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NOTE: SAS (r) Proprietary Software 9.2 (TS1M0)

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 ${\tt NOTE:}$ This session is executing on the XP_PRO $\ {\tt platform.}$

NOTE: SAS initialization used: real time 0:01.65 user cpu time 0:00.15 system cpu time 0:00.74

Memory 2554k OS Memory 3292k 12/16/2008 1:58:27 PM Timestamp

NOTE: AUTOEXEC processing beginning; file is C:\PROGRA~1\SAS92\SASFOU~1\9.2\autoexec.sas

48

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53 54

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56

NOTE:	AUTOEXEC processing	g beginning; fi	le is C:\PRO)GRA~1\SAS92\SASF	FOU~1\9.2\autoexec.sas.
NOTE:	AUTOEXEC processing	g completed.			
1	/*******	******	*****	******	*******
2					
3	PROGRAM:	C:\MEPS\PROG\	E8.SAS		
4					
5	DESCRIPTION:	THIS PROGRAM	GENERATES TW	O SETS OF EXPEND	DITURE DATA FOR 2005
6					INPATIENT STAYS, SIMILAR TO THOSE REPORTED IN MEPS STAT BRIEF
7					#164 (FIGURES 1 AND 5). STAT BRIEF #164 USED 2004 MEPS DATA.
8					THIS PROGRAM USES 2005 MEPS DATA.
9					
10					ESTIMATES COMPARABLE TO FIGURE 1 ARE BY EVENT TYPE AND BY
11					SOURCE OF PAYMENT FOR INPATIENT (IP) STAY EXPENSES.
12					
13					EVENT TYPE DEFINITIONS:
14					AMBULATION OFFICE DAGED , OVERATION, EMPROPRIOUS DEPARTMENT
15					AMBULATORY: OFFICE-BASED + OUTPATIENT + EMERGENCY DEPARTMENT
16 17					HOSPITAL: HOSPITAL INPATIENT PRESCRIBED MEDICINES: PMED (RX)
18					OTHER: TOTAL EXPENDITURES - (AMBULATORY + HOSPITAL + PMED)
19					OTHER: TOTAL EXPENDITORES - (AMBOLIATORI + HOSPITAL + PMED)
20					NOTES: (1) EXPENSES INCLUDE BOTH FACILITY AND PHYSICIAN EXPENSES.
21					(2) PRIVATE INCLUDES TRICARE, BUT NOT 'OTHER PRIVATE'.
22					(2) IRIVIII INCOODED IRICIRE, DOI NOI OIMER IRIVIII .
23		TOTAL HEA	LTH CARE EXP	: \$963,882,049,5	581
24			\$963.9 BILLI		
25					
26		EVENT TYPES:	2005 DATA	2004 DATA (SB#	‡164)
27					
28	PMED:			20.8%	19.8%
29	HOSPIT	TAL: 30.9%	31.4%	\$	
30	AMBULA	ATORY: 34.7%	35.6%	i i	
31	OTHER:	13.5%	13.28	\$	
32					
33		OSPITAL EXPENSE			
34	FIRST	BULLET IN HIGH	ILIGHTS STATE	ES,	
35		NSES FOR HOSPIT			
36		TED FOR NEARLY			
37	HEALTH	H CARE EXPENSES	3" [30.9%	IN 2005]	
38					
39	IP SOI	es: 2005	DATA 2004	DATA (SB#164)	
40		PRIVATE:	/11 1 °	43.7%	
41 42		MEDICARE:		43.7% 38.8%	
42			10.6%	9.6%	
44		OUT-OF-POCKET		2.2%	
45		OTHER:	6.9%	5.7%	
46			0.20	3.,,	
47		FIGURE 5: TP	EXPENSES PER	STAY AND PER DI	IEM
40					

2005 DATA 2004 DATA (SB#164)

\$14,729

\$ 7,678

\$ 5,059

\$15,160

\$ 8,439

\$ 5,226

PER STAY

W/ SURG

W/0 SURG

PER DIEM

W/ SURG

ERDEXP05 ERFEXP05 IPDEXP05

IPDPRV05 IPFPRV05 IPDTRI05

IPDMCR05 IPFMCR05 IPDMCD05

VARSTR VARPSU PERWT05F);

IPDSLF05 IPFSLF05

```
57
                        W/O SURG
                                     $ 2.173
                                                     $ 1,954
58
                        NOTE: FOR THE SMALL NUMBER OF ZERO NIGHT STAYS, LENGTH
60
                              OF STAY WAS CONSIDERED TO BE ONE.
61
                       (1) C:\MEPS\DATA\H97.SAS7BDAT (2005 FULL-YEAR FILE)
          INPUT FILES:
62
                        (2) C:\MEPS\DATA\H94D.SAS7BDAT (2005 HOSP. IP STAYS)
64
          65
66
67
          FOOTNOTE 'PROGRAM: C:\MEPS\PROG\E8.SAS';
68
          LIBNAME CDATA 'C:\MEPS\DATA';
NOTE: Libref CDATA was successfully assigned as follows:
     Engine:
     Physical Name: C:\MEPS\DATA
70
71
          TITLE1 'AHRO MEPS DATA USERS WORKSHOP -- SEPTEMBER 2008';
72
73
         PROC FORMAT;
74
74
        ! VALUE SURGF
75
               1 = 'SURGERY'
76
                OTHER = 'OTHER';
NOTE: Format SURGF has been output.
          RUN;
NOTE: PROCEDURE FORMAT used (Total process time):
     real time 0:00.09 user cpu time 0:00.01
     system cpu time 0:00.03
     Memory
     OS Memory
                                      3548k
     Timestamp
                        12/16/2008 1:58:27 PM
78
          /* READ IN DATA FROM 2005 CONSOLIDATED DATA FILE (HC-097) */
79
80
          DATA PUF97 (KEEP= TOTAL PRESCRIBED MEDICINES HOSPITAL INPATIENT
81
82
                             AMBULATORY_CARE OTHER
83
                             IP_TOTAL IP_PRIVATE_INS IP_MEDICARE IP_MEDICAID
84
                             IP_OUT_OF_POCKET IP_OTHER VARSTR VARPSU PERWT05F);
                SET CDATA.H97 (KEEP= TOTEXP05 RXEXP05 OBVEXP05 OPDEXP05 OPFEXP05
86
IPFEXP05
IPFTRI05
TPFMCD05
89
90
91
                TOTAL = TOTEXP05;
93
            PRESCRIBED_MEDICINES = RXEXP05;
94
            HOSPITAL_INPATIENT = (IPDEXP05 + IPFEXP05);
            AMBULATORY_CARE = (OBVEXP05 + OPDEXP05 + OPFEXP05 + ERDEXP05 + ERFEXP05);
95
96
            OTHER = TOTAL - (PRESCRIBED_MEDICINES + HOSPITAL_INPATIENT + AMBULATORY_CARE);
97
98
                IP_TOTAL = HOSPITAL_INPATIENT;
           IP_PRIVATE_INS = (IPDPRV05 + IPFPRV05) + (IPDTRI05 + IPFTRI05);
100
            IP_MEDICARE = IPDMCR05 + IPFMCR05;
101
            IP_MEDICAID = IPDMCD05 + IPFMCD05;
102
            IP_OUT_OF_POCKET = IPDSLF05 + IPFSLF05;
            IP_OTHER = IP_TOTAL - (IP_PRIVATE_INS+IP_MEDICARE+IP_MEDICAID+IP_OUT_OF_POCKET);
103
NOTE: There were 33961 observations read from the data set CDATA.H97.
NOTE: The data set WORK.PUF97 has 33961 observations and 14 variables.
NOTE: DATA statement used (Total process time):
     real time
                       0:01.83
     user cpu time
                        0:00.00
      system cpu time
                        0:00.23
                                      653k
     Memory
     OS Memory
                                      4316k
      Timestamp
                   12/16/2008 1:58:29 PM
```

The SAS System

2

```
107
          TITLE3 'FIGURE 1: DISTRIBUTION BY EVENT TYPE';
108
109
          PROC SURVEYMEANS DATA= PUF97 MEAN STDERR SUM STD;
110
                STRATUM VARSTR;
                CLUSTER VARPSU;
111
112
                WEIGHT PERWT05F;
113
                VAR PRESCRIBED_MEDICINES HOSPITAL_INPATIENT AMBULATORY_CARE OTHER TOTAL;
                RATIO PRESCRIBED_MEDICINES HOSPITAL_INPATIENT AMBULATORY_CARE OTHER / TOTAL;
114
115
          RUN;
NOTE: Due to nonpositive weights, 1641 observation(s) were deleted.
NOTE: The PROCEDURE SURVEYMEANS printed page 1.
NOTE: PROCEDURE SURVEYMEANS used (Total process time):
                      0:00.63
     real time
     user cpu time
                        0:00.56
     system cpu time 0:00.07
                                       10801k
      Memory
      OS Memory
                                       14916k
      Timestamp
                        12/16/2008 1:58:30 PM
116
          TITLE3 'FIGURE 1: DISTRIBUTION OF INPATIENT (IP) EXPENSES BY SOURCE OF PAYMENT';
117
118
119
          PROC SURVEYMEANS DATA= PUF97 MEAN STDERR SUM STD;
120
                STRATUM VARSTR;
121
                CLUSTER VARPSU;
                WEIGHT PERWT05F;
122
123
                VAR IP_PRIVATE_INS IP_MEDICARE IP_MEDICAID IP_OUT_OF_POCKET IP_OTHER IP_TOTAL;
124
                RATIO IP_PRIVATE_INS IP_MEDICARE IP_MEDICAID IP_OUT_OF_POCKET IP_OTHER / IP_TOTAL;
125
          RUN;
NOTE: Due to nonpositive weights, 1641 observation(s) were deleted.
NOTE: The PROCEDURE SURVEYMEANS printed page 2.
NOTE: PROCEDURE SURVEYMEANS used (Total process time):
      real time
                        0:00.62
      user cpu time
                        0:00.59
      system cpu time 0:00.00
                                       9916k
      Memory
      OS Memory
                                       15700k
      Timestamp
                        12/16/2008 1:58:30 PM
126
          /* READ IN DATA FROM 2005 HOSPITAL INPATIENT STAYS DATA FILE (HC-094D) */
127
128
129
          DATA IP2005;
                SET CDATA.H94D (KEEP= DUPERSID EVNTIDX RSNINHOS IPXP05X NUMNIGHX
130
                                      PERWT05F VARSTR VARPSU);
131
                TF NUMNTGHX = 0
132
133
                        THEN NUMNIGHX = 1;
134
                PERDIEM = ROUND(IPXP05X/NUMNIGHX);
135
          RUN;
NOTE: There were 3341 observations read from the data set CDATA.H94D.
NOTE: The data set WORK.IP2005 has 3341 observations and 9 variables.
NOTE: DATA statement used (Total process time):
     user cpu time 0:00.07
      system cpu time 0:00.01
      Memory
                                       326k
      OS Memory
                                       8180k
                        12/16/2008 1:58:30 PM
      Timestamp
136
137
          TITLE3 'FIGURE 5: AVERAGE IP EXPENSES PER STAY WITH AND WITHOUT SURGERY';
138
139
          PROC SURVEYMEANS DATA= IP2005 MEAN STDERR;
140
                STRATUM VARSTR;
141
                CLUSTER VARPSU;
                WEIGHT PERWT05F;
142
143
                VAR
                     IPXP05X;
144
                DOMAIN RSNINHOS ;
145
                FORMAT RSNINHOS SURGF. ;
146
          RUN;
```

3

NOTE: Due to nonpositive weights, 129 observation(s) were deleted. NOTE: Only one cluster in a stratum for variable(s) IPXP05X. The estimate of variance for IPXP05X will omit this stratum. NOTE: The PROCEDURE SURVEYMEANS printed page 3. NOTE: PROCEDURE SURVEYMEANS used (Total process time): 0:00.06 real time user cpu time 0:00.04 system cpu time 0:00.01 3119k Memory OS Memory 8980k 12/16/2008 1:58:30 PM Timestamp 147 148 TITLE3 'FIGURE 5: AVERAGE IP EXPENSES PER DIEM WITH AND WITHOUT SURGERY'; 149 150 PROC SURVEYMEANS DATA= IP2005 MEAN STDERR; 151 STRATUM VARSTR; 152 CLUSTER VARPSU; 153 WEIGHT PERWT05F; 154 VAR PERDIEM; 155 DOMAIN RSNINHOS ; 156 FORMAT RSNINHOS SURGF. ; 157 RUN; NOTE: Due to nonpositive weights, 129 observation(s) were deleted. NOTE: Only one cluster in a stratum for variable(s) PERDIEM. The estimate of variance for PERDIEM will omit this stratum. NOTE: The PROCEDURE SURVEYMEANS printed page 4. NOTE: PROCEDURE SURVEYMEANS used (Total process time): real time 0:00.06 user cpu time 0:00.04 system cpu time 0:00.01 3108k Memory OS Memory 8980k Timestamp 12/16/2008 1:58:30 PM NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414 NOTE: The SAS System used: 0:05.47 0:01.45 real time user cpu time system cpu time 0:01.34 Memory 13696k 15700k OS Memory

Timestamp

12/16/2008 1:58:30 PM

HEALTHCARE EXPENSES, 2005 (CF. MEPS STAT BRIEF #164, 2004 DATA)

FIGURE 1: DISTRIBUTION BY EVENT TYPE

The SURVEYMEANS Procedure

Data Summary

Number	of	Strata	203
Number	of	Clusters	452
Number	of	Observations	33961
Number	of	Observations Used	32320
Number	of	Obs with Nonpositive Weights	1641
Sum of	We:	ights	296185002

Statistics

		Std Error		
Variable	Mean	of Mean	Sum	Std Dev
PRESCRIBED_MEDICINES	719.706248	23.592363	213166196663	8158097742
HOSPITAL_INPATIENT	1067.815868	50.164978	316271045334	16045954910
AMBULATORY_CARE	1201.056237	31.845728	355734844187	11866244422
OTHER	467.921656	44.336457	138591376766	13439748150
TOTAL	3456.500008	90.433709	1.0237635E12	33630954198

Ratio Analysis

Numerator	Denominator	Ratio	Std Err
PRESCRIBED_MEDICINES	TOTAL	0.208218	0.006246
HOSPITAL_INPATIENT	TOTAL	0.308930	0.010406
AMBULATORY_CARE	TOTAL	0.347478	0.008429
OTHER	TOTAL	0.135374	0.011271

HEALTHCARE EXPENSES, 2005 (CF. MEPS STAT BRIEF #164, 2004 DATA) FIGURE 1: DISTRIBUTION OF INPATIENT (IP) EXPENSES BY SOURCE OF PAYMENT

The SURVEYMEANS Procedure

Data Summary

Number	of	Strata	203
Number	of	Clusters	452
Number	of	Observations	33961
Number	of	Observations Used	32320
Number	of	Obs with Nonpositive Weights	1641
Sum of	We	ights	296185002

Statistics

Variable	Mean	Std Error of Mean	Sum	Std Dev
IP_PRIVATE_INS	438.466002	31.995326	129867053753	9847616981
IP_MEDICARE	402.725774	34.141190	119281334175	10201354338
IP_MEDICAID	112.758697	12.651646	33397434905	3835711456
IP_OUT_OF_POCKET	40.444802	7.229155	11979143650	2124937487
IP_OTHER	73.420594	11.185242	21746078851	3414219841
IP_TOTAL	1067.815868	50.164978	316271045334	16045954910

Ratio Analysis

Numerator	Denominator	Ratio	Std Err
IP_PRIVATE_INS	IP_TOTAL	0.410619	0.022943
IP_MEDICARE	IP_TOTAL	0.377149	0.023255
IP_MEDICAID	IP_TOTAL	0.105598	0.011919
IP_OUT_OF_POCKET	IP_TOTAL	0.037876	0.006689
IP_OTHER	IP_TOTAL	0.068758	0.010432

HEALTHCARE EXPENSES, 2005 (CF. MEPS STAT BRIEF #164, 2004 DATA) FIGURE 5: AVERAGE IP EXPENSES PER STAY WITH AND WITHOUT SURGERY

The SURVEYMEANS Procedure

Data Summary

Number	of	Strata	203
Number	of	Clusters	422
Number	of	Observations	3341
Number	of	Observations Used	3212
Number	of	Obs with Nonpositive Weights	129
Sum of	We	ights	29489112.4

Statistics

Variable	Label	Mean	Std Error
IPXP05X	TOT EXP FOR EVENT (IPFXP05X+IPDXP05X)	10725	372.084252

Domain Analysis: REASON ENTERED HOSPITAL

REASON ENTERED HOSPITAL	Variable	Label	Mean	Std Error of Mean
OTHER	IPXP05X	TOT EXP FOR EVENT (IPFXP05X+IPDXP05X) TOT EXP FOR EVENT (IPFXP05X+IPDXP05X)	8438.825380	358.631654
SURGERY	IPXP05X		15160	808.067898

FIGURE 5: AVERAGE IP EXPENSES PER DIEM WITH AND WITHOUT SURGERY

The SURVEYMEANS Procedure

Data Summary

Number	of	Strata	203
Number	of	Clusters	422
Number	of	Observations	3341
Number	of	Observations Used	3212
Number	of	Obs with Nonpositive Weights	129
Sum of	We:	ights	29489112.4

Statistics

		Std Error
Variable	Mean	of Mean
PERDIEM	3211.595900	98.695538

Domain Analysis: REASON ENTERED HOSPITAL

REASON			
ENTERED			Std Error
HOSPITAL	Variable	Mean	of Mean
OTHER	PERDIEM	2173.125565	81.256196
SURGERY	PERDIEM	5226.180425	219.124443

PROGRAM: C:\MEPS\PROG\E8.SAS