Fetal Mortality
INDICATOR: Fetal Mortality Rate

DEFINITION: The number of fetal deaths occurring at 20 weeks or more gestation per 1,000 live births plus fetal deaths

NUMERATOR: The number of fetal deaths occurring at 20 weeks or more gestation, by place of residence, in a calendar year

DENOMINATOR: The total number of live births plus fetal deaths, by place of residence, in a calendar year

HEALTHY PEOPLE 2010 OBJECTIVE:
Reduce the fetal death rate (20 or more weeks of gestation) to no more than 4.1 per 1,000 live births plus fetal deaths.
(Baseline: 6.8 per 1,000 live births plus fetal deaths in 1997) (Objective 16-1a)

HEALTHY PEOPLE 2020 OBJECTIVE:
Reduce the fetal death rate (20 or more weeks of gestation) to no more than 5.6 per 1,000 live births plus fetal deaths.
(Baseline: 6.2 per 1,000 live births plus fetal deaths in 2005) (Objective MICH-1.1)

RISK FACTORS:
Race/ethnicity (African American); maternal diabetes; pregnancy complications; maternal medical complications/chronic illness during pregnancy (including severe maternal infection); Rh sensitization; congenital anomalies; intrauterine cocaine exposure; maternal history of miscarriage

<table>
<thead>
<tr>
<th>Year</th>
<th>California Fetal Mortality</th>
<th>95% Confidence Interval</th>
<th>Los Angeles County Fetal Mortality</th>
<th>95% Confidence Interval</th>
<th>Denominator: Total Births</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Deaths</td>
<td>Rate</td>
<td>Lower</td>
<td>Upper</td>
<td>Deaths</td>
</tr>
<tr>
<td>2001</td>
<td>2,709</td>
<td>5.1</td>
<td>4.9</td>
<td>5.3</td>
<td>784</td>
</tr>
<tr>
<td>2002</td>
<td>2,647</td>
<td>5.0</td>
<td>4.8</td>
<td>5.2</td>
<td>740</td>
</tr>
<tr>
<td>2003</td>
<td>2,701</td>
<td>5.1</td>
<td>4.9</td>
<td>5.3</td>
<td>756</td>
</tr>
<tr>
<td>2004</td>
<td>2,654</td>
<td>4.9</td>
<td>4.7</td>
<td>5.1</td>
<td>708</td>
</tr>
<tr>
<td>2005</td>
<td>2,788</td>
<td>5.1</td>
<td>4.9</td>
<td>5.3</td>
<td>790</td>
</tr>
<tr>
<td>2006</td>
<td>2,764</td>
<td>5.0</td>
<td>4.8</td>
<td>5.2</td>
<td>759</td>
</tr>
<tr>
<td>2007</td>
<td>2,632</td>
<td>4.7</td>
<td>4.5</td>
<td>4.8</td>
<td>753</td>
</tr>
<tr>
<td>2008</td>
<td>2,559</td>
<td>4.5</td>
<td>4.3</td>
<td>4.7</td>
<td>733</td>
</tr>
<tr>
<td>2009</td>
<td>2,383</td>
<td>4.3</td>
<td>4.1</td>
<td>4.5</td>
<td>665</td>
</tr>
<tr>
<td>2010</td>
<td>2,367</td>
<td>4.6</td>
<td>4.4</td>
<td>4.8</td>
<td>661</td>
</tr>
</tbody>
</table>

Note: Total Births = Live Births + Fetal Deaths.
For numbers of fetal deaths in California and Los Angeles County, records with missing gestational age are excluded. (220 & 67 respectively in 2010)
Gestation is calculated from reported date of last menses.
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2001-2010.
Reduce fetal mortality (20 or more weeks of gestation) rate to no more than 4.1 per 1,000 live births plus fetal deaths.

Reduce fetal mortality (20 or more weeks of gestation) rate to no more than 5.6 per 1,000 live births plus fetal deaths.

Note: For numbers of fetal deaths in California and Los Angeles County, records with missing gestational age are excluded. (220 & 67 respectively in 2010)

Gestation is calculated from reported date of last menses.

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2001-2010.
Year 2010 Objective: Reduce fetal mortality (20 or more weeks of gestation) rate to no more than 4.1 per 1,000 live births plus fetal deaths.

Year 2020 Objective: Reduce fetal mortality (20 or more weeks of gestation) rate to no more than 5.6 per 1,000 live births plus fetal deaths.

Note: Fetal mortality rate is defined as deaths occurring at 20 weeks or more gestation per 1,000 live births plus fetal deaths.

Gestation is calculated from reported date of last menses. Records with missing gestational age are excluded. (n=67)

Racial/ethnic categorization has been revised in this report; data from previous year reports may not be comparable.

African American, Asian/Pacific Islander, Native American, White and other races exclude Hispanic ethnicity. Hispanic includes any race category.

Numbers fewer than 5 are shown as "<5". Rates are not calculated (N/C) if number is fewer than five.

Year 2010 Objective: Reduce fetal mortality (20 or more weeks of gestation) rate to no more than 4.1 per 1,000 live births plus fetal deaths.

Year 2020 Objective: Reduce fetal mortality (20 or more weeks of gestation) rate to no more than 5.6 per 1,000 live births plus fetal deaths.

Note: Fetal mortality rate is defined as deaths occurring at 20 weeks or more gestation per 1,000 live births plus fetal deaths. Gestation is calculated from reported date of last menses. Records with missing gestational age are excluded. (n=67)

* Rates are not calculated due to small number in the denominator.

Fetal Mortality Rate by Mother’s Years of Education
Los Angeles County, 2010

<table>
<thead>
<tr>
<th>Mother’s Years of Education</th>
<th>Fetal Mortality</th>
<th>95% Confidence Interval</th>
<th>Total Live Births plus Fetal Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Deaths</td>
<td>Rate</td>
<td>Lower</td>
</tr>
<tr>
<td>0 to 8</td>
<td>63</td>
<td>6.0</td>
<td>4.9</td>
</tr>
<tr>
<td>9 to 11</td>
<td>148</td>
<td>6.0</td>
<td>5.3</td>
</tr>
<tr>
<td>12</td>
<td>156</td>
<td>4.6</td>
<td>4.1</td>
</tr>
<tr>
<td>13 to 15</td>
<td>159</td>
<td>5.3</td>
<td>4.8</td>
</tr>
<tr>
<td>16 and Over</td>
<td>90</td>
<td>2.9</td>
<td>2.5</td>
</tr>
<tr>
<td>Unknown</td>
<td>45</td>
<td>13.6</td>
<td>10.8</td>
</tr>
<tr>
<td>Total</td>
<td>661</td>
<td>4.9</td>
<td>4.7</td>
</tr>
</tbody>
</table>

Percent Distribution of Fetal Deaths by Mother’s Years of Education
Los Angeles County, 2010

- 0 to 8: 6.8%
- 9 to 11: 9.5%
- 10 to 12: 13.6%
- 13 to 15: 24.1%
- 16 and Over: 23.6%

Year 2010 Objective: Reduce fetal mortality (20 or more weeks of gestation) rate to no more than 4.1 per 1,000 live births plus fetal deaths.

Year 2020 Objective: Reduce fetal mortality (20 or more weeks of gestation) rate to no more than 5.6 per 1,000 live births plus fetal deaths.

Note: Fetal mortality rate is defined as deaths occurring at 20 weeks or more gestation per 1,000 live births plus fetal deaths. Gestation is calculated from reported date of last menses. Records with missing gestational age are excluded. (n=67)

Deaths per 1,000 Live Births plus Fetal Deaths

Trimester Prenatal Care Began

<table>
<thead>
<tr>
<th>Mother's Trimester Prenatal Care Began</th>
<th>Fetal Mortality</th>
<th>95% Confidence Interval</th>
<th>Total Live Births plus Fetal Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Prenatal Care</td>
<td>6</td>
<td>15.0</td>
<td>400</td>
</tr>
<tr>
<td>First</td>
<td>478</td>
<td>4.3</td>
<td>110,994</td>
</tr>
<tr>
<td>Second</td>
<td>76</td>
<td>5.4</td>
<td>14,098</td>
</tr>
<tr>
<td>Third</td>
<td>8</td>
<td>2.5</td>
<td>3,140</td>
</tr>
<tr>
<td>Unknown</td>
<td>93</td>
<td>17.9</td>
<td>5,189</td>
</tr>
<tr>
<td>Total</td>
<td>661</td>
<td>4.9</td>
<td>133,821</td>
</tr>
</tbody>
</table>

Year 2010 Objective: Reduce fetal mortality (20 or more weeks of gestation) rate to no more than 4.1 per 1,000 live births plus fetal deaths.

Year 2020 Objective: Reduce fetal mortality (20 or more weeks of gestation) rate to no more than 5.6 per 1,000 live births plus fetal deaths.

Note: Fetal mortality rate is defined as deaths occurring at 20 weeks or more gestation per 1,000 live births plus fetal deaths. Gestation is calculated from reported date of last menses. Records with missing gestational age are excluded. (n=67)

"Trimester Prenatal Care (PNC) Began" excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

Los Angeles County - Department of Public Health
Number of Fetal Deaths by Zip Code* and Service Planning Area (SPA)
Los Angeles County, 2010

Number of Fetal Deaths
10 - 12  (n=11)
7 - 9      (n=16)
4 - 6      (n=38)
2 - 3      (n=80)
0 - 1      (n=189)

*Los Angeles County zip code boundaries as of April 2007
Total number of live births in Los Angeles County, 2010 = 133,160
Total number of fetal deaths in Los Angeles County, 2010 = 691
Note: Fetal death is defined as deaths occurring at 20 weeks or more gestation.
Zip code 90704 (Catalina Island) is not included. Total number of fetal deaths in 90704, 2010 = 0
Year 2020 Objective: Reduce the fetal mortality (20 or more weeks of gestation) rate to no more than 5.6 per 1,000 live births plus fetal deaths.

Year 2010 Objective: Reduce the fetal mortality (20 or more weeks of gestation) rate to no more than 4.1 per 1,000 live births plus fetal deaths.

Fetal mortality rate per 1,000 live births plus fetal deaths in Los Angeles County, 2010 = 4.9

Total number of live births in Los Angeles County, 2009 = 133,160

*Los Angeles County zip code boundaries as of April 2007

Fetal Mortality Rate by Zip Code* and Service Planning Area (SPA)

Los Angeles County, 2010

*Note: Fetal mortality rate is defined as deaths occurring at 20 weeks or more gestation per 1,000 live births plus fetal deaths.