TITLE V INDICATOR TEMPLATES

INDICATOR: Infant mortality

DEFINITION: The number of infant deaths occurring at less than 365 days of age per 1,000 live births

NUMERATOR: The number of infant deaths occurring at less than 365 days of age, by place of residence, in a calendar year

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

HEALTHY PEOPLE 2000 OBJECTIVE:
Reduce the infant mortality rate to no more than 7 per 1,000 live births. (Baseline: 10.1 per 1,000 live births in 1987) (Objective 14.1)
No more than 7 infant deaths per 1,000 live births

RISK FACTORS: Race/ethnicity; prematurity/disorders related to short gestation; low birth weight; congenital anomalies; young maternal age; low maternal education level; maternal tobacco use; maternal alcohol or substance use/abuse; poor maternal nutrition; inadequate prenatal care; unintended pregnancy; maternal psychosocial problems; maternal medical complications/chronic illness during pregnancy (including diabetes); pregnancy complications; short interpregnancy interval; injury (including domestic violence); infection; respiratory distress syndrome; family history of SIDS

<table>
<thead>
<tr>
<th>Year</th>
<th>Number</th>
<th>Rate</th>
<th>Lower</th>
<th>Upper</th>
<th>Number</th>
<th>Rate</th>
<th>Lower</th>
<th>Upper</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990</td>
<td>4,828</td>
<td>7.9</td>
<td>7.7</td>
<td>8.1</td>
<td>1,628</td>
<td>8.0</td>
<td>7.6</td>
<td>8.4</td>
</tr>
<tr>
<td>1991</td>
<td>4,596</td>
<td>7.5</td>
<td>7.3</td>
<td>7.8</td>
<td>1,588</td>
<td>7.8</td>
<td>7.4</td>
<td>8.2</td>
</tr>
<tr>
<td>1992</td>
<td>4,174</td>
<td>6.9</td>
<td>6.7</td>
<td>7.2</td>
<td>1,421</td>
<td>7.2</td>
<td>6.8</td>
<td>7.6</td>
</tr>
<tr>
<td>1993</td>
<td>3,970</td>
<td>6.8</td>
<td>6.6</td>
<td>7.0</td>
<td>1,381</td>
<td>7.3</td>
<td>6.9</td>
<td>7.7</td>
</tr>
<tr>
<td>1994</td>
<td>3,948</td>
<td>7.0</td>
<td>6.7</td>
<td>7.2</td>
<td>1,252</td>
<td>6.9</td>
<td>6.6</td>
<td>7.3</td>
</tr>
<tr>
<td>1995</td>
<td>3,478</td>
<td>6.3</td>
<td>6.1</td>
<td>6.5</td>
<td>1,176</td>
<td>6.7</td>
<td>6.3</td>
<td>7.1</td>
</tr>
<tr>
<td>1996</td>
<td>3,186</td>
<td>5.9</td>
<td>5.7</td>
<td>6.1</td>
<td>999</td>
<td>5.9</td>
<td>5.5</td>
<td>6.3</td>
</tr>
<tr>
<td>1997</td>
<td>3,091</td>
<td>5.9</td>
<td>5.7</td>
<td>6.1</td>
<td>950</td>
<td>5.9</td>
<td>5.5</td>
<td>6.2</td>
</tr>
<tr>
<td>1998</td>
<td>2,994</td>
<td>5.7</td>
<td>5.5</td>
<td>5.9</td>
<td>936</td>
<td>5.3</td>
<td>5.5</td>
<td>6.3</td>
</tr>
</tbody>
</table>

Source: 1990-1998 birth and death records from California Department of Health Services, Center for Health Statistics
Year 2000 Objective: Reduce the infant mortality rate to no more than 7 per 1,000 live births.

Source: 1990-1998 birth and death records from California Department of Health Services, Center for Health Statistics
<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Number</th>
<th>Infant Mortality Rate</th>
<th>95% Confidence Interval</th>
<th>Total Live Births</th>
<th>Year 2000 Objective</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Reduce the infant mortality rate to no more than 7 per 1,000 live births.</td>
</tr>
<tr>
<td>White</td>
<td>157</td>
<td>5.1</td>
<td>4.3 - 5.9</td>
<td>30,621</td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
<td>515</td>
<td>5.3</td>
<td>4.8 - 5.7</td>
<td>98,074</td>
<td></td>
</tr>
<tr>
<td>African American</td>
<td>193</td>
<td>13.5</td>
<td>11.6 - 15.4</td>
<td>14,246</td>
<td></td>
</tr>
<tr>
<td>Asian** / Pacific Islander</td>
<td>67</td>
<td>4.5</td>
<td>3.4 - 5.5</td>
<td>14,968</td>
<td></td>
</tr>
<tr>
<td>Native American</td>
<td>0</td>
<td>a</td>
<td>a</td>
<td>262</td>
<td>Filipino is included in Asian race category.</td>
</tr>
<tr>
<td>Other / Unknown</td>
<td>4</td>
<td>a</td>
<td>a</td>
<td>433</td>
<td>a: Rates are not calculated if no more than five deaths.</td>
</tr>
<tr>
<td>Total</td>
<td>936</td>
<td>5.9</td>
<td>5.5 - 6.3</td>
<td>158,604</td>
<td></td>
</tr>
</tbody>
</table>

** White, African American, Native American and other races exclude Hispanic ethnicity
** Hispanic includes any race category
** Filipino is included in Asian race category.

- Rates are not calculated if no more than five deaths.

Year 2000 Objective:
- Reduce the infant mortality rate to no more than 7 per 1,000 live births.

Note:
- Infant mortality rate is defined as deaths occurring less than 365 days per 1,000 live births.

Source:
- 1998 birth and death records from the California Department of Health Services, Center for Health Statistics.

---

**Infant Mortality Rate by Race/Ethnicity**
Los Angeles County 1998

- White: 5.1
- Hispanic: 5.3
- African American: 13.5
- Asian** / Pacific Islander: 4.5

- Year 2000 Objective: Reduce the infant mortality rate to no more than 7 per 1,000 live births.
- Note: Infant mortality rate is defined as deaths occurring less than 365 days per 1,000 live births.

Source:
- 1998 birth and death records from the California Department of Health Services, Center for Health Statistics.
Los Angeles County - Department of Health Services

Infant Mortality Rate by Zip Code*

Los Angeles County, 1998

Infant mortality rate is defined as deaths occurring in less 365 days per 1,000 live births

Source: Los Angeles County Department of Health Services, Family Health Programs, Epidemiology Assessment Unit

Based on 1998 birth records from California Department of Health Services, Center for Health Statistics

*Los Angeles County zip code boundaries as of April 1999.

**Year 2000 Objective: Reduce the infant mortality rate to no more than 7 per 1,000 live births.
Los Angeles County - Department of Health Services

Number of Infant Deaths by Zip Code*

Los Angeles County, 1998

*Los Angeles County zip code boundaries as of April 1999.

Note: Infant death is defined as death occurring at less than 365 days of age.

Source: Los Angeles County Department of Health Services,
Family Health Programs, Epidemiology Assessment Unit

Based on 1998 birth records from California Department of Health Services,
Center for Health Statistics

Infant Deaths

- 14 to 18 (n=12)
- 10 to 13 (n=9)
- 7 to 9 (n=23)
- 4 to 6 (n=57)
- 1 to 3 (n=115)
- 0 (n=72)

n = total number of zip codes in range
**TITLE V INDICATOR TEMPLATES**

**INDICATOR:** Neonatal mortality

**DEFINITION:** The number of infant deaths per 1,000 live births occurring at less than 28 days of age

**NUMERATOR:** The number of infant deaths occurring at less than 28 days of age, by place of residence, in a calendar year

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

**HEALTHY PEOPLE 2000 OBJECTIVE:**
Reduce the neonatal mortality rate to no more than 4.5 per 1,000 live births.
(Baseline: 6.5 in 1987) (Objective 14.1d)

**RISK FACTORS:** Congenital anomalies; respiratory distress syndrome; short gestation; low birthweight; maternal complications; race/ethnicity (African American, Puerto Rican)

See also risk factors for infant mortality.

<table>
<thead>
<tr>
<th>Year</th>
<th>Neonatal Mortality</th>
<th>95% Confidence Interval</th>
<th>Neonatal Mortality</th>
<th>95% Confidence Interval</th>
<th>DEMOMINATOR: Live Births</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Rate</td>
<td>Lower</td>
<td>Upper</td>
<td>Number</td>
</tr>
<tr>
<td>1990</td>
<td>2,959</td>
<td>4.8</td>
<td>4.7</td>
<td>5.0</td>
<td>1,037</td>
</tr>
<tr>
<td>1991</td>
<td>2,774</td>
<td>4.6</td>
<td>4.4</td>
<td>4.7</td>
<td>966</td>
</tr>
<tr>
<td>1992</td>
<td>2,545</td>
<td>4.2</td>
<td>4.1</td>
<td>4.4</td>
<td>884</td>
</tr>
<tr>
<td>1993</td>
<td>2,429</td>
<td>4.2</td>
<td>4.0</td>
<td>4.3</td>
<td>868</td>
</tr>
<tr>
<td>1994</td>
<td>2,467</td>
<td>4.4</td>
<td>4.2</td>
<td>4.5</td>
<td>819</td>
</tr>
<tr>
<td>1995</td>
<td>2,164</td>
<td>3.9</td>
<td>3.8</td>
<td>4.1</td>
<td>759</td>
</tr>
<tr>
<td>1996</td>
<td>2,041</td>
<td>3.8</td>
<td>3.6</td>
<td>4.0</td>
<td>649</td>
</tr>
<tr>
<td>1997</td>
<td>2,056</td>
<td>3.9</td>
<td>3.8</td>
<td>4.1</td>
<td>629</td>
</tr>
<tr>
<td>1998</td>
<td>1,953</td>
<td>3.8</td>
<td>3.7</td>
<td>4.0</td>
<td>625</td>
</tr>
</tbody>
</table>

**Source:** 1990-1998 birth and death records from California Department of Health Services, Center for Health Statistics
Year 2000 Objective: Reduce the neonatal mortality rate to no more than 4.5 per 1,000 live births.

Source: 1990-1998 birth and death records from California Department of Health Services, Center for Health Statistics
### Los Angeles County, 1998

#### Neonatal Mortality Rate* by Race/Ethnicity**

Los Angeles County, 1998

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Total Live Births</th>
<th>Rate</th>
<th>Lower</th>
<th>Upper</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>30,621</td>
<td>3.7</td>
<td>3.0</td>
<td>4.4</td>
</tr>
<tr>
<td>Hispanic</td>
<td>98,074</td>
<td>3.5</td>
<td>3.2</td>
<td>3.9</td>
</tr>
<tr>
<td>African American</td>
<td>14,246</td>
<td>8.3</td>
<td>6.8</td>
<td>9.8</td>
</tr>
<tr>
<td>Asian** / Pacific Islander</td>
<td>14,968</td>
<td>2.9</td>
<td>2.0</td>
<td>3.7</td>
</tr>
<tr>
<td>Other / Unknown</td>
<td>433</td>
<td>a</td>
<td>a</td>
<td>a</td>
</tr>
<tr>
<td>Total</td>
<td>158,604</td>
<td>3.9</td>
<td>3.6</td>
<td>4.3</td>
</tr>
</tbody>
</table>

#### Year 2000 Objective:
Reduce the neonatal mortality rate to no more than 4.5 per 1,000 live births.

#### Note:
*Neonatal mortality rate is defined as deaths less than 28 days per 1,000 live births.

Source: 1998 birth and death records from the California Department of Health Services, Center for Health Statistics
Los Angeles County - Department of Health Services

Number of Neonatal Deaths by Zip Code*
Los Angeles County, 1998

Note: Neonatal deaths are defined as deaths occurring less than 28 days per 1,000 live births.

Source: Los Angeles County Department of Health Services, Family Health Programs, Epidemiology Assessment Unit
Based on 1998 birth records from California Department of Health Services, Center for Health Statistics

*Los Angeles County zip code boundaries as of April 1999.
Neonatal Mortality Rate by Zip Code*
Los Angeles County, 1998

Los Angeles County - Department of Health Services

Neonatal Mortality Rate

11.80 to 52.70 (n=9)
7.90 to 11.79 (n=22)
5.40 to 7.89 (n=39)
3.80 to 5.39 (n=45)
0.01 to 3.79 (n=81)
0.00 (n=93)

Source: Los Angeles County Department of Health Services, Family Health Programs, Epidemiology Assessment Unit
Based on 1998 birth records from California Department of Health Services, Center for Health Statistics

Year 2000 Objective: Reduce the neonatal mortality rate to no more than 4.5 per 1,000 live births.

*Los Angeles County zip code boundaries as of April 1999.

Note: Neonatal mortality rate is defined as deaths occurring less than 28 days per 1,000 live births.
TITLE V INDICATOR TEMPLATES

INDICATOR: Post-neonatal mortality

DEFINITION: The number of infant deaths per 1,000 live births occurring between 28 and 364 days of age

NUMERATOR: The number of infant deaths occurring at age 28 to 364 days of age, by place of residence, in a calendar year

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

HEALTHY PEOPLE 2000 OBJECTIVE:
Reduce the post-neonatal mortality rate to no more than 2.5 per 1,000 live births. (Baseline: 3.6 in 1987) (Objective 14.1g)

RISK FACTORS:
Congenital anomalies; injuries; infection in late pregnancy; family history of SIDS; maternal smoking or drug use; young maternal age (teen births); race/ethnicity (African American, American Indian, Puerto Rican)

See also risk factors for infant mortality.

<table>
<thead>
<tr>
<th>Year</th>
<th>California</th>
<th>LA County</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Post-Neonatal Mortality</td>
<td>95% Confidence Interval</td>
</tr>
<tr>
<td></td>
<td>Number</td>
<td>Rate</td>
</tr>
<tr>
<td>1990</td>
<td>1,789</td>
<td>3.1</td>
</tr>
<tr>
<td>1991</td>
<td>1,822</td>
<td>3.0</td>
</tr>
<tr>
<td>1992</td>
<td>1,629</td>
<td>2.7</td>
</tr>
<tr>
<td>1993</td>
<td>1,541</td>
<td>2.6</td>
</tr>
<tr>
<td>1994</td>
<td>1,481</td>
<td>2.6</td>
</tr>
<tr>
<td>1995</td>
<td>1,314</td>
<td>2.4</td>
</tr>
<tr>
<td>1996</td>
<td>1,145</td>
<td>2.1</td>
</tr>
<tr>
<td>1997</td>
<td>1,035</td>
<td>2.0</td>
</tr>
<tr>
<td>1998</td>
<td>1,001</td>
<td>1.9</td>
</tr>
</tbody>
</table>

Source: 1990-1998 birth and death records from California Department of Health Services, Center for Health Statistics
Year 2000 Objective: Reduce the neonatal mortality rate to no more than 2.5 per 1,000 live births.

Source: 1990-1998 birth and death records from California Department of Health Services, Center for Health Statistics
### Year 2000 Objective:
Reduce the post-neonatal mortality rate to no more than 2.5 per 1,000 live births.

### Notes:
- Post-neonatal mortality rate is defined as deaths occurring between ages 28 and 364 days per 1,000 live births.
- Hispanic includes any race category.
- Filipino is included in Asian.
- Rates are not calculated if no more than five deaths.

### Source:
1998 birth and death records from the California Department of Health Services, Center for Health Statistics.
Los Angeles County - Department of Health Services

Number of Post-Neonatal Deaths by Zip Code*

Los Angeles County, 1998

Post-neonatal deaths are defined as deaths occurring between ages 28 and 364 days per 1,000 live births.

Source:
Los Angeles County Department of Health Services, Family Health Programs, Epidemiology Assessment Unit
Based on 1998 birth records from California Department of Health Services, Center for Health Statistics

Legend:
- 5 to 12 (n=11)
- 4 to 4 (n=11)
- 3 to 3 (n=22)
- 2 to 2 (n=33)
- 1 to 1 (n=56)
- 0 (n=156)

Note:
Los Angeles County zip code boundaries as of April 1999.

90704
Post-Neonatal Rate by Zip Code*

Los Angeles County, 1998

Post-Neonatal Deaths Rate

6.60 to 11.90 (n=11)
4.80 to 6.59 (n=16)
3.40 to 4.79 (n=24)
2.60 to 3.39 (n=29)
0.01 to 2.59 (n=53)
0.00 (n=156)

n = total number of zip codes in range

*Los Angeles County zip code boundaries as of April 1999.

Note: Post-Neonatal mortality rate is defined as deaths occurring between ages 28 and 364 days per 1,000 live births.

Source:
Los Angeles County Department of Health Services, Family Health Programs, Epidemiology Assessment Unit.
Based on 1998 birth records from California Department of Health Services, Center for Health Statistics.

Year 2000 Objective: Reduce the post-neonatal mortality rate to no more than 2.5 per 1,000 live births.