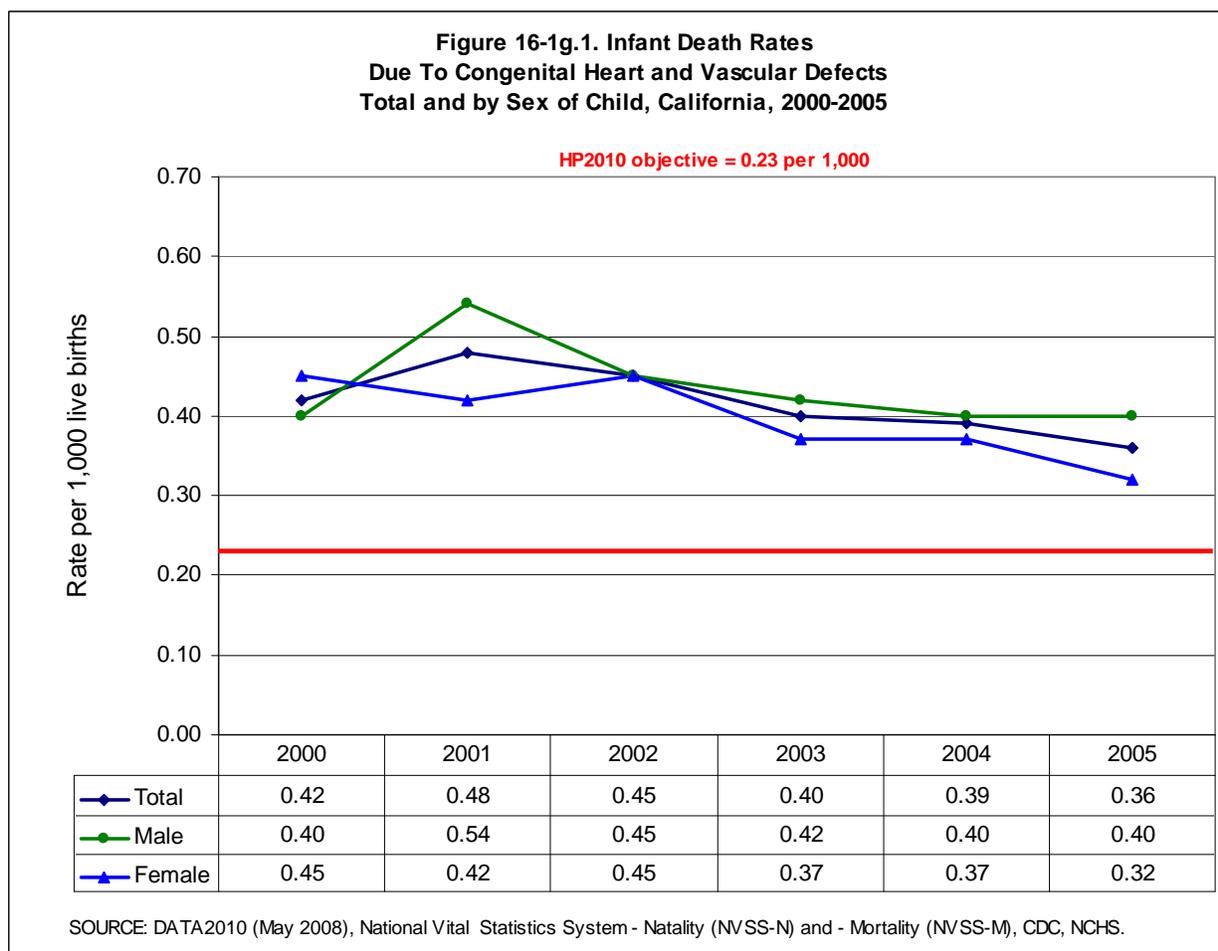


Focus Area 16: Maternal, Infant, and Child Health

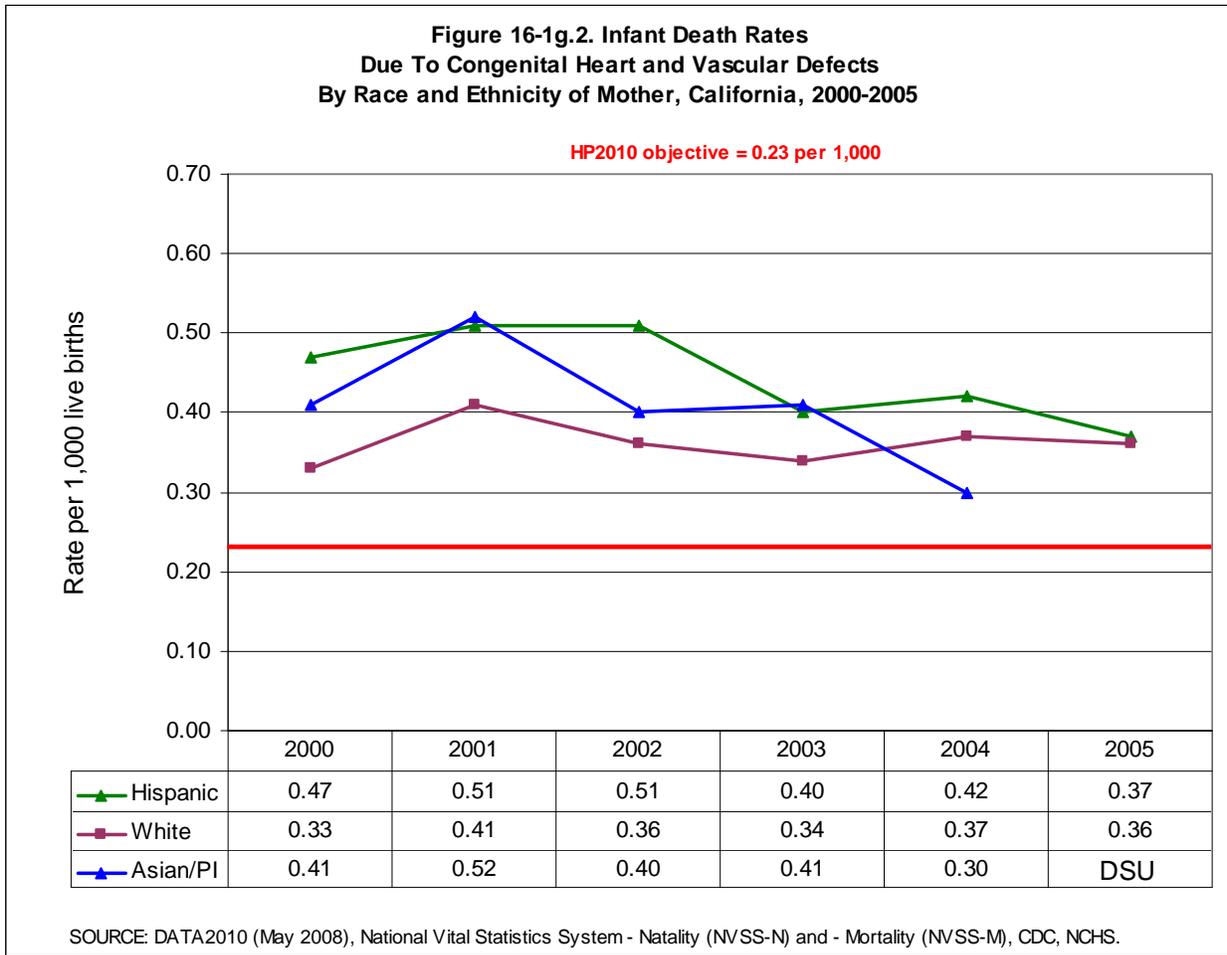
Objective 16-1g. Infant deaths due to congenital heart and vascular defects. Target = 0.23 per 1,000 live births [State Data Source: National Vital Statistics System – Natality (NVSS-N) and – Mortality (NVSS-M), CDC, NCHS]

Based on data extracted from DATA2010, California’s death rate for infants born with congenital heart and vascular defects increased between 2000 and 2001 then declined significantly from 0.48 per 1,000 live births in 2001 to 0.36 per 1,000 live births in 2005 (**Figure 16-1g.1, Table 16-1g**). Although rates declined overall, California’s infant death rate due to heart and vascular defects remained higher than the target established in HP2010 and this objective had not yet been achieved as of 2005.

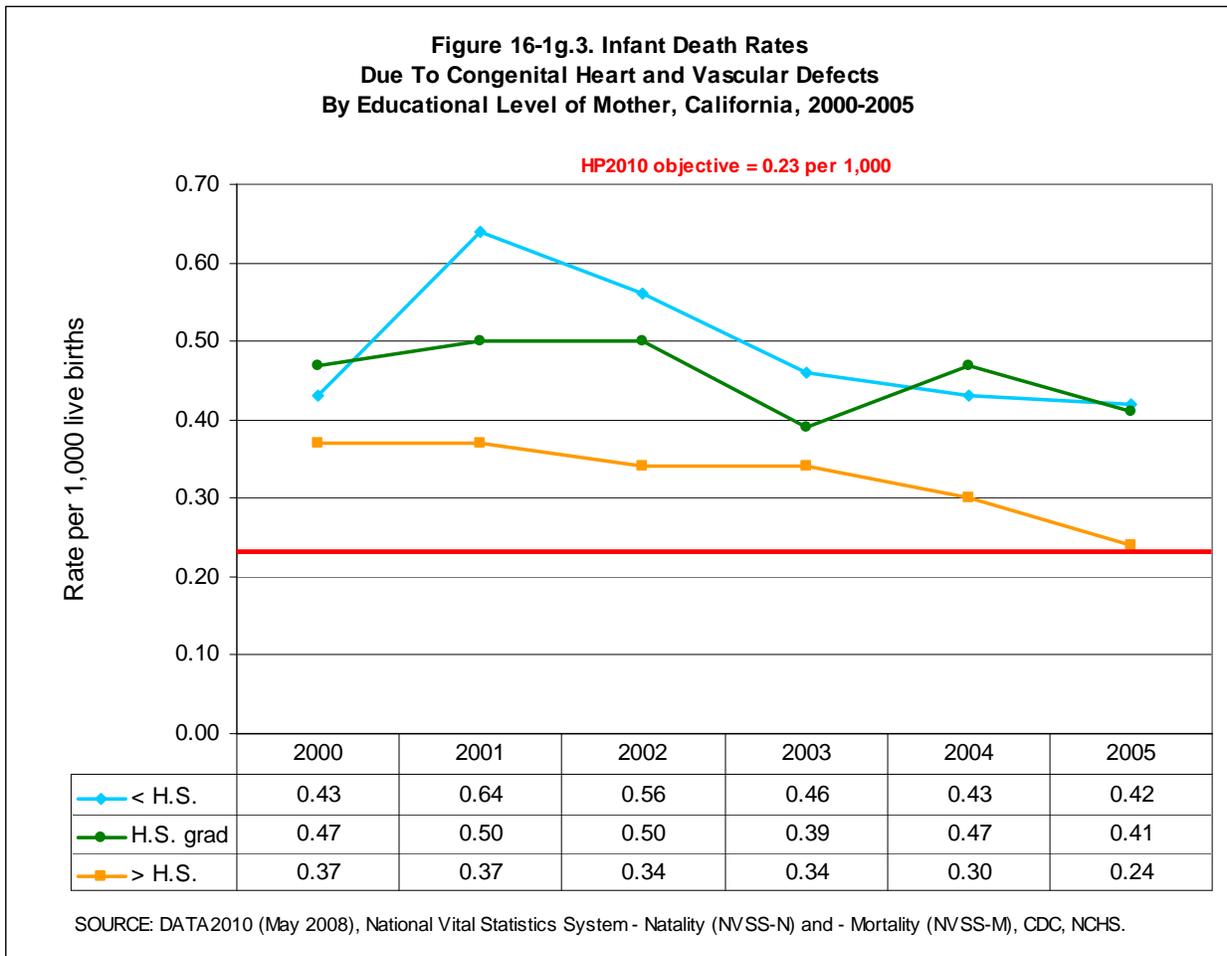


Death rate for infants of both genders declined significantly between 2001 and 2005: for females from 0.42 per 1,000 live births in 2001 to 0.32 per 1,000 live births in 2005; for males from 0.54 per 1,000 live births in 2001 to 0.40 per 1,000 live births in 2005 (**Figure 16-1g.1, Table 16-1g**). This HP2010 objective was not being achieved for either male or female infants as of 2005, although rates were moving toward the target.

Data by race-ethnicity of the mother (**Figure 16-1g.2, Table 16-1g**) show that Hispanics or Latinas experienced the highest infant death rates due to congenital heart and vascular defects across all years (0.37 per 1,000 live births in 2005), followed by Whites (0.36 per 1,000 live births in 2005). The death rate for 2005 for Asians or Pacific Islanders (PI) infants was statistically unreliable due to the small number of events, and rates for the American Indian or Alaska Native (AIAN) and the Black or African American infants were also unreliable across all years and are not reported here. The HP2010 target of 0.23 per 1,000 had not yet been achieved for any racial or ethnic population in California as of 2005.



Examined by educational level of the mother (**Figure 16-1g.3, Table 16-1g**), the highest infant death rates due to congenital heart and vascular defects occurred for those who had less than a high school education (0.42 per 1,000 live births in 2005), followed by high school graduates (0.41 per 1,000 live births in 2005), and those with at least some college (significant decline from 0.37 per 1,000 live births in 2000 to 0.24 per 1,000 in 2005). The HP2010 target of 0.23 per 1,000 was not yet being achieved for mothers of any educational level as of 2005, although projections indicate this objective would be achieved for mother who had at least some college education.



For more information on birth defects in California, visit the Genetic Disease Screening Program Web site at:

<http://www.cdph.ca.gov/programs/GDSP/Pages/default.aspx>

and the Birth Defects Monitoring Program Web site at: <http://www.cbdmp.org/>

For more information on Healthy People 2010 objective 16-1g, please visit:

<http://www.healthypeople.gov/Document/HTML/Volume2/16MICH.htm>

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

Table 16-1g. Infant Deaths Rates Due To Congenital Heart and Vascular Defects, California 2000-2005

	2000 Rate ¹	Lower 95% C.I.	Upper 95% C.I.	2001 Rate ¹	Lower 95% C.I.	Upper 95% C.I.	2002 Rate ¹	Lower 95% C.I.	Upper 95% C.I.
Statewide Total	0.42	0.42	0.42	0.48	0.48	0.48	0.45	0.45	0.45
Gender of Child									
Female	0.45	0.45	0.45	0.42	0.42	0.42	0.45	0.45	0.45
Male	0.40	0.40	0.40	0.54	0.54	0.54	0.45	0.45	0.45
Race-Ethnicity of Mother									
American Indian or Alaska Native	DSU	-----	-----	DSU	-----	-----	DSU	-----	-----
Asian or Pacific Islander	0.41	0.21	0.61	0.52	0.32	0.72	0.40	0.20	0.60
Black or African American	DSU	-----	-----	DSU	-----	-----	DSU	-----	-----
Hispanic or Latina	0.47	0.47	0.47	0.51	0.51	0.51	0.51	0.51	0.51
White	0.33	0.33	0.33	0.41	0.41	0.41	0.36	0.36	0.36
Education Level of Mother									
Less than high school	0.43	0.23	0.63	0.64	0.44	0.84	0.56	0.36	0.76
High school graduate	0.47	0.27	0.67	0.50	0.30	0.70	0.50	0.30	0.70
Some college	0.37	0.37	0.37	0.37	0.37	0.37	0.34	0.34	0.34

	2003 Rate ¹	Lower 95% C.I.	Upper 95% C.I.	2004 Rate ¹	Lower 95% C.I.	Upper 95% C.I.	2005 Rate ¹	Lower 95% C.I.	Upper 95% C.I.
Statewide Total	0.40	0.40	0.40	0.39	0.39	0.39	0.36	0.36	0.36
Gender of Child									
Female	0.37	0.37	0.37	0.37	0.37	0.37	0.32	0.32	0.32
Male	0.42	0.42	0.42	0.40	0.40	0.40	0.40	0.40	0.40
Race-Ethnicity of Mother									
American Indian or Alaska Native	DSU	-----	-----	DSU	-----	-----	DSU	-----	-----
Asian or Pacific Islander	0.41	0.21	0.61	0.30	0.10	0.50	DSU	-----	-----
Black or African American	DSU	-----	-----	DSU	-----	-----	DSU	-----	-----
Hispanic or Latina	0.40	0.40	0.40	0.42	0.42	0.42	0.37	0.37	0.37
White	0.34	0.34	0.34	0.37	0.37	0.37	0.36	0.36	0.36
Education Level of Mother									
Less than high school	0.46	0.26	0.66	0.43	0.23	0.63	0.42	0.22	0.62
High school graduate	0.39	0.19	0.59	0.47	0.27	0.67	0.41	0.21	0.61
Some college	0.34	0.34	0.34	0.30	0.30	0.30	0.24	0.24	0.24

SOURCES: DATA2010 (May 2008), CDC, NCHS; National Vital Statistics System - Mortality (NVSS-M) and National Vital Statistics System - Natality (NVSS-N), CDC, NCHS.

NOTES: ¹ Infant death rates are deaths occurring within one year of life per 1,000 live births from period-linked files; the 2005 period-linked file contains a numerator file that consists of all infant deaths occurring in 2005 that have been linked to their corresponding birth certificates, whether the birth occurred in 2004 or in 2005; congenital heart and vascular defects are defined by ICD-10 codes Q20-Q28.

DSU Data statistically unreliable (Relative Standard Error greater than 23 percent).