164	171	186	273	325	349	393	415	419	409	396	428	
Wellcare Fidelis Dual Plus (HMO D-SNP)	H5599-008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Senior Whole Health of New York NHC (HMO D-SNP)	H5991-007	126	115	114	113	112	109	109	110	110	110	112	108	104	100	99	104	109	118	123	128	145	139	136	132	136	139
RiverSpring MAP (HMO D-SNP)	H6776-002	11	14	41	43	47	49	50	47	55	55	57	55	58	68	72	72	80	80	93	99	104	112	122	130	147	

plan_name	he_number	2021-01	2021-02	2021-03	2021-04	2021-05	2021-06	2021-07	2021-08	2021-09	2021-10	2021-11	2021-12	2022-01	2022-02	2022-03	2022-04	2022-05	2022-06	2022-07	2022-08	2022-09	2022-10	2022-11	2022-12	2023-01	2023-02
Centers Plan for Medicaid Advantage Plus (HMO D-SNP)	H6988-004	153	276	366	431	475	478	526	565	595	637	635	746	865	950	1009	1040	1088	1107	1126	1155	1176	1181	1152	1186	1256	

NYC Metro MAP Enrollment

plan_name	he_number	2021-01	2021-02	2021-03	2021-04	2021-05	2021-06	2021-07	2021-08	2021-09	2021-10	2021-11	2021-12	2022-01	2022-02	2022-03	2022-04	2022-05	2022-06	2022-07	2022-08	2022-09	2022-10	2022-11	2022-12	2023-01	2023-02
Hamaspik Medicare Choice (HMO D-SNP)	H0084-002	0	0	0	0	0	0	12	33	61	80	111	101	110	115	145	190	214	262	301	342	408	452	480	504	543	
MetroPlus Ultra Care (HMO D-SNP)	H0423-007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	13	25	26	37
Empire Medi-Blue Health-Plus Dual Plus (HMO D-SNP)	H1732-001	0	0	0	37	44	70	79	91	93	101	117	131	166	165	172	174	175	174	177	168	169	174	188	176	165	
VillageCare Medicare Total Advantage (HMO D-SNP)	H2106-SX002	250	263	272	283	285	289	289	291	289	287	280	279	277	275	273	270	272	273	267	265	263	261	257	252	254	

plan_name	he_numbe	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
Elderplan Plus Long Term Care (HMO D-SNP)	H3347-007	2782	2369	2434	2438	2588	2631	2663	2713	2748	2767	2772	2768	2738	2783	2784	2848	2904	2943	2982	3017	3043	3084	3096	3105	3086	3120
Healthfirst Complete-Care (HMO D-SNP)	H3359-034	1916	1688	1541	1788	1741	1774	1814	1855	1883	1916	1928	1937	1952	2701	2202	2285	2956	3099	2147	2618	2204	2213	2221	2238	2254	2273	2311	4
AgeWell New York Advantage Plus (HMO D-SNP)	H4992-010	0	11	27	31	32	36	35	37	39	39	40	42	44	44	44	46	48	47	53	56	74	74	77	84	90	
VNS Health Total (HMO D-SNP)	H5530-003	3028	2988	2963	2941	2948	2955	3003	3016	3022	3043	3033	2991	2997	2948	2932	2902	2944	2954	2953	2986	2988	2986	2994	2954	3075	3100
Wellcare Fidelis Dual Plus (HMO D-SNP)	H5597-003	18	16	16	31	65	74	77	103	118	139	152	157	160	164	171	186	273	325	349	408	428	432	422	410	442	
Wellcare Fidelis Dual Plus (HMO D-SNP)	H5599-008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

plan_name	me_numbe	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
Senior Whole Health of New York NHC (HMO D-SNP)	H5991-007	126	115	114	113	112	109	109	110	110	110	112	108	104	100	99	104	109	118	123	128	145	139	136	132	136	139
RiverSpring MAP (HMO D-SNP)	H6776-002	11	14	41	43	47	49	50	47	55	55	57	55	58	68	72	72	80	80	93	99	104	112	122	130	147	
Centers Plan for Medicaid Advantage Plus (HMO D-SNP)	H6988-004	153	276	378	443	494	507	558	602	633	678	675	794	920	1009	1066	1099	1148	1173	1192	1226	1251	1257	1229	1264	1336	

NYS MAP Enrollment

plan_name	me_numbe	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
Hamaspik Medicare Choice (HMO D-SNP)	H0084-002	0	0	0	0	0	0	12	60	87	107	139	129	137	143	176	221	246	292	333	374	440	485	514	539	579	
MetroPlus UltraCare (HMO D-SNP)	H0423-007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	13	25	26	37	

plan_name	he_num	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
Empire Medi-Blue Health-Plus Dual Plus (HMO D-SNP)	H1782-001	0	0	0	37	44	70	79	91	93	101	117	131	166	165	172	174	175	174	177	168	169	174	188	176	165	
VillageCare Medicare Total Advantage (HMO D-SNP)	H2106-002	0	250	263	272	283	285	289	289	291	289	287	280	279	277	275	273	270	272	273	267	265	263	261	257	252	254
Elderplan Plus Long Term Care (HMO D-SNP)	H3327-007	228	236	243	243	258	263	266	271	274	276	277	276	273	278	278	284	290	294	298	301	304	309	310	311	309	313
Healthfirst Complete-Care (HMO D-SNP)	H3359-034	159	166	185	164	178	180	174	177	174	181	185	168	184	191	178	193	193	196	201	201	203	205	204	210	215	209
AgeWell New York Advantage Plus (HMO D-SNP)	H4902-010	0	11	27	31	32	36	35	37	39	39	40	42	44	44	44	46	48	47	53	56	74	74	77	84	90	
VNS Health Total (HMO D-SNP)	H5530-003	292	298	296	294	294	295	300	301	302	304	303	299	299	294	293	290	294	295	295	298	298	298	299	295	307	310

plan_name	he_number	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
Wellcare Fidelis Dual Plus (HMO D-SNP)	H5597-003	17	18	16	16	31	65	74	77	103	118	139	152	157	160	164	171	186	273	325	349	408	428	432	422	410	442
Wellcare Fidelis Dual Plus (HMO D-SNP)	H5599-008	16	16	16	16	16	16	16	16	16	15	17	16	14	15	15	14	29	42	52	70	111	125	115	101	93	110
Senior Whole Health of New York NHC (HMO D-SNP)	H5992-007	126	115	114	113	112	109	109	110	110	110	112	108	104	100	99	104	109	118	123	128	145	139	136	132	136	139
RiverSpring MAP (HMO D-SNP)	H6776-002	11	14	41	43	47	49	50	47	55	55	57	55	58	68	72	72	80	80	93	99	104	112	122	130	147
Centers Plan for Medicaid Advantage Plus (HMO D-SNP)	H6988-004	153	276	378	443	494	507	558	602	633	678	675	794	920	1009	1066	1099	1148	1173	1192	1226	1251	1257	1229	1264	1336

NYC MA D-SNP Enrollment

plan_name	plan_number	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
Hamaspik Medicare Select (HMO D-SNP)	H0084-001	0	0	0	18	36	33	54	50	42	43	41	88	104	101	98	98	97	97	96	85	91	137	149	167	162	
UnitedHealthcare Dual Complete Choice (PPO D-SNP)	H1264-060	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	165	1976	
MetroPlus Advantage Plan (HMO D-SNP)	H0427-001	7360	7907	8008	8153	8256	8378	8509	8608	8718	8735	8788	8928	8704	8719	8726	8751	8827	8948	9096	9113	9233	9265	9331	9438	9292	9318
Empire Medi-Blue Health-Plus Dual Connect (HMO D-SNP)	H1732-003	2403	2076	2664	2127	3580	4044	4602	5056	5363	5795	5986	6037	7668	8193	8543	9045	9465	9916	10288	10470	10606	10991	11234	11443	11201	12279
VillageCare Medicare Health Advantage (HMO D-SNP)	H2149-001	255	263	276	306	339	389	443	511	566	589	585	551	475	440	464	448	452	454	449	474	493	488	485	467	468	462

plan_name	plan_id	2020_01	2020_02	2020_03	2020_04	2020_05	2020_06	2020_07	2020_08	2020_09	2020_10	2020_11	2020_12	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
VillageCare Medicare Health Advantage FLEX (HMO D-SNP)	H2168-003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	47
Aetna Medicare Assure Plan (HMO D-SNP)	H3388-069	96	115	129	147	171	191	210	231	247	268	281	278	351	363	372	379	395	402	413	423	430	441	441	445	464	392	3											
EmblemHealth VIP Dual (HMO D-SNP)	H3388-042	3	11	24	112	91	198	136	285	216	421	852	195	220	322	421	321	189	168	378	861	344	801	677	846	760	739	470	768	817	554	628	361	715	396	208			
ElderplanFor Medicaid Beneficiaries (HMO D-SNP)	H3347-002	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3962
Healthfirst Life Improvement Plan (HMO D-SNP)	H3351-021	9	47	31	57	84	64	118	310	475	156	834	909	1289	1632	2245	2333	2943	2964	2842	2893	3033	3133	3182	3283	3398	3713	3651	3475	3584	3691	3791	4065						
UnitedHealthcare Dual Complete Plan 1 (HMO-POS D-SNP)	H3387-014	0	0	0	0	0	0	0	0	0	0	0	0	6080	8279	9631	7356	9405	9445	8827	8572	8574	6629	8688	7712	9407	5751											

plan_name	plan_id	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
UnitedHealthcare Dual Complete Plan 2 (HMO-POS D-SNP)	H3387-015	0	0	0	0	0	0	0	0	0	0	0	0	4047	3872	3509	3373	3224	3175	3113	3063	3016	2977	2972	2962	2842	2827
Humana Gold Plus SNP-DE H3533-034 (HMO D-SNP)	H3533-034	0	0	0	0	0	0	0	0	0	0	0	0	6709	6807	6916	6986	7068	7097	7188	7265	7285	7356	7339	7225	7580	7549
AgeWell New York Feel-Well (HMO D-SNP)	H4923-003	33	33	33	30	29	29	30	30	27	27	25	25	25	27	26	29	28	25	35	34	33	20	18	19	16	
VNS Health Easy-Care Plus (HMO D-SNP)	H5509-011	0	0	0	0	0	0	0	0	0	0	0	0	623	850	952	1063	1186	1276	1360	1444	1523	1685	1729	1710	2009	2153
Wellcare Fidelis Dual Access (HMO D-SNP)	H5599-001	1928	1830	1822	1831	1828	1830	1822	1821	1824	1821	1660	1798	1786	1858	1809	1811	1816	1814	1818	1823	1822	1673	1535	1535	1231	1541	1795	1805
HumanaChoice SNP-DE H5970-026 (PPO D-SNP)	H5970-026	0	0	0	0	0	0	0	0	0	0	0	0	411	496	577	637	712	772	819	878	910	955	981	988	1244	1297

plan_name	contract_number	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
EmblemHealth VIP Dual Reserve (HMO D-SNP)	H5987-010	537	653	842	952	1047	1066	1077	1119	1155	1158	1184	1149	1071	1036	995	979	978	959	942	919	894	877	860	850	1038	1085
Senior Whole Health Medicare Complete Care (HMO D-SNP)	H5992-008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Centers Plan for Dual Coverage Care (HMO D-SNP)	H6978-002	820	650	675	704	790	846	877	910	891	886	863	845	919	933	902	923	912	894	867	850	804	788	767	745	794	750
Empire Medi-Blue Dual Advantage (HMO D-SNP)	H8432-007	4284	4103	4033	3961	3847	3743	3681	3615	3538	3472	3424	3386	3252	3181	3103	3045	2972	2917	2862	2792	2753	2687	2652	2625	2554	2503
Empire Medi-Blue Dual Advantage Select (HMO D-SNP)	H8453-028	5332	5163	4808	4664	4594	4539	4486	4376	4336	4267	4237	4199	4065	3902	3741	3623	3503	3403	3343	3251	3184	3141	3115	3082	2958	2915

NYC Metro MA D-SNP Enrollment

plan_name	plan_number	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
Hamaspik Medicare Select (HMO D-SNP)	H0084-001	0	12	19	42	59	54	75	81	75	74	76	145	198	203	234	253	254	257	265	254	258	315	330	358	357	
UnitedHealthcare Dual Complete Choice (PPO D-SNP)	H1261-060	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1998	2451
MetroPlus Advantage Plan (HMO D-SNP)	H0427-001	2760	7907	8008	8153	8256	8378	8509	8608	8718	8735	8788	8928	8704	8719	8726	8751	8827	8948	9096	9113	9233	9265	9331	9438	9292	9318
Empire Medi-Blue Health-Plus Dual Connect (HMO D-SNP)	H1738-003	3775	12505	13181	13731	14260	14773	15442	15976	16406	16942	17216	17301	13671	10081	10541	11168	11715	12301	12791	13061	13283	13752	14068	14321	15025	15407
VillageCare Medicare Health Advantage (HMO D-SNP)	H2149-001	185	263	276	306	339	389	443	511	566	589	585	551	475	440	464	448	452	454	449	474	493	488	485	467	468	462

plan_name	[illegible]_number	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
VillageCareMAX Medicare Health Advantage FLEX (HMO D-SNP)	H2168-003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	47
Aetna Medicare Assure Plan (HMO D-SNP)	H3312-069	1337	1753	1988	2292	2688	2974	3271	3575	3778	4104	4301	4294	4444	4703	5904	6031	6348	6535	6694	6894	6994	7172	7240	7309	9049	9505
EmblemHealth VIP Dual (HMO D-SNP)	H3330-042	26506	26548	26613	26619	26879	27069	27262	27555	27688	27812	27945	27706	26209	24062	23544	23174	22851	22629	22416	22052	21792	21514	21221	21093	20165	20075
Elderplan For Medicaid Beneficiaries (HMO D-SNP)	H3347-002	4156	4182	4211	4269	4222	4255	4372	4449	4480	4505	4569	4635	4507	4502	4517	4532	4539	4532	4506	4480	4418	4348	4319	4379	4185	4083
Healthfirst Life Improvement Plan (HMO D-SNP)	H3359-021	19928	20422	21183	21069	22489	23336	24172	25812	26188	27814	27802	28634	32153	34463	35673	36908	38563	39730	40103	40231	43904	45192	46136	47436	47895	48776
UnitedHealthcare Dual Complete Plan 1 (HMO-POS D-SNP)	H3387-014	0	0	0	0	0	0	0	0	0	0	0	0	69807	71212	72667	73150	73837	74417	74935	75527	76178	76937	77607	78015	80908	82556

plan_name	plan_id	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
UnitedHealthcare Dual Complete Plan 2 (HMO-POS D-SNP)	H3387-015	0	0	0	0	0	0	0	0	0	0	0	0	502	484	514	438	427	412	407	400	293	328	288	384	384	382	368	367
Humana Gold Plus SNP-DE H3533-034 (HMO D-SNP)	H3533-034	0	0	0	0	0	0	0	0	0	0	0	0	968	990	810	818	822	823	914	832	623	787	814	821	911	991	937	827	712	771	377
AgeWell New York Feel-Well (HMO D-SNP)	H4912-003	124	124	117	118	113	109	106	105	105	100	99	96	91	90	94	91	91	88	81	88	85	77	65	63	62	56					
VNS Health Easy-Care Plus (HMO D-SNP)	H5509-011	0	0	0	0	0	0	0	0	0	0	0	0	635	880	997	1108	1242	1341	1429	1517	1602	1774	1819	1798	2118	2266					
Wellcare Fidelis Dual Access (HMO D-SNP)	H5529-001	2465	2242	2146	2848	2486	2848	2548	2789	2489	2480	2847	2546	2577	2804	2512	2652	2853	2455	2656	2537	2595	2603	2608	2630	2569	2293	6				
HumanaChoice SNP-DE H5970-026 (PPO D-SNP)	H5970-026	0	0	0	0	0	0	0	0	0	0	0	0	411	496	577	637	712	772	819	878	910	955	981	988	1244	1297					

plan_name	plan_number	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
EmblemHealth VIP Dual Reserve (HMO D-SNP)	H5991-010	537	653	842	952	1047	1066	1077	1119	1155	1158	1184	1149	1071	1036	995	979	978	959	942	919	894	877	860	850	1038	1085
Senior Whole Health Medicare Complete Care (HMO D-SNP)	H5992-008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Centers Plan for Dual Coverage Care (HMO D-SNP)	H6978-002	820	650	675	704	790	846	877	910	891	886	863	845	946	959	927	950	944	924	897	873	826	809	789	767	811	766
Empire MediBlue Dual Advantage (HMO D-SNP)	H8432-007	4717	4635	4563	4474	4351	4235	4162	4083	3998	3941	3886	3846	3697	3627	3546	3489	3412	3355	3295	3213	3162	3091	3056	3022	2946	2880
Empire MediBlue Dual Advantage Select (HMO D-SNP)	H8432-028	6284	6306	5907	5745	5685	5637	5596	5477	5427	5367	5304	5256	5111	4919	4729	4585	4443	4333	4273	4161	4077	4044	4016	3963	3813	3752

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plan_name	plan_id	2020-01	2020-02	2020-03	2020-04	2020-05	2020-06	2020-07	2020-08	2020-09	2020-10	2020-11	2020-12	2021-01	2021-02	2021-03	2021-04	2021-05	2021-06	2021-07	2021-08	2021-09	2021-10	2021-11	2021-12	2022-01	2022-02	2022-03	2022-04	2022-05	2022-06	2022-07	2022-08	2022-09	2022-10	2022-11	2022-12	2023-01	2023-02
Hamaspik Medicare Select (HMO D-SNP)	H0084-001	0	68	106	156	185	187	206	215	229	227	231	380	475	486	524	557	560	568	582	569	579	648	708	724	736													
UnitedHealthcare Dual Complete Choice (PPO D-SNP)	H1264-060	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4302	5213											
MetroPlus Advantage Plan (HMO D-SNP)	H0427-001	7360	7907	8008	8153	8256	8378	8509	8608	8718	8735	8788	8928	8704	8719	8726	8751	8827	8948	9096	9113	9233	9265	9331	9438	9292	9318												
Empire Medi-Blue Health-Plus Dual Connect (HMO D-SNP)	H1738-003	3894	4535	4224	4782	4317	4846	5515	5066	4497	7046	7334	7422	9536	10258	10721	11361	11924	12514	13022	12291	13506	13986	14302	14558	15217	15649												
VillageCare Medicare Health Advantage (HMO D-SNP)	H2149-001	255	263	276	306	339	389	443	511	566	589	585	551	475	440	464	448	452	454	449	474	493	488	485	467	468	462												

plan_name	c_number	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
VillageCareMAX Medicare Health Advantage FLEX (HMO D-SNP)	H2168-003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	47
Aetna Medicare Assure Plan (HMO D-SNP)	H3312-069	1337	1753	1988	2292	2688	2974	3271	3575	3778	4104	4301	4294	5444	5703	5904	6031	6348	6535	6694	6894	6994	7172	7240	7309	9049	9505
EmblemHealth VIP Dual (HMO D-SNP)	H3330-042	[illegible]	27382	27442	27432	27723	27903	28103	28418	28552	28712	28862	28606	[illegible]	24792	24248	23857	23510	23283	23072	22692	22426	22133	21831	21692	20740	20644
Elderplan For Medicaid Beneficiaries (HMO D-SNP)	H3347-002	[illegible]	4182	4211	4269	4222	4255	4372	4449	4480	4505	4569	4635	4507	4502	4517	4532	4539	4532	4506	4480	4418	4348	4319	4379	4185	4083
Healthfirst Life Improvement Plan (HMO D-SNP)	H3359-021	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
UnitedHealthcare Dual Complete Plan 1 (HMO-POS D-SNP)	H3387-014	0	0	0	0	0	0	0	0	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

plan_name	plan_id	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
UnitedHealthcare Dual Complete Plan 2 (HMO-POS D-SNP)	H3387-015	0	0	0	0	0	0	0	0	0	0	0	0	9368	9255	8797	8604	8437	8392	8314	8229	8188	8128	8125	8127	7910	7874
Humana Gold Plus SNP-DE H3533-034 (HMO D-SNP)	H3533-034	0	0	0	0	0	0	0	0	0	0	0	0	9689	9908	10088	10221	12394	14482	16263	18784	19821	21919	19937	17827	17127	17377
AgeWell New York Feel-Well (HMO D-SNP)	H4912-003	124	124	117	118	113	109	106	105	105	100	99	96	91	90	94	91	91	88	81	88	85	77	65	63	62	56
VNS Health Easy-Care Plus (HMO D-SNP)	H5509-011	0	0	0	0	0	0	0	0	0	0	0	0	635	880	997	1108	1242	1341	1429	1517	1602	1774	1819	1798	2118	2266
Wellcare Fidelis Dual Access (HMO D-SNP)	H5599-001	1988	1254	1924	2081	2234	2237	2323	2399	2402	2304	2222	2154	4605	4886	4893	4422	4429	4704	4501	4499	4542	4556	4266	4511	4804	4818
HumanaChoice SNP-DE H5970-026 (PPO D-SNP)	H5970-026	0	0	0	0	0	0	0	0	0	0	0	0	411	496	577	637	712	772	819	878	910	955	981	988	1244	1297

plan_name	le_name	2021_01	2021_02	2021_03	2021_04	2021_05	2021_06	2021_07	2021_08	2021_09	2021_10	2021_11	2021_12	2022_01	2022_02	2022_03	2022_04	2022_05	2022_06	2022_07	2022_08	2022_09	2022_10	2022_11	2022_12	2023_01	2023_02
EmblemHealth VIP Dual Reserve (HMO D-SNP)	H5991-010	937	653	842	952	1047	1066	1077	1119	1155	1158	1184	1149	1071	1036	995	979	978	959	942	919	894	877	860	850	1038	1085
Senior Whole Health Medicare Complete Care (HMO D-SNP)	H5992-008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Centers Plan for Dual Coverage Care (HMO D-SNP)	H6978-002	820	650	675	704	790	846	877	910	891	886	863	845	946	959	927	950	944	924	897	873	826	809	789	767	811	766
Empire Medi-Blue Dual Advantage (HMO D-SNP)	H8432-007	4784	4704	4634	4539	4413	4294	4219	4139	4052	3996	3936	3896	3741	3674	3594	3533	3455	3397	3335	3253	3193	3128	3087	3059	2986	2919
Empire Medi-Blue Dual Advantage Select (HMO D-SNP)	H8432-028	6268	6132	6167	6116	6076	6032	5915	5862	5797	5736	5677	5513	5318	5111	4951	4809	4693	4634	4506	4407	4359	4322	4284	4094	4030	

Save datasets as CSV files:

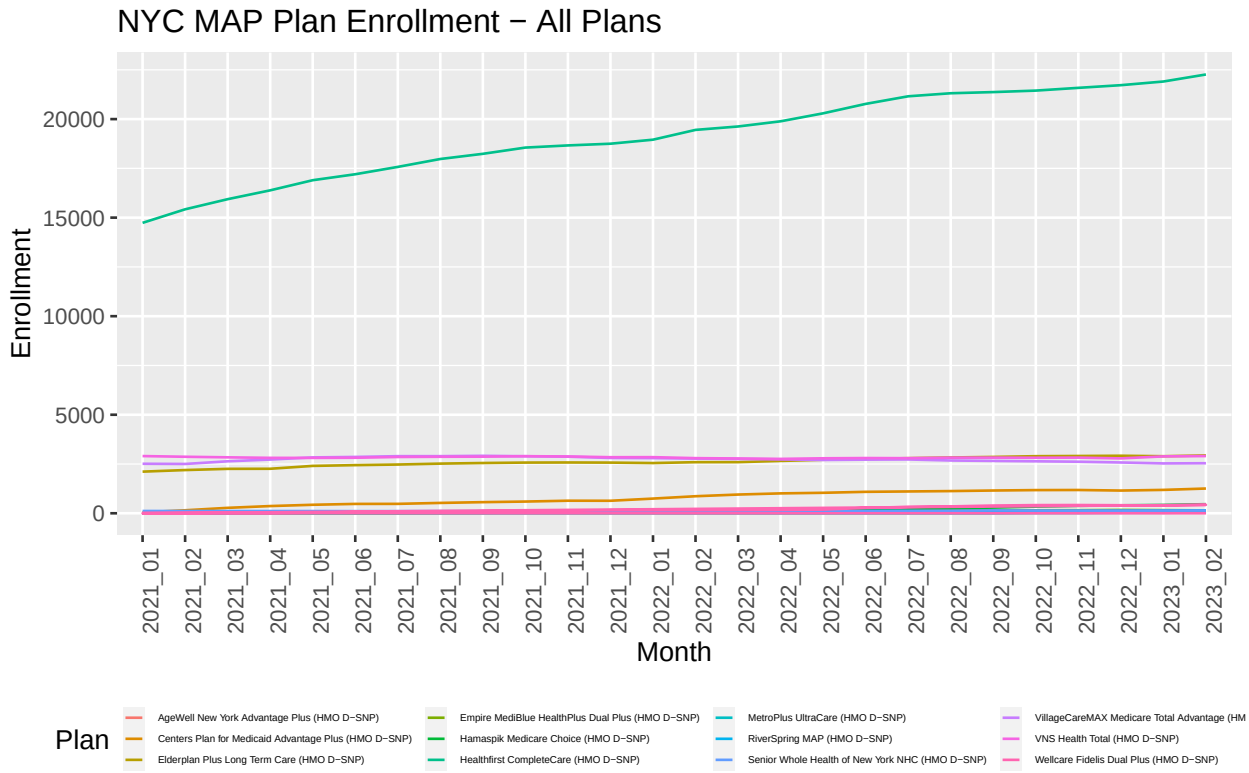
```
# map datasets
write.csv(nyc_map, "data/output_data/map/nyc_map.csv", row.names = TRUE)
write.csv(nyc_metro_map, "data/output_data/map/nyc_metro_map.csv", row.names = TRUE)
write.csv(nys_map, "data/output_data/map/nys_map.csv", row.names = TRUE)

# madsnp datasets
write.csv(nyc_madsnp, "data/output_data/madsnp/nyc_madsnp.csv", row.names = TRUE)
write.csv(nyc_metro_madsnp, "data/output_data/madsnp/nyc_metro_madsnp.csv", row.names = TRUE)
write.csv(nys_madsnp, "data/output_data/madsnp/nys_madsnp.csv", row.names = TRUE)
```

Plots

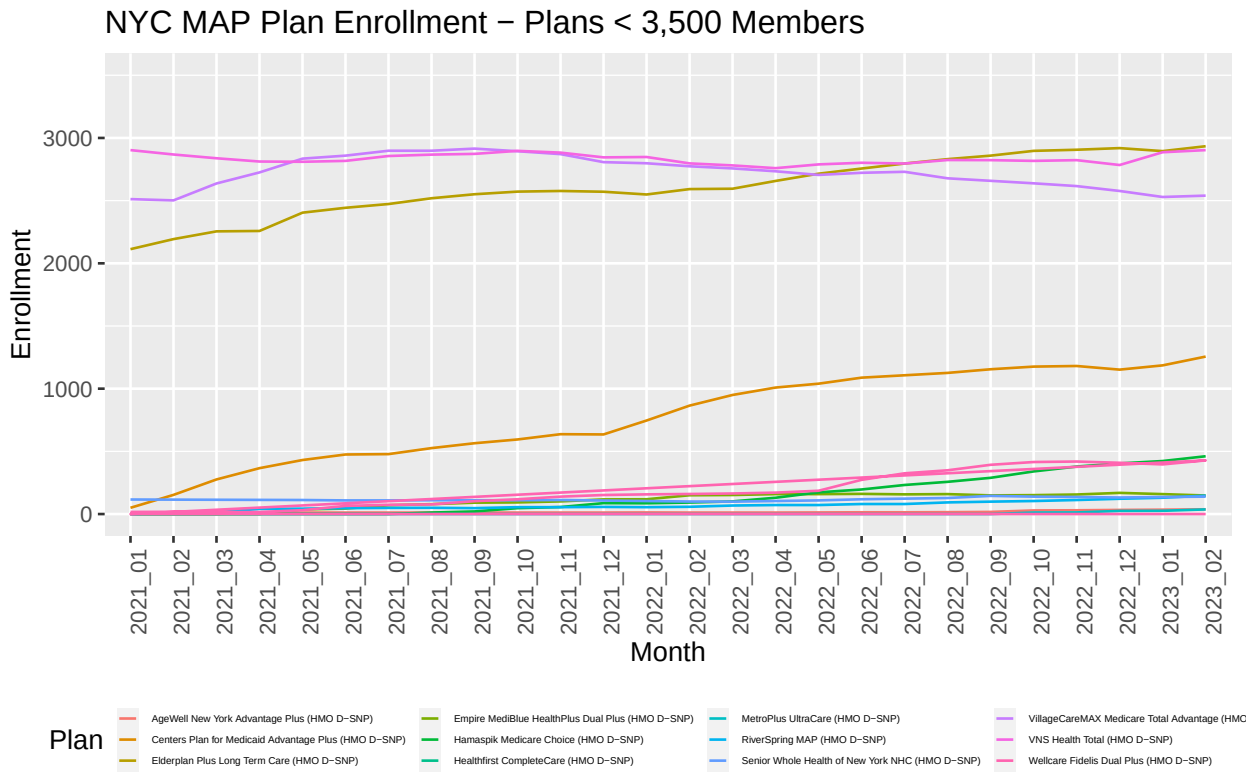
NYC Enrollment Data

MAP Plans

All Plans:

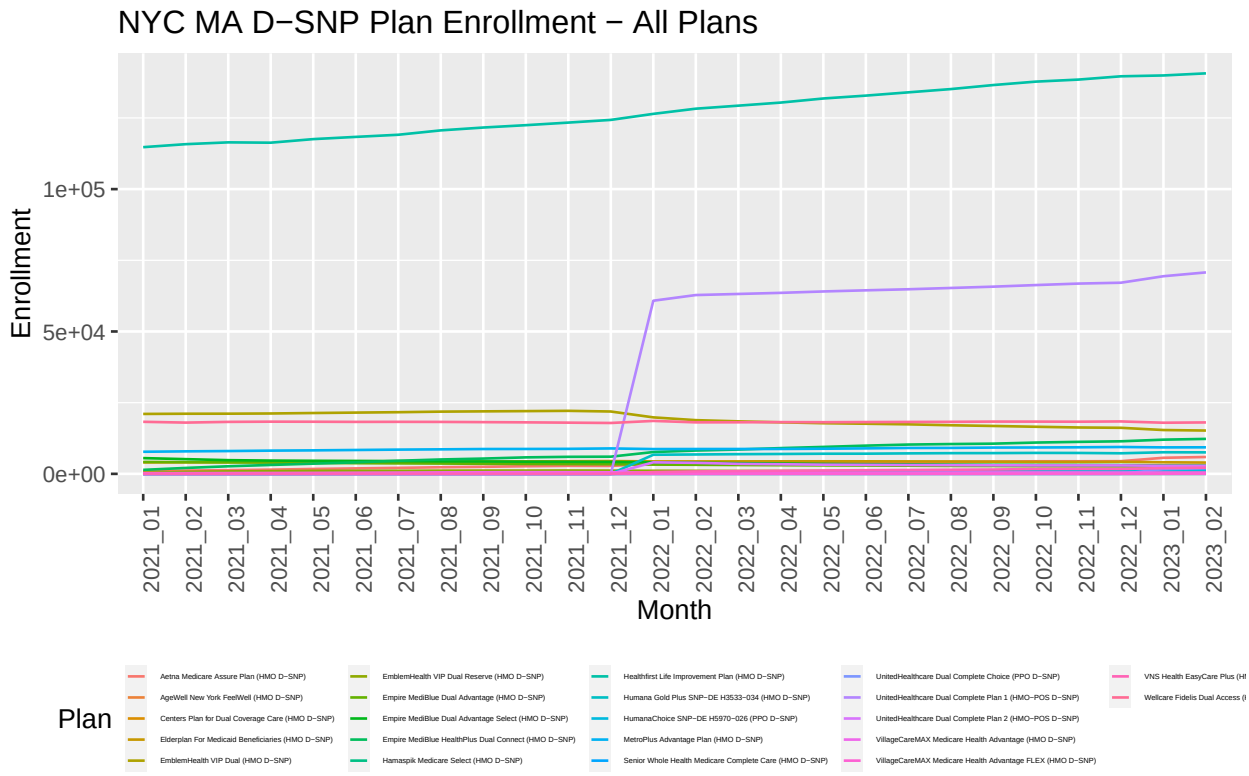


Plans < 3,500 Members (HealthFirst Removed)

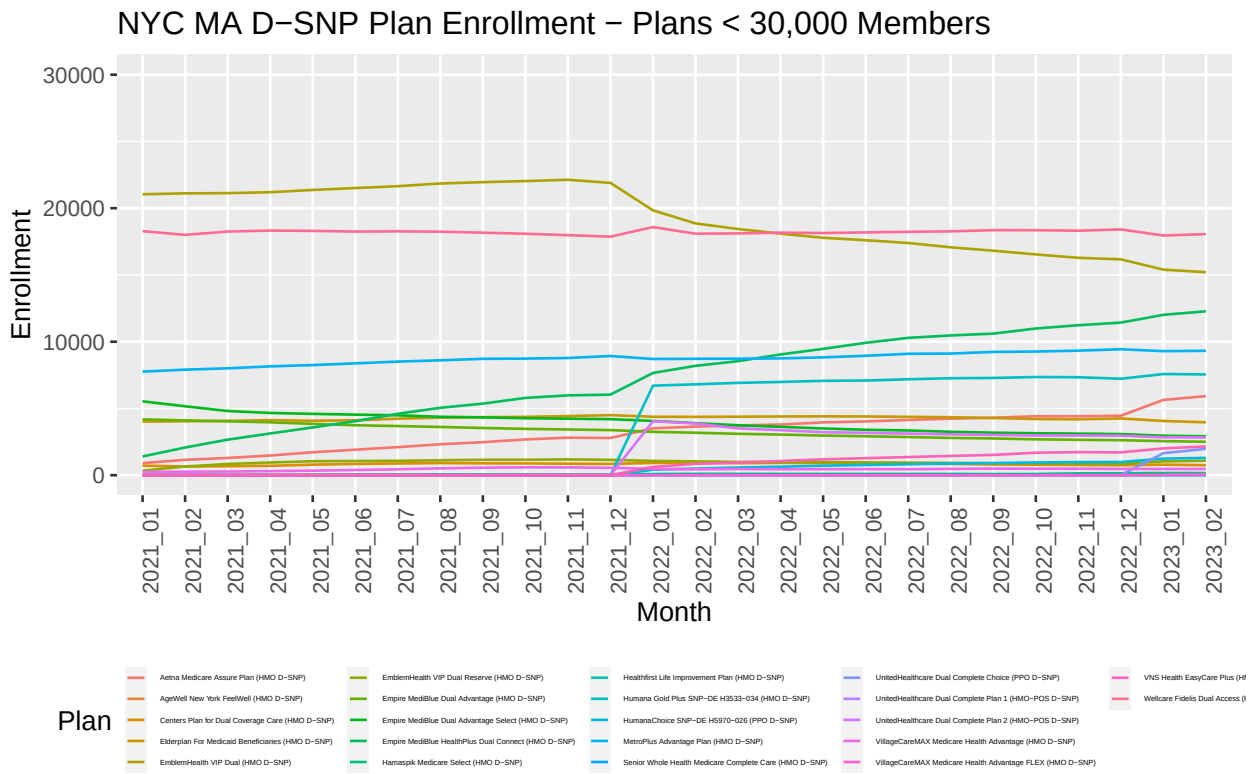


MA D-SNP Plans

All Plans:



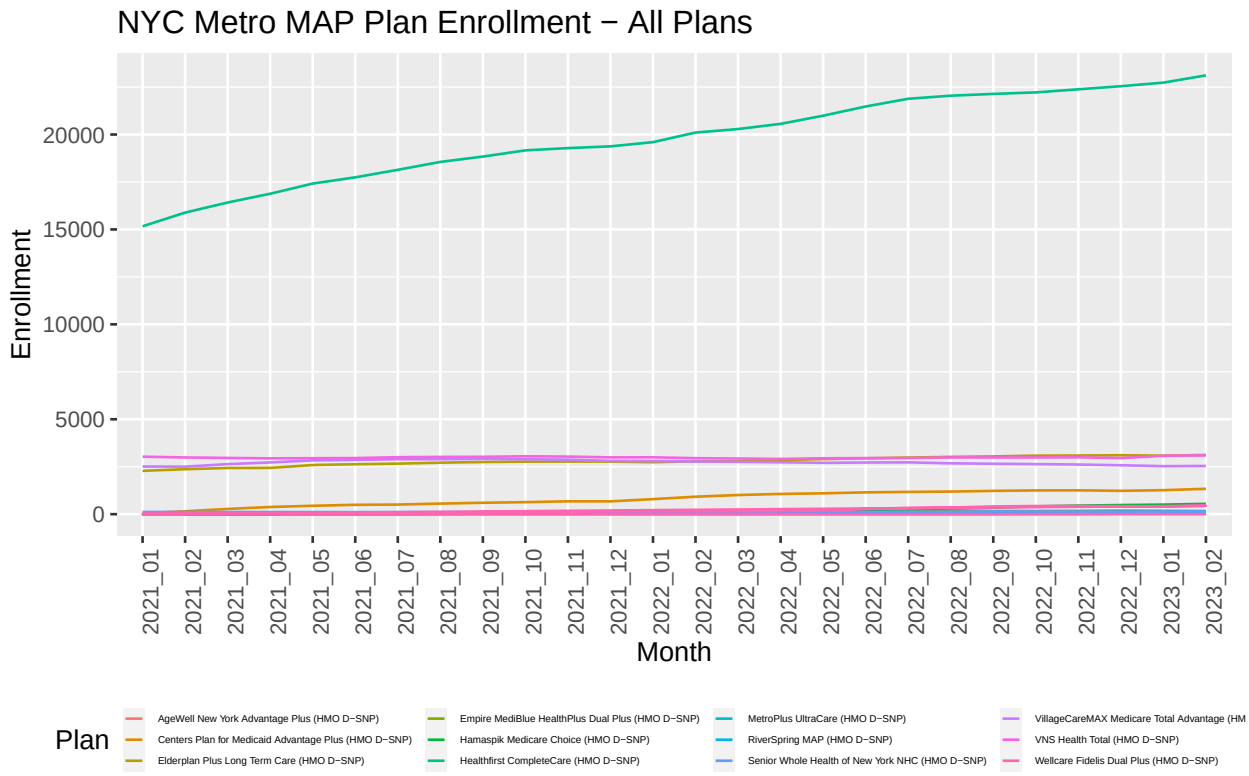
Plans < 30,000 Members (HealthFirst and United Plan Removed)



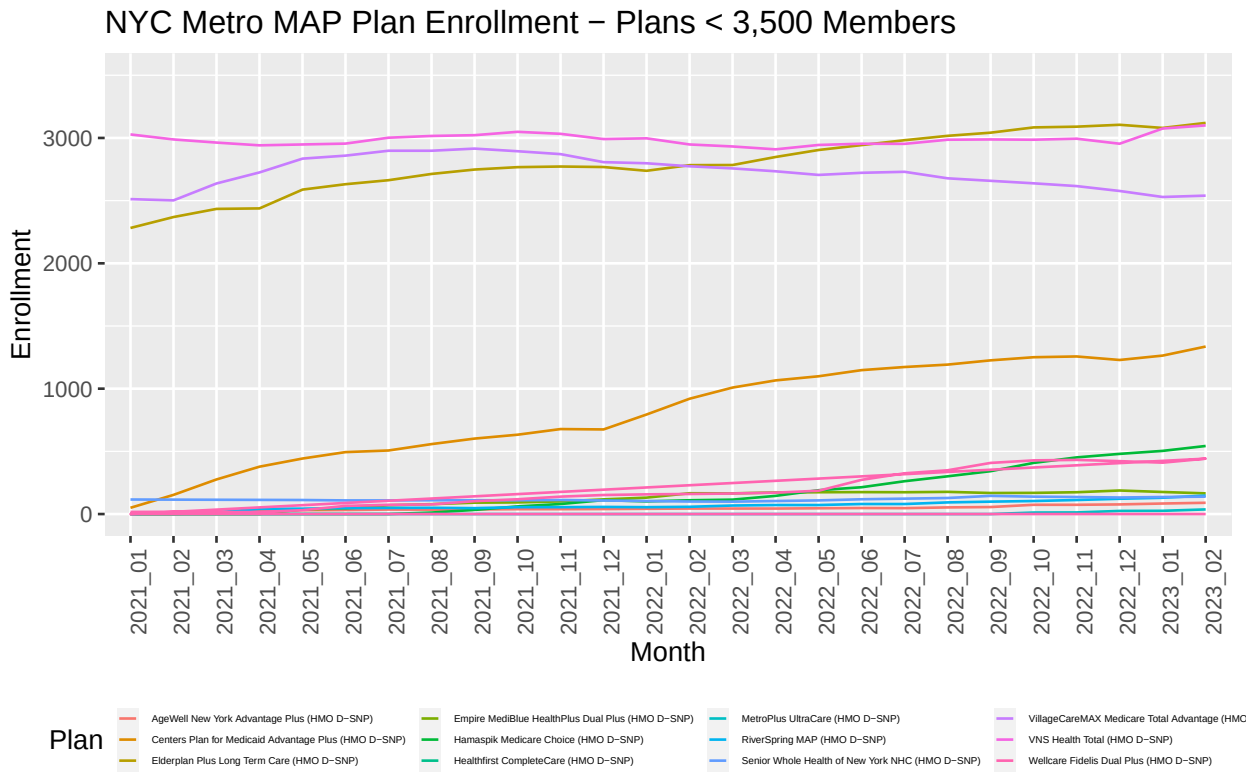
NYC Metro Enrollment Data

MAP Plans

All Plans:

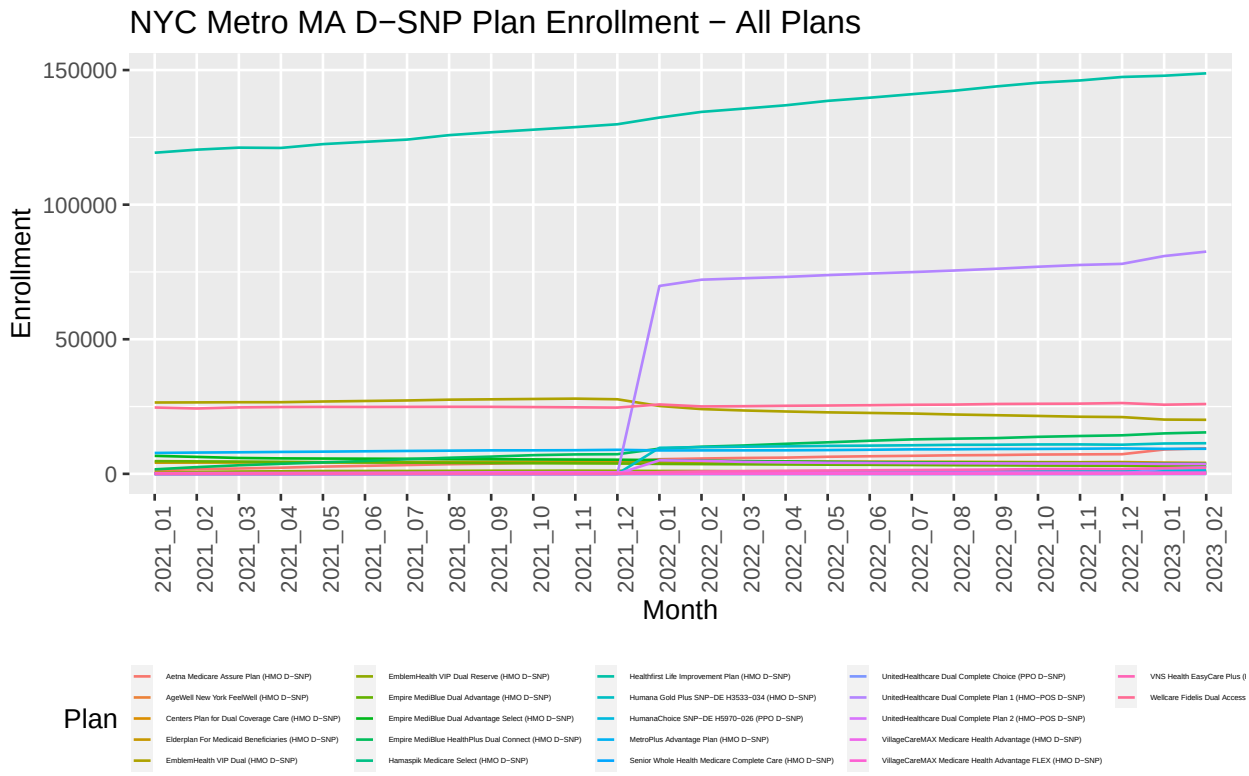


Plans < 3,500 Members (HealthFirst Removed)

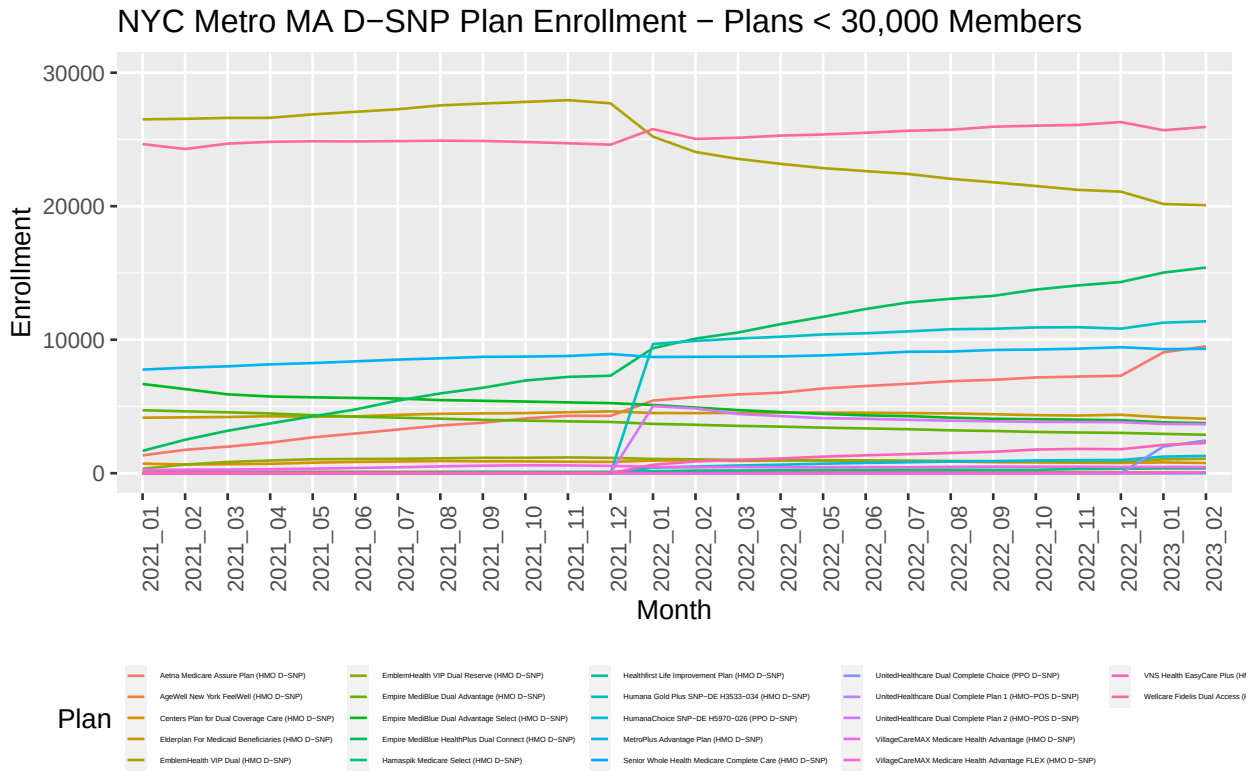


MA D-SNP Plans

All Plans:



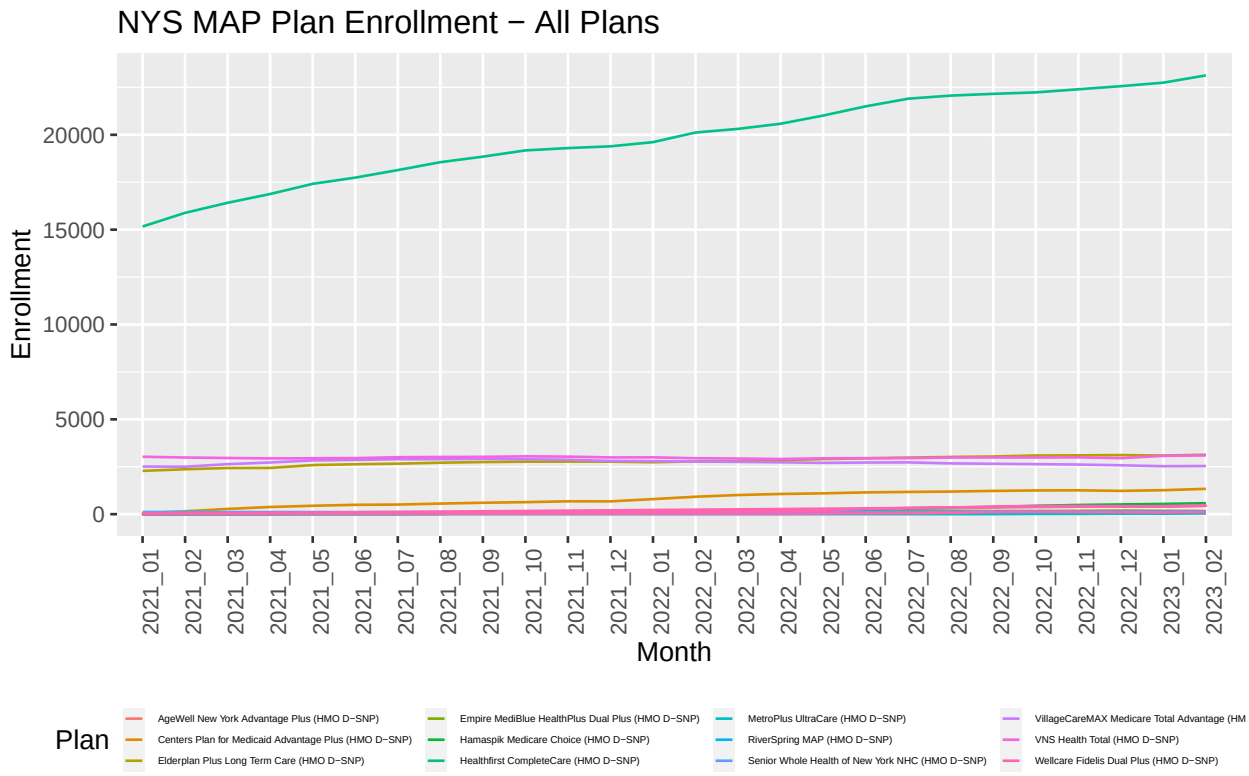
Plans < 30,000 Members (HealthFirst and United Plan Removed)



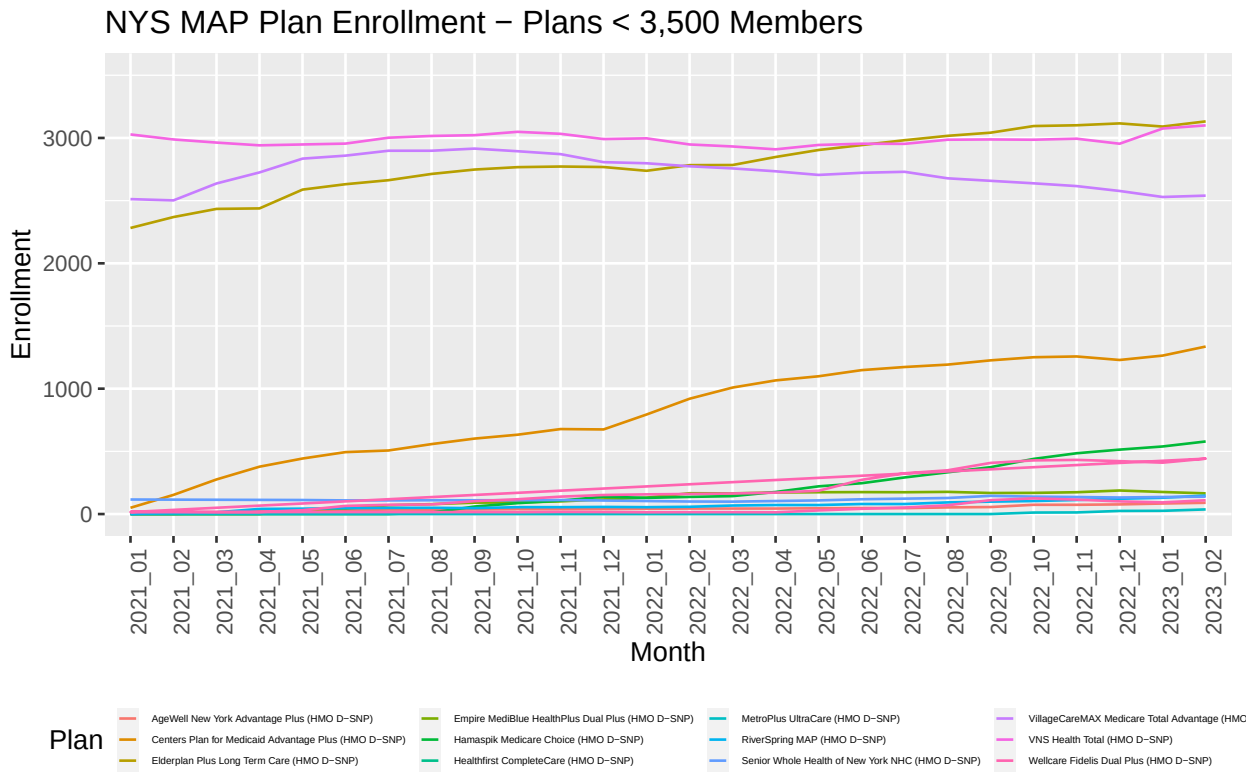
NYS Enrollment Data

MAP Plans

All Plans:

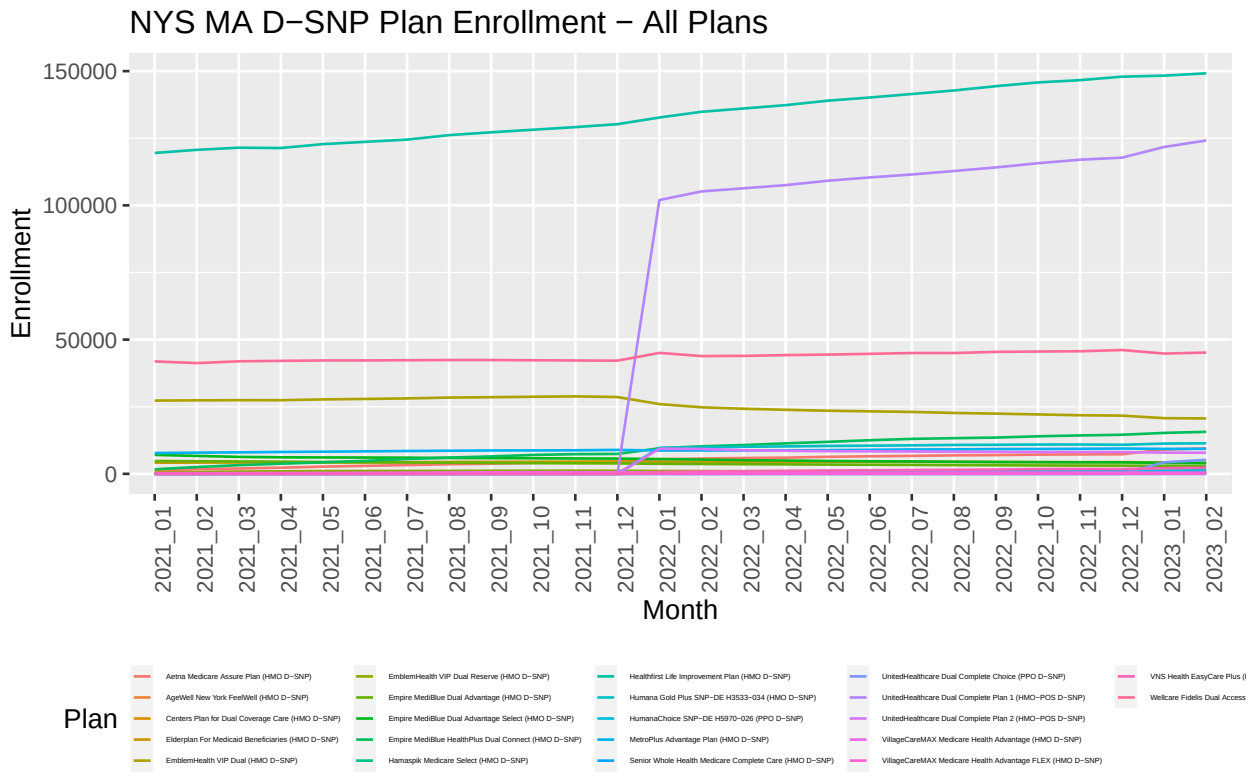


Plans $<$ 3,500 Members (HealthFirst Removed)

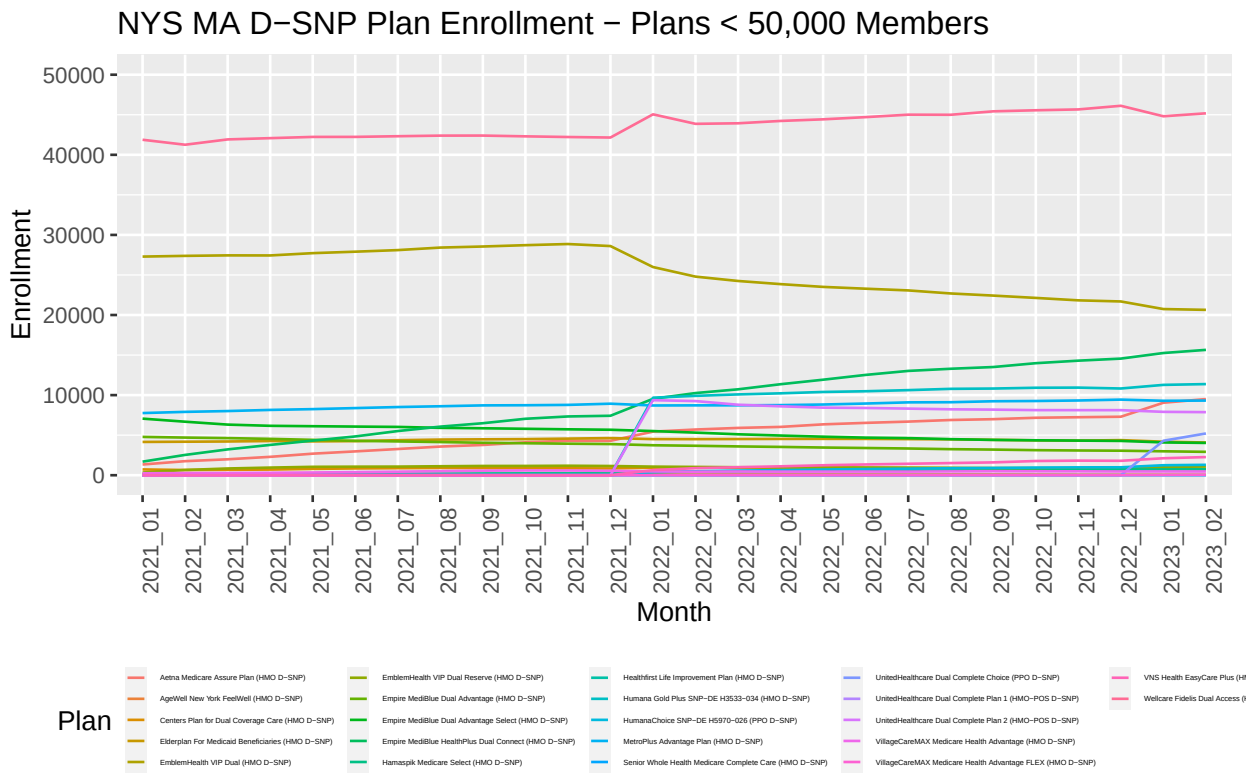


MA D-SNP Plans

All Plans:



Plans < 50,000 Members (HealthFirst and United Plan Removed)



Notes

Instructions for adding new months of data: 1. Download the zipped file folder for the new month from https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/MCRAdvPartDEnrolData/Monthly-Enrollment-by-Contract-Plan-State-County 2. Unzip the folder and save it in the data > raw_data folder within the overarching folder holding this R project (cms_enrollment_data) 3. Add a new line of code to the top of the `apply enrollment data function` code block to apply the function to the new month of data using the following template (fill in the bold characters): enrollment_data(yyyy_mm = "**yyyy_mm**")
4. Add code for a new columns name to the end (before ")") of the `col_name_vector_forward` object string within the `adjust column names for datasets` code block using the following template (fill in the bold characters): , "**yyyy_mm**" 5. Update the year/month of the most recent month of data in each of the plot dataset code blocks (`nyc map plot dataset`, `nyc madsnp plot dataset`, `nyc metro map plot dataset`, `nyc metro madsnp plot dataset`, `nys map plot dataset`, `nys madsnp plot dataset`) to include the new data in the enrollment trend plots using the following template (fill in the bold characters): "**yyyy_mm**"

Note: This Rmd file can be searched for "note:" to locate the lines within the code that may require adjustment ot account for new monthly data.