TITLE2 'AVERAGE TOTAL HEALTHCARE EXPENDITURES, 1996 - 1999';

37

```
38 TITLE3 ' ';
39
40 PROC FORMAT;
41 VALUE AGEF
42 0-5 = 'AGE 0-5'
43 OTHER = 'OTHER';
NOTE: Format AGEF has been output.
44 RUN;
```

```
45
          /**** THESE DATA STEPS READ IN THE REQUIRED VARIABLES FROM THE *****/
46
47
          /**** FULL-YEAR FILES.
48
          /**** AGEYYX VARIABLE USED TO DISTINGUISH THE 0-5 POPULATION. *****/
49
50
           /****
51
                                     1996 DATA
                                                                          ****/
52
          /**** FOR LATER POOLING, CREATE A VARIABLE 'TOTEXP' THAT IS
          /**** STANDARDIZED TO 1999 DOLLARS BY MULTIPLYING TOTEXP96 BY *****/
53
                                                                          ****/
54
          /***** (CPI_1999 / CPI_1996).
55
56
          DATA H12;
57
             SET CMEPS.H12 (KEEP= DUPERSID TOTEXP96 WTDPER96 VARPSU96
58
                                     VARSTR96 AGE96X);
59
             TOTEXP = TOTEXP96 * (166.6/156.9);
60
          RUN;
NOTE: There were 22601 observations read from the data set CMEPS.H12.
NOTE: The data set WORK.H12 has 22601 observations and 7 variables.
61
          /****
                                                                         *****/
62
                                    1997 DATA
63
          /***** FOR LATER POOLING, CREATE A VARIABLE 'TOTEXP' THAT IS
          /**** STANDARDIZED TO 1999 DOLLARS BY MULTIPLYING TOTEXP97 BY *****/
64
          /***** (CPI_1999 / CPI_1997).
65
66
67
          DATA H20;
68
             SET CMEPS.H20 (KEEP= DUPERSID TOTEXP97 WTDPER97 VARPSU97
69
                                     VARSTR97 AGE97X);
70
             TOTEXP = TOTEXP97 * (166.6/160.5);
71
NOTE: There were 34551 observations read from the data set CMEPS.H20.
NOTE: The data set WORK.H20 has 34551 observations and 7 variables.
72
73
                                                                          ****/
                                    1998 DATA
                                                                          ****/
74
          /**** FOR LATER POOLING, CREATE A VARIABLE 'TOTEXP' THAT IS
          /**** STANDARDIZED TO 1999 DOLLARS BY MULTIPLYING TOTEXP98 BY *****/
75
                                                                          *****/
76
          /***** (CPI_1999 / CPI_1998).
77
78
          DATA H28;
79
             SET CMEPS.H28 (KEEP= DUPERSID TOTEXP98 WTDPER98 VARPSU98
80
                                     VARSTR98 AGE98X);
81
             TOTEXP = TOTEXP98 * (166.6/163.0);
82
          RUN;
NOTE: There were 24072 observations read from the data set CMEPS.H28.
NOTE: The data set WORK.H28 has 24072 observations and 7 variables.
83
           /****
                                                                          *****/
84
                                    1999 DATA
85
```

87 SET CMEPS.H38 (KEEP= DUPERSID TOTEXP99 PERWT99F VARPSU99 88 VARSTR99 AGE99X); 89 RUN; NOTE: There were 24618 observations read from the data set CMEPS.H38. NOTE: The data set WORK.H38 has 24618 observations and 6 variables. 90 91 TITLE4 '1996 DATA'; 92 93 PROC SURVEYMEANS DATA= H12 NOBS SUMWGT MEAN STDERR CLM; 94 VAR TOTEXP96; 95 STRATA VARSTR96; 96 CLUSTER VARPSU96;	86	DATA H38;
89 RUN; NOTE: There were 24618 observations read from the data set CMEPS.H38. NOTE: The data set WORK.H38 has 24618 observations and 6 variables. 90 91 TITLE4 '1996 DATA'; 92 93 PROC SURVEYMEANS DATA= H12 NOBS SUMWGT MEAN STDERR CLM; 94 VAR TOTEXP96; 95 STRATA VARSTR96;	87	SET CMEPS.H38 (KEEP= DUPERSID TOTEXP99 PERWT99F VARPSU99
NOTE: There were 24618 observations read from the data set CMEPS.H38. NOTE: The data set WORK.H38 has 24618 observations and 6 variables. 90 91	88	VARSTR99 AGE99X);
NOTE: The data set WORK.H38 has 24618 observations and 6 variables. 90 91	89	RUN;
90 91 TITLE4 '1996 DATA'; 92 93 PROC SURVEYMEANS DATA= H12 NOBS SUMWGT MEAN STDERR CLM; 94 VAR TOTEXP96; 95 STRATA VARSTR96;	NOTE: T	here were 24618 observations read from the data set CMEPS.H38.
91 TITLE4 '1996 DATA'; 92 93 PROC SURVEYMEANS DATA= H12 NOBS SUMWGT MEAN STDERR CLM; 94 VAR TOTEXP96; 95 STRATA VARSTR96;	NOTE: T	he data set WORK.H38 has 24618 observations and 6 variables.
92 93 PROC SURVEYMEANS DATA= H12 NOBS SUMWGT MEAN STDERR CLM; 94 VAR TOTEXP96; 95 STRATA VARSTR96;	90	
93 PROC SURVEYMEANS DATA= H12 NOBS SUMWGT MEAN STDERR CLM; 94 VAR TOTEXP96; 95 STRATA VARSTR96;	91	TITLE4 '1996 DATA';
94 VAR TOTEXP96; 95 STRATA VARSTR96;	92	
95 STRATA VARSTR96;	93	PROC SURVEYMEANS DATA= H12 NOBS SUMWGT MEAN STDERR CLM;
***************************************	94	VAR TOTEXP96;
96 CLUSTER VARPSU96;	95	STRATA VARSTR96;
	96	CLUSTER VARPSU96;

```
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97
              WEIGHT WTDPER96;
98
              DOMAIN AGE96X;
99
              FORMAT AGE96X AGEF.;
100
NOTE: Due to nonpositive weights, 1030 observation(s) were deleted.
NOTE: Only one cluster in a stratum in domain AGE96X for variable(s) TOTEXP96. The variance of TOTEXP96 in that stratum is
      estimated by zero.
NOTE: There were 22601 observations read from the data set WORK.H12.
NOTE: The PROCEDURE SURVEYMEANS printed page 1.
101
102
           TITLE4 '1997 DATA';
103
104
          PROC SURVEYMEANS DATA= H20 NOBS SUMWGT MEAN STDERR CLM;
105
             VAR TOTEXP97;
106
             STRATA VARSTR97;
107
             CLUSTER VARPSU97;
108
             WEIGHT WTDPER97;
109
             DOMAIN AGE97X;
110
              FORMAT AGE97X AGEF.;
111
           RUN;
NOTE: Due to nonpositive weights, 1915 observation(s) were deleted.
NOTE: Only one cluster in a stratum in domain AGE97X for variable(s) TOTEXP97. The variance of TOTEXP97 in that stratum is
      estimated by zero.
NOTE: There were 34551 observations read from the data set WORK.H20.
NOTE: The PROCEDURE SURVEYMEANS printed page 2.
112
113
           TITLE4 '1998 DATA';
114
115
           PROC SURVEYMEANS DATA= H28 NOBS SUMWGT MEAN STDERR CLM;
116
             VAR TOTEXP98;
117
             STRATA VARSTR98;
118
             CLUSTER VARPSU98;
119
              WEIGHT WTDPER98;
120
              DOMAIN AGE98X;
121
             FORMAT AGE98X AGEF. ;
122
           RUN;
NOTE: Due to nonpositive weights, 1119 observation(s) were deleted.
NOTE: There were 24072 observations read from the data set WORK.H28.
NOTE: The PROCEDURE SURVEYMEANS printed page 3.
123
124
           TITLE4 '1999 DATA';
125
          PROC SURVEYMEANS DATA= H38 NOBS SUMWGT MEAN STDERR CLM;
126
127
             VAR TOTEXP99;
128
              STRATA VARSTR99;
129
             CLUSTER VARPSU99;
130
              WEIGHT PERWT99F;
```

131

DOMAIN AGE99X;

```
132
         FORMAT AGE99X AGEF.;
133
          RUN;
NOTE: Due to nonpositive weights, 1053 observation(s) were deleted.
NOTE: Only one cluster in a stratum in domain AGE99X for variable(s) TOTEXP99. The variance of TOTEXP99 in that stratum is
     estimated by zero.
NOTE: There were 24618 observations read from the data set WORK.H38.
NOTE: The PROCEDURE SURVEYMEANS printed page 4.
134
                                                                        *****/
135
          /**** POOL 1996 AND 1997 DATA
                                                                        *****/
          /**** DIVIDE WEIGHT VARIABLE (POOLWT) by 2.
136
137
138
          DATA POOL9697 (KEEP= DUPERSID TOTEXP AGE POOLWT);
```

```
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                                                           The SAS System
139
             SET H12 (RENAME=(WTDPER96 = POOLWT AGE96X = AGE))
140
                   H20 (RENAME=(WTDPER97 = POOLWT AGE97X = AGE));
141
             IF POOLWT > 0
142
                 THEN POOLWT = POOLWT / 2 ;
143
          RUN;
NOTE: There were 22601 observations read from the data set WORK.H12.
NOTE: There were 34551 observations read from the data set WORK.H20.
NOTE: The data set WORK.POOL9697 has 57152 observations and 4 variables.
144
145
          /**** GET STRATUM AND PSU VARIABLES FROM HC-036.
                                                                           *****/
146
147
          DATA H36;
148
             SET CMEPS.H36 (KEEP= DUPERSID STRA9602 PSU9602);
149
          RUN;
NOTE: There were 115904 observations read from the data set CMEPS.H36.
NOTE: The data set WORK. H36 has 115904 observations and 3 variables.
150
151
          PROC SORT DATA= POOL9697;
152
             BY DUPERSID;
153
          RUN;
NOTE: SAS sort was used.
NOTE: There were 57152 observations read from the data set WORK.POOL9697.
NOTE: The data set WORK.POOL9697 has 57152 observations and 4 variables.
154
155
          DATA POOL9697;
156
             MERGE POOL9697 (IN= A) H36 (IN= B);
157
             BY DUPERSID;
158
             IF A AND B;
159
          RUN;
NOTE: There were 57152 observations read from the data set WORK.POOL9697.
NOTE: There were 115904 observations read from the data set WORK.H36.
NOTE: The data set WORK.POOL9697 has 57152 observations and 6 variables.
160
161
          TITLE4 'POOLED 1996-1997 DATA';
162
          TITLE5 'EXPENDITURES STANDARDIZED TO 1999 DOLLARS';
163
          PROC SURVEYMEANS DATA= POOL9697 NOBS SUMWGT MEAN STDERR CLM;
164
165
             VAR TOTEXP;
166
             STRATA STRA9602;
167
             CLUSTER PSU9602;
168
             WEIGHT POOLWT;
169
             DOMAIN AGE;
170
             FORMAT AGE AGEF. ;
171
          RUN;
```

NOTE: Due to nonpositive weights, 2945 observation(s) were deleted.

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```
NOTE: Only one cluster in a stratum in domain AGE for variable(s) TOTEXP. The variance of TOTEXP in that stratum is estimated by
NOTE: There were 57152 observations read from the data set WORK.POOL9697.
NOTE: The PROCEDURE SURVEYMEANS printed page 5.
172
       /**** POOL 1998 AND 1999 DATA
                                                                     *****/
173
                                                                    ****/
174
         /**** DIVIDE WEIGHT VARIABLE (POOLWT) by 2.
175
176
         DATA POOL9899 (KEEP= DUPERSID TOTEXP AGE POOLWT);
177
         SET H28 (RENAME=(WTDPER98 = POOLWT AGE98X = AGE))
178
            H38 (RENAME=(TOTEXP99= TOTEXP PERWT99F = POOLWT
179
                                 AGE99X = AGE));
180 IF POOLWT > 0
```

```
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                                                           The SAS System
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181
                 THEN POOLWT = POOLWT / 2 ;
182
          RUN;
NOTE: There were 24072 observations read from the data set WORK.H28.
NOTE: There were 24618 observations read from the data set WORK.H38.
NOTE: The data set WORK.POOL9899 has 48690 observations and 4 variables.
183
                                                                           *****/
184
          /**** MERGE ON *STRA9602* AND *PSU9602* FROM HC036
185
186
          PROC SORT DATA= POOL9899;
187
             BY DUPERSID;
188
          RUN;
NOTE: SAS sort was used.
NOTE: There were 48690 observations read from the data set WORK.POOL9899.
NOTE: The data set WORK.POOL9899 has 48690 observations and 4 variables.
189
190
          DATA POOL9899;
191
             MERGE POOL9899 (IN= A) H36 (IN= B);
192
             BY DUPERSID;
193
             IF A AND B;
194
NOTE: There were 48690 observations read from the data set WORK.POOL9899.
NOTE: There were 115904 observations read from the data set WORK.H36.
NOTE: The data set WORK.POOL9899 has 48690 observations and 6 variables.
195
196
          TITLE4 'POOLED 1998-1999 DATA';
197
          TITLE5 'EXPENDITURES STANDARDIZED TO 1999 DOLLARS';
198
199
          PROC SURVEYMEANS DATA= POOL9899 NOBS SUMWGT MEAN STDERR CLM;
200
             VAR TOTEXP;
201
             STRATA STRA9602;
202
             CLUSTER PSU9602;
203
             WEIGHT POOLWT;
204
             DOMAIN AGE;
205
             FORMAT AGE AGEF. ;
206
          RUN;
NOTE: Due to nonpositive weights, 2172 observation(s) were deleted.
NOTE: Only one cluster in a stratum in domain AGE for variable(s) TOTEXP. The variance of TOTEXP in that stratum is estimated by
NOTE: There were 48690 observations read from the data set WORK.POOL9899.
NOTE: The PROCEDURE SURVEYMEANS printed page 6.
207
208
```

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414

AHRQ MEPS DATA USERS WORKSHOP (ESTIMATION) -- NOV/DEC 2004

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AVERAGE TOTAL HEALTHCARE EXPENDITURES, 1996 - 1999

1996 DATA

The SURVEYMEANS Procedure

Data Summary

Number	of	Strata	140
Number	of	Clusters	874
Number	of	Observations	22601
Number	of	Observations Used	21571
Number	of	Obs with Nonpositive Weights	1030
Sum of	Wei	ights	268905490

Statistics

			Sum of		Std Error	Lower 95%	Upper 95%
Variable	Label	N	Weights	Mean	of Mean	CL for Mean	CL for Mean
TOTEXP96	TOTAL HEALTH CARE EXP 96	21571	268905490	2038.057443	69.230247	1902.144538	2173.970347

Domain Analysis: AGE96X

200000 77	T - 1-1		Sum of		Std Error	Lower 95%	Upper 95%
AGE96X Variable		N 	Weights	Mean 	of Mean	CL for Mean	CL for Mean
OTHER TOTEXP96	TOTAL HEALTH CARE EXP 96	19556	245065089	2133.877678	74.080135	1988.443466	2279.311889
AGE 0-5 TOTEXP96	TOTAL HEALTH CARE EXP 96	2015	23840400	1053.082608	157.270693	744.320836	1361.844380

AHRQ MEPS DATA USERS WORKSHOP (ESTIMATION) -- NOV/DEC 2004

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AVERAGE TOTAL HEALTHCARE EXPENDITURES, 1996 - 1999

1997 DATA

The SURVEYMEANS Procedure

Data Summary

Number	of	Strata	254
Number	of	Clusters	1036
Number	of	Observations	34551
Number	of	Observations Used	32636
Number	of	Obs with Nonpositive Weights	1915
Sum of	We	ights	271278585

Statistics

			Sum of		Std Error	Lower 95%	Upper 95%
Variable	Label	N	Weights	Mean	of Mean	CL for Mean	CL for Mean
TOTEXP97	TOTAL HEALTH CARE EXP 97	32636	271278585	2039.383044	58.715868	1924.123667	2154.642421

Domain Analysis: AGE97X

AGE97X	Variable	Label	N	Sum of Weights	Mean	Std Error of Mean	Lower 95% CL for Mean	Upper 95% CL for Mean
OTHER AGE 0-5	TOTEXP97		29562 3074	247550270 23728315	2162.348039 756.526797	63.721715 87.983451	2037.262172 583.814402	2287.433905 929.239192

AHRQ MEPS DATA USERS WORKSHOP (ESTIMATION)	NOV/DEC 2004	3
AVERAGE TOTAL HEALTHCARE EXPENDITURES,	1996 - 1999	13:08 Saturday, November 20, 2004

3

1998 DATA

The SURVEYMEANS Procedure

Data Summary

Number of Strata	100
Number of Clusters	420
Number of Observations	24072
Number of Observations Used	22953
Number of Obs with Nonpositive Weights	1119
Sum of Weights	273533690

Statistics

			Sum of		Std Error	Lower 95%	Upper 95%
Variable	Label	N	Weights	Mean	of Mean	CL for Mean	CL for Mean
TOTEXP98	TOTAL HEALTH CARE EXP 98	22953	273533690	2049.459689	63.574965	1924.381986	2174.537392

Domain Analysis: AGE98X

AGE98X Variable	Label	Sum of eights Mean	Std Error of Mean	Lower 95% CL for Mean	Upper 95% CL for Mean
OTHER TOTEXP98 AGE 0-5 TOTEXP98		 314919 2168.820660 718772 792.305575	67.787515 102.970466	2035.455166 589.711232	2302.186154 994.899917

AHRQ MEPS DATA USERS WORKSHOP (ESTIMATION) -- NOV/DEC 2004

AVERAGE TOTAL HEALTHCARE EXPENDITURES, 1996 - 1999 13:08 Saturday, November 20, 2004

1999 DATA

The SURVEYMEANS Procedure

Data Summary

Number of Strata	143
Number of Clusters	460
Number of Observations	24618
Number of Observations Used	23565
Number of Obs with Nonpositive Weights	1053
Sum of Weights	276410767

Statistics

			Sum of		Std Error	Lower 95%	Upper 95%
Variable	Label	N	Weights	Mean	of Mean	CL for Mean	CL for Mean
TOTEXP99	TOTAL HEALTH CARE EXP 99	23565	276410767	2156.468447	62.723462	2033.061563	2279.875331

Domain Analysis: AGE99X

AGE99X Variable	Label	N	Sum of Weights	Mean	Std Error of Mean	Lower 95% CL for Mean	Upper 95% CL for Mean
OTHER TOTEXP99 AGE 0-5 TOTEXP99		21411 2154	252576860 23833907	2279.761764 849.882863	66.861336 110.162846	2148.213712 633.126833	2411.309816 1066.638893

AHRQ MEPS DATA USERS WORKSHOP (ESTIMATION) -- NOV/DEC 2004 AVERAGE TOTAL HEALTHCARE EXPENDITURES, 1996 - 1999

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POOLED 1996-1997 DATA EXPENDITURES STANDARDIZED TO 1999 DOLLARS

The SURVEYMEANS Procedure

Data Summary

Number	of	Strata	125
Number	of	Clusters	378
Number	of	Observations	57152
Number	of	Observations Used	54207
Number	of	Obs with Nonpositive Weights	2945
Sum of	We:	ights	270092038

Statistics

Variable	N	Sum of Weights	Mean	Std Error of Mean	Lower 95% CL for Mean	Upper 95% CL for Mean
TOTEXP	54207	270092038	2140.370503	50.732728	2040.458239	2240.282767

Domain Analysis: AGE

AGE	Variable	И	Sum of Weights	Mean	Std Error of Mean	Lower 95% CL for Mean	Upper 95% CL for Mean
OTHER	TOTEXP	49118	246307680	2255.111721	54.318542	2148.137610	2362.085833
AGE 0-5	TOTEXP	5089	23784358	952.125546	98.959794	757.228167	1147.022925

AHRQ MEPS DATA USERS WORKSHOP (ESTIMATION) -- NOV/DEC 2004 AVERAGE TOTAL HEALTHCARE EXPENDITURES, 1996 - 1999

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POOLED 1998-1999 DATA EXPENDITURES STANDARDIZED TO 1999 DOLLARS

The SURVEYMEANS Procedure

Data Summary

Number	of	Strata	125
Number	of	Clusters	373
Number	of	Observations	48690
Number	of	Observations Used	46518
Number	of	Obs with Nonpositive Weights	2172
Sum of	We:	ights	274972228

Statistics

Variable	Label	N	Sum of Weights	Mean	Std Error of Mean	Lower 95% CL for Mean	Upper 95% CL for Mean
TOTEXP	TOTAL HEALTH CARE EXP 99	46518	274972228	2125.757649	56.165925	2015.134611	2236.380687

Domain Analysis: AGE

AGE Variable	Label	Sum of N Weights	rror Lower 95% Mean CL for Mean	Upper 95% CL for Mean
OTHER TOTEXP AGE 0-5 TOTEXP	TOTAL HEALTH CARE EXP 99 TOTAL HEALTH CARE EXP 99	42256 251195889 4262 23776339	 	2366.361784 978.060984