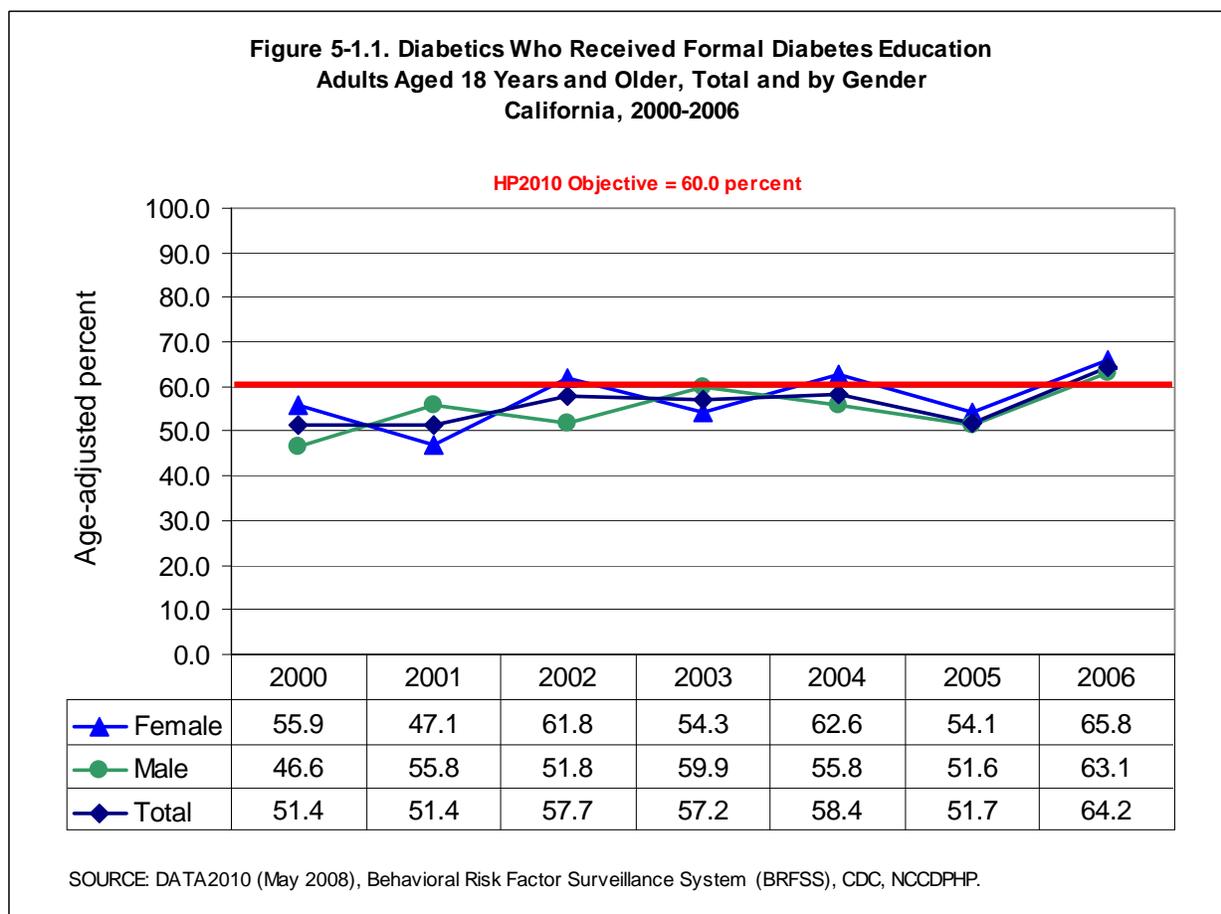


Focus Area 5: Diabetes

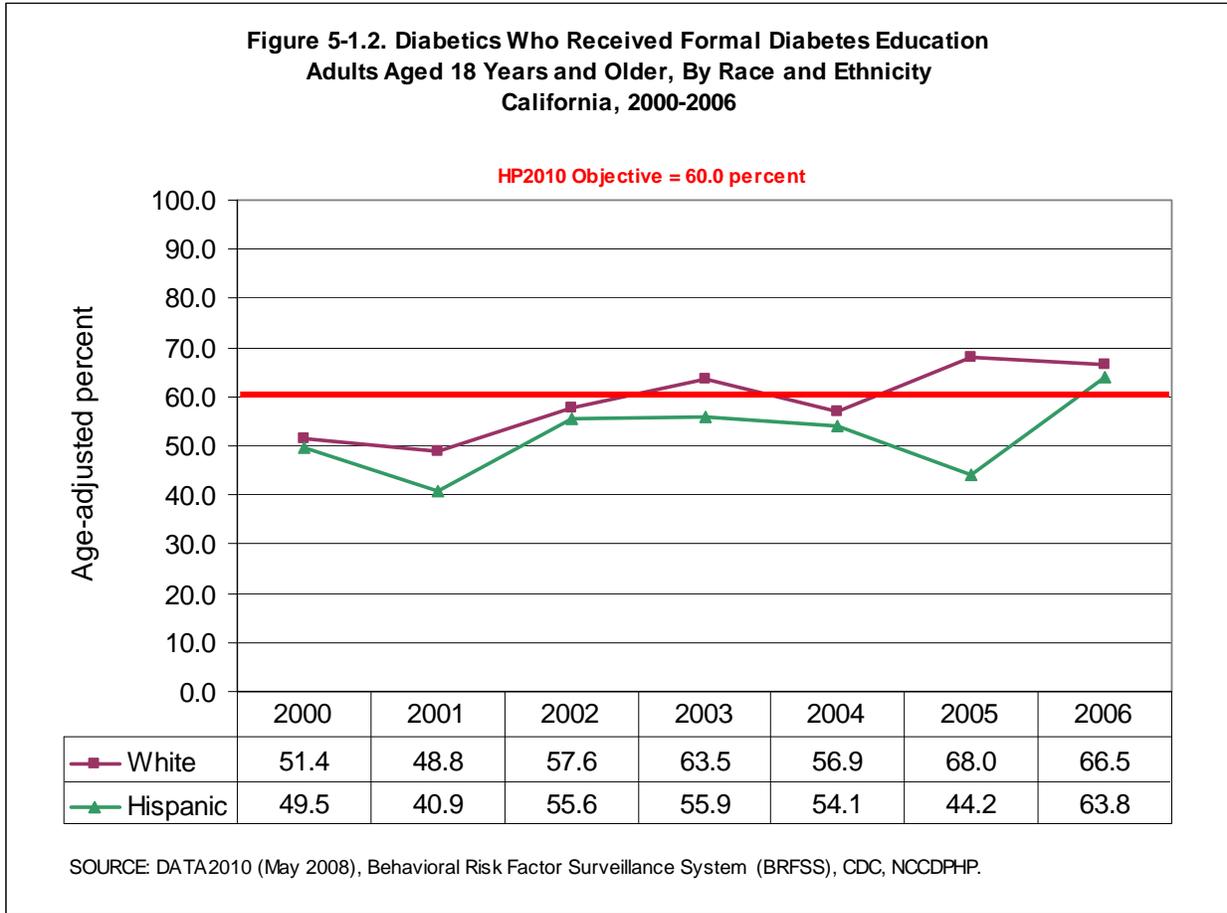
Objective 5-1. Increase the proportion of persons with diabetes who receive formal diabetes education. Target = 60.0 percent (age-adjusted, ages 18 years and older) [State Data Source: Behavioral Risk Factor Surveillance System (BRFSS), CDC, NCCDPHP]

California data available in DATA2010 from the BRFSS indicate a significant overall increase in persons with diabetes who received formal diabetes education from 51.4 percent in 2000 to 64.2 percent in 2006 (**Figure 5-1.1, Table 5-1**). Although the trend in rates was not statistically significant, the HP2010 target was achieved as of 2006.



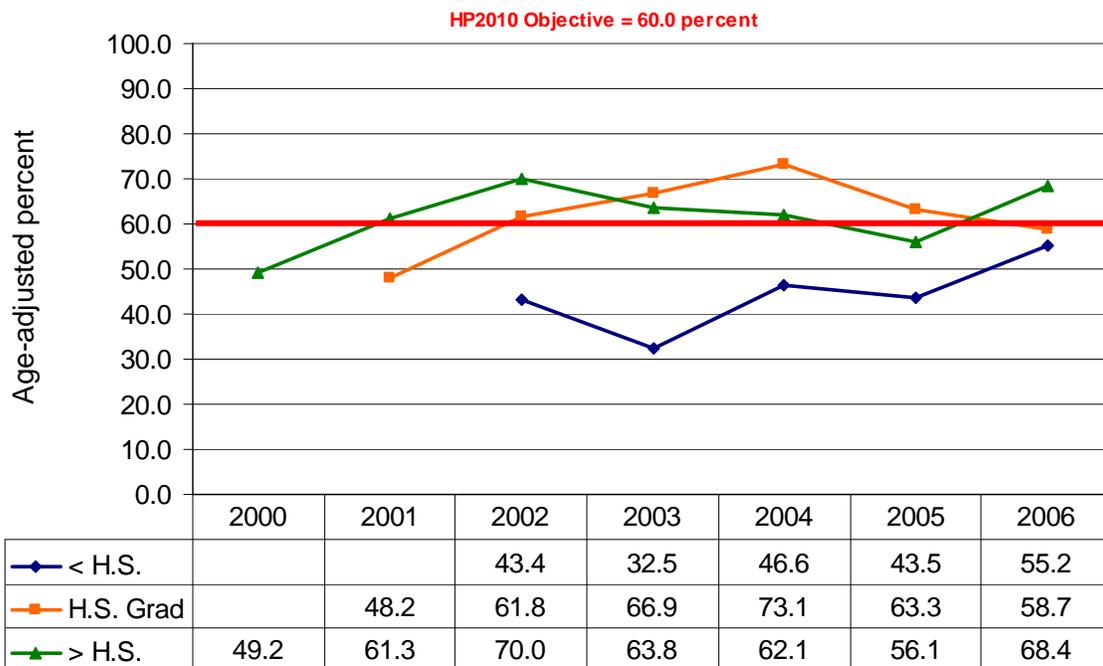
Data by gender show that female diabetics had higher rates of formal diabetes education than males – 65.8 percent versus 63.1 percent, respectively, in 2006 (**Figure 5-1.1, Table 5-1**). The HP2010 was being achieved for both females and males as of 2006, although no significant time trends were found in the rates for either gender.

The only reliable California data by race and ethnicity (**Figure 5-1.2, Table 5-1**) were for Whites (significant overall increase from 51.4 percent in 2000 to 66.5 percent in 2006) and for Hispanics or Latinos (significant overall increase from 49.5 percent in 2000 to 63.8 percent in 2006). The HP2010 objective was being achieved for both of these populations as of 2006, although no significant trends in rates were found in the data.



Data by educational level for diabetics aged 25 years and over show that the pattern of those with higher levels of education having higher rates of formal diabetes education was found in 2006: 68.4 percent of those who had at least some college had diabetes education; 58.7 percent of those who were high school graduates had received formal diabetes education; and 55.2 percent of those with less than a high school education had received formal diabetes education (**Figure 5-1.3, Table 5-1**). This pattern did not hold for other years, however. As of 2006, this HP2010 objective was being achieved only for diabetics with at least some college education.

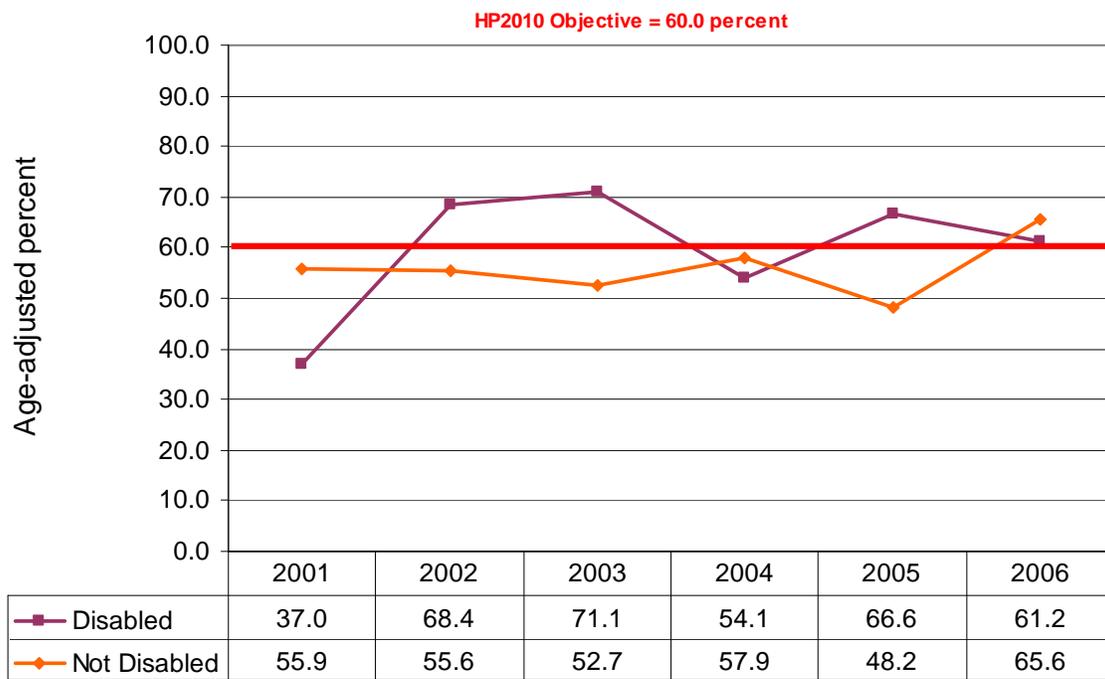
**Figure 5-1.3. Diabetics Who Received Formal Diabetes Education
Adults Aged 25 Years and Older, By Educational Status
California, 2000-2006**



SOURCE: DATA2010 (May 2008), Behavioral Risk Factor Surveillance System (BRFSS), CDC, NCCDPHP.

Data by disability status (**Figure 5-1.4, Table 5-1**) indicate that diabetics without disabilities had a higher rate of formal diabetes education in 2006 than those with disabilities – 65.6 percent versus 61.2 percent, respectively. This pattern was not true in other years, however. In 2005, the inverse was true: diabetics with disabilities had significantly higher rates of formal diabetes education than those who were not disabled – 66.6 percent versus 48.2 percent, respectively. The HP2010 objective was being achieved for both populations as of 2006, although no significant trends in rates were found.

**Figure 5-1.4. Diabetics Who Received Formal Diabetes Education
Adults Aged 18 Years and Older, By Disability Status
California, 2001-2006**



SOURCE: DATA2010 (May 2008), Behavioral Risk Factor Surveillance System (BRFSS), CDC, NCCDPHP.

Table 5-1. Diabetes Education - Diabetics Aged 18 Years and Older, California, 2000-2006

	2000			2001			2002			2003		
	Percent ¹	Lower 95% C.I.	Upper 95% C.I.	Percent ¹	Lower 95% C.I.	Upper 95% C.I.	Percent ¹	Lower 95% C.I.	Upper 95% C.I.	Percent ¹	Lower 95% C.I.	Upper 95% C.I.
Statewide Total	51.4	38.9	63.9	51.4	42.0	60.8	57.7	47.5	67.9	57.2	48.2	66.2
Gender												
Female	55.9	42.4	69.4	47.1	35.5	58.7	61.8	50.0	73.6	54.3	40.8	67.8
Male	46.6	29.0	64.2	55.8	41.5	70.1	51.8	35.1	68.5	59.9	48.9	70.9
Race-Ethnicity												
American Indian or Alaska Native (AIAN)	DSU	-----	-----									
Asian or Pacific Islander (PI)	DSU	-----	-----									
Black or African American	DSU	-----	-----									
Hispanic or Latino	49.5	31.3	67.7	40.9	24.8	57.0	55.6	39.7	71.5	55.9	43.2	68.6
Multiracial (2 or more races)	DNC	-----	-----	DSU	-----	-----	DSU	-----	-----	DSU	-----	-----
White	51.4	35.9	66.9	48.8	35.1	62.5	57.6	42.1	73.1	63.5	50.2	76.8
Education Level³												
Less than high school	DSU	-----	-----	DSU	-----	-----	43.4	26.2	60.6	32.5	14.9	50.1
High school graduate	DSU	-----	-----	48.2	32.3	64.1	61.8	45.3	78.3	66.9	55.9	77.9
At least some college	49.2	35.1	63.3	61.3	47.6	75.0	70.0	58.4	81.6	63.8	53.0	74.6
Disability Status												
Disabled	DNC	-----	-----	37.0	21.3	52.7	68.4	49.2	87.6	71.1	58.6	83.6
Not Disabled	DNC	-----	-----	55.9	45.5	66.3	55.3	43.1	67.5	52.7	42.3	63.1

	2004			2005			2006		
	Percent ¹	Lower 95% C.I.	Upper 95% C.I.	Percent ¹	Lower 95% C.I.	Upper 95% C.I.	Percent ¹	Lower 95% C.I.	Upper 95% C.I.
Statewide Total	58.4	49.0	67.8	51.7	41.5	61.9	64.2	56.0	72.4
Gender									
Female	62.6	51.0	74.2	54.1	42.5	65.7	65.8	54.8	76.8
Male	55.8	41.5	70.1	51.6	37.5	65.7	63.1	51.7	74.5
Race-Ethnicity									
American Indian or Alaska Native (AIAN)	DSU	-----	-----	DSU	-----	-----	DSU	-----	-----
Asian or Pacific Islander (PI)	DSU	-----	-----	DSU ²	-----	-----	DSU ²	-----	-----
Black or African American	DSU	-----	-----	DSU	-----	-----	DSU	-----	-----
Hispanic or Latino	54.1	37.6	70.6	44.2	30.1	58.3	63.8	51.5	76.1
Multiracial (2 or more races)	DSU	-----	-----	DSU	-----	-----	DSU	-----	-----
White	56.9	44.2	69.6	68.0	56.0	80.0	66.5	54.5	78.5
Education Level³									
Less than high school	46.6	25.0	68.2	43.5	26.4	60.6	55.2	37.0	73.4
High school graduate	73.1	59.6	86.6	63.3	48.6	78.0	58.7	44.8	72.6
At least some college	62.1	51.9	72.3	56.1	39.6	72.6	68.4	57.8	79.0
Disability Status									
Disabled	54.1	37.4	70.8	66.6	52.3	80.9	61.2	46.9	75.5
Not Disabled	57.9	46.3	69.5	48.2	36.4	60.0	65.6	55.8	75.4

SOURCES: DATA2010 (May 2008 Edition), Behavioral Risk Factor Surveillance System, (BRFSS), CDC, National Center for Chronic Disease Prevention and Health Promotion.
 NOTES: ¹ Age-adjusted by the direct method using the 2000 U.S. Standard Population; ² Data collected for Asians only; ³ Data for persons aged 25 years and older.
 DSU = Data Statistically Unreliable: data do not meet criteria for statistical reliability, data quality, or confidentiality; DNC = Data Not Collected.

For more information on diabetes, visit the California Diabetes Program Web site at: <http://www.cdph.ca.gov/programs/diabetes/Pages/default.aspx>

For more information on Healthy People 2010 objective 5-1, please visit: <http://www.healthypeople.gov/Document/HTML/Volume1/05Diabetes.htm>

and the DATA2010 Web site at <http://wonder.cdc.gov/data2010/>