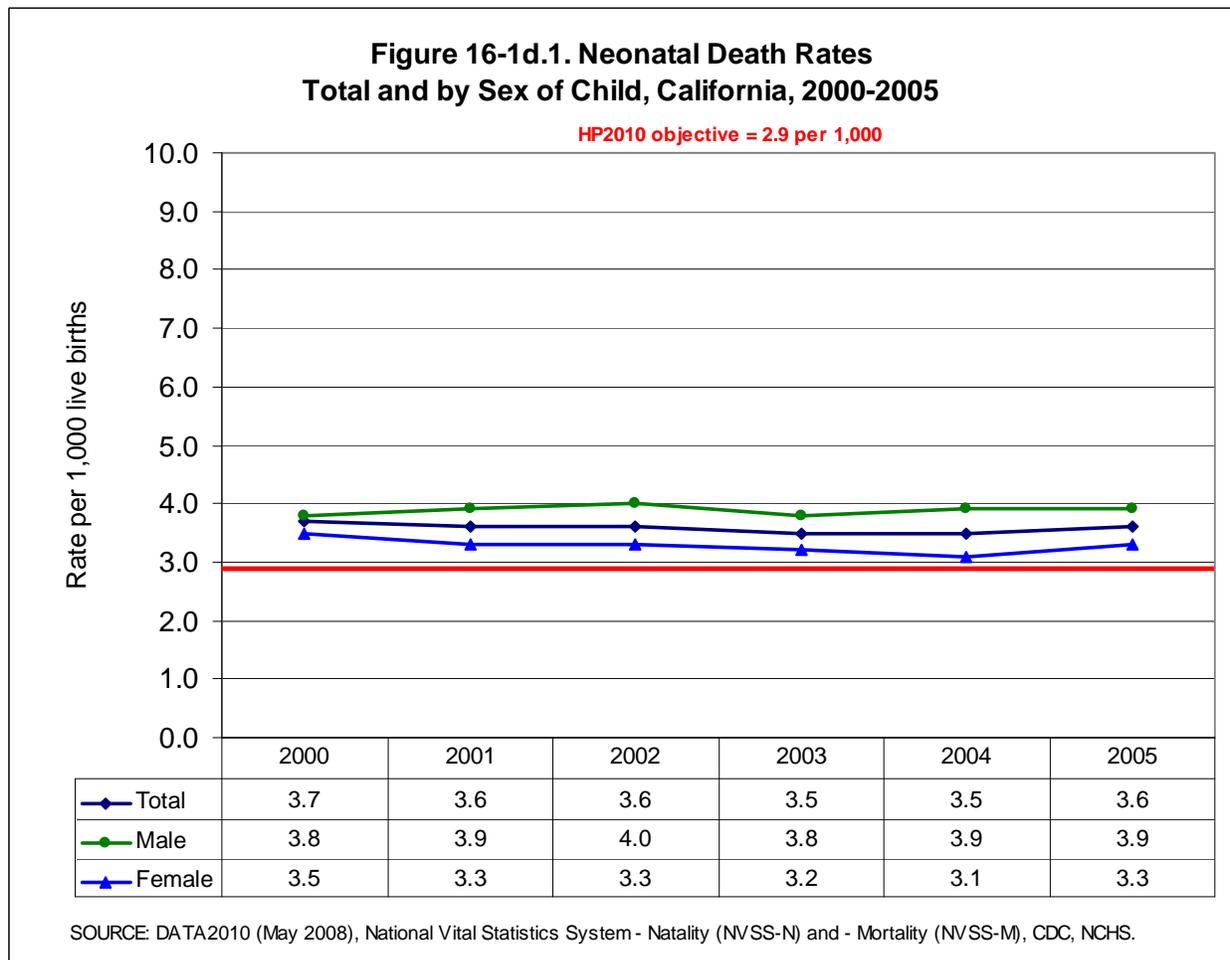


## Focus Area 16: Maternal, Infant, and Child Health

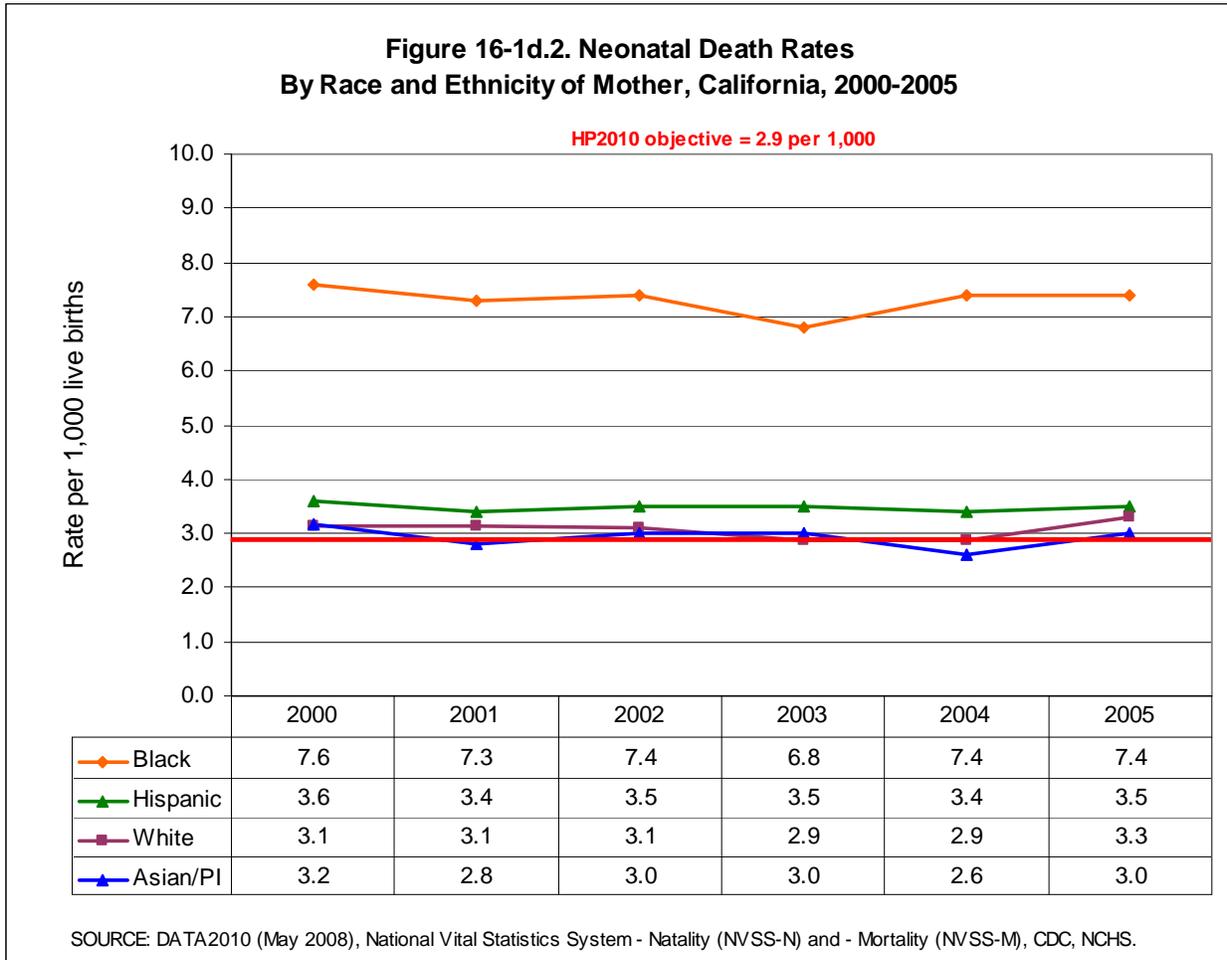
**Objective 16-1d. Neonatal deaths (less than 28 days). Target = 2.9 per 1,000 live births [State Data Source: National Vital Statistics System – Natality (NVSS-N) and – Mortality (NVSS-M), CDC, NCHS]**

Based on data extracted from DATA2010 (**Figure 16-1d.1, Table 16-1d**), California's neonatal death rates were 3.7 per 1,000 live births in 2000 compared with 3.6 per 1,000 live births in 2005. No significant trend was found, and California's neonatal death rate remained significantly higher than the target established in HP2010.

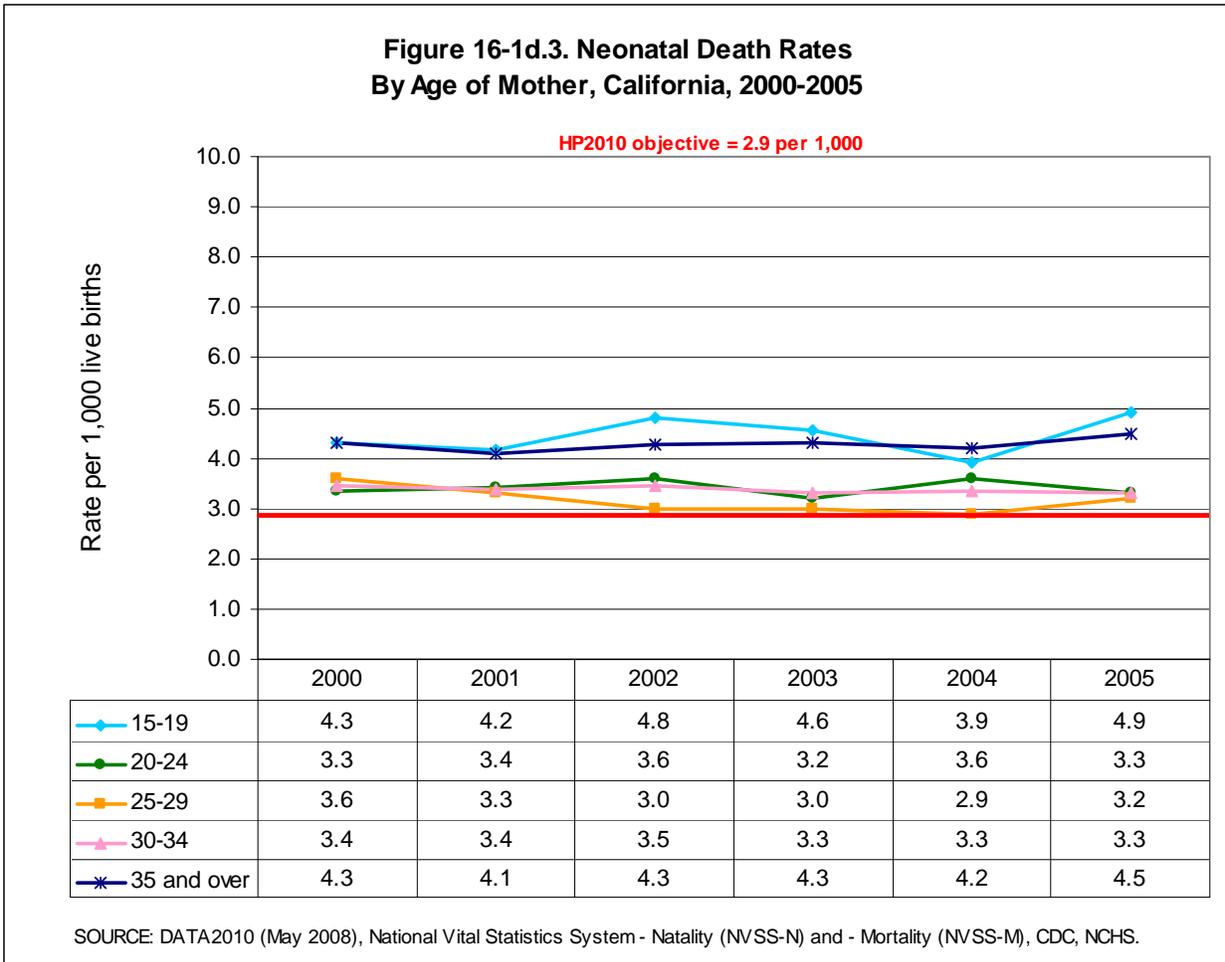


Neonatal death rates were significantly higher for male infants (3.9 per 1,000 live births in 2005) compared with female infants (a significant decline from 3.5 per 1,000 in 2000 to 3.1 per 1,000 live births in 2004 followed by an increase to 3.3 per 1,000 in 2005) (**Figure 16-1d.1, Table 16-1d**). This HP2010 objective was not being achieved for either male or female infants as of 2005.

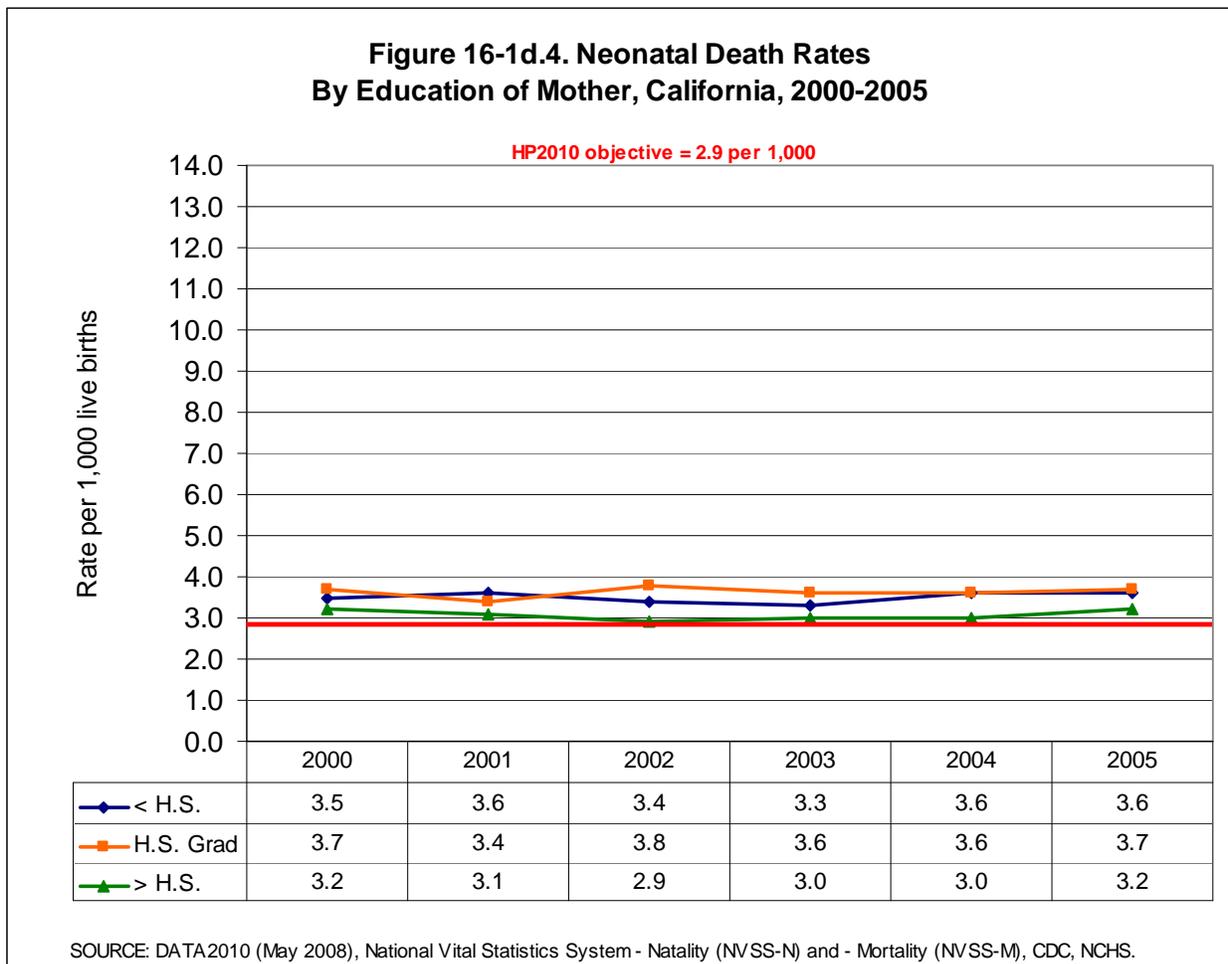
Data by race-ethnicity of the mother (**Figure 16-1d.2, Table 16-1d**) show that African Americans or Blacks experienced the highest neonatal death rates (7.4 per 1,000 live births in 2005), followed by Hispanics or Latinas (3.5 per 1,000 in 2004), Whites (3.3 per 1,000 in 2005), and Asians or Pacific Islanders (PI) (3.0 per 1,000 in 2005). The HP2010 objective was not yet being achieved for any of these racial or ethnic populations. Neonatal death rates for American Indians or Alaska Natives (AIAN) were unreliable due to the small number of events and are not reported here.



Examined by age of mother (**Figure 16-1d.3, Table 16-1d**), the highest reliable neonatal death rates occurred for mothers aged 15 to 19 years (4.9 per 1,000 in 2005), followed by mothers aged 35 years and older (4.5 per 1,000 live births in 2005). This HP2010 objective was not being achieved only any maternal age group as of 2005.



Data by maternal education (**Figure 16-1d.4, Table 16-1d**) show that mother's who had at least some college education had the lowest neonatal mortality rates (3.2 per 1,000 live births in 2005). As of 2005, this HP2010 objective was not being met for mothers of any educational background.



For more information on neonatal deaths in California, visit the Maternal, Child and Adolescent Health Branch Web site at:

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

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

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

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

Table 16-1d. Neonatal Death Rates, California 2000-2005

	2000 Rate <sup>1</sup>	Lower 95% C.I.	Upper 95% C.I.	2001 Rate <sup>1</sup>	Lower 95% C.I.	Upper 95% C.I.	2002 Rate <sup>1</sup>	Lower 95% C.I.	Upper 95% C.I.
<b>Statewide Total</b>	3.7	3.5	3.9	3.6	3.4	3.8	3.6	3.4	3.8
<b>Gender of Child</b>									
Female	3.5	3.3	3.7	3.3	3.1	3.5	3.3	3.1	3.5
Male	3.8	3.6	4.0	3.9	3.7	4.1	4.0	3.8	4.2
<b>Race-Ethnicity of Mother</b>									
American Indian or Alaska Native	DSU	-----	-----	DSU	-----	-----	DSU	-----	-----
Asian or Pacific Islander	3.2	2.8	3.6	2.8	2.4	3.2	3.0	2.6	3.4
Black or African American	7.6	6.6	8.6	7.3	6.3	8.3	7.4	6.4	8.4
Hispanic or Latina	3.6	3.4	3.8	3.4	3.2	3.6	3.5	3.3	3.7
White	3.1	2.9	3.3	3.1	2.9	3.3	3.1	2.9	3.3
<b>Age of Mother</b>									
Under 15	DSU	-----	-----	DSU	-----	-----	DSU	-----	-----
15 - 19 years	4.3	3.7	4.9	4.2	3.6	4.8	4.8	4.2	5.4
20 - 24 years	3.3	2.9	3.7	3.4	3.0	3.8	3.6	3.2	4.0
25 - 29 years	3.6	3.2	4.0	3.3	2.9	3.7	3.0	2.8	3.2
30 - 34 years	3.4	3.0	3.8	3.4	3.0	3.8	3.5	3.1	3.9
35 years and older	4.3	3.9	4.7	4.1	3.7	4.5	4.3	3.9	4.7
<b>Education Level of Mother</b>									
Less than high school	3.5	3.1	3.9	3.6	3.2	4.0	3.4	3.0	3.8
High school graduate	3.7	3.3	4.1	3.4	3.0	3.8	3.8	3.4	4.2
Some college	3.2	3.0	3.4	3.1	2.9	3.3	2.9	2.7	3.1

	2003 Rate <sup>1</sup>	Lower 95% C.I.	Upper 95% C.I.	2004 Rate <sup>1</sup>	Lower 95% C.I.	Upper 95% C.I.	2005 Rate <sup>1</sup>	Lower 95% C.I.	Upper 95% C.I.
<b>Statewide Total</b>	3.5	3.3	3.7	3.5	3.3	3.7	3.6	3.4	3.8
<b>Gender of Child</b>									
Female	3.2	3.0	3.4	3.1	2.9	3.3	3.3	3.1	3.5
Male	3.8	3.6	4.0	3.9	3.7	4.1	3.9	3.7	4.1
<b>Race-Ethnicity of Mother</b>									
American Indian or Alaska Native	DSU	-----	-----	DSU	-----	-----	DSU	-----	-----
Asian or Pacific Islander	3.0	2.6	3.4	2.6	2.2	3.0	3.0	2.6	3.4
Black or African American	6.8	5.8	7.8	7.4	6.4	8.4	7.4	6.4	8.4
Hispanic or Latina	3.5	3.3	3.7	3.4	3.2	3.6	3.5	3.3	3.7
White	2.9	2.7	3.1	2.9	2.7	3.1	3.3	3.1	3.5
<b>Age of Mother</b>									
Under 15	DSU	-----	-----	DSU	-----	-----	DSU	-----	-----
15 - 19 years	4.6	4.0	5.2	3.9	3.3	4.5	4.9	4.3	5.5
20 - 24 years	3.2	2.8	3.6	3.6	3.2	4.0	3.3	2.9	3.7
25 - 29 years	3.0	2.8	3.2	2.9	2.7	3.1	3.2	3.0	3.4
30 - 34 years	3.3	2.9	3.7	3.3	2.9	3.7	3.3	2.9	3.7
35 years and older	4.3	3.9	4.7	4.2	3.8	4.6	4.5	4.1	4.9
<b>Education Level of Mother</b>									
Less than high school	3.3	2.9	3.7	3.6	3.2	4.0	3.6	3.2	4.0
High school graduate	3.6	3.2	4.0	3.6	3.2	4.0	3.7	3.3	4.1
Some college	3.0	2.8	3.2	3.0	2.8	3.2	3.2	3.0	3.4

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

NOTES: <sup>1</sup> Neonatal death rates are deaths occurring before 28 days 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.

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