



Table 1. Community clinician panel characteristics, as defined from Medicare and other administrative data sources, for LINKAGE: data dictionary

| Variable Name | Variable Definition | Source data (year) |
|----------------------------------|---|---|
| Clinician characteristics | | |
| TAXONOMY_2024 | Primary taxonomy code for the clinician | NPPES (April 2024) |
| CLINICIAN_TYPE | 1 = primary care MD/DO 2 = primary care nurse practitioner (NP) 3 = non-surgical physician assistant (PA) 4 = psychiatry MD 5 = psychiatric NP 6 = neurology MD | NPPES (April 2024) |
| RUCA | Primary rural-urban community area (RUCA) code of the clinician’s main practice address: 1 = Metropolitan area core: primary flow within an urbanized area (UA) 2 = Metropolitan area high community: primary flow 30% or more to a UA 3 = Metropolitan area low commuting: primary flow 10% to 30% to a UA 4 = Micropolitan area core: primary flow within an urban cluster of 10,000 to 49,999 (large UC) 5 = Micropolitan high commuting: primary flow 30% or more to a large UC 6 = Micropolitan low commuting: primary flow 10% to 30% to a large UC 7 = Small town core: primary flow within an urban cluster of 2,500 to 9,999 (small UC) 8 = Small town high community: primary flow 30% or more to a small UC 9 = Small town low commuting: primary flow 10% to 30% to a small UC 10 = Rural areas: primary flow to a tract outside a UA or UC 99 = Not coded: Census tract has zero population and no rural-urban identifier information | IQVIA data for main practice address (2024); NPPES for main practice address, if IQVIA data unavailable (April 2024); U.S. Department of Agriculture data for RUCA codes (2010) |
| RURAL | = 1 if the clinician’s main practice address is assigned to RUCA = {7 – 10} = 0 otherwise | IQVIA and NPPES for address USDA for RUCA codes |

Community Clinician Data Dictionary for LINKAGE

| Variable Name | Variable Definition | Source data (year) |
|-----------------------|--|--|
| PANEL_SZ_PTS_ALL | Number of Medicare FFS beneficiaries who had a visit with the clinician (dementia and non-dementia patients) | Medicare FFS carrier and outpatient ^a claims (2023) |
| PANEL_SZ_PTS_ADRD_ANY | Number of Medicare FFS beneficiaries with dementia (diagnosed by <i>any</i> clinician) who had a visit with the clinician | Medicare FFS carrier and outpatient ^a claims (2023) |
| PANEL_SZ_PTS_ADRD | Number of Medicare FFS beneficiaries with dementia who had a visit with the clinician where a dementia dx <i>was recorded by the clinician</i> | Medicare FFS carrier and outpatient ^a claims (2023) |
| VISITS_ADRD_ANY | Number of total visits by FFS beneficiaries with dementia to this clinician | Medicare FFS carrier and outpatient ^a claims (2023) |
| VISITS_ADRD | Number of total visits by FFS beneficiaries with dementia to this clinician where the diagnosis <i>was recorded by the clinician</i> | Medicare FFS carrier and outpatient ^a claims (2023) |
| VISITS_ADRD_OUTPT_ANY | Number of visits in an outpatient setting with Medicare FFS beneficiaries with dementia (See table 2 for definition of outpatient, residential, inpatient, and home settings) | Medicare FFS carrier and outpatient ^a claims (2023) |
| VISITS_ADRD_OUTPT | Number of visits in an outpatient setting with Medicare FFS beneficiaries where a dementia dx <i>was recorded by the clinician</i> (See table 2 for definition of outpatient, residential, inpatient, and home settings) | Medicare FFS carrier and outpatient ^a claims (2023) |
| VISITS_ADRD_INPT_ANY | Number of visits in an inpatient setting with Medicare FFS beneficiaries with dementia (See table 2 for definition of outpatient, residential, inpatient, and home settings) | Medicare FFS carrier and outpatient ^a claims (2023) |
| VISITS_ADRD_INPT | Number of visits in an inpatient setting with Medicare FFS beneficiaries where a dementia dx <i>was recorded by the clinician</i> (See table 2 for definition of outpatient, residential, inpatient, and home settings) | Medicare FFS carrier and outpatient ^a claims (2023) |
| VISITS_ADRD_RES_ANY | Number of visits in a residential setting with Medicare FFS beneficiaries with dementia (See table 2 for definition of outpatient, residential, inpatient, and home settings) | Medicare FFS carrier and outpatient ^a claims (2023) |
| VISITS_ADRD_RES | Number of visits in a residential setting with Medicare FFS beneficiaries where a dementia dx <i>was recorded by the clinician</i> (See table 2 for definition of outpatient, residential, inpatient, and home settings) | Medicare FFS carrier and outpatient ^a claims (2023) |
| VISITS_ADRD_HOME_ANY | Number of visits in a beneficiary's home with Medicare FFS beneficiaries with dementia (See table 2 for definition of outpatient, residential, inpatient, and home settings) | Medicare FFS carrier and outpatient ^a claims (2023) |
| VISITS_ADRD_HOME | Number of visits in a beneficiary's home with Medicare FFS beneficiaries where a dementia dx <i>was recorded by the clinician</i> (See table 2 for definition of outpatient, residential, inpatient, and home settings) | Medicare FFS carrier and outpatient ^a claims (2023) |
| VISITS_ADRD_TELE_ANY | Number of telehealth visits with Medicare FFS beneficiaries with dementia (See table 3 for definition of telehealth visits) | Medicare FFS carrier and outpatient ^a claims (2023) |

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| Variable Name | Variable Definition | Source data (year) |
|---|--|--|
| VISITS_ADRD_TELE | Number of telehealth visits with Medicare FFS beneficiaries where a dementia dx <i>was recorded by the clinician</i> (See table 3 for definition of telehealth visits) | Medicare FFS carrier and outpatient ^a claims (2023) |
| Panel demographics, Medicare enrollment, and geographic characteristics | | |
| Demographics and enrollment characteristics | | |
| <i>Among beneficiaries with dementia in 2023 FFS claims with at least one visit with the clinician</i> | | |
| PANEL_D_AGE_MEAN | Mean age of all Medicare FFS beneficiaries with dementia with a visit with the clinician | MBSF (2023) |
| PANEL_D_AGE_CAT | Distribution of age among Medicare FFS beneficiaries with dementia in the clinician's panel: 1 = less than 65 years 2 = 65 to 69 3 = 70 to 74 4 = 75 to 79 5 = 80 to 84 6 = 85 and older | MBSF (2023) |
| PANEL_D_NUM_FEMALE | Number of Medicare FFS beneficiaries with dementia with a visit with the clinician who are female | MBSF (2023) |
| PANEL_D_NUM_WHITE | Number of Medicare FFS beneficiaries with dementia with a visit with the clinician who are non-Hispanic White | MBSF (2023) |
| PANEL_D_NUM_BLACK | Number of Medicare FFS beneficiaries with dementia with a visit with the clinician who are non-Hispanic Black | MBSF (2023) |
| PANEL_D_NUM_HISPANIC | Number of Medicare FFS beneficiaries with dementia with a visit with the clinician who are Hispanic | MBSF (2023) |
| PANEL_D_NUM_ASIAN_PI | Number of Medicare FFS beneficiaries with dementia with a visit with the clinician who are Asian or Pacific Islander | MBSF (2023) |
| PANEL_D_NUM_AIAN | Number of Medicare FFS beneficiaries with dementia with a visit with the clinician who are American Indian or Alaska Native | MBSF (2023) |
| PANEL_D_NUM_OTH_RACE | Number of Medicare FFS beneficiaries with dementia with a visit with the clinician who are of all other races and ethnicities or unknown race and ethnicity | MBSF (2023) |
| PANEL_D_NUM_DUAL | Number of Medicare FFS beneficiaries with dementia with a visit with the clinician who were dually eligible for Medicare or Medicaid (full or partial) in at least one month in the year | MBSF (2023) |
| PANEL_D_NUM_MA_ENRLD | Number of Medicare beneficiaries with dementia with a visit with the clinician who were enrolled in Medicare Advantage for at least one month in the year | MBSF (2023) |

Community Clinician Data Dictionary for LINKAGE

| Variable Name | Variable Definition | Source data (year) |
|---|---|--|
| PANEL_D_NUM_LIS | Number of Medicare FFS beneficiaries with dementia with a visit with the clinician who were eligible for a Part D low-income drug subsidy in at least one month in the year | MBSF (2023) |
| PANEL_D_NUM_DUALORLIS | Number of Medicare FFS beneficiaries with dementia with a visit with the clinician who were dually eligible for Medicare and Medicaid in at least one month of the year or who were eligible for a part D low-income drug subsidy in at least one month of the year | MBSF (2023) |
| PANEL_D_NUM_PARTD | Number of beneficiaries with dementia with a visit with the clinician who were enrolled in Part D in any month of the year | MBSF (2023) |
| Geographic characteristics | | |
| PANEL_D_NUM_RURAL | Number of beneficiaries with dementia with a visit with the clinician who have a rural address – that is, it maps to RUCA code = {7-10} (see above for RUCA definition) | Carrier and outpatient claims for beneficiary 9-digit zip code (2023); USDA for RUCA codes |
| PANEL_D_DSTNC_50P | Median distance from centroid of beneficiaries' addresses to centroid of clinician's practice zip code among all beneficiaries with dementia with a visit with the clinician | Carrier and outpatient claims for beneficiary address and clinician practice site zip codes (2023) |
| PANEL_D_DSTNC_25P | 25th percentile of distance from centroid of beneficiaries' addresses to centroid of clinician's practice zip code among all beneficiaries with dementia with a visit with the clinician | Carrier and outpatient claims for beneficiary address and clinician practice site zip codes (2023) |
| PANEL_D_DSTNC_75P | 75th percentile of distance from centroid of beneficiaries' addresses to centroid of clinician's practice zip code among all beneficiaries with dementia with a visit with the clinician | Carrier and outpatient claims for beneficiary address and clinician practice site zip codes (2023) |
| PANEL_D_NUM_TOP2_DCL_ADI_NTL | Number of beneficiaries with dementia with a visit with the clinician who have a zip code in the top two deciles of the national distribution of the Area Deprivation Index | Carrier and outpatient claims for beneficiary 9-digit zip code (2023); Publicly available Area Deprivation Index |
| PANEL_D_NUM_TOP2_DCL_ADI_ST | Number of beneficiaries with dementia with a visit with the clinician who have a zip code in the top two deciles of their state's distribution of the Area Deprivation Index | Carrier and outpatient claims for beneficiary 9-digit zip code (2023); Publicly available Area Deprivation Index |
| Among all beneficiaries found in 2023 with at least one visit with the clinician (beneficiaries with and without dementia) | | |
| PANEL_ALL_AGE_MEAN | Mean age of all Medicare FFS beneficiaries with a visit with the clinician | MBSF (2023) |
| PANEL_ALL_AGE_CAT | Distribution of age among Medicare FFS beneficiaries in the clinician's panel: 1 = less than 65 years 2 = 65 to 69 | MBSF (2023) |

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| Variable Name | Variable Definition | Source data (year) |
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| | 3 = 70 to 74 4 = 75 to 79 5 = 80 to 84 6 = 85 and older | |
| PANEL_ALL_NUM_FEMALE | Number of Medicare FFS beneficiaries with a visit with the clinician who are female | MBSF (2023) |
| PANEL_ALL_NUM_WHITE | Number of Medicare FFS beneficiaries with a visit with the clinician who are non-Hispanic White | MBSF (2023) |
| PANEL_ALL_NUM_BLACK | Number of Medicare FFS beneficiaries with a visit with the clinician who are non-Hispanic Black | MBSF (2023) |
| PANEL_ALL_NUM_HISPANIC | Number of Medicare FFS beneficiaries with a visit with the clinician who are Hispanic | MBSF (2023) |
| PANEL_ALL_NUM_ASIAN_PI | Number of Medicare FFS beneficiaries with a visit with the clinician who are Asian or Pacific Islander | MBSF (2023) |
| PANEL_ALL_NUM_AIAN | Number of Medicare FFS beneficiaries with a visit with the clinician who are American Indian or Alaska Native | MBSF (2023) |
| PANEL_ALL_NUM_OTH_RACE | Number of Medicare FFS beneficiaries with a visit with the clinician who are of all other races and ethnicities or unknown race and ethnicity | MBSF (2023) |
| PANEL_ALL_NUM_DUAL | Number of Medicare FFS beneficiaries with a visit with the clinician who were dually eligible for Medicare or Medicaid (full or partial) in at least one month in the year | MBSF (2023) |
| PANEL_ALL_NUM_MA_ENRLD | Number of Medicare beneficiaries with a visit with the clinician who were enrolled in Medicare Advantage for at least one month in the year | MBSF (2023) |
| PANEL_ALL_NUM_LIS | Number of Medicare FFS beneficiaries with a visit with the clinician who were eligible for a Part D low-income drug subsidy in at least one month in the year | MBSF (2023) |
| PANEL_ALL_NUM_DUALORLIS | Number of Medicare FFS beneficiaries with a visit with the clinician who were dually eligible for Medicare and Medicaid in at least one month of the year or who were eligible for a part D low-income drug subsidy in at least one month of the year | MBSF (2023) |
| PANEL_ALL_NUM_PARTD | Number of beneficiaries with a visit with the clinician who were enrolled in Part D in any month of the year | MBSF (2023) |
| Clinical characteristics of beneficiaries with dementia with at least one visit with the clinician (beneficiaries with dementia found in 2023 FFS claims data) | | |
| PANEL_D_HCC_MEAN | Mean HCC score among all beneficiaries with dementia with a visit with the clinician | Medicare FFS inpatient, SNF, hospice, home health, outpatient, and carrier claims (2022); Publicly available HCC software |
| PANEL_D_CFI_MEAN | Mean frailty score using claims-based frailty index (CFI) ^b among beneficiaries with dementia with a visit with the clinician | Medicare FFS inpatient, SNF, hospice, home health, outpatient, |

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| Variable Name | Variable Definition | Source data (year) |
|------------------------|---|--|
| | | carrier, and DME claims (2022); Publicly available claims-based frailty index (CFI) |
| PANEL_D_NUM_CFI_ROBUST | Number of beneficiaries with dementia with a visit with the clinician whose CFI score ^b indicates they are robust (CFI score < 0.15) | Medicare FFS inpatient, SNF, hospice, home health, outpatient, carrier, and DME claims (2022); Publicly available claims-based frailty index (CFI) |
| PANEL_D_NUM_CFI_PREFRL | Number of beneficiaries with dementia with a visit with the clinician whose CFI score ^b indicates they are prefrail (CFI score ranges from 0.15 to 0.24) | Medicare FFS inpatient, SNF, hospice, home health, outpatient, carrier, and DME claims (2022); Publicly available claims-based frailty index (CFI) |
| PANEL_D_NUM_CFI_MILD | Number of beneficiaries with dementia with a visit with the clinician whose CFI score ^b indicates they are mildly frail (CFI score ranges from 0.25 to 0.34) | Medicare FFS inpatient, SNF, hospice, home health, outpatient, carrier, and DME claims (2022); Publicly available claims-based frailty index (CFI) |
| PANEL_D_NUM_CFI_MODSVR | Number of beneficiaries with dementia with a visit with the clinician whose CFI score ^b indicates they are moderately to severely frail (CFI score >= 0.35) | Medicare FFS inpatient, SNF, hospice, home health, outpatient, carrier, and DME claims (2022); Publicly available claims-based frailty index (CFI) |
| PANEL_D_NUM_AMI | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for acute myocardial infarction | MBSF (2022 end of year flag) |
| PANEL_D_NUM_ALZ | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for Alzheimer's disease | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_ANEMIA | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for anemia | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_ASTHMA | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for asthma | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_AFIB | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for atrial fibrillation and flutter | MBSF (2022 end-of-year-flag) |

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| Variable Name | Variable Definition | Source data (year) |
|------------------------|--|------------------------------|
| PANEL_D_NUM_BHP | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for benign prostatic hyperplasia | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_BRCA | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for breast cancer | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_CRC | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for colorectal cancer | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_ENDC | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for endometrial cancer | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_LUNGC | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for lung cancer | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_PRSTC | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for prostate cancer | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_UROLC | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for urologic cancer | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_CATRCT | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for cataract | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_CKD | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for chronic kidney disease | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_COPD | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for chronic obstructive pulmonary disease | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_DEPBIPMOOD | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for depression, bipolar, or other depressive mood disorders | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_DIAB | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for diabetes | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_GLAUC | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for glaucoma | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_HF | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for heart failure and non-ischemic heart disease | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_HPFRAC | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for hip/pelvic fracture | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_HYPERL | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for hyperlipidemia | MBSF (2022 end-of-year-flag) |

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| Variable Name | Variable Definition | Source data (year) |
|--|---|------------------------------|
| PANEL_D_NUM_HYPERT | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for hypertension | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_HYPOTH | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for hypothyroidism | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_IHD | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for ischemic heart disease | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_NONALZDE | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for non-Alzheimer's dementia | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_OSTEOP | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for osteoporosis with or without pathological fracture | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_PRKNSNS | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for Parkinson's disease and secondary Parkinsonism | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_PNEU | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for pneumonia, all-cause | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_RAOA | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for rheumatoid arthritis/osteoarthritis | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_STRKTIA | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for stroke/transient ischemic attack | MBSF (2022 end-of-year-flag) |
| <i>Other chronic health, mental health, and potentially disabling conditions</i> | | |
| PANEL_D_NUM_ADHD | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for ADHD, conduct disorders, and hyperkinetic syndrome | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_ALC | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for alcohol use disorders | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_ANX | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for anxiety disorders | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_AUTISM | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for autism spectrum disorders | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_BIP | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for bipolar disorder | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_CP | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for cerebral palsy | MBSF (2022 end-of-year-flag) |

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| Variable Name | Variable Definition | Source data (year) |
|----------------------|--|------------------------------|
| PANEL_D_NUM_CYSTFIB | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for cystic fibrosis and other metabolic developmental disorders | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_DEP | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for depressive disorders | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_DUD | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for drug use disorders | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_EPILEP | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for epilepsy | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_FIBRO | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for fibromyalgia, chronic pain and fatigue | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_HIVAIDS | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for HIV/AIDS | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_INTDIS | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for intellectual disabilities and related conditions | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_LRNDIS | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for learning disabilities | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_LEUK | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for leukemias and lymphomas | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_LIVERDIS | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for liver disease, cirrhosis, and other liver conditions (except viral hepatitis) | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_MIGRN | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for migraine and other chronic headache | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_MOBIMPR | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for mobility impairments | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_MS | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for multiple sclerosis and transverse myelitis | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_MUSCDYST | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for muscular dystrophy | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_OBESITY | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for obesity | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_OUD_1 | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for opioid use disorder 1: Overarching opioid use disorders | MBSF (2022 end-of-year-flag) |

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| Variable Name | Variable Definition | Source data (year) |
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| PANEL_D_NUM_OUD_2 | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for opioid use disorder 2: diagnosis and procedure-code basis for OUD | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_OUD_3 | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for opioid use disorder 3: opioid-related hospitalizations/ED visits | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_OUD_4 | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for opioid use disorder 4: utilization of medication-assisted therapy (MAT) | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_OTHDD | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for other developmental delays | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_PVD | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for peripheral vascular disease | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_PERS | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for personality disorders | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_PTSD | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for post-traumatic stress disorder | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_PRSULCR | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for pressure ulcers and chronic ulcers | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_SCHIZ | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for schizophrenia | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_SCHIZPSYCH | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for schizophrenia and other psychotic disorders | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_BLNDVIS | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for sensory-blindness and visual impairment | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_DEAF | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for sensory – deafness and hearing impairment | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_SCD | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for sickle cell disease | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_SPBFDA | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for spina bifida and other congenital anomalies of the nervous system | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_SCI | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for spinal cord injury | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_TOBAC | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for tobacco use disorders | MBSF (2022 end-of-year-flag) |

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| Variable Name | Variable Definition | Source data (year) |
|--|--|---|
| PANEL_D_NUM_TBI | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for traumatic brain injury and nonpsychotic mental disorders due to brain damage | MBSF (2022 end-of-year-flag) |
| PANEL_D_NUM_VRLHEP | Number of beneficiaries with dementia with a visit with the clinician who met the CCW chronic condition criteria for viral hepatitis | MBSF (2022 end-of-year-flag) |
| Service use among beneficiaries with dementia with at least one visit with the clinician | | |
| Parts A and B-related service use (beneficiaries with dementia found in 2023 FFS claims data) | | |
| PANEL_D_NUM_ACP_VST | Number of beneficiaries with dementia on the clinician's panel who had an advance care planning visit with <i>this</i> clinician (CPT code = 99497, 99498) | Medicare FFS carrier and outpatient claims (2023) |
| PANEL_D_NUM_ACP_VST_ANY | Number of beneficiaries with dementia on the clinician's panel with an advance care planning visit with <i>any</i> clinician (CPT code = 99497, 99498) | Medicare FFS carrier and outpatient claims (2023) |
| PANEL_D_NUM_CCM_VST | Number of beneficiaries with dementia on the clinician's panel with a visit with <i>this</i> clinician for chronic care management, transitional care management or other care managed services (See table 4 for definition of care management visits) | Medicare FFS carrier and outpatient claims (2023) |
| PANEL_D_NUM_CCM_VST_ANY | Number of beneficiaries with dementia on the clinician's panel with a visit with <i>any</i> clinician for chronic care management, transitional care management or other care managed services from any clinician (See table 4 for definition of care management visits) | Medicare FFS carrier and outpatient claims (2023) |
| PANEL_D_NUM_AWV | Number of beneficiaries with dementia on the clinician's panel with a visit with <i>this</i> clinician for an annual wellness visit (CPT code = G0438, G0439, G0402, G0468) | Medicare FFS carrier and outpatient claims (2023) |
| PANEL_D_NUM_AWV_ANY | Number of beneficiaries with dementia on the clinician's panel with a visit with <i>any</i> clinician for an annual wellness visit (CPT code = G0438, G0439, G0402, G0468) | Medicare FFS carrier and outpatient claims (2023) |
| PANEL_D_NUM_ACUTE_IP_DAYS | Among beneficiaries with dementia on the clinician's panel, the number who had at least 1 acute inpatient hospital day | Medicare inpatient claims (2023) |
| PANEL_D_TOT_ACUTE_IP_DAYS | Among beneficiaries with dementia on the clinician's panel, the total number of inpatient days among all beneficiaries with dementia | Medicare inpatient claims (2023) |
| PANEL_D_NUM_READMIT | Among beneficiaries with dementia on the clinician's panel, the number who had at least one 30-day unplanned readmission | Medicare inpatient claims (2023) |
| PANEL_D_TOT_READMIT | Among beneficiaries with dementia on the clinician's panel, the total number of 30-day unplanned readmissions among all beneficiaries with dementia | Medicare inpatient claims (2023) |
| PANEL_D_NUM_ED_VISIT | Among beneficiaries with dementia on the clinician's panel, the number who had at least one ED visit (either an outpatient ED visit or an ED visit that led to an inpatient admission) | Medicare inpatient claims (2023) |
| PANEL_D_TOT_ED_VISIT | Among beneficiaries with dementia on the clinician's panel, total number of ED visits (outpatient and those leading to an inpatient admission) among all beneficiaries with dementia | Medicare inpatient claims (2023) |

Community Clinician Data Dictionary for LINKAGE

| Variable Name | Variable Definition | Source data (year) |
|--|--|---|
| PANEL_D_NUM_HHA_VISIT | Among beneficiaries with dementia on the clinician's panel, the number who had at least one home health visit | Medicare home health claims (2023) |
| PANEL_D_TOT_HHA_VISIT | Among beneficiaries with dementia on the clinician's panel, the total number of home health visits | Medicare home health claims (2023) |
| PANEL_D_NUM_SNF | Among beneficiaries with dementia on the clinician's panel, the number who had at least one day in a skilled nursing facility (SNF) | Medicare SNF claims (2023) |
| PANEL_D_TOT_SNF_DAYS | Among beneficiaries with dementia on the clinician's panel, the total number of days in a SNF | Medicare SNF claims (2023) |
| PANEL_D_NUM_HSPC | Among beneficiaries with dementia on the clinician's panel, the number who had at least one day in hospice | Medicare hospice claims (2023) |
| PANEL_D_TOT_HSPC_DAYS | Among beneficiaries with dementia on the clinician's panel, the total number of days in hospice | Medicare hospice claims (2023) |
| PANEL_D_NUM_IMG | Among beneficiaries with dementia on the clinician's panel, the total number who had at least one imaging service | Medicare carrier and outpatient claims (2023) |
| PANEL_D_TOT_IMG | Among beneficiaries with dementia on the clinician's panel, the total number of imaging services | Medicare carrier and outpatient claims (2023) |
| Part D-related service use (beneficiaries with dementia found in 2022 FFS claims data and who were enrolled in Part D for at least one month in 2022) | | |
| PANEL_SZ_PTS_ADRD_PARTD_2022 | Number of Medicare FFS beneficiaries with dementia in 2022 (diagnosed by any clinician) who had a visit with the clinician and were enrolled in Part D in at least one month in 2022 | Medicare FFS carrier and outpatient ^a claims and enrollment data, and Part D claims (2022) |
| PANEL_D_TOT_PDE_RX_ANY | Among beneficiaries with dementia on the clinician's panel, total number of Part D events/fills/claims prescribed by <i>any</i> clinician | Cost and Use (2022) |
| PANEL_D_TOT_PDE_RX | Among beneficiaries with dementia on the clinician's panel, total number of Part D events/fills/claims prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_TOT_PDE_PMT_OOP | Among beneficiaries with dementia on the clinician's panel, total Part D beneficiary co-payments (prescribed by <i>any</i> provider) | Cost and Use (2022) |
| PANEL_D_TOT_PDE_PMT_MCAR E | Among beneficiaries with dementia on the clinician's panel, total Part D Medicare payments (prescribed by <i>any</i> provider) | Cost and Use (2022) |
| PANEL_D_NUM_OPIOID_ANY | Among beneficiaries with dementia on the clinician's panel, the number who filled a prescription for an opioid prescribed by <i>any</i> clinician | Part D claims (2022) |
| PANEL_D_NUM_OPIOID | Among beneficiaries with dementia on the clinician's panel, the number who filled a prescription for an opioid prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_TOT_OPIOIDS | Among beneficiaries with dementia on the clinician's panel, total number of claims for opioids prescribed by <i>this</i> clinician | Part D claims (2022) |

Community Clinician Data Dictionary for LINKAGE

| Variable Name | Variable Definition | Source data (year) |
|----------------------------|---|----------------------|
| PANEL_D_TOTDAYS_OPIOIDS | Among beneficiaries with dementia on the clinician's panel, total number of days' supply for opioids prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_NUM_ANTIBIOTIC_ANY | Among beneficiaries with dementia on the clinician's panel, the number who filled a prescription for an antibiotic prescribed by <i>any</i> clinician | Part D claims (2022) |
| PANEL_D_NUM_ANTIBIO | Among beneficiaries with dementia on the clinician's panel, the number who filled a prescription for an antibiotic prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_TOT_ANTIBIO | Among beneficiaries with dementia on the clinician's panel, total number of claims for antibiotics that were prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_TOTDAYS_ANTIBIO | Among beneficiaries with dementia on the clinician's panel, total number of days' supply for antibiotics prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_NUM_ANTIPSY_ANY | Among beneficiaries with dementia on the clinician's panel, the number who filled a prescription for an antipsychotic prescribed by <i>any</i> clinician | Part D claims (2022) |
| PANEL_D_NUM_ANTIPSY | Among beneficiaries with dementia on the clinician's panel, the number who filled a prescription for an antipsychotic prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_TOT_ANTIPSY | Among beneficiaries with dementia on the clinician's panel, total number of claims for antipsychotics that were prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_TOTDAYS_ANTIPSY | Among beneficiaries with dementia on the clinician's panel, total number of days' supply for antipsychotics prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_NUM_ANTIDEP_ANY | Among beneficiaries with dementia on the clinician's panel, the number who filled a prescription for an antidepressant prescribed by <i>any</i> clinician | Part D claims (2022) |
| PANEL_D_NUM_ANTIDEP | Among beneficiaries with dementia on the clinician's panel, the number who filled a prescription for an antidepressant prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_TOT_ANTIDEP | Among beneficiaries with dementia on the clinician's panel, total number of claims for antidepressants that were prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_TOTDAYS_ANTIDEP | Among beneficiaries with dementia on the clinician's panel, total number of days' supply for antidepressants prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_NUM_BENZO_ANY | Among beneficiaries with dementia on the clinician's panel, the number who filled a prescription for a benzodiazepine / Z-drug prescribed by <i>any</i> clinician | Part D claims (2022) |

Community Clinician Data Dictionary for LINKAGE

| Variable Name | Variable Definition | Source data (year) |
|--------------------------|--|----------------------|
| PANEL_D_NUM_BENZO | Among beneficiaries with dementia on the clinician's panel, the number who filled a prescription for a benzodiazepine / Z-drug prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_TOT_BENZO | Among beneficiaries with dementia on the clinician's panel, total number of claims for benzodiazepines / Z-drugs that were prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_TOTDAYS_BENZO | Among beneficiaries with dementia on the clinician's panel, total number of days' supply for benzodiazepines / Z-drugs prescribed by <i>this</i> clinician | Part D claims (2022) |
| | | |
| PANEL_D_NUM_ANTISEI_ANY | Among beneficiaries with dementia on the clinician's panel, the number who filled a prescription for an antiseizure medication prescribed by <i>any</i> clinician | Part D claims (2022) |
| PANEL_D_NUM_ANTISEI | Among beneficiaries with dementia on the clinician's panel, the number who filled a prescription for an antiseizure medication prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_TOT_ANTISEI | Among beneficiaries with dementia on the clinician's panel, total number of claims for antiseizure medications that were prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_TOTDAYS_ANTISEI | Among beneficiaries with dementia on the clinician's panel, total number of days' supply for antiseizure medications prescribed by <i>this</i> clinician | Part D claims (2022) |
| | | |
| PANEL_D_NUM_CHOLMEM_ANY | Among beneficiaries with dementia on the clinician's panel, the number who filled a prescription for a cholinesterase inhibitor or memantine prescribed by <i>any</i> clinician | Part D claims (2022) |
| PANEL_D_NUM_CHOLMEM | Among beneficiaries with dementia on the clinician's panel, the number who filled a prescription for a cholinesterase inhibitor or memantine prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_TOT_CHOLMEM | Among beneficiaries with dementia on the clinician's panel, total number of claims for cholinesterase inhibitors or memantine that were prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_TOTDAYS_CHOLMEM | Among beneficiaries with dementia on the clinician's panel, total number of days' supply for cholinesterase inhibitor or memantine prescribed by <i>this</i> clinician | Part D claims (2022) |
| | | |
| PANEL_D_NUM_ANTICHOL_ANY | Among beneficiaries with dementia on the clinician's panel, the number who filled a prescription for a strongly anticholinergic medication prescribed by <i>any</i> clinician | Part D claims (2022) |
| PANEL_D_NUM_ANTICHOL | Among beneficiaries with dementia on the clinician's panel, the number who filled a prescription for a strongly anticholinergic medication prescribed by <i>this</i> clinician | Part D claims (2022) |
| PANEL_D_TOT_ANTICHOL | Among beneficiaries with dementia on the clinician's panel, total number of claims for a strongly anticholinergic medication prescribed by <i>this</i> clinician | Part D claims (2022) |

| Variable Name | Variable Definition | Source data (year) |
|--------------------------|--|----------------------|
| PANEL_D_TOTDAYS_ANTICHOL | Among beneficiaries with dementia on the clinician’s panel, total number of days’ supply for a strongly anticholinergic medication prescribed by <i>this</i> clinician | Part D claims (2022) |

^a Outpatient claims were limited to claims from federally qualified health centers (FQHCs), rural health centers (RHCs), and type II critical access hospitals (CAHs).

^b Additional information about the claims-based frailty index (CFI) is available at: ([Measuring Frailty in Medicare Data: Development and Validation of a Claims-Based Frailty Index - PubMed \(nih.gov\)](#) and [Validation of a Claims-Based Frailty Index Against Physical Performance and Adverse Health Outcomes in the Health and Retirement Study - PubMed \(nih.gov\)](#)).

Table 2. Place of service codes (from carrier claims) and revenue center codes (from outpatient claims from FQHCs, RHCs, and Type II CAHs) used to classify service location

| Service location | Place of service codes (carrier claims) | Revenue center codes |
|------------------|---|---|
| Outpatient | <p>05 = Indian health service - free-standing facility. A facility or location, owned and operated by the Indian health service, which provides diagnostic, therapeutic (surgical and non-surgical), and rehabilitation services to American Indians and Alaska Natives who do not require hospitalization</p> <p>07= Tribal 638 — free-standing facility. A facility or location owned and operated by a federally recognized American Indian or Alaska Native tribe or tribal organization under a 638 agreement, which provides diagnostic, therapeutic (surgical and non-surgical), and rehabilitation services to tribal members who do not require hospitalization</p> <p>10 = Telehealth Provided in Patient’s Home</p> <p>11 = Office</p> <p>17 = Walk-in retail health clinic</p> <p>19 = Off campus — outpatient hospital</p> | Any revenue center code on a claim from a FQHC, RHC, or Type II CAH, except for the codes listed below and 0528 (visit by RHC/FQHC practitioner to other non-RHC/FQHC site (e.g., scene of accident)) |

| Service location | Place of service codes (carrier claims) | Revenue center codes |
|------------------|---|----------------------|
| | <p>20 = Urgent care facility — location, distinct from a hospital emergency room, an office, or a clinic, whose purpose is to diagnose and treat illness or injury for unscheduled, ambulatory patients seeking immediate medical attention</p> <p>22 = Outpatient hospital — portion of a hospital which provides diagnostic, therapeutic (both surgical and nonsurgical), and rehabilitation services to sick or injured persons who do not require hospitalization or institutionalization</p> <p>49 = Independent clinic — location, not part of a hospital and not described by any other Place of Service code, that is organized and operated to provide preventive, diagnostic, therapeutic, rehabilitative, or palliative services to outpatients only</p> <p>50 = Federal Qualified Health Center — facility located in a medically underserved area that provides Medicare beneficiaries preventive primary medical care under the general direction of a physician</p> <p>62 = Comprehensive outpatient rehabilitation facility — facility that provides comprehensive rehabilitation services under the supervision of a physician to outpatients with physical disabilities. Services include physical therapy, occupational therapy, and speech pathology services</p> <p>71 = Public health clinic — facility maintained by either state or local health departments that</p> | |

| Service location | Place of service codes (carrier claims) | Revenue center codes |
|------------------|---|----------------------|
| | <p>provides ambulatory primary medical care under the general direction of a physician</p> <p>72 = Rural health clinic - certified facility which is located in a rural medically underserved area that provides ambulatory primary medical care under the general direction of a physician</p> | |
| Inpatient | <p>06 = Indian health service - provider-based Facility. A facility or location, owned and operated by the Indian health service, which provides diagnostic, therapeutic (surgical and non-surgical), and rehabilitation services rendered by, or under the supervision of, physicians to American Indians and Alaska Natives admitted as inpatients or outpatients</p> <p>08 = Tribal 638 provider-based facility — facility or location owned and operated by a federally recognized American Indian or Alaska Native tribe or tribal organization under a 638 agreement, which provides diagnostic, therapeutic (surgical and non-surgical), and rehabilitation services to tribal members admitted as inpatients or outpatients</p> <p>21 = Inpatient hospital - facility, other than psychiatric, which primarily provides diagnostic, therapeutic (both surgical and nonsurgical), and rehabilitation services by, or under, the supervision of physicians to patients admitted for a variety of medical conditions</p> <p>61 = Comprehensive inpatient rehabilitation facility- facility that provides comprehensive rehabilitation services under the supervision of a physician to inpatients with physical disabilities. Services include physical therapy,</p> | n.a. |

| Service location | Place of service codes (carrier claims) | Revenue center codes |
|------------------|---|----------------------|
| Residential | <p>occupational therapy, speech pathology, social or psychological services, and orthotics and prosthetics services</p> <p>13 = Assisted-living facility - congregate residential facility with self-contained living units providing assessment of each resident's needs and on-site support 24 hours a day, seven days a week, with the capacity to deliver or arrange for services including some health care and other services</p> <p>14 = Group home - residence, with shared living areas, where clients receive supervision and other services such as social and/or behavioral services, custodial service, and minimal services (e.g., medication administration)</p> <p>31 = Skilled nursing facility - facility which primarily provides inpatient skilled nursing care and related services to patients who require medical, nursing, or rehabilitative services but does not provide the level of care or treatment available in a hospital</p> <p>32 = Nursing facility - facility which primarily provides to residents skilled nursing care and related services for the rehabilitation of injured, disabled, or sick persons, or, on a regular basis, health-related care services above the level of custodial care to other than individuals with intellectual disabilities</p> <p>33 = Custodial care facility - facility which provides room, board, and other personal assistance services, generally on a long-term basis, and which does not include a medical component</p> | 0524, 0525 |

Community Clinician Data Dictionary for LINKAGE

| Service location | Place of service codes (carrier claims) | Revenue center codes |
|------------------|--|---|
| | <p>34 = Hospice. A facility, other than a patient's home, in which palliative and supportive care for terminally ill patients and their families are provided</p> <p>54 = Intermediate care facility/Individuals with Intellectual Disabilities - facility which primarily provides health-related care and services above the level of custodial care to individuals but does not provide the level of care or treatment available in a hospital or SNF</p> | |
| Home | 12 = Home - location, other than a hospital or other facility, where the patient receives care in a private residence | <p>0522 = Free-standing clinic – home visit by RHC/FQHC practitioner</p> <p>0527 = Free-standing clinic – RHC/FQHC visiting nurse service(s) to a member's home when in a home health shortage area</p> |

Source: Chronic Conditions Warehouse Medicare Fee-For-Service Claims (version L). January 2024, version 1.11. Available at: <https://www2.ccwdata.org/web/quest/data-dictionaries>

Note: Type II CAH's are those where the professionals working at the CAHs have reassigned their billing rights to the CAH, and the CAH claim reflects both the facility and professional services delivered.

CAH = Critical access hospital; FQHC = Federally qualified health center; n.a. = not applicable; RHC = rural health center.

Table 3. List of codes to indicate telehealth

| Code / specification | Definition |
|--|--|
| Any CPT or HCPCs code allowed to be provided via telehealth (per here: https://www.cms.gov/medicare/coverage/telehealth/list-services and [place of service = {02, 10} or any of the following modifiers: {95, GO, GQ, GT,FQ or FR}] ^a) | Services delivered via telehealth |
| 99421-99423 | Online digital E&M services |
| 98966-98968 | Telephone assessment & mgt |
| 99441-99443 | Telephone E&M |
| 98969 | Online assessment & mgt |
| 99444 | Online E&M |
| 99453-99454 | Chronic Care Remote Patient Monitoring Codes |
| 99457 | Remote physiologic monitoring treatment management services |
| 99458 | Additional time |
| 99473 | Self-measured blood pressure using a device validated for clinical accuracy; patient education/training and device calibration |
| 99474 | Separate self-measurements of two readings one minute apart, twice daily over a 30-day period (minimum of 12 readings), collection of data reported by the patient and/or caregiver to the physician or other qualified health care professional, with report of average systolic and diastolic pressures and subsequent communication of a treatment plan to the patient |
| 99091 | Remote Physiologic Patient Monitoring |
| G2010 | Remote evaluation of recorded video and/or images submitted by an established patient (e.g. store and forward), including interpretation with follow-up with the patient within 24 business hours, not originating from a related E/M service provided within the previous 7 days nor leading to an E/M service or procedure within the next 24 hours or soonest available appointment |
| G2012 | Virtual check-in by a physician or other qualified health care professional who can report E&M services |
| G2061 | Qualified nonphysician healthcare professional online assessment and management service, for an established patient, for up to seven days, cumulative time during the 7 days; 5-10 minutes (source: https://hcpcs.codes/g-codes/G2061/) |
| G2062 | Qualified nonphysician healthcare professional online assessment and management service, for an established patient, for up to seven days, cumulative time during the 7 days; 11-20 minutes (source: https://hcpcs.codes/g-codes/G2062/) |
| G2063 | Qualified nonphysician healthcare professional online assessment and management service, for an established patient, for up to seven days, cumulative time during the 7 days; 21 or more minutes (source: https://hcpcs.codes/g-codes/G2063/) |
| G9978-G9986 | Remote in-home visit for the E&M of a patient |
| 98970-98972 | Online digital assessment |
| G2250 | Remote assessment of recorded video and/ or images submitted by an established patient |

| | |
|--|---|
| G2251 | Brief communication technology-based service, e.g., virtual check-in, by a qualified health care professional who cannot report E&M services |
| G2252 | Brief communication technology-based service, e.g., virtual check-in, by a physician or other qualified health care professional who can report E&M services |
| 98975-98977 | Remote therapeutic monitoring services. Code 98975 represents the initial setup and patient education for the equipment. Codes 98976 (respiratory system) and 98977 (musculoskeletal system) represent the device supply w/ scheduled recording and/or programmed alert transmission for a 30-day period. |
| 98980 | Remote therapeutic monitoring treatment management services, |
| 98981 | Remote therapeutic monitoring treatment management services each additional 20 minutes |
| 0702T | Remote therapeutic monitoring of a standardized online digital cognitive behavioral therapy program ; supply and technical support |
| 0703T | Remote therapeutic monitoring of a standardized online digital cognitive behavioral therapy program; physician or other qualified health care professional |
| 99458 | E&M - Office/outpatient services, RPM – each addtl 20 minutes (new in 2022) |
| FQHC/RHC Telehealth codes | |
| HCPCS_CD = G2025 and REV_CNTR = '052x' (except 0524, 0525, and 0526) | Telehealth services on or after July 1, 2020 and through the end of the COVID-19 public health emergency |
| G0071 | Non face-to-face communication between RHC/FQHC practitioner and patient in lieu of an office visit |

a Source: <https://data.cms.gov/resources/medicare-telehealth-trends-methodology>

Table 4. List of codes to indicate chronic care management, transitional care management or other care managed services from the clinician

| Code | Definition |
|--------------|--|
| 99487 | Complex Chronic Care Management Services |
| 99489 | addtl 30 min |
| 99490 | Chronic Care Mgt |
| 99491 | Chronic care management services, provided personally by a physician or other qualified health care professional |
| 99492-99493 | Psychiatric Collaborative Care Mgt |
| 99494 | addtl 30 min |
| 99495 -99496 | Transitional Care Management Services |
| 99484 | General Behavioral Health Integration Care Management |
| G0076- G0087 | Care management home visit |
| G0506 | Comprehensive assessment and care planning for patients needing chronic care |
| G2064 | Principal care management service at least 30 minutes |
| G2065 | Principal care management service at least 30 minutes – clinical staff time directed by a physician or other qualified health care professional |
| G2076 | Intake activities, including a physician assessment, |
| 99439 | Chronic Care Mgt each additional 20 minutes (this code replaced G2058 in 2021) |
| G2214 | Psychiatric Collaborative Care Mgt |
| 99424, 99426 | Principal care management services |
| 99425, 99427 | PCM - each additional 30 minutes |
| 99437 | Subsequent 30 minutes of care for 99491 (chronic care management) |
| G0077-G0079 | E&M - Care management/coordination - Chronic & Transitional Care Management |
| G0023-G0024 | Principal Illness Navigation Services (new in 2024) |
| G3002-G3003 | Chronic Pain Mgt (new in 2023) ¹ |
| G9886-G9887 | Behavioral Counseling For Diabetes Prevention, In-Person, Group or distance learning (new in 2024) |
| G2211 | E&M- Care management/coordination - Chronic and Transitional Care (new in 2021, delayed until 2024) - Visit complexity - add-on code, list separately in addition to office/outpatient evaluation and management visit, new or established (new in 2024) |
| G0323 | Care management services for behavioral health conditions, at least 20 minutes of clinical psychologist or clinical social worker time, per calendar month (new in 2023) |
| G0140, G0146 | Principal Illness Services related to behavioral health (new in 2024) |
| G0511 | General Care Management |
| G0512 | Psychiatric CoCM |

¹ [An Introduction to Medicare Chronic Pain Management Codes for 2023 \(asra.com\)](https://www.asra.com)

Change log of edits to data dictionary

| Date | Description of edit(s) |
|-------------------|---|
| September 9, 2024 | <ul style="list-style-type: none"> For the home health-related measures, PANEL_D_NUM_HHA_VISIT and PANEL_D_TOT_HHA_VISIT: Updated the source data (it was previously referencing carrier and outpatient claims instead of home health claims) and removed a reference to table 2 in the measure description (table 2 is not relevant for this measure) In table 2: Removed place of service = 14 (group home) from the definition of the “home” service location category because this place of service was already classified as “residential.” (The service location categories are intended to be mutually exclusive). |
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