

ENDNOTES

- ¹ Refer to Chapter 10 in Foreman, EK, *Survey Sampling Principles*. New York: Dekker, 1991.
- ² Carlson BL, Johnson AE, Cohen SB. "An Evaluation of the Use of Personal Computers for Variance Estimation with Complex Survey Data." *Journal of Official Statistics*, vol. 9, no. 4, 1993: 795-814.
- ³ We used the following American Hospital Association Annual Survey Database (Health Forum, LLC © 2010) data elements to assign the NIS Teaching Hospital Indicator:

AHA Data Element Name = Description [HCUP Data Element Name].

BDH = Number of short-term hospital beds [B001H].
BDTOT = Number of total facility beds [B001].
FTRES = Number of full-time employees: interns & residents (medical & dental) [E125].
PTRES = Number of part-time employees: interns & residents (medical & dental) [E225].
MAPP8 = Council of Teaching Hospitals (COTH) indicator [A101].
MAPP3 = Residency training approval by the Accreditation Council for Graduate Medical Education (ACGME) [A102].

Prior to the 1998 NIS, we used the following SAS code to assign the NIS teaching hospital status indicator, H_TCH:

```
/* FIRST ESTABLISH SHORT-TERM BEDS DEFINITION */  
IF BDH NE . THEN BEDTEMP = BDH ;      /* SHORT TERM BEDS */  
ELSE IF BDH = . THEN BEDTEMP=BDTOT ;  /* TOTAL BEDS PROXY */  
  
/*****  
/* NEXT ESTABLISH TEACHING STATUS BASED ON F-T & P-T */  
/* RESIDENT/INTERN STATUS FOR HOSPITALS. */  
*****/  
RESINT = (FTRES + .5*PTRES)/BEDTEMP ;  
IF RESINT > 0 & (MAPP3=1 OR MAPP8=1) THEN H_TCH=1; /*1=TEACHING */  
ELSE H_TCH=0 ;                                     /* 0=NONTEACHING */
```

Beginning with the 1998 NIS, we used the following SAS code to assign the teaching hospital status indicator, HOSP_TEACH:

```
/******  
/* FIRST ESTABLISH SHORT-TERM BEDS DEFINITION */  
/******  
IF BDH NE . THEN BEDTEMP = BDH ;      /* SHORT TERM BEDS */  
ELSE IF BDH = . THEN BEDTEMP = BDTOT ; /* TOTAL BEDS PROXY */  
/******  
/* ESTABLISH IRB NEEDED FOR TEACHING STATUS */  
/* BASED ON F-T P-T RESIDENT INTERN STATUS */  
/******  
IRB = (PTRES + .5*PTRES) / BEDTEMP ;  
/******  
/* CREATE TEACHING STATUS VARIABLE */  
/******  
IF (MAPPS EQ 1) OR (MAPPS EQ 1) THEN HOSP_TEACH = 1 ;  
ELSE IF (IRB GE 0.25) THEN HOSP_TEACH = 1 ;  
ELSE HOSP_TEACH = 0 ;
```

- 4 Most AHA Annual Survey Database files do not cover a January-to-December period for every hospital. The numbers of hospitals for 1988-1991 are based on adjusted versions of the files which we created by apportioning the data from adjacent survey files across calendar years. The numbers of hospitals for later years are based on the unadjusted AHA Annual Survey Database files.
- 5 Table 1: Preliminary Annual Estimates of the Population for the United States, Regions, States, and Puerto Rico: April 1, 2000 to July 1, 2010 (NST-PEST2010-01). Source: Population Division, U.S. Census Bureau. Release Date: February 2011.