Supplemental Material 2. File 2: NSOC_R1_R5_R7_simple_061521.sav

```
/*Run NSOC data format statements */

/*  NSOC_Round_1_Combined_PROC_FORMAT_Statement_V3.sas  */

PROC FORMAT ;
  VALUE NSOC001W
    1 = "1 MALE"
    2 = "2 FEMALE"  ;

  VALUE NSOC002W
    1 = "1 SAMPLE PERSON"
    2 = "2 SPOUSE/PARTNER"
    3 = "3 DAUGHTER"
    4 = "4 SON"
    5 = "5 DAUGHTER-IN-LAW"
    6 = "6 SON-IN-LAW"
    7 = "7 STEPDAUGHTER"
    8 = "8 STEPSON"
    9 = "9 SISTER"
    10 = "10 BROTHER"
    11 = "11 SISTER-IN-LAW"
    12 = "12 BROTHER-IN-LAW"
    13 = "13 MOTHER"
    14 = "14 STEPMOTHER"
    15 = "15 MOTHER-IN-LAW"
    16 = "16 FATHER"
    17 = "17 STEPFATHER"
    18 = "18 FATHER-IN-LAW"
    19 = "19 GRANDDAUGHTER"
    20 = "20 GRANDSON"
    21 = "21 NIECE"
    22 = "22 NEPHEW"
    23 = "23 AUNT"
    24 = "24 UNCLE"
    25 = "25 COUSIN"
    26 = "26 STEPDAUGHTER'S SON/DAUGHTER"
    27 = "27 STEPSON'S SON/DAUGHTER"
    28 = "28 DAUGHTER-IN-LAW'S SON/DAUGHTER"
    29 = "29 SON-IN-LAW'S SON/DAUGHTER"
    30 = "30 BOARDER/RENTER"
    31 = "31 LIVE-IN HOUSEKEEPER/EMPLOYEE"
    32 = "32 ROOMMATE"
    33 = "33 EX-WIFE/EX-HUSBAND"
    34 = "34 BOYFRIEND/GIRLFIEND"
    35 = "35 NEIGHBOR"
    36 = "36 FRIEND"
    37 = "37 STAFF PERSON AT THE PLACE SP LIVES"
    38 = "38 CO-WORKER"
    39 = "39 MINISTER, PRIEST, OR OTHER CLERGY"
    40 = "40 PSYCHIATRIST, PSYCHOLOGIST, COUNSELOR, OR THERAPIST"
    91 = "91 OTHER RELATIVE"
    92 = "92 OTHER NONRELATIVE"  ;

  VALUE NSOC003W
```

```
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 YES"
    2 = "2 NO"  ;
/*
  VALUE NSOC004W
    1 = "Yes"
    2 = "No"  ;

  VALUE NSOC005W
    1 = "Yes"
    2 = "No"  ;

  VALUE NSOC006W
    1 = "Yes"
    2 = "No"  ;

  VALUE NSOC007W
    1 = "Yes"
    2 = "No"  ;*/

  VALUE NSOC008W
    1 = "1 RECORD INTERVIEW"
    2 = "2 DO NOT RECORD INTERVIEW"  ;

  VALUE NSOC009W
    1 = "1 Continue"  ;

  VALUE NSOC010W
     -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
   1 = "1 EVERY DAY"
    2 = "2 MOST DAYS"
    3 = "3 SOME DAYS"
    4 = "4 RARELY"
    5 = "5 NEVER"  ;

  VALUE NSOC011W
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 YES"
    2 = "2 NO"
    7 = "7 SP DOES NOT TAKE ANY PRESCRIBED MEDICINES"  ;

  VALUE NSOC012W
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 EVERY DAY"
    2 = "2 MOST DAYS"
```

```
    3 = "3 SOME DAYS"
    4 = "4 RARELY"  ;

  VALUE NSOC013W
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 WALK"
    2 = "2 DRIVE"
    3 = "3 SOMEONE DRIVES ME"
    4 = "4 TAXI"
    5 = "5 BUS"
    6 = "6 SUBWAY/TRAIN/LIGHT RAIL"
    7 = "7 TRAIN"
    8 = "8 AIRPLANE/FLY"
    91 = "91 OTHER (SPECIFY)"  ;

  VALUE NSOC014W
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 MINUTES"
    2 = "2 HOURS"  ;

  VALUE NSOC015W
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 JANUARY"
    2 = "2 FEBRUARY"
    3 = "3 MARCH"
    4 = "4 APRIL"
    5 = "5 MAY"
    6 = "6 JUNE"
    7 = "7 JULY"
    8 = "8 AUGUST"
    9 = "9 SEPTEMBER"
    10 = "10 OCTOBER"
    11 = "11 NOVEMBER"
    12 = "12 DECEMBER"  ;

  VALUE NSOC016W
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 REGULAR SCHEDULE"
    2 = "2 VARIED"  ;

  VALUE NSOC017W
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
```

SAS ALGORITHM FOR DEMENTIA

```
  1 = "1 LESS THAN HALF"
  2 = "2 ABOUT HALF"
  3 = "3 MORE THAN HALF"
  4 = "4 NEARLY ALL"  ;

VALUE NSOC018W
   -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
 1 = "1 NUMBER OF YEARS"
  2 = "2 DATE"  ;

VALUE NSOC019W
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
  1 = "1 A LOT"
  2 = "2 SOME"
  3 = "3 A LITTLE"
  4 = "4 NOT AT ALL"  ;

VALUE NSOC020W
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
  1 = "1 VERY MUCH"
  2 = "2 SOMEWHAT"
  3 = "3 NOT SO MUCH"  ;

VALUE NSOC021W
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
  1 = "1 A LITTLE DIFFICULT"
  2 = "2"
  3 = "3"
  4 = "4"
  5 = "5 VERY DIFFICULT"  ;

VALUE NSOC022W
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
  1 = "1 VERY IMPORTANT"
  2 = "2 SOMEWHAT IMPORTANT"
  3 = "3 NOT SO IMPORTANT"  ;

VALUE NSOC023W
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
```

SAS ALGORITHM FOR DEMENTIA

```
    1 = "1 EXCELLENT"
    2 = "2 VERY GOOD"
    3 = "3 GOOD"
    4 = "4 FAIR"
    5 = "5 POOR"  ;

  VALUE NSOC024W
    1 = "1 SKIN CANCER"
    2 = "2 BREAST CANCER"
    3 = "3 PROSTATE"
    4 = "4 OTHER TYPE OF CANCER (SPECIFY)"  ;

  VALUE NSOC025W
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 NOT AT ALL"
    2 = "2 SEVERAL DAYS"
    3 = "3 MORE THAN HALF THE DAYS"
    4 = "4 NEARLY EVERY DAY"  ;

  VALUE NSOC026W
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 AGREE STRONGLY"
    2 = "2 AGREE SOMEWHAT"
    3 = "3 DISAGREE SOMEWHAT"
    4 = "4 DISAGREE STRONGLY"  ;

  VALUE NSOC027W
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 MARRIED"
    2 = "2 LIVING WITH A PARTNER"
    3 = "3 SEPARATED"
    4 = "4 DIVORCED"
    5 = "5 WIDOWED"
    6 = "6 NEVER MARRIED"  ;

  VALUE NSOC028W
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 NO SCHOOLING COMPLETED"
    2 = "2 1ST-8TH GRADE"
    3 = "3 9TH-12TH GRADE (NO DIPLOMA)"
    4 = "4 HIGH SCHOOL GRADUATE (HIGH SCHOOL DIPLOMA OR EQUIVALENT)"
    5 = "5 VOCATIONAL, TECHNICAL, BUSINESS, OR TRADE SCHOOL CERTIFICATE OR
DIPLOMA (BEYOND HIGH SCHOOL LEVEL)"
    6 = "6 SOME COLLEGE BUT NO DEGREE"
    7 = "7 ASSOCIATE'S DEGREE"
```

```
    8 = "8 BACHELOR'S DEGREE"
    9 = "9 MASTER'S, PROFESSIONAL, OR DOCTORAL DEGREE"  ;

  VALUE NSOC029W
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 YES"
    2 = "2 NO"
    3 = "3 RETIRED/DON'T WORK ANYMORE"  ;

  VALUE NSOC030W
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 YES, LOOKING FOR A JOB"
    2 = "2 YES, ON LAYOFF"
    3 = "3 NO"
    4 = "4 RETIRED/DON'T WORK ANYMORE"  ;

  VALUE NSOC031W
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 DAYTIME"
    2 = "2 SOME OTHER SCHEDULE"  ;

  VALUE NSOC032W
     -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 ENTER NUMBER OF HOURS"
    2 = "2 ENTER NUMBER OF DAYS"  ;

  VALUE NSOC033W
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 8-HOUR DAYS"
    2 = "2 SOMETHING LESS"
    3 = "3 SOMETHING MORE"  ;

  VALUE NSOC034W
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    1 = "1 ENTER OCCUPATION"
    2 = "2 CurrentOccupationSame"
    97 = "3 NEVER WORKED ENTIRE LIFE"
    98 = "4 HOMEMAKER/RAISED CHILDREN/WORKED IN THE HOME"  ;
```

SAS ALGORITHM FOR DEMENTIA

```
VALUE NSOC035W
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
  1 = "1 MEDICARE"
  2 = "2 MEDICAID"
  3 = "3 PRIVATE HEALTH INSURANCE"
  4 = "4 TRICARE/CHAMPVA"
  91 = "91 OTHER (SPECIFY)"  ;

VALUE NSOC036W
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
  1 = "1 LESS THAN"
  2 = "2 MORE THAN"  ;

VALUE NSOC037W
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
  1 = "1 MORE THAN $1,000"
  2 = "2 LESS THAN $1,000"  ;

VALUE NSOC038W
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
  1 = "1 MORE THAN $500"
  2 = "2 LESS THAN $500"  ;

VALUE NSOC039W
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
  1 = "1 ENGLISH"
  2 = "2 SPANISH"
  91 = "91 OTHER"  ;

VALUE NSOC040W
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
  1 = "1 Yes"  ;

  VALUE RFDK
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable (nursing home resident or residential care no FQ)'
  -9 = '-9 Missing';
```

SAS ALGORITHM FOR DEMENTIA

```
      VALUE RF997DK
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
     997 = '997 Number of hours vary each week';

    VALUE RFDK_F
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';

    VALUE RFDK_Y
     1 = ' 1 Yes'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';

    VALUE RFDK_YN
     1 = ' 1 Yes'
     2 = ' 2 No'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';

      value OCC2010F /*with categories for distribution checking*/
       0010-0430 = "0010-0430 Management Occupations"
       0500-0950 = "0500-0950 Business and Financial Operations Occupations"
       1000-1240 = "1000-1240 Computer and Mathematical Occupations"
       1300-1560 = "1300-1560 Architecture and Engineering Occupations"
       1600-1965 = "1600-1965 Life, Physical, and Social Science Occupations"
       2000-2060 = "2000-2060 Community and Social Service Occupations"
       2100-2160 = "2100-2160 Legal Occupations"
       2200-2550 = "2200-2550 Education, Training, and Library Occupations"
       2600-2960 = "2600-2960 Arts, Design, Entertainment, Sports, and Media
Occupations"
       3000-3540 = "3000-3540 Healthcare Practitioners and Technical
Occupations"
       3600-3655 = "3600-3655 Healthcare Support Occupations"
       3700-3955 = "3700-3955 Protective Service Occupations"
       4000-4160 = "4000-4160 Food Preparation and Serving Related
Occupations"
       4200-4250 = "4200-4250 Building and Grounds Cleaning and Maintenance
Occupations"
       4300-4650 = "4300-4650 Personal Care and Service Occupations"
       4700-4965 = "4700-4965 Sales and Related Occupations"
       5000-5940 = "5000-5940 Office and Administrative Support Occupations"
       6000-6130 = "6000-6130 Farming, Fishing, and Forestry Occupations"
       6200-6940 = "6200-6940 Construction and Extraction Occupations"
       7000-7630 = "7000-7630 Installation, Maintenance, and Repair
Occupations"
       7700-8965 = "7700-8965 Production Occupations"
       9000-9750 = "9000-9750 Transportation and Material Moving Occupations"
       9800-9830 = "9800-9830 Military Specific Occupations"
```

```
       9920 = "9920 Unemployed, with no work experience in the last 5 years
or earlier or never worked"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';

      value OCC20_F /*with categories for distribution checking*/
       1 = " 1  0010-0430 Management Occupations"
       2 = " 2  0500-0950 Business and Financial Operations Occupations"
       3 = " 3  1000-1240 Computer and Mathematical Occupations"
       4 = " 4  1300-1560 Architecture and Engineering Occupations"
       5 = " 5  1600-1965 Life, Physical, and Social Science Occupations"
       6 = " 6  2000-2060 Community and Social Service Occupations"
       7 = " 7  2100-2160 Legal Occupations"
       8 = " 8  2200-2550 Education, Training, and Library Occupations"
       9 = " 9  2600-2960 Arts, Design, Entertainment, Sports, and Media
Occupations"
       10 = "10  3000-3540 Healthcare Practitioners and Technical
Occupations"
       11 = "11  3600-3655 Healthcare Support Occupations"
       12 = "12  3700-3955 Protective Service Occupations"
       13 = "13  4000-4160 Food Preparation and Serving Related Occupations"
       14 = "14  4200-4250 Building and Grounds Cleaning and Maintenance
Occupations"
       15 = "15  4300-4650 Personal Care and Service Occupations"
       16 = "16  4700-4965 Sales and Related Occupations"
       17 = "17  5000-5940 Office and Administrative Support Occupations"
       18 = "18  6000-6130 Farming, Fishing, and Forestry Occupations"
       19 = "19  6200-6940 Construction and Extraction Occupations"
       20 = "20  7000-7630 Installation, Maintenance, and Repair Occupations"
       21 = "21  7700-8965 Production Occupations"
       22 = "22  9000-9750 Transportation and Material Moving Occupations"
       23 = "23  9800-9830 Military Specific Occupations"
       24 = "24  9920 Unemployed, with no work experience in the last 5 years
or earlier or never worked"
         25 = "25  Blank field"
         94 = "94  Uncodeable"
         97 = "97  Never worked entire life"
         98 = "98  Homemaker / raised children"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';

      value $OCCF /*with categories for distribution checking*/
       "0010"-"0430" = "0010-0430 Management Occupations"
       "0500"-"0950" = "0500-0950 Business and Financial Operations
Occupations"
       "1000"-"1240" = "1000-1240 Computer and Mathematical Occupations"
       "1300"-"1560" = "1300-1560 Architecture and Engineering Occupations"
       "1600"-"1965" = "1600-1965 Life, Physical, and Social Science
Occupations"
       "2000"-"2060" = "2000-2060 Community and Social Service Occupations"
       "2100"-"2160" = "2100-2160 Legal Occupations"
       "2200"-"2550" = "2200-2550 Education, Training, and Library
Occupations"
```

```
       "2600"-"2960" = "2600-2960 Arts, Design, Entertainment, Sports, and
Media Occupations"
       "3000"-"3540" = "3000-3540 Healthcare Practitioners and Technical
Occupations"
       "3600"-"3655" = "3600-3655 Healthcare Support Occupations"
       "3700"-"3955" = "3700-3955 Protective Service Occupations"
       "4000"-"4160" = "4000-4160 Food Preparation and Serving Related
Occupations"
       "4200"-"4250" = "4200-4250 Building and Grounds Cleaning and
Maintenance Occupations"
       "4300"-"4650" = "4300-4650 Personal Care and Service Occupations"
       "4700"-"4965" = "4700-4965 Sales and Related Occupations"
       "5000"-"5940" = "5000-5940 Office and Administrative Support
Occupations"
       "6000"-"6130" = "6000-6130 Farming, Fishing, and Forestry Occupations"
       "6200"-"6940" = "6200-6940 Construction and Extraction Occupations"
       "7000"-"7630" = "7000-7630 Installation, Maintenance, and Repair
Occupations"
       "7700"-"8965" = "7700-8965 Production Occupations"
       "9000"-"9750" = "9000-9750 Transportation and Material Moving
Occupations"
       "9800"-"9830" = "9800-9830 Military Specific Occupations"
       "9920" = "9920 Unemployed, with no work experience in the last 5 years
or earlier or never worked"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';


      value OCC_SI /*with categories for distribution checking*/
            11    = '11 Agriculture, Forestry, Fishing and Hunting'
            21    = '21 Mining, Quarrying, and Oil and Gas Extraction'
            22    = '22 Utilities'
            23    = '23 Construction'
            31    = '31-33 Manufacturing'
            32    = '31-33 Manufacturing'
            33    = '31-33 Manufacturing'
            42    = '42 Wholesale Trade'
            44  = '44-45 Retail Trade'
            45  = '44-45 Retail Trade'
            48  = '48-49 Transportation and Warehousing'
            49  = '48-49 Transportation and Warehousing'
            51    = '51 Information'
            52    = '52 Finance and Insurance'
            53    = '53 Real Estate and Rental and Leasing'
            54    = '54 Professional, Scientific, and Technical Services'
            55    = '55 Management of Companies and Enterprises'
            56    = '56 Administrative and Support and Waste Management and
Remediation Services'
            61    = '61 Educational Services'
            62    = '62 Health Care and Social Assistance'
            71    = '71 Arts, Entertainment, and Recreation'
            72    = '72 Accommodation and Food Services'
            81    = '81 Other Services (except Public Administration)'
            92    = '92 Public Administration'
          94 = "94  Uncodeable"
```

```
            99    = '99 None'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';


    VALUE dnsoc
1 = '1 Eligible and interviewed'
2 = '2 Eligible and not interviewed phone number provided'
3 = '3 Eligible and not interviewed SP refused'
4 = '4 Eligible and not interviewed other'
5 = '5 Eligible and not fielded for NSOC'
6 = '6 5+ caregivers and not sampled'
7 = '7 Ineligible'
-1 = '-1 Inapplicable';

    VALUE fdnsoc
1 = '1 SP NSOC Eligible'
-1 = '-1 Inapplicable';
    VALUE fdintdys
1 ='1 30 days or less'
2 ='2 31-60 days'
3 ='3 61-90 days'
4 ='4 91-120 days'
5 ='5 121 days or more'
-1 = '-1 Inapplicable';

      VALUE $fdTRCcd
'CO'  =     'CO Complete Interview '
'IE'= 'IE Ineligible Interview'
'I2'= 'I2 Ineligible - error'
'I3'= 'I3 Ineligible - other'
'LH'= 'LH Final Language Problem - Hearing/Speech'
'LP'= 'LP Final Language Problem'
'MC'= 'MC Max Call'
'NA'= 'NA No Answer'
'ND'= 'ND Subject deceased'
'NL'= 'NL Not Locatable'
'NM'= 'NM No Answer: Answering Machine'
'NP'= 'NP Not available in Field Period'
'NS'= 'NS Subject Sick'
'NX'= 'NX Eligible, not fielded'
'RB'= 'RB Final refusal'
'RF'= 'RF Refusal - preload from SP interview'
'RP'= 'RP Final refusal - inbound call'
'OO'= 'OO Oth Out of scope- SP deceased';

  VALUE inc1imfa
      1= "1 Reported in NSOC I"
      2= "2 Reported in NHATS R1 (Spouse/partner of SP)"
      3= "3 Imputed in NSOC I"
      4= "4 Imputed in NHATS R1 (Spouse/partner of SP)" ;

RUN;
```

SAS ALGORITHM FOR DEMENTIA

```
/*=================================================================*/

/*  NSOC_Round_5_Combined_PROC_FORMAT_Statement_V4.sas  */

PROC FORMAT;
  VALUE $RFDK_F
    '-7' = '-7 RF'
    '-8' = '-8 DK'
    '-1' = '-1 Inapplicable'
    '-9' = '-9 Missing';
  VALUE RFDK_F
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE RFDK_Y
     1 = ' 1 Yes'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000001W
    1 = "1 MALE"
    2 = "2 FEMALE"
      -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000002W
    1 = "1 SAMPLE PERSON"
    2 = "2 SPOUSE/PARTNER"
    3 = "3 DAUGHTER"
    4 = "4 SON"
    5 = "5 DAUGHTER-IN-LAW"
    6 = "6 SON-IN-LAW"
    7 = "7 STEPDAUGHTER"
    8 = "8 STEPSON"
    9 = "9 SISTER"
    10 = "10 BROTHER"
    11 = "11 SISTER-IN-LAW"
    12 = "12 BROTHER-IN-LAW"
    13 = "13 MOTHER"
    14 = "14 STEPMOTHER"
    15 = "15 MOTHER-IN-LAW"
    16 = "16 FATHER"
    17 = "17 STEPFATHER"
    18 = "18 FATHER-IN-LAW"
    19 = "19 GRANDDAUGHTER"
    20 = "20 GRANDSON"
    21 = "21 NIECE"
    22 = "22 NEPHEW"
    23 = "23 AUNT"
    24 = "24 UNCLE"
    25 = "25 COUSIN"
    26 = "26 STEPDAUGHTER'S SON/DAUGHTER"
    27 = "27 STEPSON'S SON/DAUGHTER"
    28 = "28 DAUGHTER-IN-LAW'S SON/DAUGHTER"
```

```
    29 = "29 SON-IN-LAW'S SON/DAUGHTER"
    30 = "30 BOARDER/RENTER"
    31 = "31 LIVE-IN HOUSEKEEPER/EMPLOYEE"
    32 = "32 ROOMMATE"
    33 = "33 EX-WIFE/EX-HUSBAND"
    34 = "34 BOYFRIEND/GIRLFIEND"
    35 = "35 NEIGHBOR"
    36 = "36 FRIEND"
    37 = "37 STAFF PERSON AT THE PLACE SP LIVES"
    38 = "38 CO-WORKER"
    39 = "39 MINISTER, PRIEST, OR OTHER CLERGY"
    40 = "40 PSYCHIATRIST, PSYCHOLOGIST, COUNSELOR, OR THERAPIST"
    91 = "91 OTHER RELATIVE"
    92 = "92 OTHER NONRELATIVE"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W0000003W
      1 = "1 White, non-Hispanic"
      2 = "2 Black, non-Hispanic"
      3 = "3 Other (Am Indian/Asian/Native Hawaiian/Pacific Islander/other
specify), non-Hispanic"
      4 = "4 Hispanic"
      5 = "5 More than one and DKRF primary"
      6 = "6 DKRF";
  VALUE W0000004W
    1 = "1 YES"
    2 = "2 NO"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W0000006W
      1 = "1 30 days or less"
      2 = "2 31-60 days"
      3 = "3 61-90 days"
      4 = "4 91-120 days"
      5 = "5 121 days or more"
      -1 = "-1 Inapplicable";
  VALUE W0000007W
      1 = "1 WHITE or CAUCASIAN"
      2 = "2 BLACK or AFRICAN AMERICAN"
      3 = "3 AMERICAN INDIAN or ALASKA NATIVE"
      4 = "4 ASIAN"
      5 = "5 NATIVE HAWAIIAN or OTHER PACIFIC ISLANDER"
      /*6 = "6 DO NOT HAVE A PRIMARY RACE"*/
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W0000008W
      1 = "1 SP NSOC Eligible"
    -1 = '-1 Inapplicable';
  VALUE W0000009W
      1 = "1 Eligible and interviewed"
      2 = "2 Eligible and not interviewed phone number provided"
```

```
      3 = "3 Eligible and not interviewed SP refused"
      4 = "4 Eligible and not interviewed other"
      5 = "5 Eligible and not fielded for NSOC"
      6 = "5+ caregivers and not sampled"
      7 = "7 Ineligible"
     -1 ="-1 Inapplicable";
  VALUE W000011W
      997 = "997 NUMBER OF HOURS VARY EACH WEEK"
     -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000012W
    1 = "1 EVERY DAY"
    2 = "2 MOST DAYS"
    3 = "3 SOME DAYS"
    4 = "4 RARELY"
    5 = "5 NEVER"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000013W
    1 = "1 YES"
    2 = "2 NO"
    7 = "7 SP DOES NOT TAKE ANY PRESCRIBED MEDICINES"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000014W
    1 = "1 EVERY DAY"
    2 = "2 MOST DAYS"
    3 = "3 SOME DAYS"
    4 = "4 RARELY"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000015W
    1 = "1 A LOT"
    2 = "2 SOMEWHAT"
    3 = "3 A LITTLE"
    4 = "4 NOT AT ALL"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000016W
    1 = "1 WALK"
    2 = "2 DRIVE"
    3 = "3 SOMEONE DRIVES ME"
    4 = "4 TAXI"
    5 = "5 BUS"
    6 = "6 SUBWAY/TRAIN/LIGHT RAIL"
    7 = "7 TRAIN"
    8 = "8 AIRPLANE/FLY"
```

```
    91 = "91 OTHER (SPECIFY)"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000017W
    1 = "1 MINUTES"
    2 = "2 HOURS"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000018W
    1 = "1 JANUARY"
    2 = "2 FEBRUARY"
    3 = "3 MARCH"
    4 = "4 APRIL"
    5 = "5 MAY"
    6 = "6 JUNE"
    7 = "7 JULY"
    8 = "8 AUGUST"
    9 = "9 SEPTEMBER"
    10 = "10 OCTOBER"
    11 = "11 NOVEMBER"
    12 = "12 DECEMBER"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000019W
    1 = "1 REGULAR SCHEDULE"
    2 = "2 VARIED"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000020W
    1 = "1 LESS THAN HALF"
    2 = "2 ABOUT HALF"
    3 = "3 MORE THAN HALF"
    4 = "4 NEARLY ALL"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000021W
    1 = "1 NUMBER OF YEARS"
    2 = "2 DATE"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000022W
    1 = "1 A LOT"
    2 = "2 SOME"
    3 = "3 A LITTLE"
    4 = "4 NOT AT ALL"
```

```
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000023W
    1 = "1 VERY MUCH"
    2 = "2 SOMEWHAT"
    3 = "3 NOT SO MUCH"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000024W
    1 = "1 A LITTLE DIFFICULT"
    2 = "2 "
    3 = "3 "
    4 = "4 "
    5 = "5 VERY DIFFICULT"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000025W
    1 = "1 MORE THAN FAIR SHARE"
    2 = "2 LESS THAN FAIR SHARE"
    3 = "3 FAIR AMOUNT"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000026W
    1 = "1 VERY IMPORTANT"
    2 = "2 SOMEWHAT IMPORTANT"
    3 = "3 NOT SO IMPORTANT"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000027W
    1 = "1 EXCELLENT"
    2 = "2 VERY GOOD"
    3 = "3 GOOD"
    4 = "4 FAIR"
    5 = "5 POOR"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000028W
    1 = "1 SKIN CANCER"
    2 = "2 BREAST CANCER"
    3 = "3 ^PROSTATE"
    4 = "4 OTHER TYPE OF CANCER (SPECIFY)"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
```

SAS ALGORITHM FOR DEMENTIA

```
  VALUE W000029W
    1 = "1 EVERY NIGHT"
    2 = "2 MOST NIGHTS"
    3 = "3 SOME NIGHTS"
    4 = "4 RARELY"
    5 = "5 NEVER"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000030W
    1 = "1 NOT AT ALL"
    2 = "2 SEVERAL DAYS"
    3 = "3 MORE THAN HALF THE DAYS"
    4 = "4 NEARLY EVERY DAY"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000031W
    1 = "1 AGREE STRONGLY"
    2 = "2 AGREE SOMEWHAT"
    3 = "3 DISAGREE SOMEWHAT"
    4 = "4 DISAGREE STRONGLY"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000032W
    1 = "1 MARRIED"
    2 = "2 LIVING WITH A PARTNER"
    3 = "3 SEPARATED"
    4 = "4 DIVORCED"
    5 = "5 WIDOWED"
    6 = "6 NEVER MARRIED"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000033W
    1 = "1 NO SCHOOLING COMPLETED"
    2 = "2 1ST-8TH GRADE"
    3 = "3 9TH-12TH GRADE (NO DIPLOMA)"
    4 = "4 HIGH SCHOOL GRADUATE (HIGH SCHOOL DIPLOMA OR EQUIVALENT)"
    5 = "5 VOCATIONAL, TECHNICAL, BUSINESS, OR TRADE SCHOOL CERTIFICATE OR
DIPLOMA (BEYOND HIGH SCHOOL LEVEL)"
    6 = "6 SOME COLLEGE BUT NO DEGREE"
    7 = "7 ASSOCIATE'S DEGREE"
    8 = "8 BACHELOR'S DEGREE"
    9 = "9 MASTER'S, PROFESSIONAL, OR DOCTORAL DEGREE"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000034W
    1 = "1 YES"
    2 = "2 NO"
```

```
    3 = "3 RETIRED/DON'T WORK ANYMORE"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000035W
    1 = "1 YES, LOOKING FOR A JOB"
    2 = "2 YES, ON LAYOFF"
    3 = "3 NO"
    4 = "4 RETIRED/DON'T WORK ANYMORE"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000036W
    1 = "1 DAYTIME"
    2 = "2 SOME OTHER SCHEDULE"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000037W
    1 = "1 ENTER NUMBER OF HOURS"
    2 = "2 ENTER NUMBER OF DAYS"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000038W
    1 = "1 8-HOUR DAYS"
    2 = "2 SOMETHING LESS"
    3 = "3 SOMETHING MORE"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000039W
    1 = "1 ENTER OCCUPATION"
    2 = "2 ^CurrentOccupationSame"
    97 = "97 NEVER WORKED ENTIRE LIFE"
    98 = "98 HOMEMAKER/RAISED CHILDREN/WORKED IN THE HOME"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000040W
    1 = "1 MEDICARE"
    2 = "2 MEDICAID"
    3 = "3 PRIVATE HEALTH INSURANCE"
    4 = "4 TRICARE/CHAMPVA"
    91 = "91 OTHER (SPECIFY)"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000041W
    1 = "1 LESS THAN"
```

```
    2 = "2 MORE THAN"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000042W
    1 = "1 MORE THAN $1,000"
    2 = "2 LESS THAN $1,000"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE W000043W
    1 = "1 MORE THAN $500"
    2 = "2 LESS THAN $500"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
  VALUE OCC_CODE
1   ='1 Management Occupations: 0010-0430'
2   ='2 Business and Financial Operations Occupations:  0500-0950'
3   ='3 Computer and mathematical occupations:  1000-1240'
4   ='4 Architecture and Engineering Occupations:   1300-1560'
5   ='5 Life, Physical, and Social Science Occupations: 1600-1965'
6   ='6 Community and Social Service Occupations:   2000-2060'
7   ='7 Legal Occupations:  2100-2160'
8   ='8 Education, Training, and Library Occupations:   2200-2550'
9   ='9 Arts, Design, Entertainment, Sports, and Media Occupations: 2600-
2960'
10  ='10 Healthcare Practitioners and Technical Occupations:    3000-3540'
11  ='11 Healthcare Support Occupations:    3600-3655'
12  ='12 Protective Service Occupations:    3700-3955'
13  ='13 Food Preparation and Serving Related Occupations:  4000-4160'
14  ='14 Building and Grounds Cleaning and Maintenance Occupations: 4200-
4250'
15  ='15 Personal Care and Service Occupations: 4300-4650'
16  ='16 Sales and Related Occupations: 4700-4965'
17  ='17 Office and Administrative Support Occupations: 5000-5940'
18  ='18 Farming, Fishing, and Forestry Occupations:    6000-6130'
19  ='19 Construction and Extraction Occupations:   6200-6940'
20  ='20 Installation, Maintenance, and Repair Occupations: 7000-7630'
21  ='21 Production Occupations:    7700-8965'
22  ='22 Transportation and Material Moving Occupations:    9000-9750'
23  ='23 Military Specific Occupations: 9800-9830'
24  ='24 No current occ (Unemployed, no work in the last 5 years, never
worked):  9920'
25 = '25 Blank field'
26 = '26 Code did not match'
94 = '94 Uncodable'
95 = '95 Never Worked Entire Life'
96 = '96 Homemaker/Raised Children'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
      value OCC_SI /*with categories for distribution checking*/
```

```
            11    = '11 Agriculture, Forestry, Fishing and Hunting'
            21    = '21 Mining, Quarrying, and Oil and Gas Extraction'
            22    = '22 Utilities'
            23    = '23 Construction'
            31    = '31-33 Manufacturing'
            32    = '31-33 Manufacturing'
            33    = '31-33 Manufacturing'
            42    = '42 Wholesale Trade'
            44  = '44-45 Retail Trade'
            45  = '44-45 Retail Trade'
            48  = '48-49 Transportation and Warehousing'
            49  = '48-49 Transportation and Warehousing'
            51    = '51 Information'
            52    = '52 Finance and Insurance'
            53    = '53 Real Estate and Rental and Leasing'
            54    = '54 Professional, Scientific, and Technical Services'
            55    = '55 Management of Companies and Enterprises'
            56    = '56 Administrative and Support and Waste Management and
Remediation Services'
            61    = '61 Educational Services'
            62    = '62 Health Care and Social Assistance'
            71    = '71 Arts, Entertainment, and Recreation'
            72    = '72 Accommodation and Food Services'
            81    = '81 Other Services (except Public Administration)'
            92    = '92 Public Administration'
          94 = "94  Uncodeable"
            99    = '99 None'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
      value Source /* from derived variable specifications...updated 11/30/18
*/
      1 = '1 2017 NSOC'
      2 = '2 2015 NSOC - phone interview'
      3 = '3 2015 NSOC - mailing'
      4 = '4 2015 NHATS'
      5 = '5 No source'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';

  VALUE inc5imfa
      1 ="1 Reported in NSOC II"
      2 ="2 Reported in NHATS R5 (Spouse/partner of SP)"
      3 ="3 Imputed in NSOC II"
      4 ="4 Imputed in NHATS R5 (Spouse/partner of SP)";

RUN;


/*================================================================*/

/* NSOC_R7_Crss_Combined_PROC_FORMAT_Statement_V2.sas  */

options extendobscounter=no nofmterr;
```

SAS ALGORITHM FOR DEMENTIA

```
PROC FORMAT;
  VALUE $RFDK_F
    '-7' = '-7 RF'
    '-8' = '-8 DK'
    '-1' = '-1 Inapplicable'
    '-9' = '-9 Missing'
;
  VALUE RFDK_F
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
;
  VALUE RFDK_S
    997 ='997 Hours vary each week'
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
;
  VALUE RFDK_Y
     1 = ' 1 Yes'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
;


   VALUE W0000001W
    1 = "1 YES"
    2 = "2 NO"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
;

  VALUE W0000002W
    1 = "1 MALE"
    2 = "2 FEMALE"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
```

SAS ALGORITHM FOR DEMENTIA

```
    -9 = '-9 Missing'
;
  VALUE W000003W
    1 = "1 SAMPLE PERSON"
    2 = "2 SPOUSE/PARTNER"
    3 = "3 DAUGHTER"
    4 = "4 SON"
    5 = "5 DAUGHTER-IN-LAW"
    6 = "6 SON-IN-LAW"
    7 = "7 STEPDAUGHTER"
    8 = "8 STEPSON"
    9 = "9 SISTER"
    10 = "10 BROTHER"
    11 = "11 SISTER-IN-LAW"
    12 = "12 BROTHER-IN-LAW"
    13 = "13 MOTHER"
    14 = "14 STEPMOTHER"
    15 = "15 MOTHER-IN-LAW"
    16 = "16 FATHER"
    17 = "17 STEPFATHER"
    18 = "18 FATHER-IN-LAW"
    19 = "19 GRANDDAUGHTER"
    20 = "20 GRANDSON"
    21 = "21 NIECE"
    22 = "22 NEPHEW"
    23 = "23 AUNT"
    24 = "24 UNCLE"
    25 = "25 COUSIN"
    26 = "26 STEPDAUGHTER'S SON/DAUGHTER"
    27 = "27 STEPSON'S SON/DAUGHTER"
    28 = "28 DAUGHTER-IN-LAW'S SON/DAUGHTER"
    29 = "29 SON-IN-LAW'S SON/DAUGHTER"
    30 = "30 BOARDER/RENTER"
    31 = "31 LIVE-IN HOUSEKEEPER/EMPLOYEE"
    32 = "32 ROOMMATE"
    33 = "33 EX-WIFE/EX-HUSBAND"
    34 = "34 BOYFRIEND/GIRLFIEND"
    35 = "35 NEIGHBOR"
    36 = "36 FRIEND"
    37 = "37 STAFF PERSON AT THE PLACE SP LIVES"
    38 = "38 CO-WORKER"
    39 = "39 MINISTER, PRIEST, OR OTHER CLERGY"
    40 = "40 PSYCHIATRIST, PSYCHOLOGIST, COUNSELOR, OR THERAPIST"
    91 = "91 OTHER RELATIVE"
    92 = "92 OTHER NONRELATIVE"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
;
```

SAS ALGORITHM FOR DEMENTIA

```
    VALUE W000004W
    1 = "1 White, non-Hispanic"
    2 = "2 Black, non-Hispanic"
    3 = "3 Other (Am Indian/Asian/Native Hawaiian/Pacific Islander/other
specify), non-Hispanic"
    4 = "4 Hispanic"
    5 = "5 More than one and DKRF primary"
    6 = "6 DKRF"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
;
 VALUE W000005W
    1='1 Yes - Breakoff'
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
;
 VALUE W000006W
    1 = '1 30 days or less'
    2 = '2 31-60 days'
    3 = '3 61-90 days'
    4 = '4 91-120 days'
    5 = '5 121 days or more'
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
;
  VALUE W000013W
    1 = "1 YES"
    2 = "2 NO"
    7 = "7 SP DOES NOT TAKE ANY PRESCRIBED MEDICINES"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
;
  VALUE W000014W
    2 = "2 Helped last month, SP alive"
    3 = "3 Helped last month of life, SP deceased"
    4 = "4 Did not help last month or in last month of life"
    -2 = '-2 Helped last month, SP alive'
```

```
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
;
  VALUE W000017W
    1 = "1 EVERY DAY"
    2 = "2 MOST DAYS"
    3 = "3 SOME DAYS"
    4 = "4 RARELY"
    5 = "5 NEVER"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
;

  VALUE W000018W
    1 = "1 JANUARY"
    2 = "2 FEBRUARY"
    3 = "3 MARCH"
    4 = "4 APRIL"
    5 = "5 MAY"
    6 = "6 JUNE"
    7 = "7 JULY"
    8 = "8 AUGUST"
    9 = "9 SEPTEMBER"
    10 = "10 OCTOBER"
    11 = "11 NOVEMBER"
    12 = "12 DECEMBER"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';


  VALUE W000019W
    1 = "1 EVERY DAY"
    2 = "2 MOST DAYS"
    3 = "3 SOME DAYS"
    4 = "4 RARELY"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
    ;
```

SAS ALGORITHM FOR DEMENTIA

```
VALUE W000020W
  1 = "1 YES"
  2 = "2 NO OR NOT ENOUGH"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
  -4 = '-4 Did not help last month or in last month of life'
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
;

VALUE W000021W
  1 = "1 REGULAR SCHEDULE"
  2 = "2 VARIED"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
  -4 = '-4 Did not help last month or in last month of life'
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
;

VALUE W000022W
  1 = "1 LESS THAN HALF"
  2 = "2 ABOUT HALF"
  3 = "3 MORE THAN HALF"
  4 = "4 NEARLY ALL"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
  -4 = '-4 Did not help last month or in last month of life'
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
;

VALUE W000023W
  1 = "1 NUMBER OF YEARS"
  2 = "2 DATE"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
  -4 = '-4 Did not help last month or in last month of life'
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
;

VALUE W000024W
  1 = "1 A LOT"
  2 = "2 SOME"
  3 = "3 A LITTLE"
  4 = "4 NOT AT ALL"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
```

```
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;


  VALUE W000025W
    1 = "1 VERY MUCH"
    2 = "2 SOMEWHAT"
    3 = "3 NOT SO MUCH"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;

  VALUE W000026W
    1 = "1 A LITTLE DIFFICULT"
    2 = "2 "
    3 = "3 "
    4 = "4 "
    5 = "5 VERY DIFFICULT"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
;

  VALUE W000027W
    1 = "1 VERY DIFFICULT"
    2 = "2 SOMEWHAT DIFFICULT"
    3 = "3 A LITTLE DIFFICULT"
    4 = "4 NOT AT ALL DIFFICULT"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;
  VALUE W000028W
    1 = "1 MORE THAN FAIR SHARE"
    2 = "2 LESS THAN FAIR SHARE"
    3 = "3 FAIR AMOUNT"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
```

```
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;
  VALUE W000029W
    1 = "1 YES"
    2 = "2 NO OR NOT ENOUGH"
    3 = "3 DOES NOT APPLY"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;
VALUE W000030W
    1 = "1 ALWAYS"
    2 = "2 USUALLY"
    3 = "3 SOMETIMES"
    4 = "4 NEVER"
    5 = "5 DOES NOT APPLY"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;

  VALUE W000031W
    1 = "1 OFTEN"
    2 = "2 SOMETIMES"
    3 = "3 RARELY"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;

  VALUE W000032W
    1 = "1 A LOT"
    2 = "2 SOMEWHAT"
    3 = "3 A LITTLE"
    4 = "4 NOT AT ALL"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
```

```
;

VALUE W000033W
  1 = "1 USUAL PROVIDER "
  2 = "2 SOMEONE ELSE"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
  -4 = '-4 Did not help last month or in last month of life'
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
;

VALUE W000034W
  1 = "1 ALWAYS"
  2 = "2 USUALLY"
  3 = "3 SOMETIMES"
  4 = "4 NEVER"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
  -4 = '-4 Did not help last month or in last month of life'
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
;

VALUE W000035W
  1 = "1 SP'S HOME"
  2 = "2 ANOTHER FACILITY"
  3 = "3 RESPONDENT'S HOME"
  91 = "91 ANOTHER PLACE (SPECIFY)"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
  -4 = '-4 Did not help last month or in last month of life'
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
;

VALUE W000036W
  1 = "1 WALK/WALKED"
  2 = "2 DRIVE/DROVE"
  3 = "3 SOMEONE DRIVES/DROVE ME"
  4 = "4 TAXI/UBER/LYFT"
  5 = "5 BUS"
  6 = "6 SUBWAY/LIGHTRAIL"
  7 = "7 TRAIN"
  8 = "8 AIRPLANE/FLY/FLEW"
  91 = "91 OTHER (SPECIFY)"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
  -4 = '-4 Did not help last month or in last month of life'
  -7 = '-7 RF'
  -8 = '-8 DK'
```

```
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;

  VALUE W000037W
    1 = "1 MINUTES"
    2 = "2 HOURS"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;

  VALUE W000038W
    1 = "1 VERY IMPORTANT"
    2 = "2 SOMEWHAT IMPORTANT"
    3 = "3 NOT SO IMPORTANT"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;

  VALUE W000039W
    1 = "1 EXCELLENT"
    2 = "2 VERY GOOD"
    3 = "3 GOOD"
    4 = "4 FAIR"
    5 = "5 POOR"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;

VALUE W000041W
    1 = "1 EVERY NIGHT"
    2 = "2 MOST NIGHTS"
    3 = "3 SOME NIGHTS"
    4 = "4 RARELY"
    5 = "5 NEVER"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
```

```
  ;

  VALUE W000042W
    1 = "1 NOT AT ALL"
    2 = "2 SEVERAL DAYS"
    3 = "3 MORE THAN HALF THE DAYS"
    4 = "4 NEARLY EVERY DAY"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'

  ;

  VALUE W000043W
    1 = "1 AGREE STRONGLY"
    2 = "2 AGREE SOMEWHAT"
    3 = "3 DISAGREE SOMEWHAT"
    4 = "4 DISAGREE STRONGLY"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'

  ;

  VALUE W000044W
    1 = "1 MARRIED"
    2 = "2 LIVING WITH A PARTNER"
    3 = "3 SEPARATED"
    4 = "4 DIVORCED"
    5 = "5 WIDOWED"
    6 = "6 NEVER MARRIED"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'

  ;

  VALUE W000045W
    1 = "1 NO SCHOOLING COMPLETED"
    2 = "2 1ST-8TH GRADE"
    3 = "3 9TH-12TH GRADE (NO DIPLOMA)"
    4 = "4 HIGH SCHOOL GRADUATE (HIGH SCHOOL DIPLOMA OR EQUIVALENT)"
    5 = "5 VOCATIONAL, TECHNICAL, BUSINESS, OR TRADE SCHOOL CERTIFICATE OR
DIPLOMA (BEYOND HIGH SCHOOL LEVEL)"
```

```
    6 = "6 SOME COLLEGE BUT NO DEGREE"
    7 = "7 ASSOCIATE'S DEGREE"
    8 = "8 BACHELOR'S DEGREE"
    9 = "9 MASTER'S, PROFESSIONAL, OR DOCTORAL DEGREE"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'

;

VALUE W000046W
    1 = "1 WHITE/CAUCASIAN"
    2 = "2 BLACK/AFRICAN AMERICAN"
    3 = "3 AMERICAN INDIAN/ALASKA NATIVE"
    4 = "4 ASIAN"
    5 = "5 NATIVE HAWAIIAN/PACIFIC ISLANDER"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'

;

VALUE W000047W
    1 = "1 YES"
    2 = "2 NO"
    3 = "3 RETIRED/DON'T WORK ANYMORE"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'

;

VALUE W000048W
    1 = "1 YES, LOOKING FOR A JOB"
    2 = "2 YES, ON LAYOFF"
    3 = "3 NO"
    4 = "4 RETIRED/DON'T WORK ANYMORE"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
```

```
;

VALUE W000049W
  1 = "1 DAYTIME"
  2 = "2 SOME OTHER SCHEDULE"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
  -4 = '-4 Did not help last month or in last month of life'
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'

;

VALUE W000050W
  1 = "1 ENTER NUMBER OF HOURS"
  2 = "2 ENTER NUMBER OF DAYS"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
  -4 = '-4 Did not help last month or in last month of life'
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'

;

VALUE W000051W
  1 = "1 8-HOUR DAYS"
  2 = "2 SOMETHING LESS"
  3 = "3 SOMETHING MORE"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
  -4 = '-4 Did not help last month or in last month of life'
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'

;

VALUE W000052W
  1 = "1 ENTER OCCUPATION"
  2 = "2 CURRENT OCCUPATION SAME"
  97 = "97 NEVER WORKED ENTIRE LIFE"
  98 = "98 HOMEMAKER/RAISED CHILDREN/WORKED IN THE HOME"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
  -4 = '-4 Did not help last month or in last month of life'
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'

;
```

SAS ALGORITHM FOR DEMENTIA

```
  VALUE W000053W
    1 = "1 MEDICARE"
    2 = "2 MEDICAID"
    3 = "3 PRIVATE HEALTH INSURANCE"
    4 = "4 TRICARE/CHAMPVA"
    91 = "91 OTHER (SPECIFY)"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;

  VALUE W000054W
    1 = "1 LESS THAN"
    2 = "2 MORE THAN"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;

  VALUE W000055W
    1 = "1 MORE THAN $1,000"
    2 = "2 LESS THAN $1,000"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;

  VALUE W000056W
    1 = "1 MORE THAN $500"
    2 = "2 LESS THAN $500"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;



VALUE W000057W
    1 = '1 SP interview at 2017 NHATS & alive at NSOC'
    2 = '2 SP 2016 LML'
    3 = '3 SP 2017 LML'
```

```
    4 = '4 SP interview at 2017 & deceased at NSOC'
    5 = '5 SP interview at 2017 & more than 1 caregiver & at least 1
caregiver reports SP deceased at NSOC'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
;
VALUE W000059W
        1 = '1 CG eligible for cross-sectional sample '
        -7 = '-7 RF'
        -8 = '-8 DK'
        -1 = '-1 Inapplicable'
        -9 = '-9 Missing'
;
VALUE W000058W
        1 = '1 SP has eligible caregiver'
        -7 = '-7 RF'
        -8 = '-8 DK'
        -1 = '-1 Inapplicable'
        -9 = '-9 Missing'
;
VALUE W000060W
1 = '1 Eligible and interviewed'
2 = '2 Eligible and not interviewed phone number provided'
3 = '3 Eligible and not interviewed SP refused'
4 = '4 Eligible and not interviewed other'
5 = '5 eligible and not fielded for NSOC not present in R5 or R7'
6 = '6 >5 caregivers and not sampled'
7 = '7 Named by SP but Ineligible'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
;
VALUE W000061W
1 ='1 Helper eligible for cross-sectional NSOC'
-1 ='-1 Inapplicable'
;
VALUE W000062W
1 = '1 NSOC Interview Complete'
-1 = '-1 Inapplicable'
;
VALUE W000063W
1 = '1 OP named as helper in NHATS interview'
-1 = '-1 Inapplicable'
;
VALUE W000064W
1 = '1 SP eligible for cross-sectional NSOC'
-1 = '-1 Ineligible'
;
  VALUE OCC_CODE
1   ='1 Management Occupations: 0010-0430'
2   ='2 Business and Financial Operations Occupations:  0500-0950'
3   ='3 Computer and mathematical occupations:  1000-1240'
4   ='4 Architecture and Engineering Occupations:   1300-1560'
5   ='5 Life, Physical, and Social Science Occupations: 1600-1965'
```

```
6   ='6 Community and Social Service Occupations:   2000-2060'
7   ='7 Legal Occupations:  2100-2160'
8   ='8 Education, Training, and Library Occupations:   2200-2550'
9   ='9 Arts, Design, Entertainment, Sports, and Media Occupations: 2600-
2960'
10  ='10 Healthcare Practitioners and Technical Occupations:    3000-3540'
11  ='11 Healthcare Support Occupations:    3600-3655'
12  ='12 Protective Service Occupations:    3700-3955'
13  ='13 Food Preparation and Serving Related Occupations:  4000-4160'
14  ='14 Building and Grounds Cleaning and Maintenance Occupations: 4200-
4250'
15  ='15 Personal Care and Service Occupations: 4300-4650'
16  ='16 Sales and Related Occupations: 4700-4965'
17  ='17 Office and Administrative Support Occupations: 5000-5940'
18  ='18 Farming, Fishing, and Forestry Occupations:    6000-6130'
19  ='19 Construction and Extraction Occupations:   6200-6940'
20  ='20 Installation, Maintenance, and Repair Occupations: 7000-7630'
21  ='21 Production Occupations:    7700-8965'
22  ='22 Transportation and Material Moving Occupations:    9000-9750'
23  ='23 Military Specific Occupations: 9800-9830'
24  ='24 No current occ (Unemployed, no work in the last 5 years, never
worked):  9920'
25 = '25 Blank field'
26 = '26 Code did not match'
94 = '94 Uncodable'
95 = '95 Never Worked Entire Life'
96 = '96 Homemaker/Raised Children'
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
;

value OCC_SI /*with categories for distribution checking*/
11  = '11 Agriculture, Forestry, Fishing and Hunting'
21  = '21 Mining, Quarrying, and Oil and Gas Extraction'
22  = '22 Utilities'
23  = '23 Construction'
31  ='31-33 Manufacturing'
32  ='31-33 Manufacturing'
33  ='31-33 Manufacturing'
42  = '42 Wholesale Trade'
44 = '44-45 Retail Trade'
45 = '44-45 Retail Trade'
48 = '48-49 Transportation and Warehousing'
49 = '48-49 Transportation and Warehousing'
51  = '51 Information'
52  = '52 Finance and Insurance'
53  = '53 Real Estate and Rental and Leasing'
54  = '54 Professional, Scientific, and Technical Services'
55  = '55 Management of Companies and Enterprises'
56  = '56 Administrative and Support and Waste Management and Remediation
Services'
61  = '61 Educational Services'
```

```
62  = '62 Health Care and Social Assistance'
71  = '71 Arts, Entertainment, and Recreation'
72  = '72 Accommodation and Food Services'
81  = '81 Other Services (except Public Administration)'
92  = '92 Public Administration'
94 = "94  Uncodeable"
99  = '99 None'
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing' ;
  VALUE inc7imfa
      -4 ="-4 Did not help last month or in last month of life"
      1 ="1 Reported in NSOC III"
      2 ="2 Reported in NHATS R7 (Spouse/partner of SP)"
      3 ="3 Imputed in NSOC III"
      4 ="4 Imputed in NHATS R7 (Spouse/partner of SP)" ;
RUN;


/* Import NSOC data sets*/

%LET filepath10=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive
Data Files\Round 1\NHATS Round 1 NSOC Files\SAS;
%LET filepath11=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive
Data Files\Round 2\NHATS Round 2 NSOC Files\SAS;
%LET filepath12=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive
Data Files\Round 3\NHATS Round 3 NSOC Files\SAS;
%LET filepath13=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive
Data Files\Round 4\NHATS Round 4 NSOC Files\SAS;
%LET filepath14=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive
Data Files\Round 5\NHATS Round 5 NSOC Files\SAS;
%LET filepath15=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive
Data Files\Round 6\NHATS Round 6 NSOC Files\SAS;
%LET filepath16=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive
Data Files\Round 7\NHATS Round 7 NSOC Files\Cross-Sectional File\SAS;
%LET filepath17=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive
Data Files\Round 8\NHATS Round 8 NSOC Files\SAS;
%LET filepath18=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive
Data Files\Round 9\NHATS Round 9 NSOC Files\SAS;

DATA NSOCR1;
 SET "&filepath10\NSOC_Round_1_File_V3";
 RUN;


DATA NSOCR5;
 SET "&filepath14\NSOC_Round_5_File_V4";
 RUN;

DATA NSOCR7;
 SET "&filepath16\NSOC_R7_Crss_File_V2";
 RUN;
 /*Sort data sets   */
```

SAS ALGORITHM FOR DEMENTIA

```
PROC SORT DATA = NSOCR1;
 BY SPID OPID;
RUN;

PROC SORT DATA = NSOCR5;
 BY SPID OPID;
RUN;

PROC SORT DATA = NSOCR7;
 BY SPID OPID;
RUN;


DATA NSOCR1;
 SET NSOCR1;
 OPIDR1=OPID;
RUN;


DATA NSOCR5;
 SET NSOCR5;
 OPIDR5=OPID;
RUN;


DATA NSOCR7;
 SET NSOCR7;
 OPIDR7=OPID;
RUN;

DATA NSOC_R1_R5_R7;
 MERGE NSOCR1 NSOCR5 NSOCR7;
 BY SPID OPID;
RUN;


DATA NSOC_R1_R5_R7_simple;
 SET NSOC_R1_R5_R7;
 Cluster = 2;
 IF SPID <= 10012411 THEN Cluster = 1;
 KEEP SPID OPID OPIDR1 OPIDR5 OPIDR7 ;
RUN;


proc export data= NSOC_R1_R5_R7_simple
 outfile= "C:\UB\Projects\2019\Suzanne Sullivan\R03 project\Analysis 6-15-
21\NSOC_R1_R5_R7_simple.sav";
run;


DATA NSOC_R1_R5_R7 (drop=i);;
 SET NSOC_R1_R5_R7;
 array OPID_call{*} OPIDR1 OPIDR5 OPIDR7;
 array OPID_count{*} OPIDR1 OPIDR5 OPIDR7;
 DO i = 1 to dim(OPID_call);
   OPID_count{i} =   OPID_call{i};
```

```
  IF OPID_call{i} ^= . THEN OPID_count{i} = 1;  /* meaning interviewed  */
  IF OPID_call{i} = . THEN OPID_count{i} = 0;
  OPID_count_sum = sum(of OPID_count{*});
 END;
  cdchlphrsdy_sum= sum(cdc1hlphrsdy, cdc5hlphrsdy, cdc7hlphrsdy);
  OPID_count_cdchlphrsdy_sum=sum(OPID_count_sum,cdchlphrsdy_sum);
 RUN;


DATA NSOC_R1_R5_R7_simple_1;
 SET NSOC_R1_R5_R7;
 KEEP SPID OPID OPIDR1 OPIDR5 OPIDR7 OPID_count_sum cdc1hlphrsdy cdc5hlphrsdy
cdc7hlphrsdy cdchlphrsdy_sum OPID_count_cdchlphrsdy_sum;
RUN;


proc export data= NSOC_R1_R5_R7_simple_1
 outfile= "C:\UB\Projects\2019\Suzanne Sullivan\R03 project\Analysis 6-15-
21\NSOC_R1_R5_R7_simple_1.sav";
run;


PROC SORT DATA=NSOC_R1_R5_R7  OUT=NSOC_R1_R5_R7;
  BY SPID OPID_count_sum  cdchlphrsdy_sum;
 RUN;


 DATA NSOC_R1_R5_R7_simple_2;
  SET NSOC_R1_R5_R7;
   KEEP SPID OPID OPIDR1 OPIDR5 OPIDR7 OPID_count_sum cdc1hlphrsdy
cdc5hlphrsdy cdc7hlphrsdy cdchlphrsdy_sum OPID_count_cdchlphrsdy_sum;
RUN;


proc export data= NSOC_R1_R5_R7_simple_2
 outfile= "C:\UB\Projects\2019\Suzanne Sullivan\R03 project\Analysis 6-15-
21\NSOC_R1_R5_R7_simple_2.sav";
run;


 DATA NSOC_R1_R5_R7_simple_061521;
  SET NSOC_R1_R5_R7;
   BY SPID;
   IF last.SPID;
   Cluster = 2;
   IF SPID <= 10012411 THEN Cluster = 1;
   OPID_interview = OPID;
   KEEP SPID OPID OPID_interview Cluster;
  RUN;

proc export data= NSOC_R1_R5_R7_simple_061521
 outfile= "C:\UB\Projects\2019\Suzanne Sullivan\R03 project\Analysis 6-15-
21\NSOC_R1_R5_R7_simple_061521.sav";
run;
```