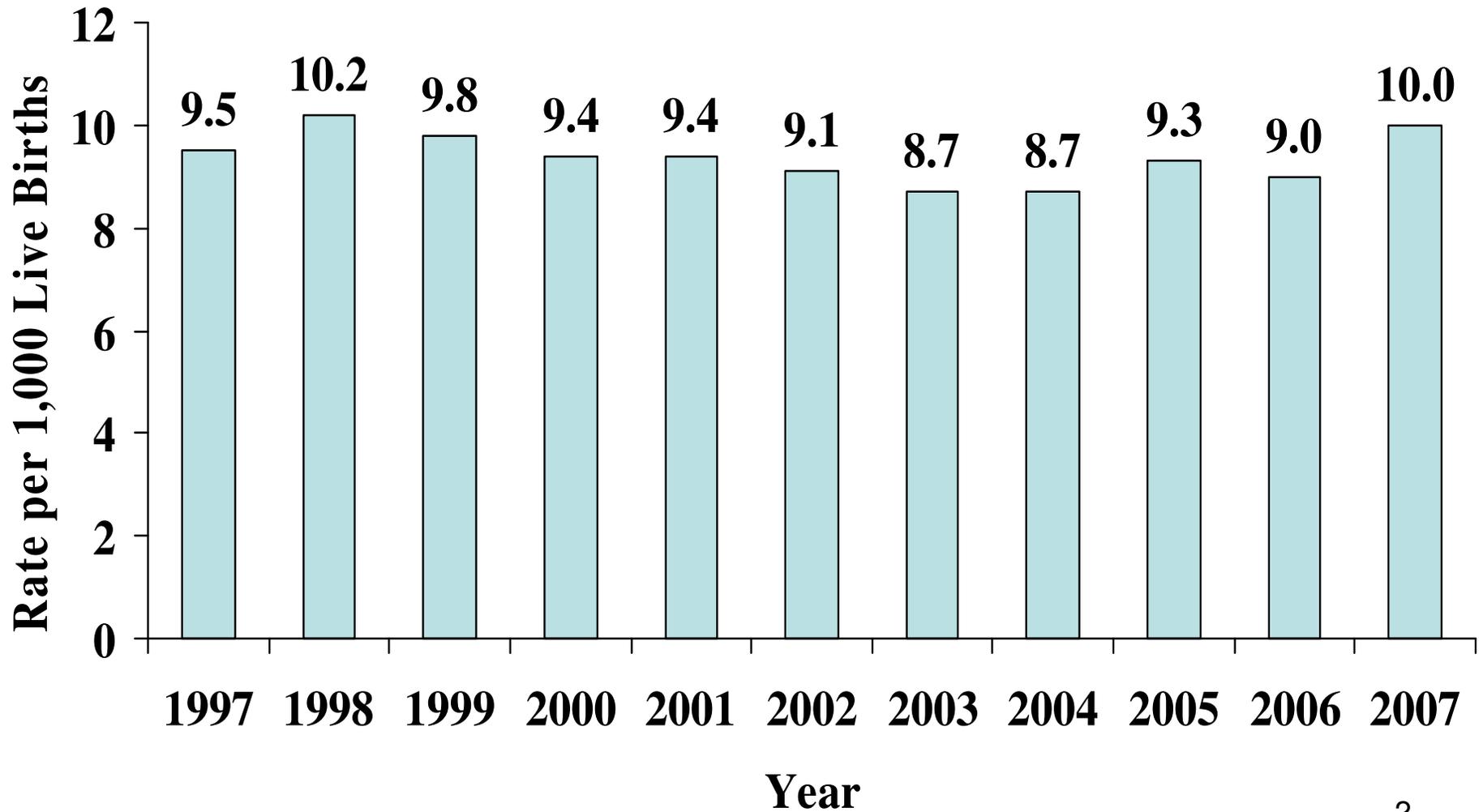


# **INFANT MORTALITY**

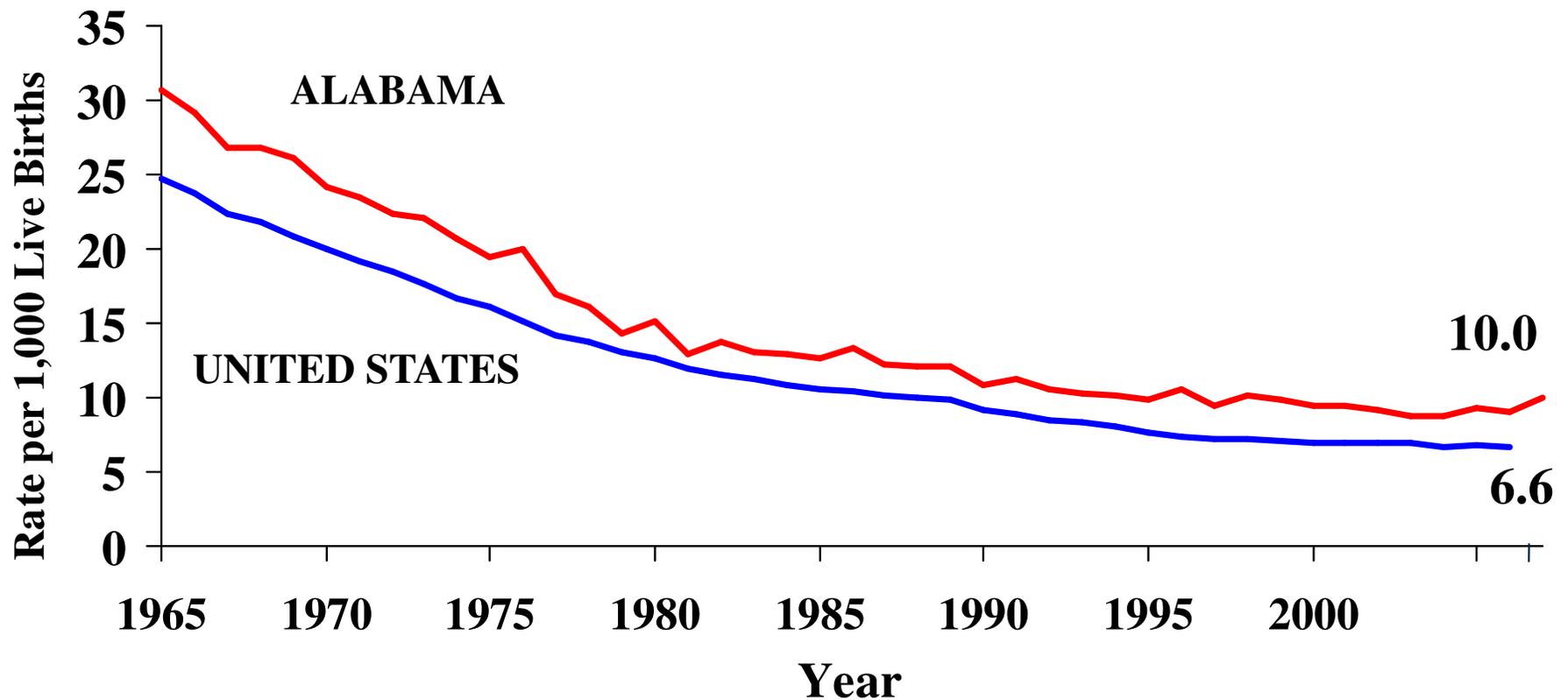
## **ALABAMA 2007**

**ALABAMA DEPARTMENT OF PUBLIC HEALTH**  
**CENTER FOR HEALTH STATISTICS**

# INFANT MORTALITY RATES ALABAMA, 1997-2007

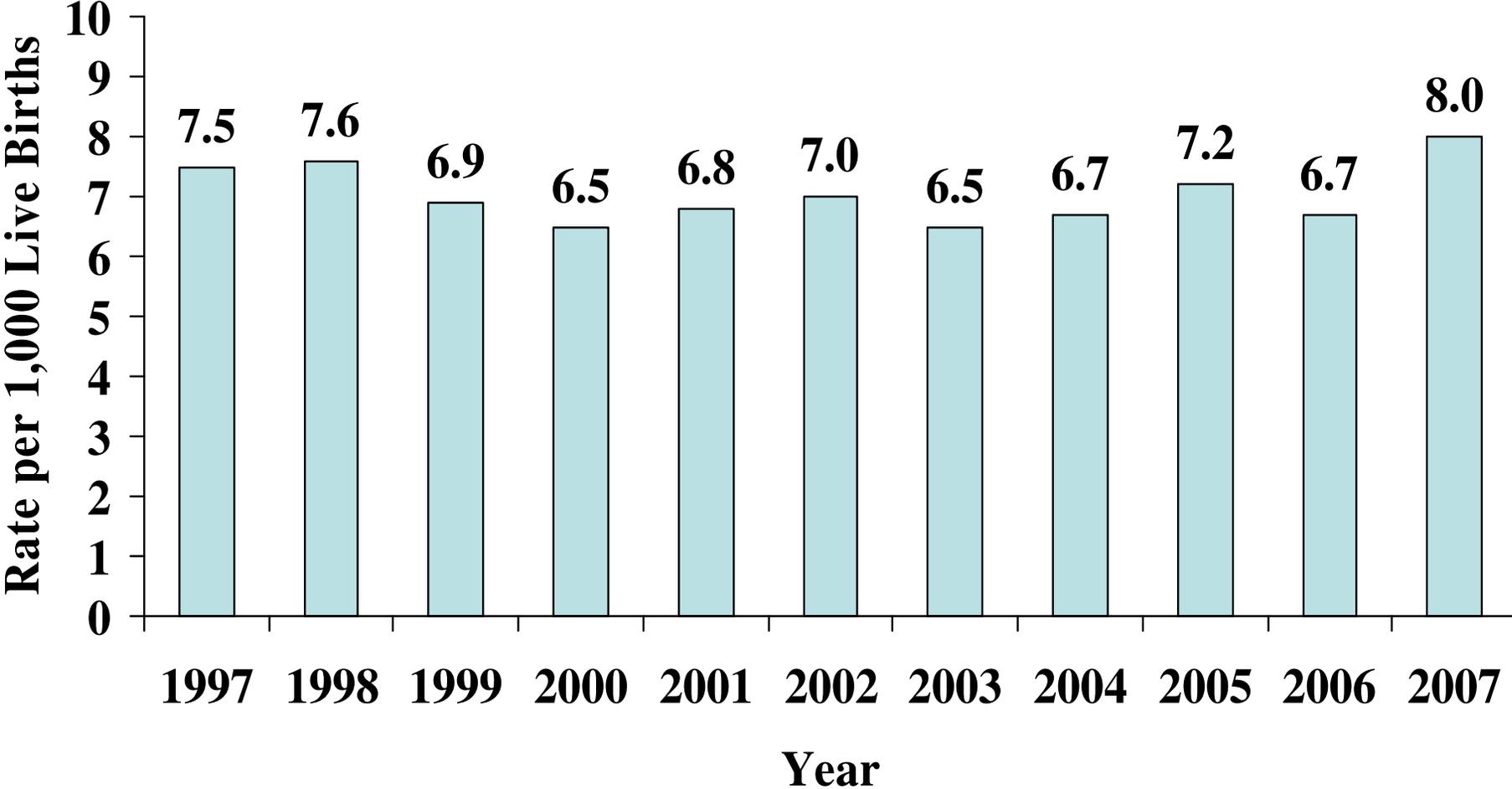


# INFANT MORTALITY RATES ALABAMA AND UNITED STATES<sup>1</sup> 1965-2007

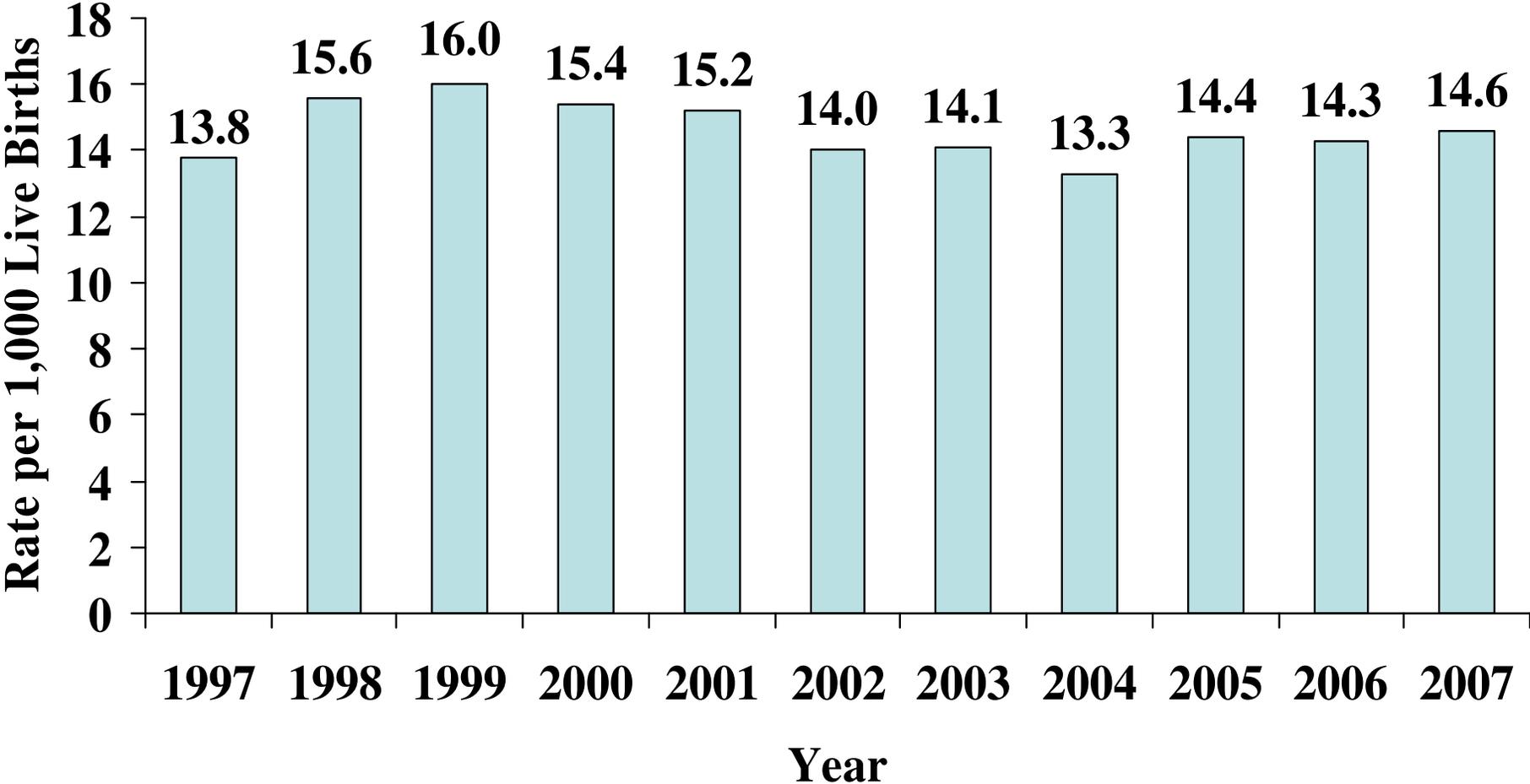


<sup>1</sup> 2004 US rate is provisional.

# INFANT MORTALITY RATES, WHITE INFANTS ALABAMA, 1997-2007



# INFANT MORTALITY RATES, BLACK INFANTS ALABAMA, 1997-2007



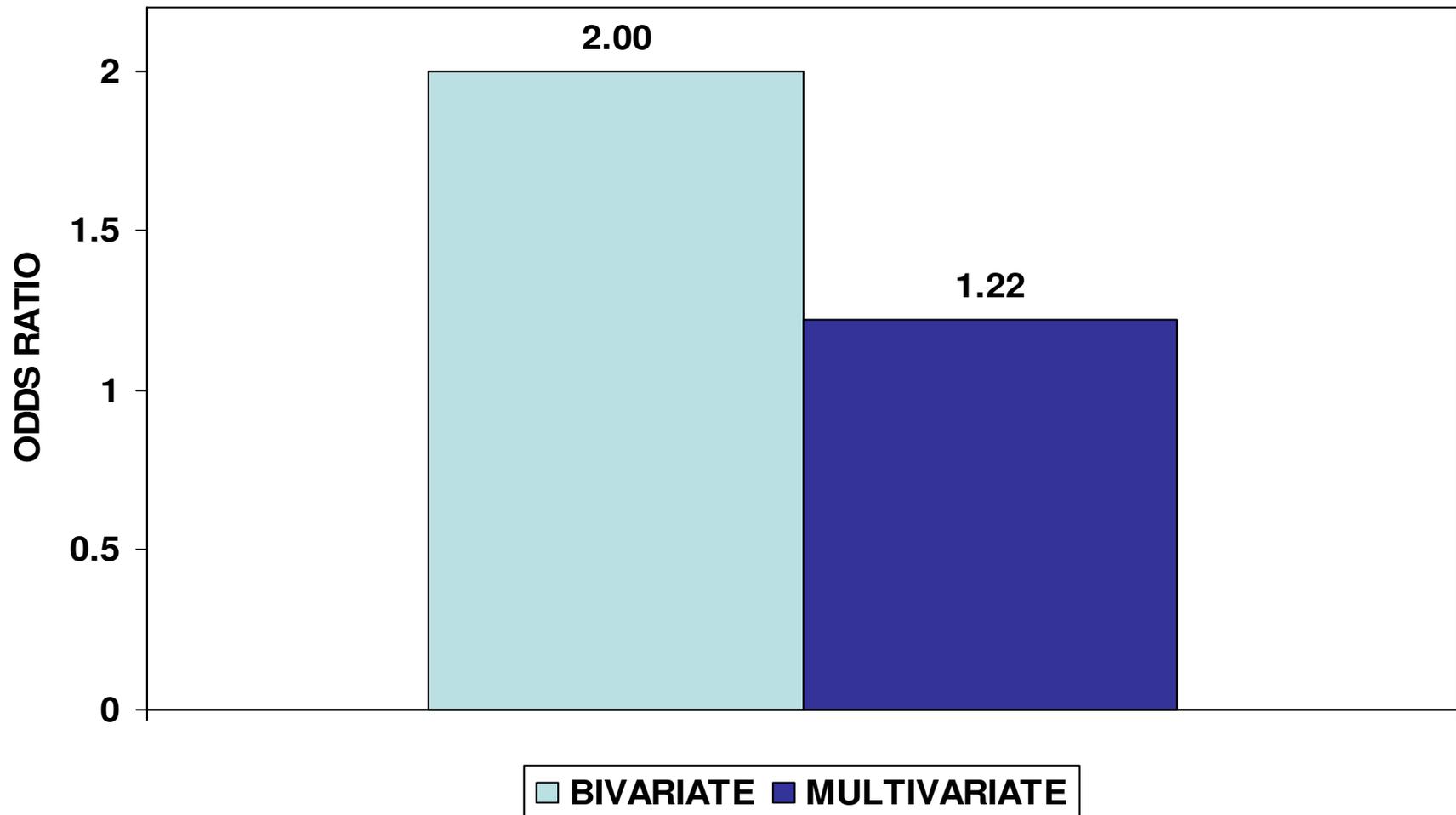
# Multivariate Analysis of Linked Birth/Infant Death File from 1991-2005

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

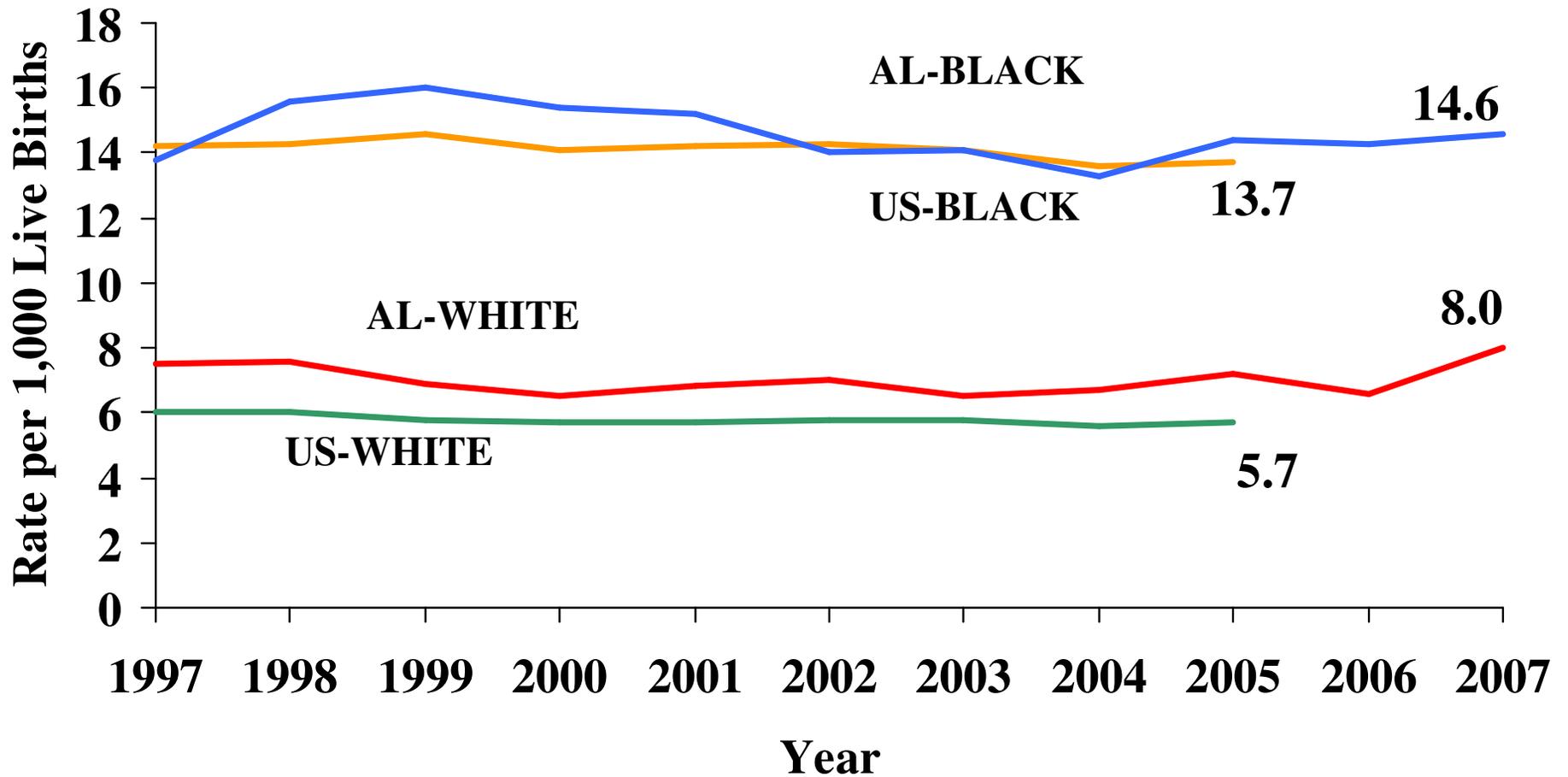
# Multivariate Analysis

## ODDS OF INFANT DEATH BLACK MOTHERS VERSUS OTHER RACES



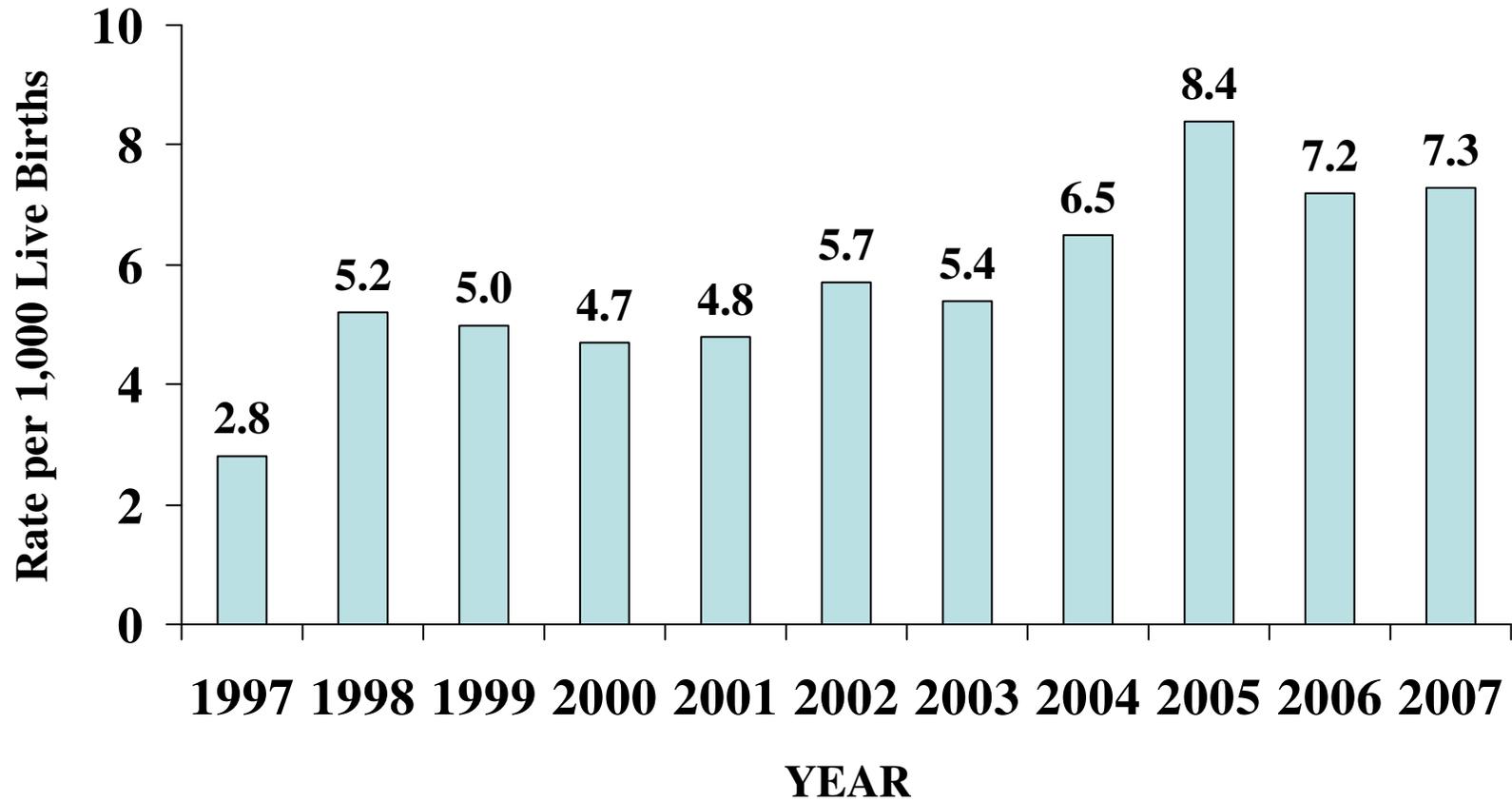
Multivariate result is statistically significant

# INFANT MORTALITY RATES ALABAMA AND UNITED STATES<sup>1</sup> BY RACE, 1997-2007

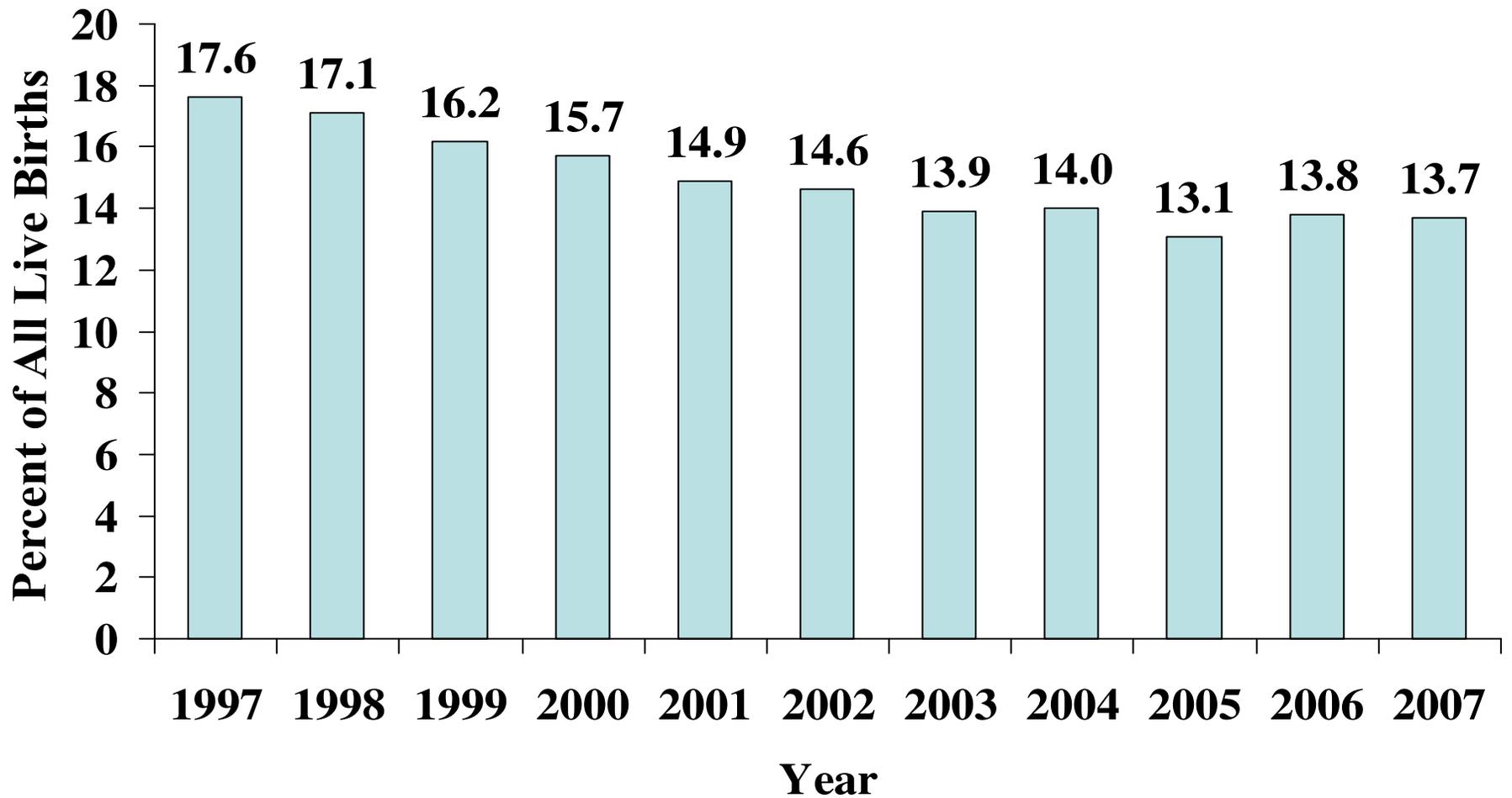


<sup>1</sup> 2004 US rate is provisional 2005 US rate is not available.

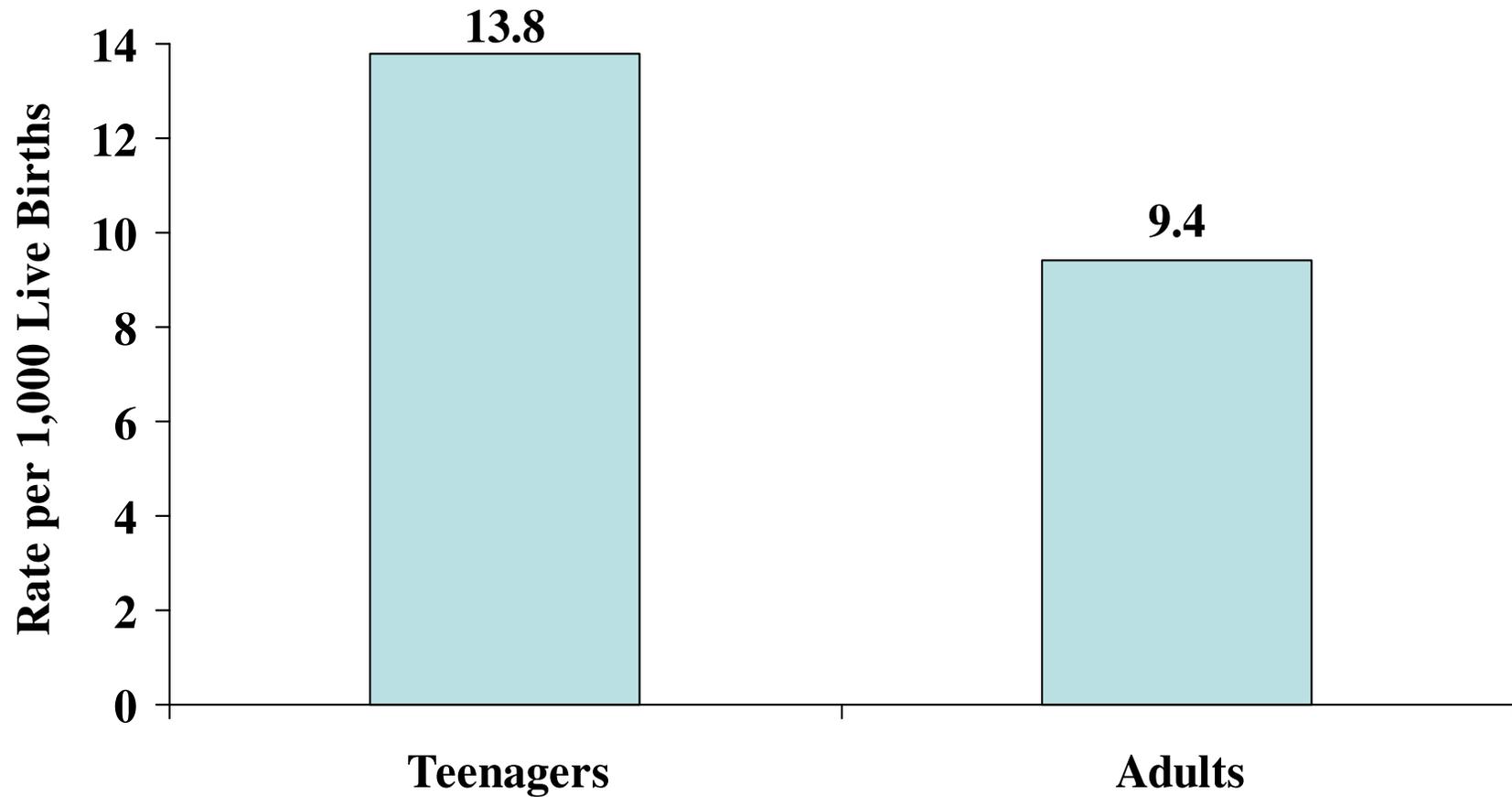
# INFANT MORTALITY RATES HISPANIC INFANTS, ALABAMA, 1997-2007



# PERCENT OF BIRTHS TO TEENAGERS ALABAMA, 1997-2007

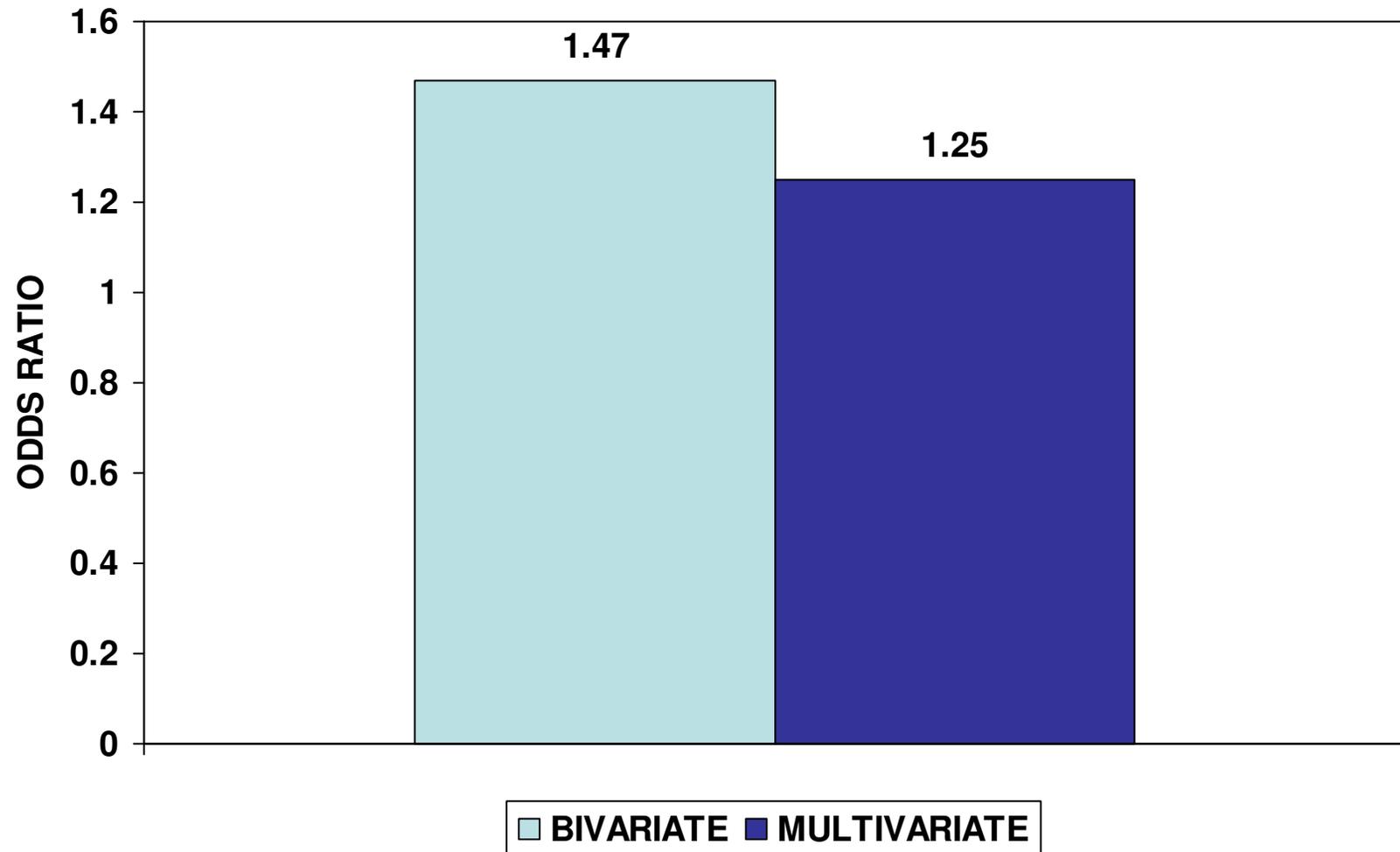


# INFANT MORTALITY RATES TEENAGERS vs. ADULTS ALABAMA, 2007



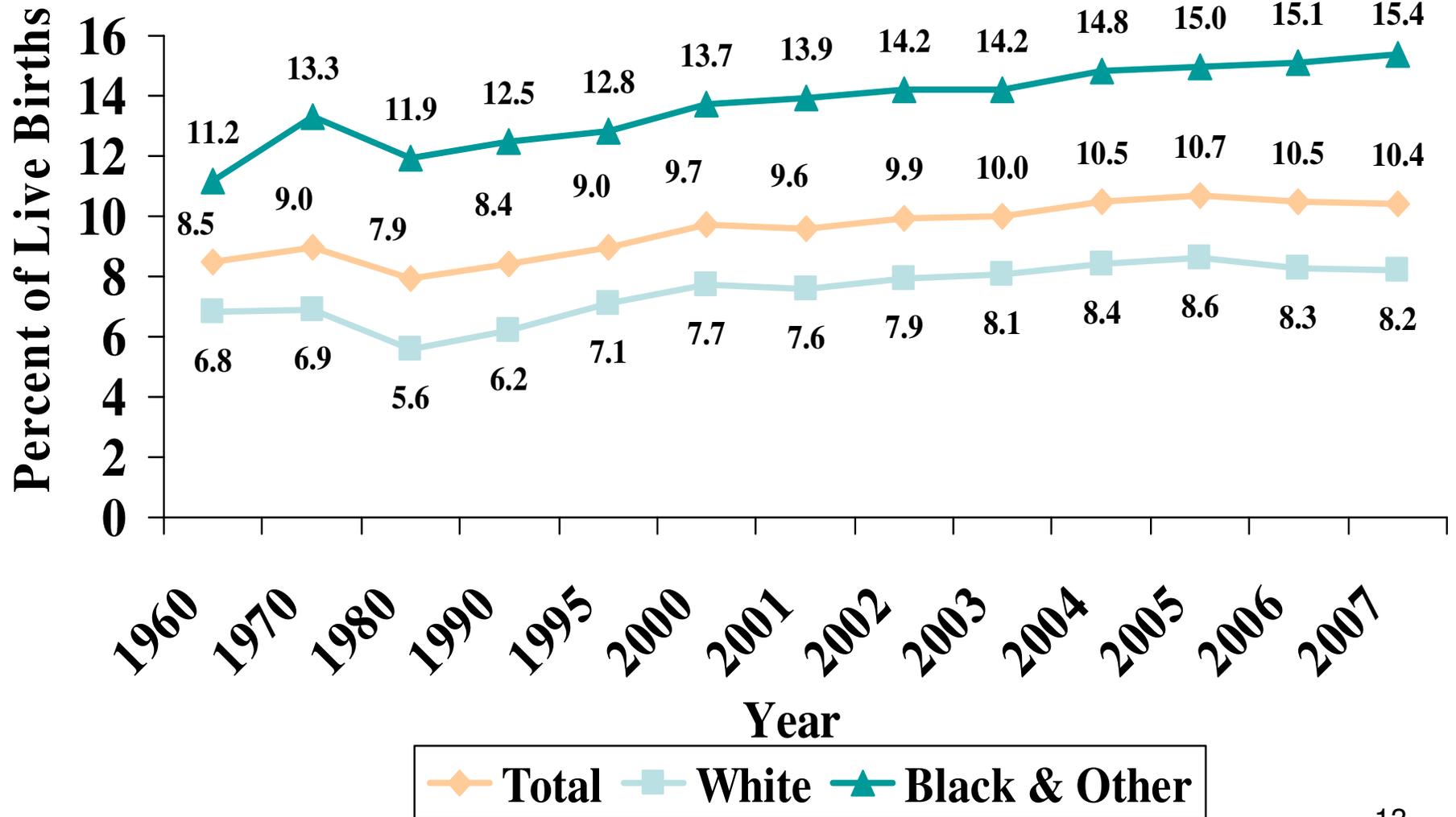
# Multivariate Analysis

## ODDS OF INFANT DEATH TEEN MOTHER VERSUS ADULT MOTHER

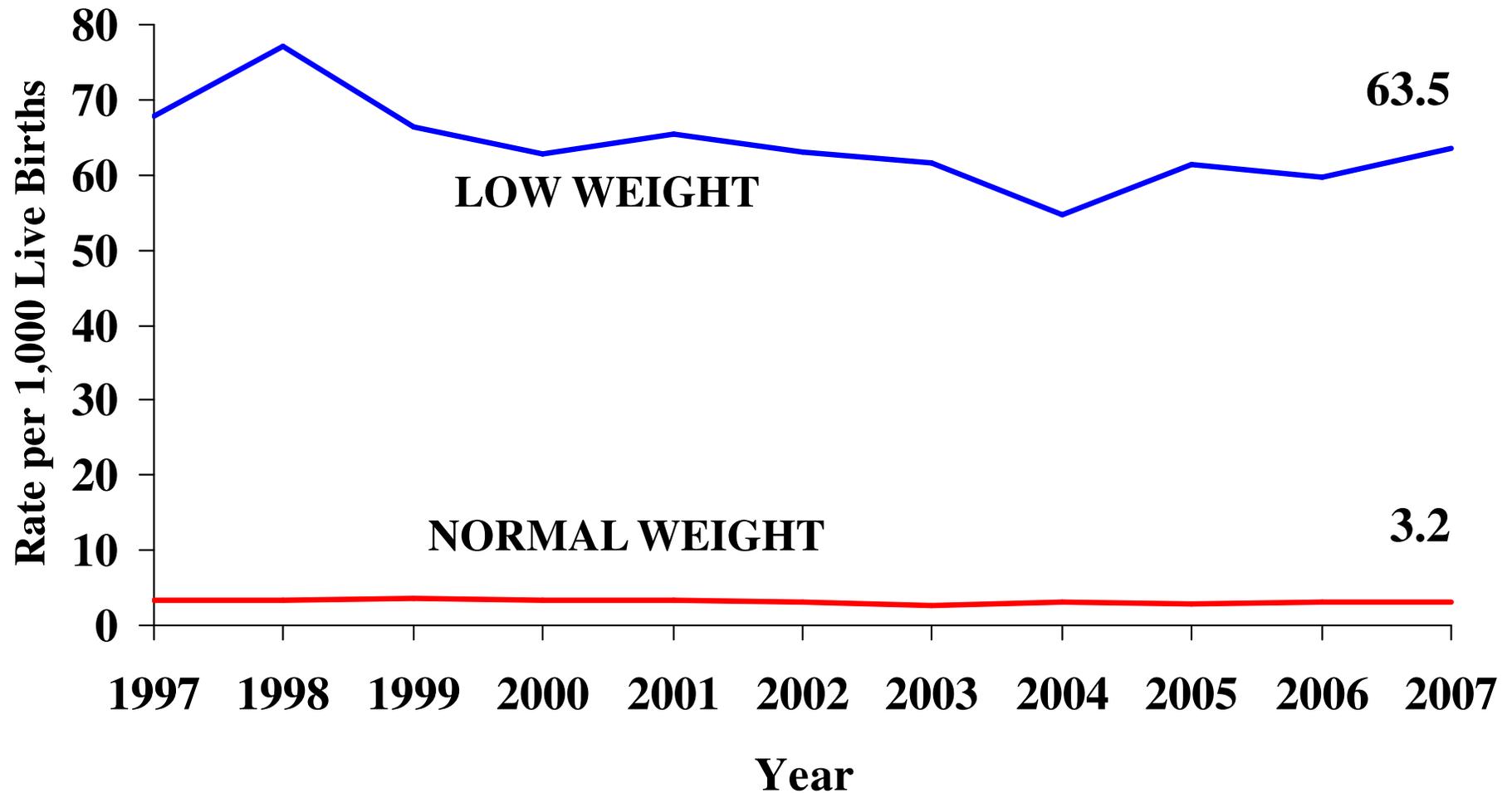


Multivariate result is statistically significant

# PERCENT OF LOW WEIGHT BIRTHS BY RACE ALABAMA, 1960-2007

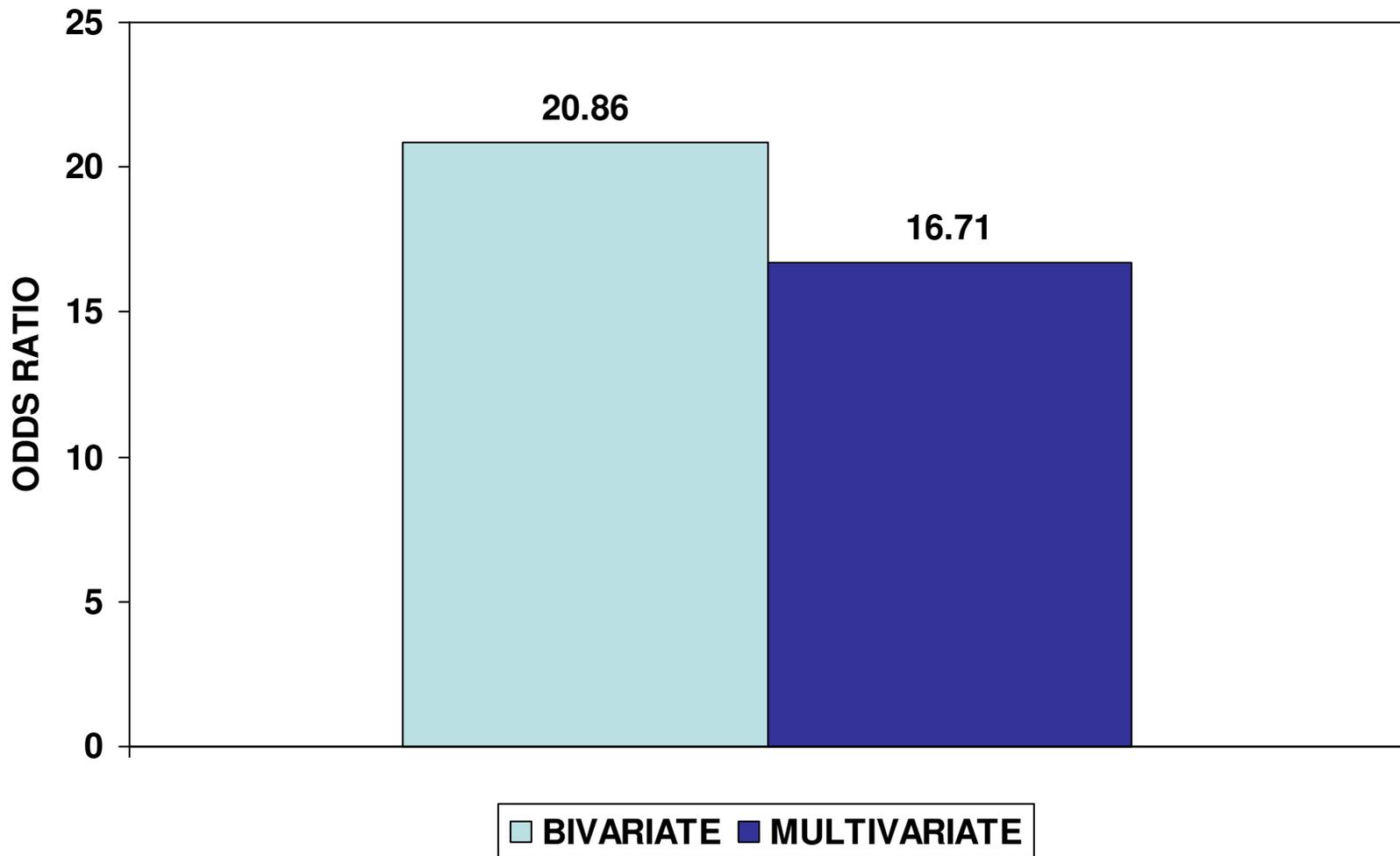


# INFANT MORTALITY RATES LOW vs. NORMAL WEIGHT BIRTHS ALABAMA, 1997-2007



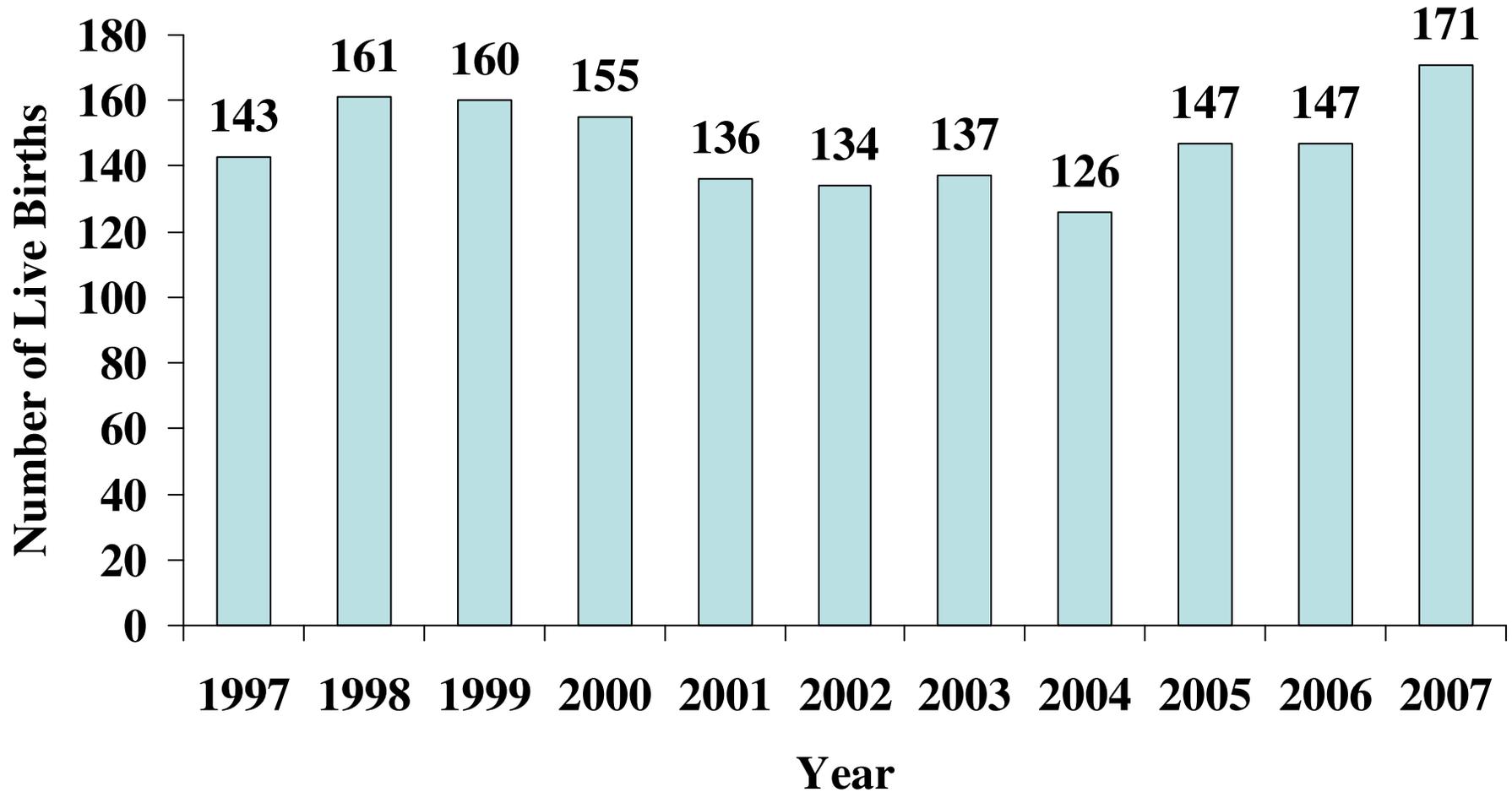
# Multivariate Analysis

## ODDS OF INFANT DEATH LOW BIRTH WEIGHT VERSUS NORMAL BIRTH WEIGHT

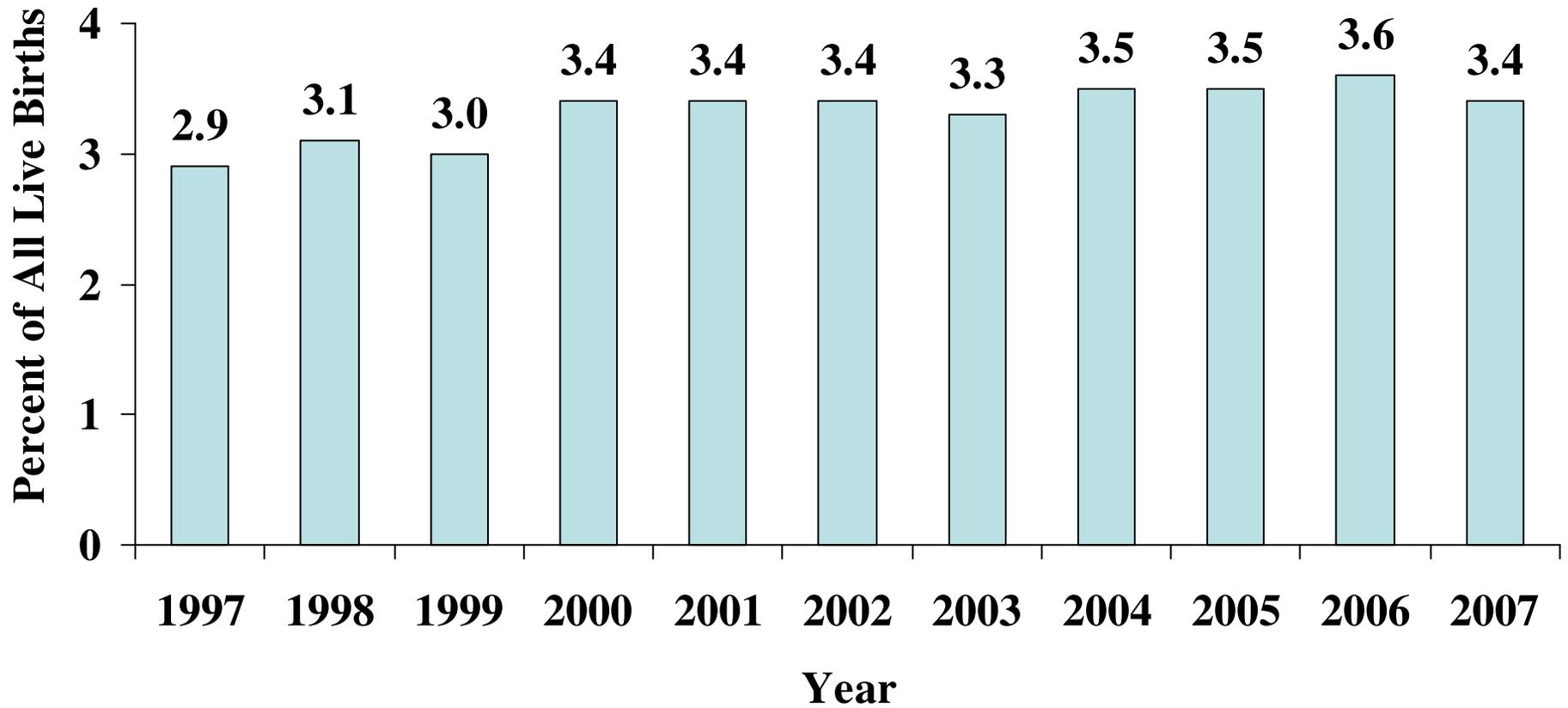


Multivariate result is statistically significant

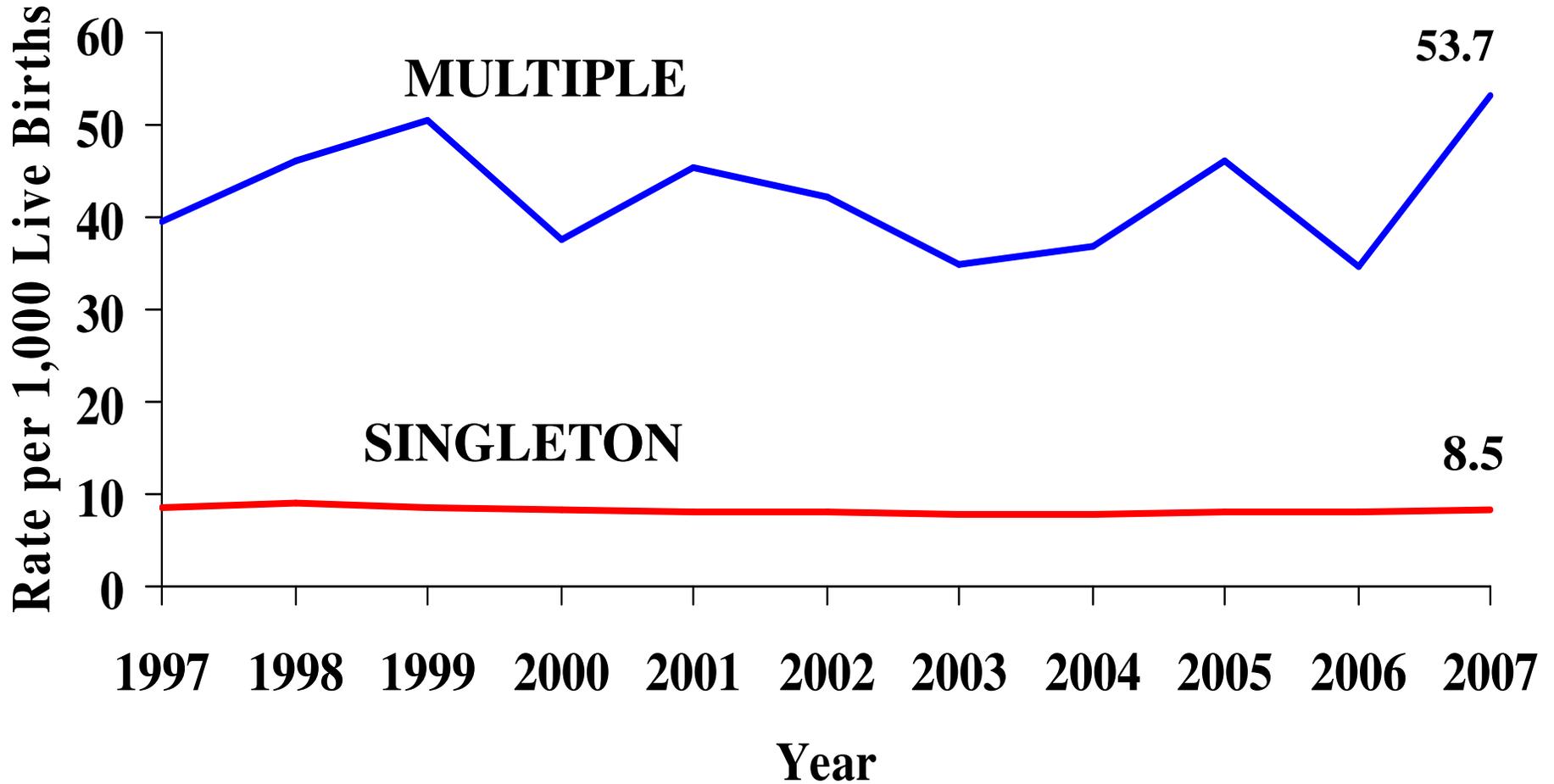
# NUMBER OF BIRTHS WEIGHING LESS THAN 500 GRAMS, ALABAMA, 1997-2007



# MULTIPLE BIRTHS AS A PERCENT OF TOTAL BIRTHS ALABAMA, 1997-2007

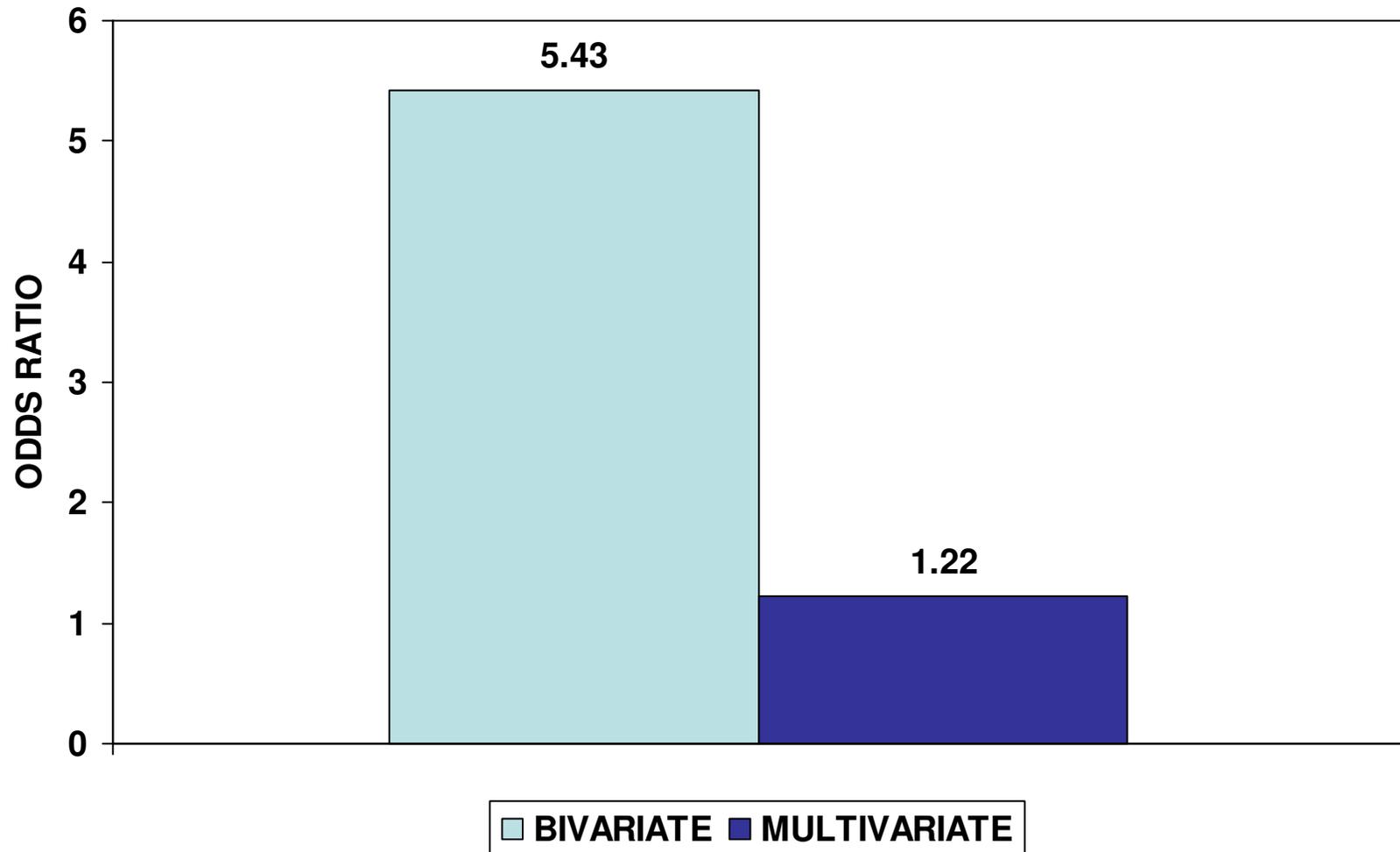


# INFANT MORTALITY RATES SINGLETON AND MULTIPLE BIRTHS ALABAMA, 1997-2007



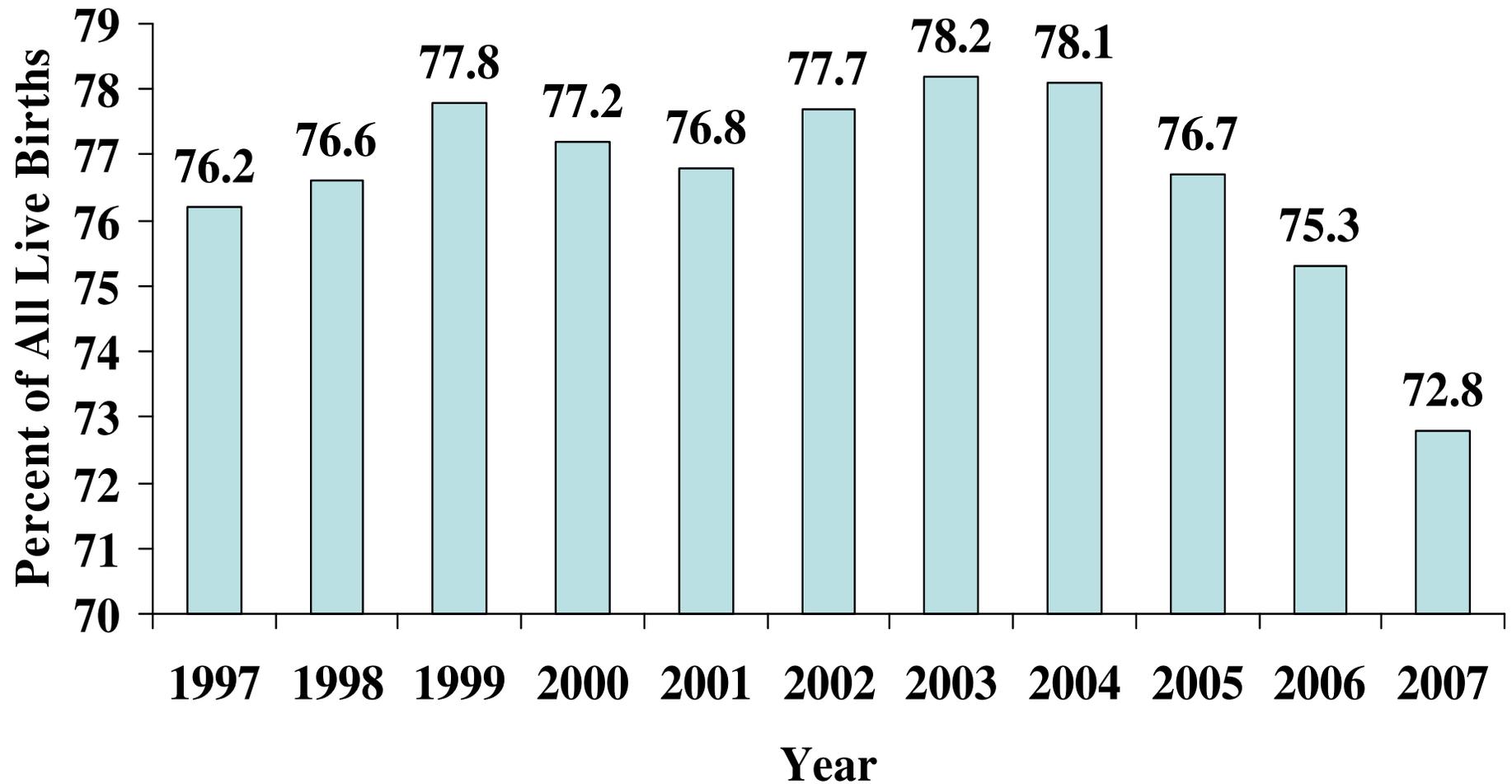
# Multivariate Analysis

## ODDS OF INFANT DEATH MULTIPLE BIRTH VERSUS SINGLETON BIRTH



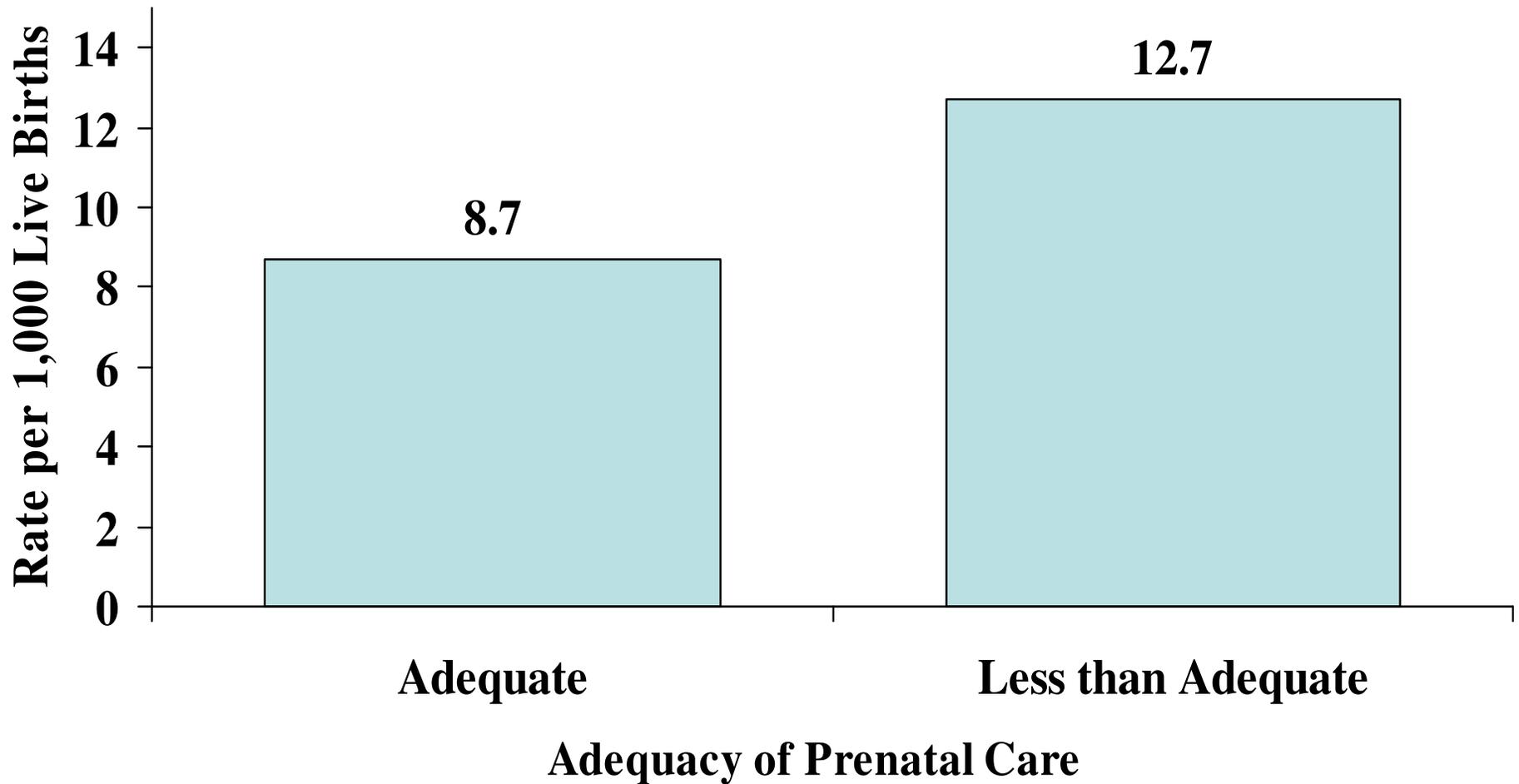
Multivariate result is statistically significant

# PERCENT OF BIRTHS WITH ADEQUATE PRENATAL CARE<sup>1</sup> ALABAMA, 1997-2007



<sup>1</sup> Adequacy of care measured using the Kessner index.

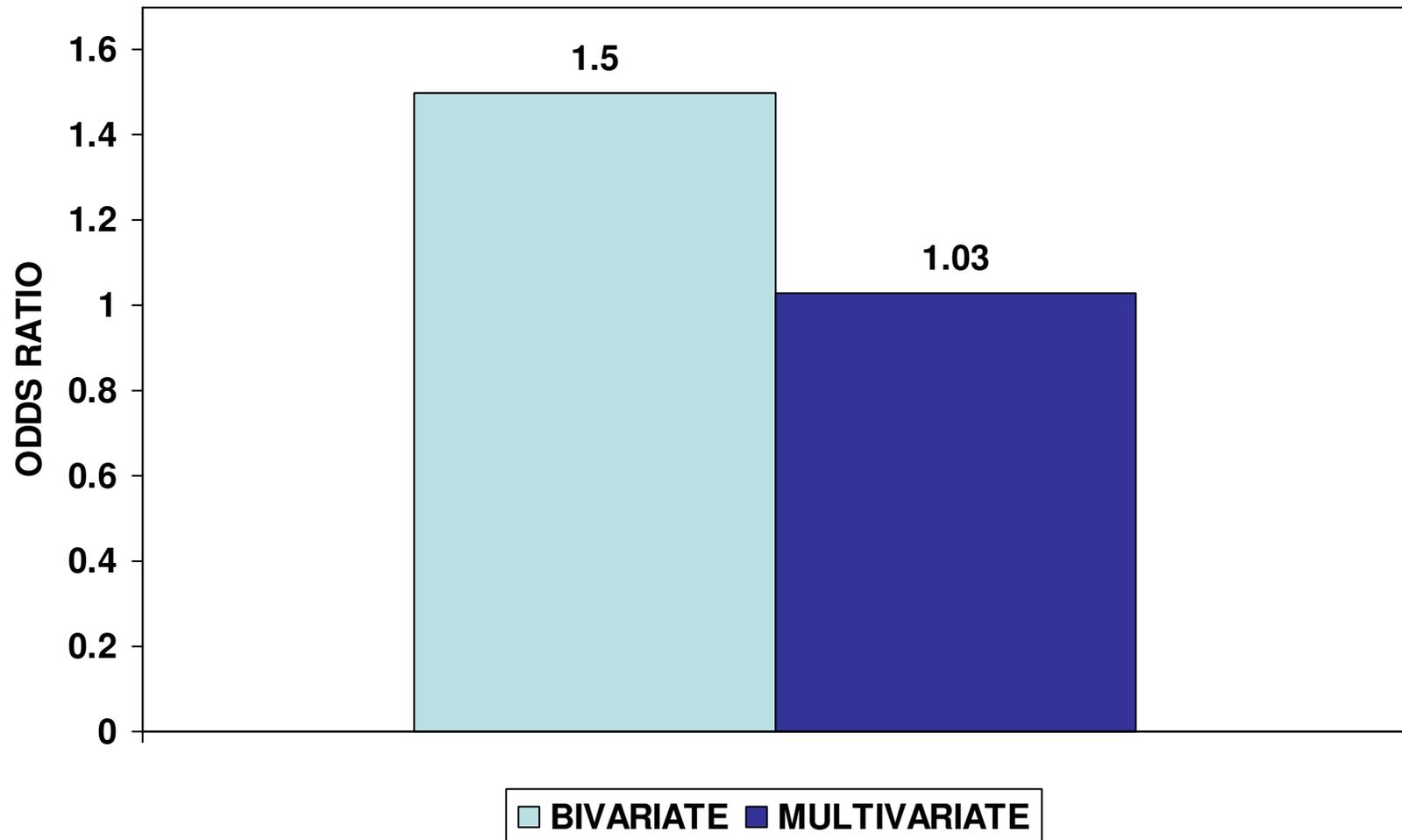
# INFANT MORTALITY RATES BY ADEQUACY OF PRENATAL CARE<sup>1</sup> ALABAMA, 2007



<sup>1</sup> Adequacy of care measured using the Kessner index.

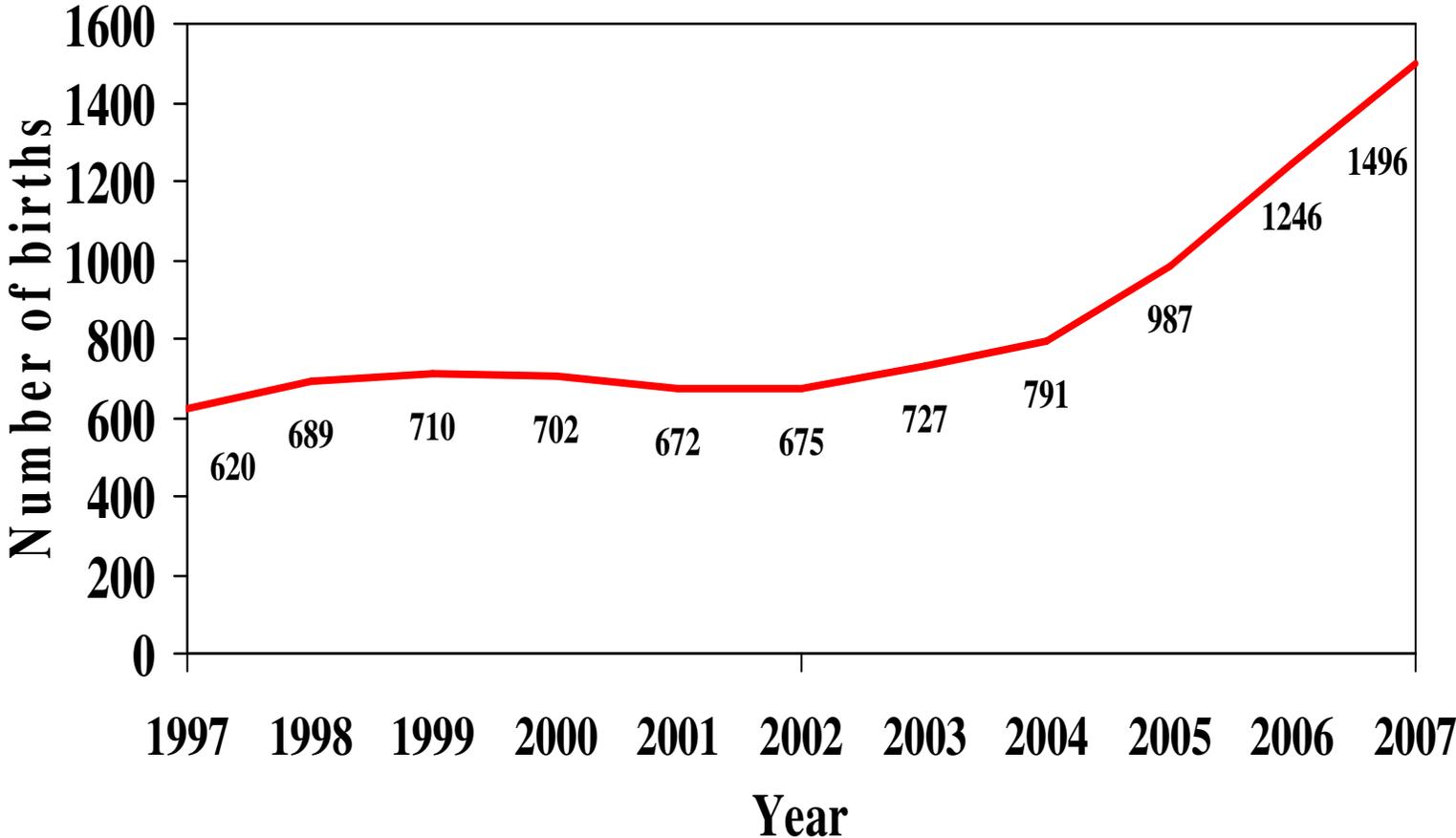
# Multivariate Analysis

## ODDS OF INFANT DEATH LESS THAN ADEQUATE PRENATAL CARE VERSUS ADEQUATE

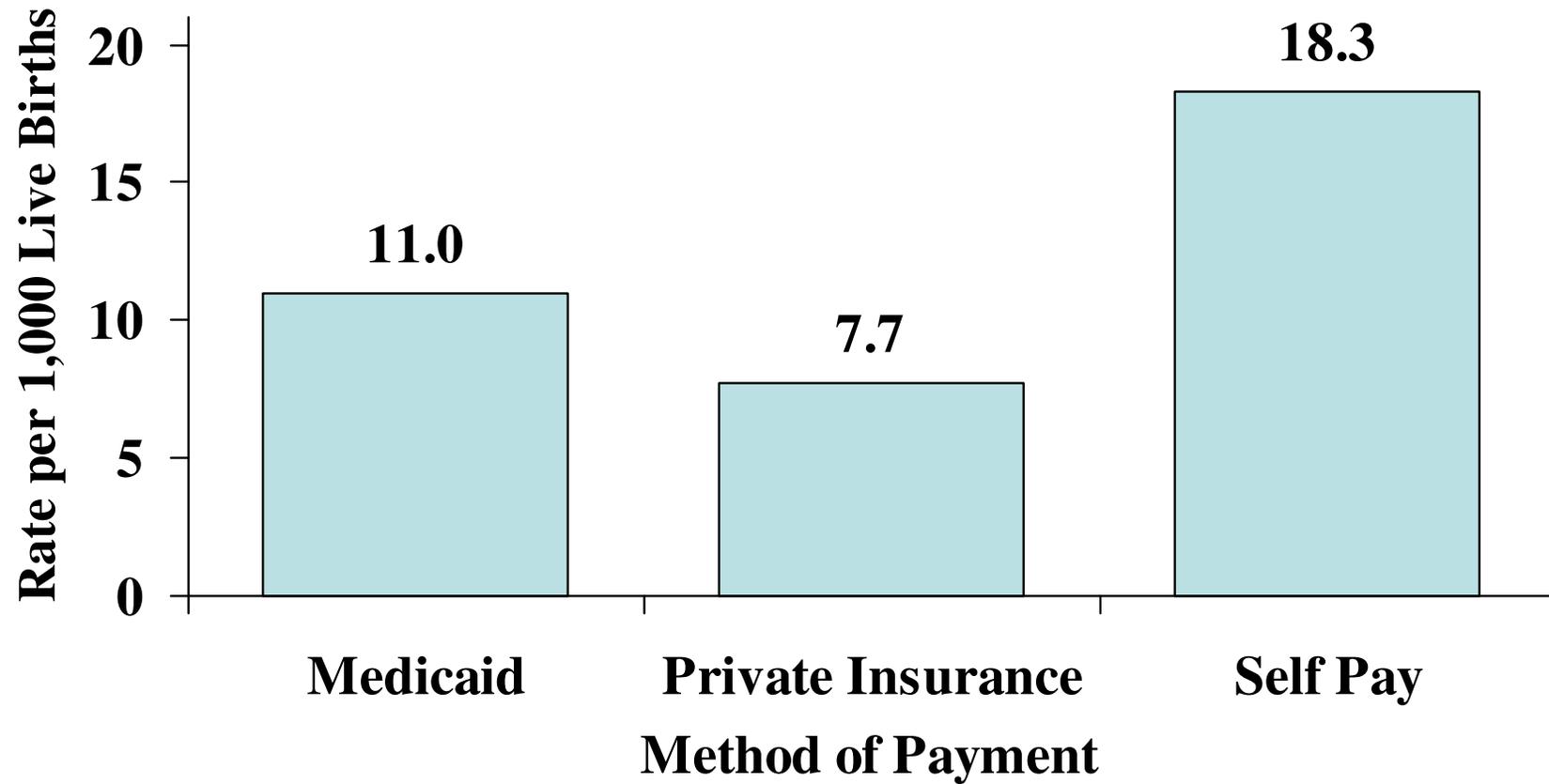


Multivariate result is not statistically significant

# BIRTHS WITH NO PRENATAL CARE ALABAMA 1997-2007

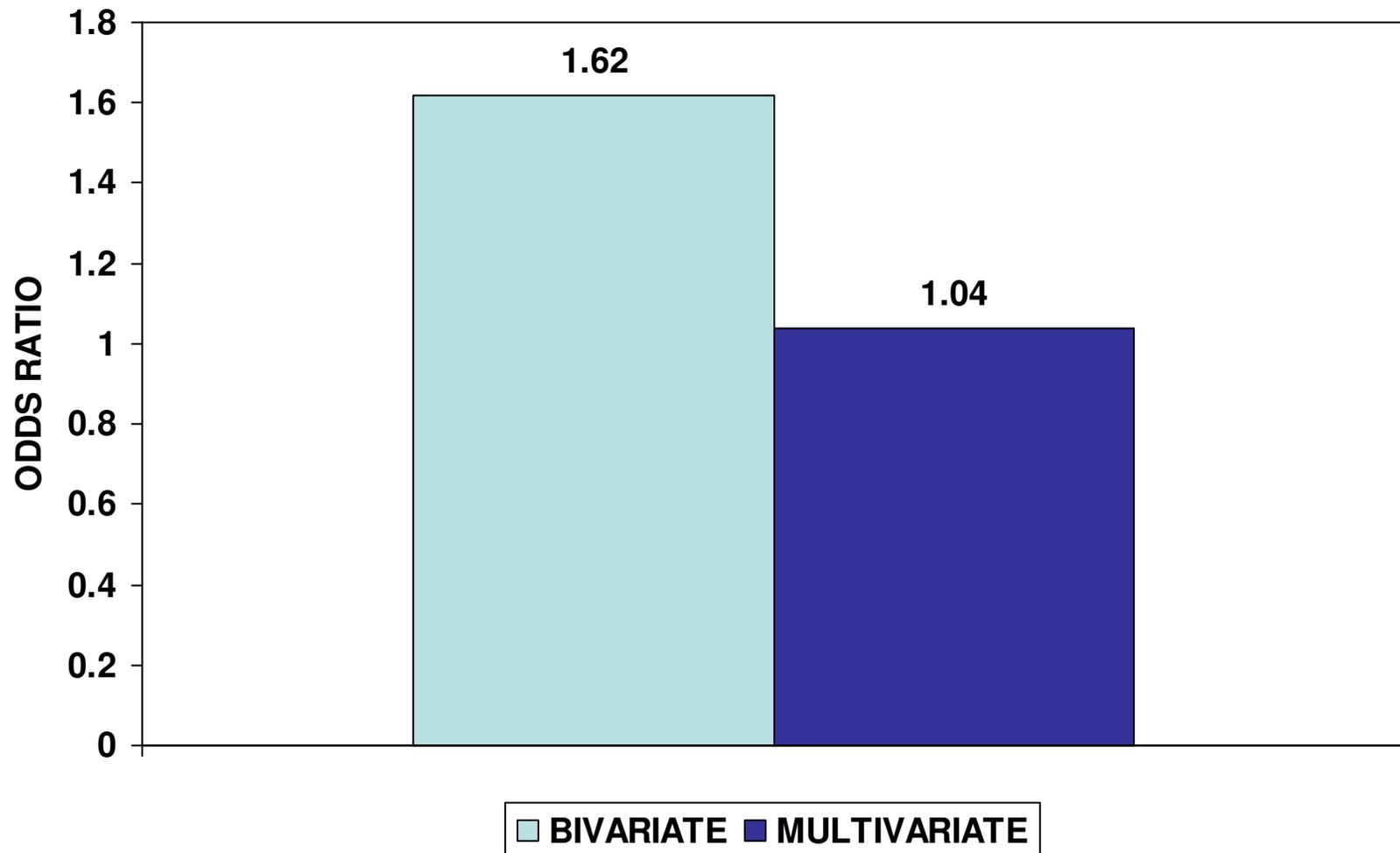


# INFANT MORTALITY RATE BY METHOD OF PAYMENT, ALABAMA, 2007



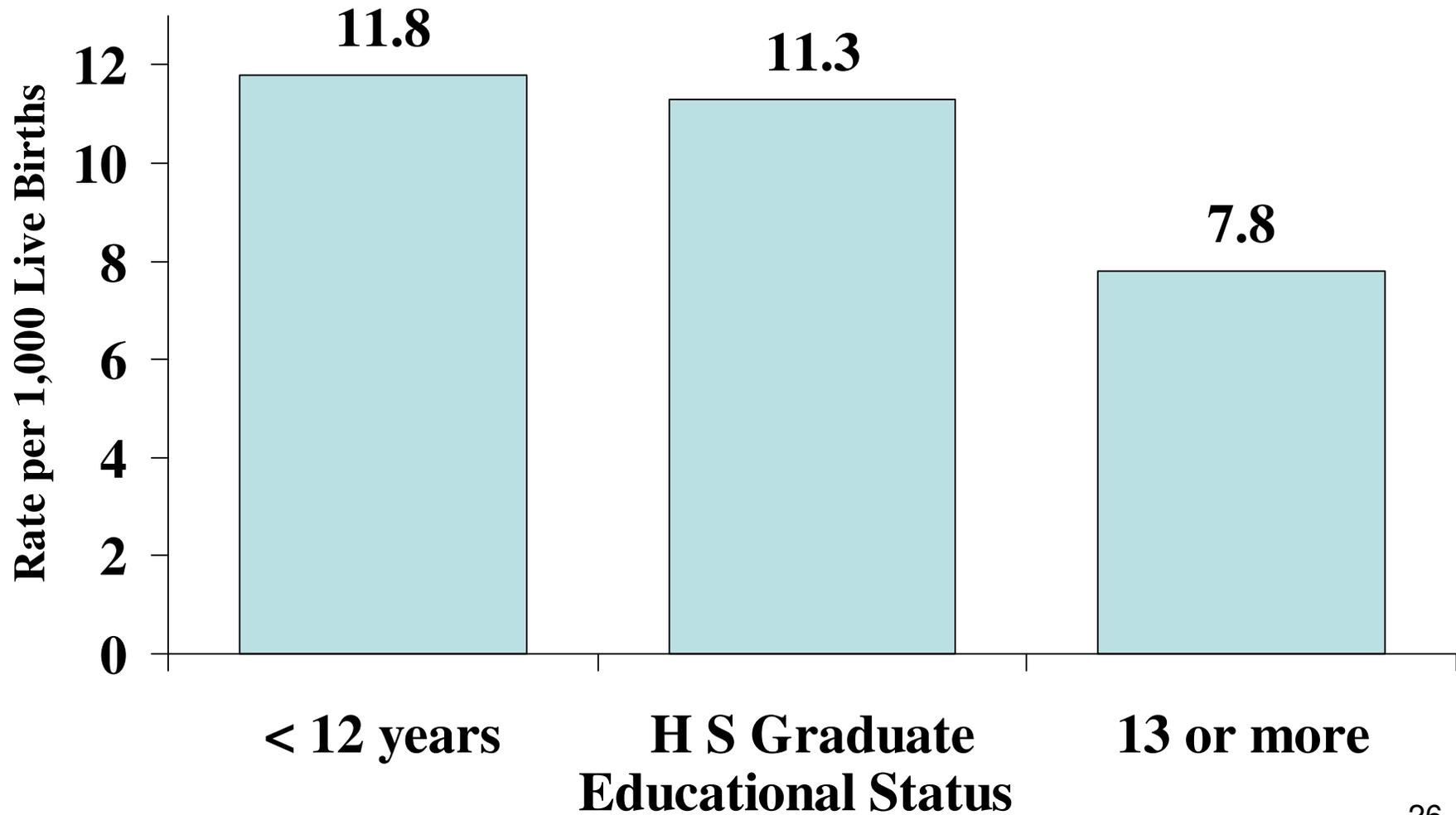
# Multivariate Analysis

## ODDS OF INFANT DEATH MEDICAID VERSUS NONMEDICAID



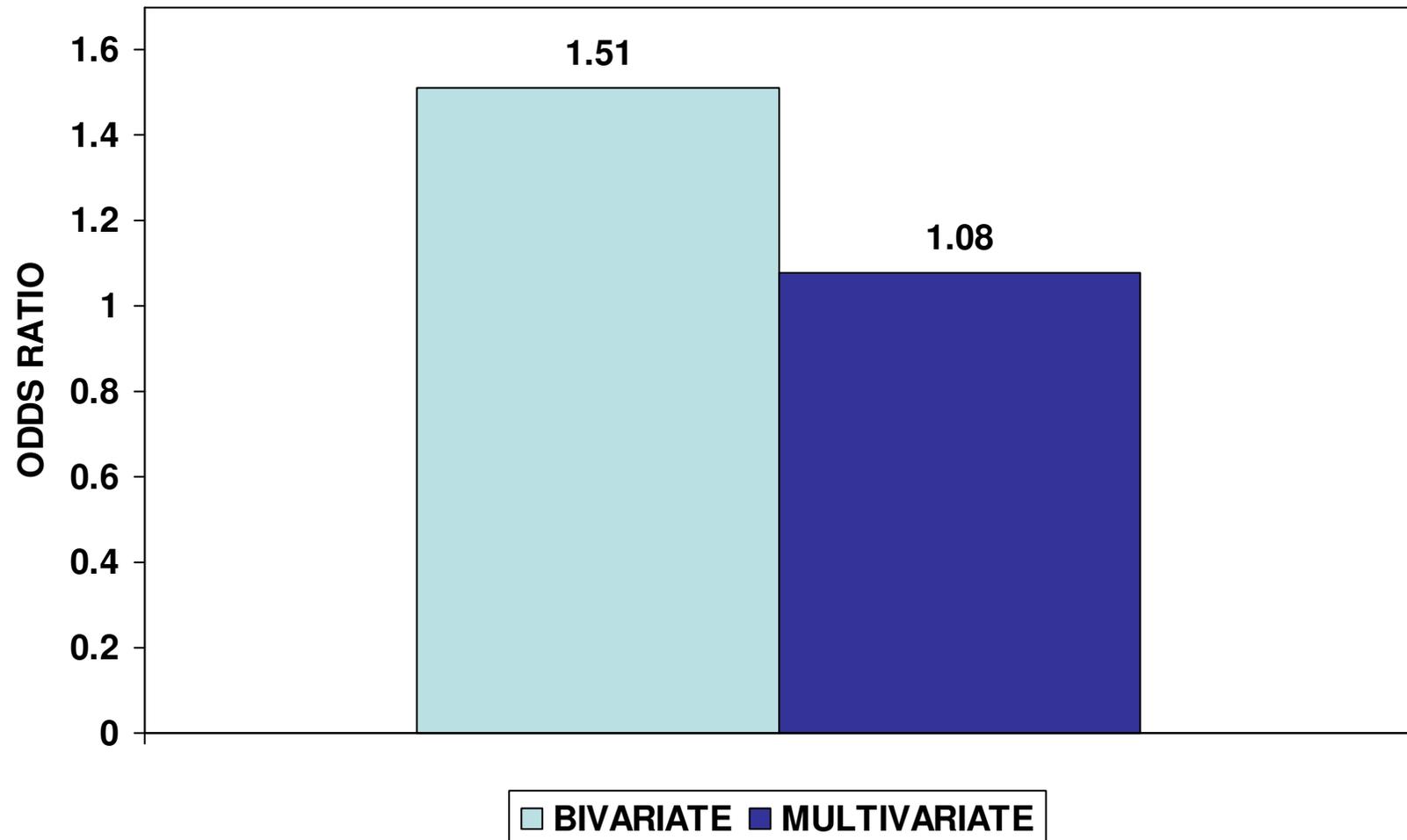
Multivariate result is not statistically significant

# INFANT MORTALITY RATES BY EDUCATIONAL STATUS, ALABAMA, 2007



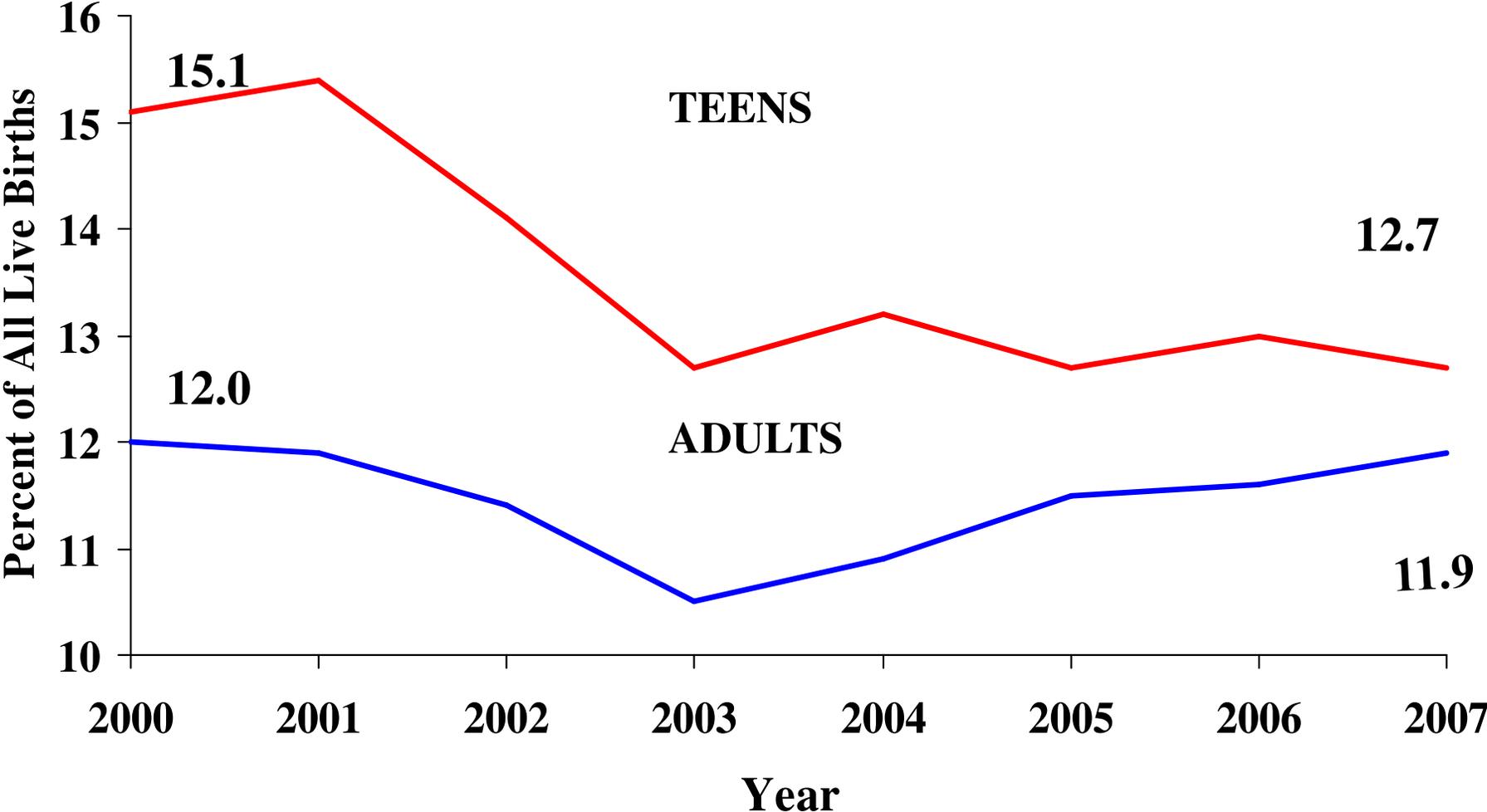
# Multivariate Analysis

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

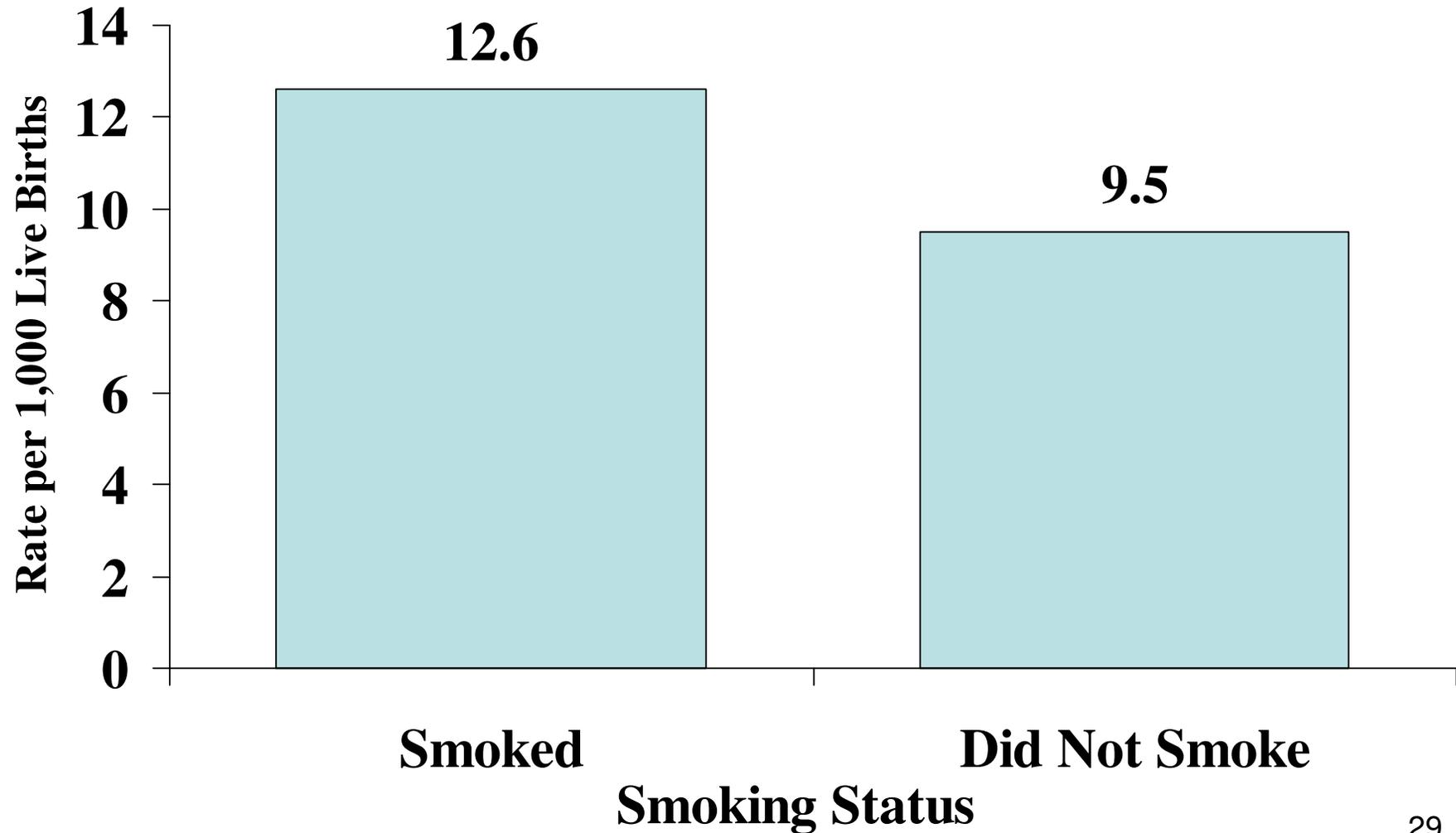


Multivariate result is statistically significant

# MATERNAL SMOKING BY AGE OF MOTHER ALABAMA, 2000-2007

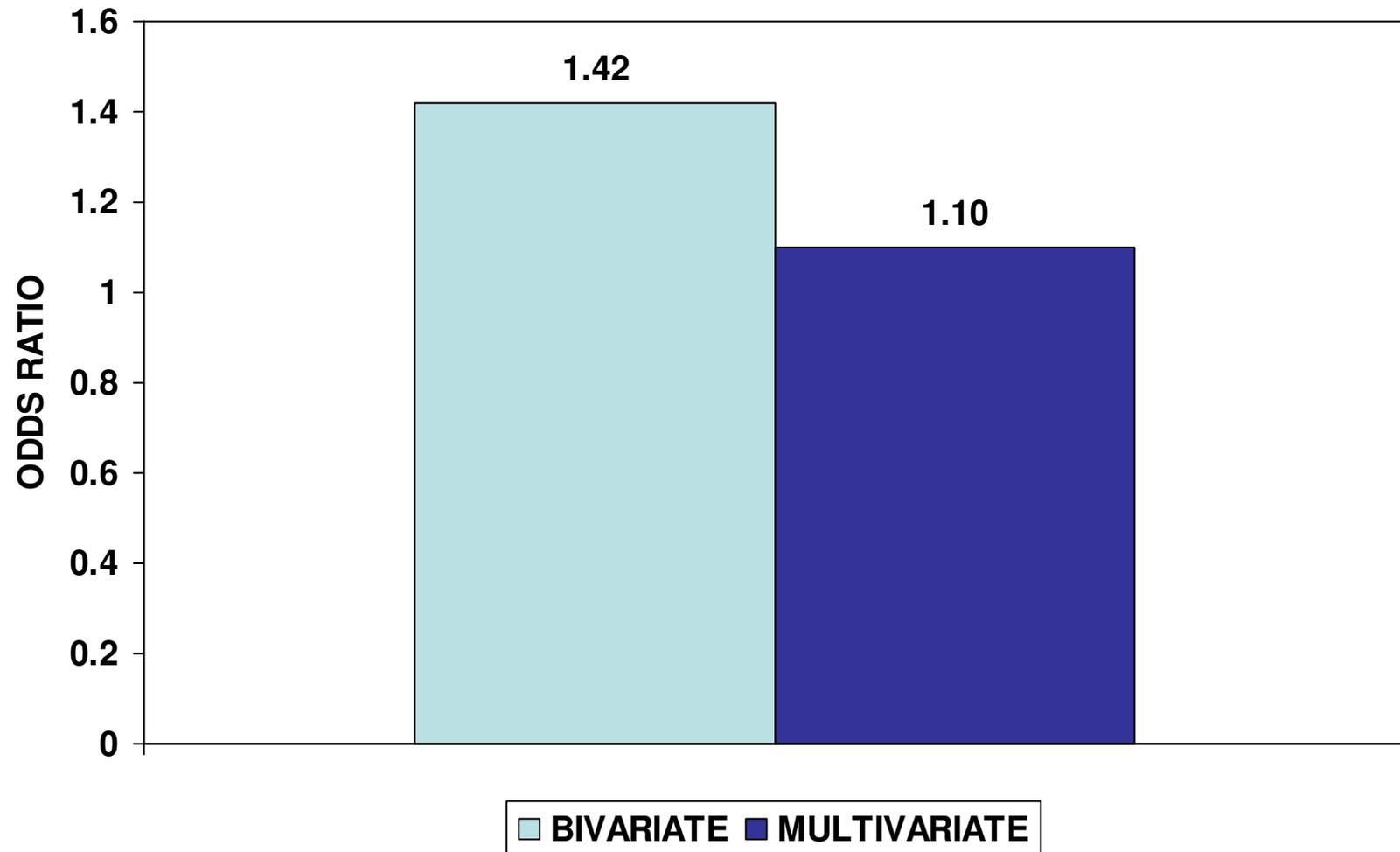


# INFANT MORTALITY RATES BY SMOKING STATUS, ALABAMA, 2007



# Multivariate Analysis

## ODDS OF INFANT DEATH SMOKER VERSUS NON-SMOKER



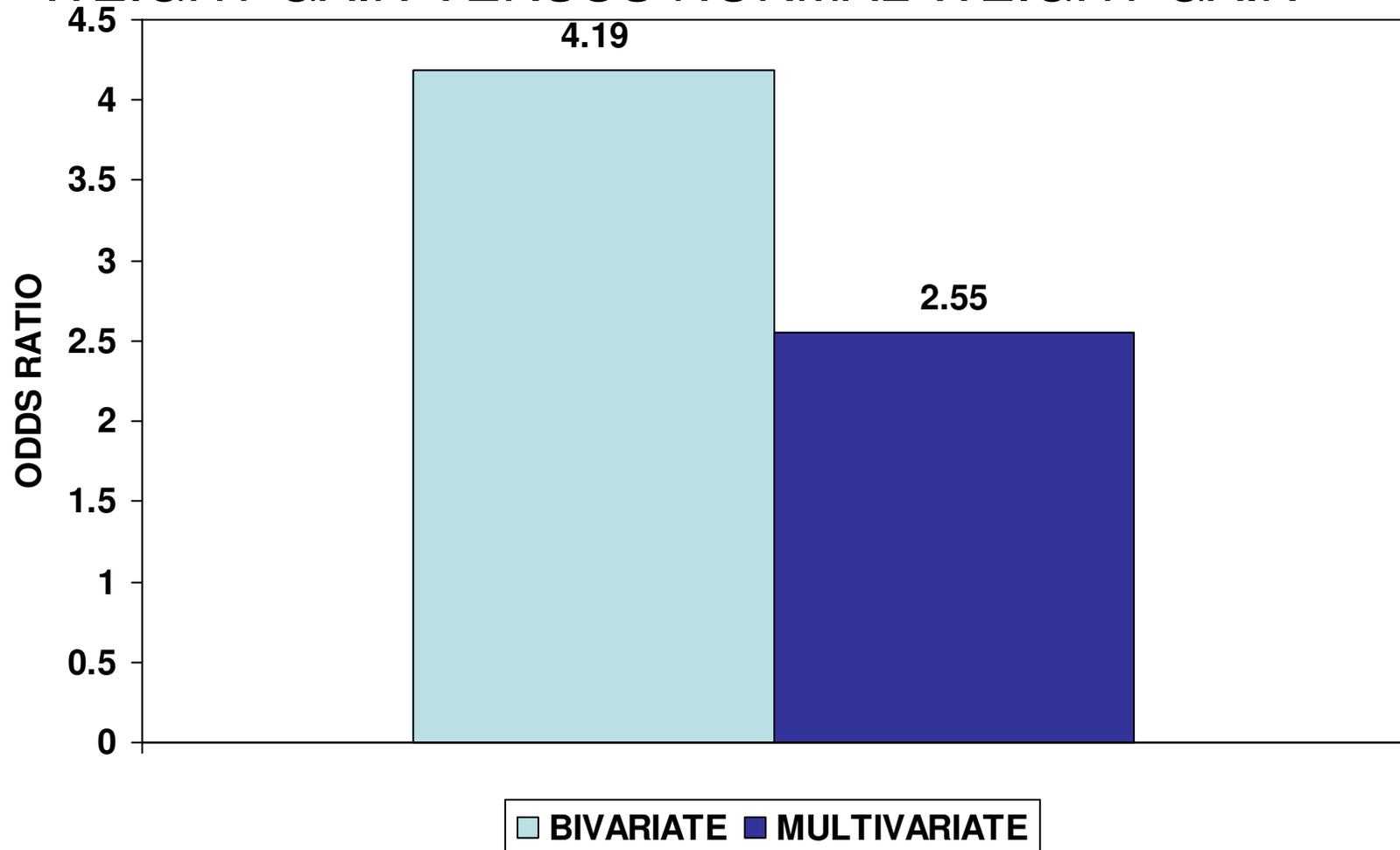
Multivariate result is statistically significant

# 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