INFANT MORTALITY RATES
ALABAMA, 1997-2007

<table>
<thead>
<tr>
<th>Year</th>
<th>Rate per 1,000 Live Births</th>
</tr>
</thead>
<tbody>
<tr>
<td>1997</td>
<td>9.5</td>
</tr>
<tr>
<td>1998</td>
<td>10.2</td>
</tr>
<tr>
<td>1999</td>
<td>9.8</td>
</tr>
<tr>
<td>2000</td>
<td>9.4</td>
</tr>
<tr>
<td>2001</td>
<td>9.4</td>
</tr>
<tr>
<td>2002</td>
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</tr>
<tr>
<td>2003</td>
<td>8.7</td>
</tr>
<tr>
<td>2004</td>
<td>8.7</td>
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<tr>
<td>2005</td>
<td>9.3</td>
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<tr>
<td>2006</td>
<td>9.0</td>
</tr>
<tr>
<td>2007</td>
<td>10.0</td>
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</table>
INFANT MORTALITY RATES
ALABAMA AND UNITED STATES¹ 1965-2007

¹ 2004 US rate is provisional.
INFANT MORTALITY RATES, WHITE INFANTS
ALABAMA, 1997-2007

Rate per 1,000 Live Births

7.5 7.6 6.9 6.5 6.8 7.0 6.5 6.7 7.2 6.7 8.0

Year

Rate per 1,000 Live Births
INFANT MORTALITY RATES, BLACK INFANTS
ALABAMA, 1997-2007

Rate per 1,000 Live Births

Year


13.8 15.6 16.0 15.4 15.2 14.0 14.1 13.3 14.4 14.3 14.6

Rate per 1,000 Live Births
Multivariate Analysis of Linked Birth/Infant Death File from 1991-2005

Analysis was conducted controlling for the following factors:

- Low birth weight
- Multiple births
- Teen age mother
- Adequate weight gain
- Birth order
- Maternal smoking
- Educational attainment of mother
- Race
- Method of payment for delivery
- Marital status
- Adequacy of prenatal care
Multivariate Analysis
ODDS OF INFANT DEATH BLACK MOTHERS
VERSUS OTHER RACES

Multivariate result is statistically significant
INFANT MORTALITY RATES
ALABAMA AND UNITED STATES\(^1\) BY RACE, 1997-2007

\(\frac{\text{Rate per 1,000 Live Births}}{\text{Year}}\)

- **US-BLACK**: 13.7
- **AL-BLACK**: 14.6
- **US-WHITE**: 5.7
- **AL-WHITE**: 8.0

\(^1\) 2004 US rate is provisional 2005 US rate is not available.
INFANT MORTALITY RATES
HISPANIC INFANTS, ALABAMA, 1997-2007

Rate per 1,000 Live Births

YEAR

INFANT MORTALITY RATES
TEENAGERS vs. ADULTS  ALABAMA, 2007

Rate per 1,000 Live Births

Teenagers: 13.8
Adults: 9.4
Multivariate Analysis
ODDS OF INFANT DEATH TEEN MOTHER VERSUS ADULT MOTHER

Multivariate result is statistically significant
PERCENT OF LOW WEIGHT BIRTHS BY RACE
ALABAMA, 1960-2007

Percent of Live Births

Year


Total
White
Black & Other
INFANT MORTALITY RATES
LOW vs. NORMAL WEIGHT BIRTHS
ALABAMA, 1997-2007

Rate per 1,000 Live Births

Year


LOW WEIGHT

NORMAL WEIGHT

Rate per 1,000 Live Births

63.5

3.2
Multivariate Analysis
ODDS OF INFANT DEATH LOW BIRTH WEIGHT VERSUS NORMAL BIRTH WEIGHT

Multivariate result is statistically significant

ODDS RATIO

20.86

16.71
NUMBER OF BIRTHS WEIGHING LESS THAN 500 GRAMS, ALABAMA, 1997-2007

Number of Live Births

Year


143 161 160 155 136 134 137 126 147 147 171

Number of Live Births
MULTIPLE BIRTHS AS A PERCENT OF TOTAL BIRTHS
ALABAMA, 1997-2007
INFANT MORTALITY RATES
SINGLETON AND MULTIPLE BIRTHS
ALABAMA, 1997-2007

Rate per 1,000 Live Births

MULTIPLE

SINGLETON

Year


2006 2007

53.7

8.5
Multivariate Analysis

ODDS OF INFANT DEATH MULTIPLE BIRTH VERSUS SINGLETON BIRTH

Multivariate result is statistically significant
PERCENT OF BIRTHS WITH ADEQUATE PRENATAL CARE\textsuperscript{1}
ALABAMA, 1997-2007

Adequacy of care measured using the Kessner index.
INFANT MORTALITY RATES BY ADEQUACY OF PRENATAL CARE
ALABAMA, 2007

Adequacy of care measured using the Kessner index.
Multivariate Analysis

ODDS OF INFANT DEATH LESS THAN ADEQUATE PRENATAL CARE VERSUS ADEQUATE

Multivariate result is not statistically significant
BIRTHS WITH NO PRENATAL CARE
ALABAMA 1997-2007

Number of births vs. Year

Year

Number of births
0 200 400 600 800 1000 1200 1400 1600

620 689 710 702 672 675 727 791 987 1246 1496

23
INFANT MORTALITY RATE BY METHOD OF PAYMENT, ALABAMA, 2007

Rate per 1,000 Live Births

Method of Payment

- Medicaid: 11.0
- Private Insurance: 7.7
- Self Pay: 18.3
Multivariate Analysis

ODDS OF INFANT DEATH MEDICAID VERSUS NONMEDICAID

Multivariate result is not statistically significant
INFANT MORTALITY RATES BY EDUCATIONAL STATUS, ALABAMA, 2007

- < 12 years: 11.8
- H S Graduate: 11.3
- 13 or more: 7.8

Rate per 1,000 Live Births
Multivariate Analysis

ODDS OF INFANT DEATH LESS THAN HIGH SCHOOL GRADUATE VERSUS HIGH SCHOOL GRADUATE OR HIGHER

Multivariate result is statistically significant
MATERNAL SMOKING BY AGE OF MOTHER
ALABAMA, 2000-2007

TEENS

ADULTS

Year

Percent of All Live Births

15.1

12.0

12.7

11.9
INFANT MORTALITY RATES BY SMOKING STATUS, ALABAMA, 2007

Rate per 1,000 Live Births

<table>
<thead>
<tr>
<th>Smoking Status</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoked</td>
<td>12.6</td>
</tr>
<tr>
<td>Did Not Smoke</td>
<td>9.5</td>
</tr>
</tbody>
</table>
Multivariate Analysis

ODDS OF INFANT DEATH SMOKER VERSUS NON-SMOKER

- Multivariate result is statistically significant
Factors for Additional Investigation

- Twins
- Prior Infant Death
- Short Birth Interval
- Maternal Weight Gain
Multivariate Analysis

ODDS OF INFANT DEATH WITH LOW MATERNAL WEIGHT GAIN VERSUS NORMAL WEIGHT GAIN

Multivariate result is statistically significant
Summary

- Very low weight births are up
- Prenatal care is down
- Smoking by mother increases risk of infant death
- Women who had prior infant death at risk
- Low maternal weight gain during pregnancy appears to be a factor
- Deaths for multiple births are up
Interventions

- Fetal-Infant Mortality Review
- Prenatal care for women receiving inadequate or no prenatal care
- Family planning
- Interpregnancy care for targeted group
- Smoking cessation/prevention and second hand smoke