

# **A Health Needs Assessment Study of the Minority Population in Hamilton County**

**by the**

**Indiana Minority Health Coalition**

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# **EXECUTIVE SUMMARY**

## **Executive Summary**

This report presents results of a community health needs assessment for minority populations in Hamilton County, directed by the Indiana Minority Health Coalition with technical assistance from the Indiana University Bowen Research Center. Initial project planning activities began in 2003, with most of the data collected in 2004. The purpose of this needs assessment study is to:

- Perform a community-based health needs assessment of minority populations in Hamilton County
- Identify the real health-related issues of minority groups across age, gender, socio-economic, and geographic categories
- Examine the wide spectrum of factors impacting the health and well being of the minority populations in the Hamilton County

Data for the health assessment were collected from existing data containing health indicators.

Existing data from birth and death certificates were gathered and analyzed for minority groups. The analysis of these existing data for Hamilton County indicated that disparities exist by race and ethnic group. It also revealed that most rates need to be improved to meet the Healthy People 2010 Objectives. The Black population in Hamilton County is disproportionately affected when comparing the health indicators among racial groups.

# INTRODUCTION

## **Introduction**

This report presents the results of a community needs health assessment for minority populations in Hamilton County, directed by the Indiana Minority Health Coalition. Technical assistance was provided by the Indiana University Bowen Research Center staff. Initial project planning activities began in 2003, with most of the data collected in 2004.

The community health needs assessment activities and results presented here represent an important stage of a comprehensive, ongoing process that will be refined and updated in the coming months and years. A “community health needs assessment” is a systematic, collaborative, data-driven approach to assessing the health needs of populations in a defined geographic area. Information provided by the targeted populations is essential in this process to accurately measure the community values and perspectives. Assessing community health needs is a dynamic process that supports broad-based identification and verification of priorities; intervention development and implementation; and ongoing program evaluation, refinement, and improvement.

### **Purpose**

The purpose of this needs assessment study was to:

- Perform a community-based health assessment of minority populations in Hamilton County
- Identify the real health-related issues of minority groups across age, gender, socio-economic, and geographic categories
- Examine the wide spectrum of factors impacting the health and well being of the minority populations in the Hamilton County

From the earliest discussions, this needs assessment was designed to be comprehensive in scope, committed to provide critical information to decision makers to help elucidate the health concerns of minority residents in Hamilton County. The process was designed to provide essential data about health needs and related issues which could be used to develop targeted action plans to improve the health status of minorities. More importantly, it is hoped this project will become a vehicle to mobilize neighborhoods, consumers, health care providers, and service delivery systems to positively impact the health of minority residents in Hamilton County, and, thus, build a healthier community.

# METHODS

## Methods

The community health needs assessment incorporated multiple components. These components involved obtaining and analyzing existing data (including birth and death certificates) that contain health indicators for minority groups. This report also provides supporting documentation (technical information, supporting exhibits, and data collection tools) for the benefit of readers who have a technical interest in the epidemiological and analytical methods used and who may want to perform additional analyses of the data.

### *Existing Health Indicator (Secondary) Data:*

Existing data from birth and death certificates were analyzed to provide quantitative measures for comparison between race and ethnic groups. This information was readily available and considered to be generally valid and reliable. These data sources are also “population-based,” meaning that all births and deaths are included, rather than a sample. Thus, using this information to assess health needs among minority population will be very useful and powerful. This component will provide quantitative measures that can be compared across racial and ethnic groups as well as between Hamilton County and the State as a whole. In addition, these measures can be compared to national targets.

Data about births and deaths were provided by the Indiana State Department of Health, based on births and deaths reported in calendar year 2003. Two primary levels of comparison were made: comparisons among racial groups (Whites, Blacks, Asians/Pacific Islanders, and American Indians/Alaskan Natives) and comparisons between ethnic groups (Hispanics/Latinos and non-Hispanics). Comparisons are also presented between the populations in Hamilton County and those in the State of Indiana. The graphs also show the target goals presented in the Healthy People Year 2010 Objectives for the Nation for health indicators where applicable.

Birth measures are shown on the graphs for those health indicators where at least 20 births occurred in the study year among individuals in the specific minority group. Low birth weight births were defined as those where the baby weighed less than 2500 grams. Very low birth weight births were defined as those where the baby weighed less than 1500 grams. Preterm births were defined as those where the delivery occurred at less than 37 weeks of gestation, early preterm births were defined as those where the delivery occurred at less than 32 weeks of gestation.

Death measures are shown on the graphs for those health indicators where at least 20 deaths occurred in the study year among individuals within the specific minority group. The top five leading causes of death were compared by race and ethnic group category in Hamilton County.

# RESULTS

## **Overview of Existing Health Indicator (Secondary Data Analysis)**

Analysis of existing data for Hamilton County (birth, morbidity and mortality data) indicated disparities exist in Hamilton County by race and ethnic group. In addition, most rates need to be improved to meet the Healthy People 2010 objectives, the benchmarks provided by the U.S. government. Unfortunately, no comparisons could be made for American Indians/Alaska Natives (AIANs) in Hamilton County because less than 20 incidents occurred in the study year among individuals in the specific minority group for the specific outcome of interest.

Comparisons for Hamilton County are based on the differences between specific indicators and the Healthy People 2010 objective, comparison to all births in the County and to the respective racial or ethnic group in Indiana. Any values with less than 1% (<1%) difference are considered similar and values equal to or greater than 1% difference were listed as having a lower or greater difference. The 1% difference rule does not apply when comparing indicators with the Healthy People 2010 objective.

The Asian / Pacific Islanders (APIs) population in Hamilton County is disproportionately affected when comparing the health indicators among racial groups. Many health indicators have room for improvement because they do not meet Health People 2010 objectives and / or have higher percentages in comparison to all births in the county. These indicators are: low birth weight, very low birth weight, preterm births, early preterm births, pregnancy complications, Cesarean deliveries, and low weight gain during pregnancy.

The Black population in Hamilton County was disproportionately affected when comparing the health indicators among racial groups. There is room for improvement in the following indicators: low birth weight, pregnancy complications, Cesarean deliveries, alcohol use during pregnancy, births to single mothers, births to 16 and 17 year olds, and high weight gain during pregnancy. Furthermore, fewer Black women receive prenatal care during the first trimester, and more Blacks in Hamilton County receive less than adequate prenatal care. These health indicators need improvement because they do not meet the Healthy People 2010 objectives and / or they represent higher percentages in comparison to all births in Hamilton County.

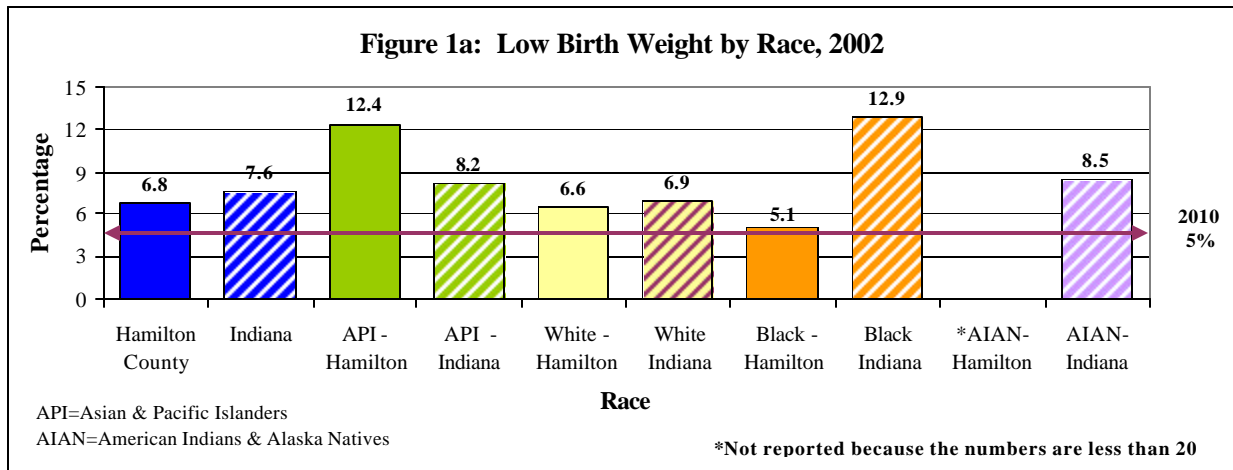
The Hispanic population in Hamilton County was disproportionately affected when comparing the health indicators among ethnic groups. There was room for improvement in pregnancy complications, Cesarean deliveries, births to single mothers, teenage pregnancy, and low weight gain during pregnancy. Moreover, fewer Hispanic women receive prenatal care during the first trimester and more Hispanic women receive less than adequate prenatal care. These health indicators need improvement because they do not meet the Healthy People 2010 objectives and / or have higher percentages in comparison to all births in Hamilton County.

The age-adjusted death rate and deaths by cause for APIs, AIANs, Blacks and Hispanics in Hamilton County could not be compared due to the small numbers.

**Birth Data:**

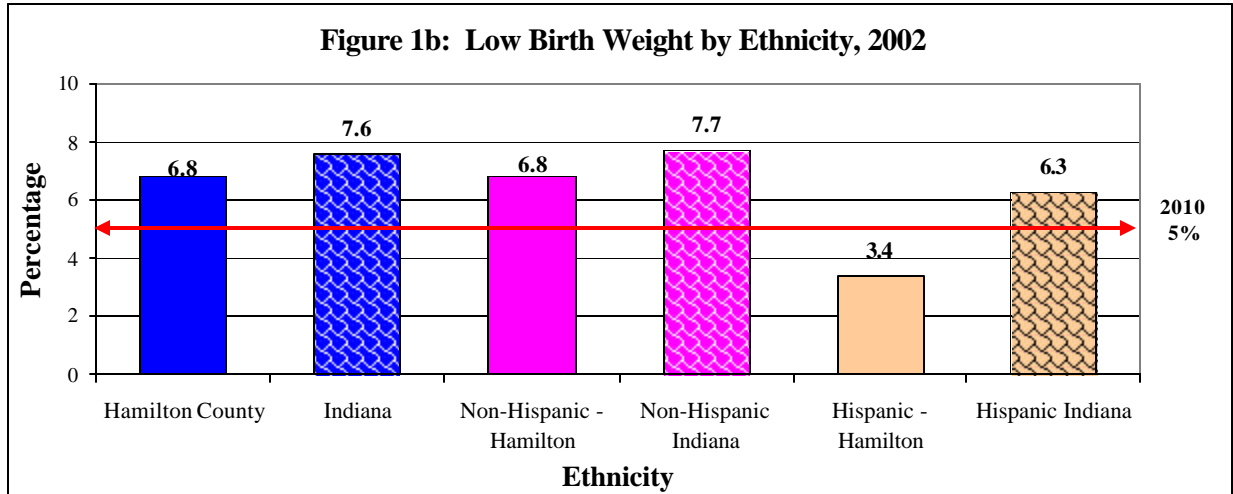
*Low Birth Weight (LBW) by Race (Figure 1a):*

- The percentage of low birth weight deliveries for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of low birth weight deliveries for APIs and Blacks in Hamilton County was higher than the Healthy People 2010 objective.
- The percentage of low birth weight deliveries for APIs in Hamilton County was higher than the percentage for all births in Hamilton County.
- The percentage of low birth weight deliveries for APIs in Hamilton County was higher than the percentage for all API births in Indiana.
- The percentage of low birth weight deliveries for Blacks in Hamilton County was lower than the percentage for all births in Hamilton County.
- The percentage of low birth weight deliveries for Blacks in Hamilton County was lower than the percentage for all births by Blacks in Indiana.



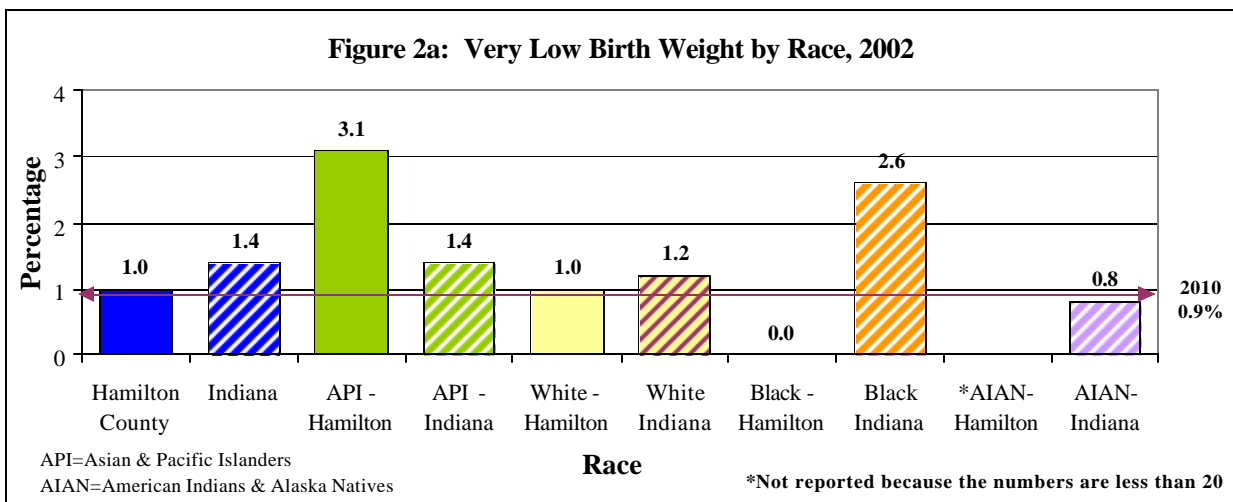
*Low Birth Weight (LBW) by Ethnicity (Figure 1b):*

- The percentage of low birth weight deliveries for Hispanics in Hamilton County was lower than the Healthy People 2010 objective.
- The percentage of low birth weight deliveries for Hispanics in Hamilton County was lower than the percentage for Non-Hispanic births in Hamilton County.
- The percentage of low birth weight deliveries for Hispanics in Hamilton County was lower than the percentage for all Hispanic births in Indiana.



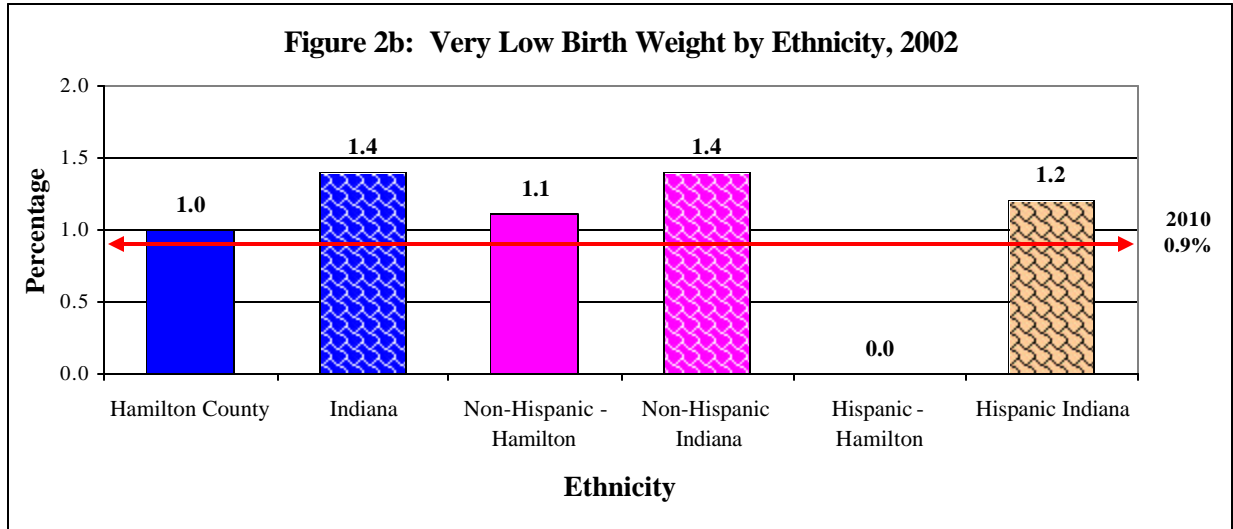
*Very Low Birth Weight (VLBW) by Race (Figure 2a):*

- The percentage of very low birth weight deliveries for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of very low birth weight deliveries for APIs in Hamilton County was higher than the Healthy People 2010 objective; the percentage of VLBW deliveries for Blacks in Hamilton County was lower than the Healthy People 2010 objective.
- The percentage of very low birth weight deliveries for APIs in Hamilton County was higher than the percentage for all births in Hamilton County.
- The percentage of very low birth weight deliveries for APIs in Hamilton County was higher than the percentage for all API births in Indiana.
- The percentage of very low birth weight deliveries for Blacks in Hamilton County was lower than the percentage for all births in Hamilton County.
- The percentage of very low birth weight deliveries for Blacks in Hamilton County was lower to the percentage for all births by Blacks in Indiana.



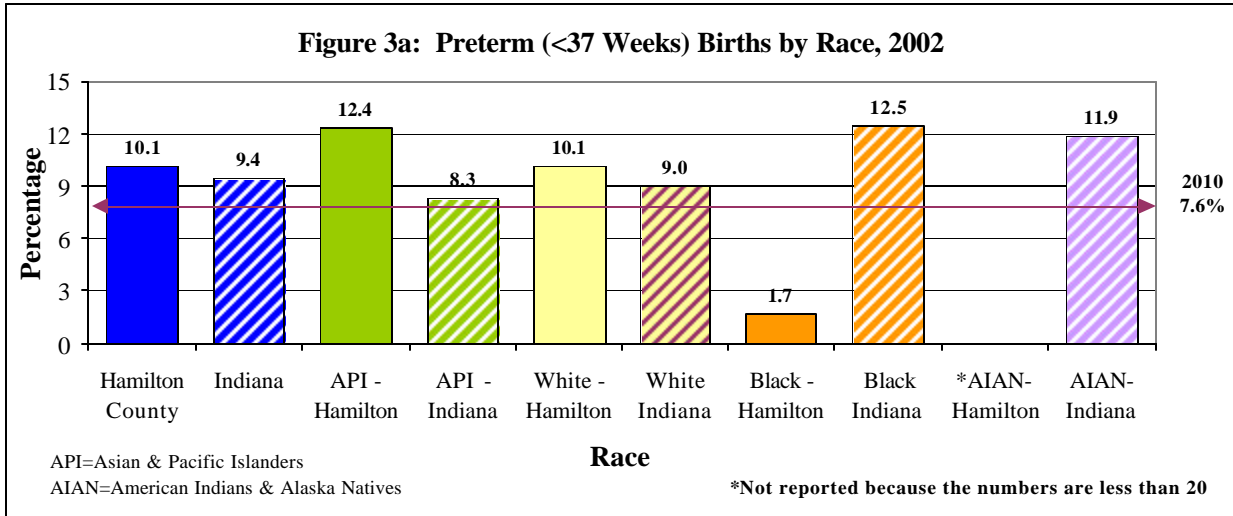
*Very Low Birth Weight (VLBW) by Ethnicity (Figure 2b):*

- The percentage of very low birth weight deliveries for Hispanics in Hamilton County was lower than the Healthy People 2010 objective.
- The percentage of very low birth weight deliveries for Hispanics in Hamilton County was lower than the percentage for Non-Hispanic births in Hamilton County.
- The percentage of very low birth weight deliveries for Hispanics in Hamilton County was lower than the percentage for all Hispanic births in Indiana.



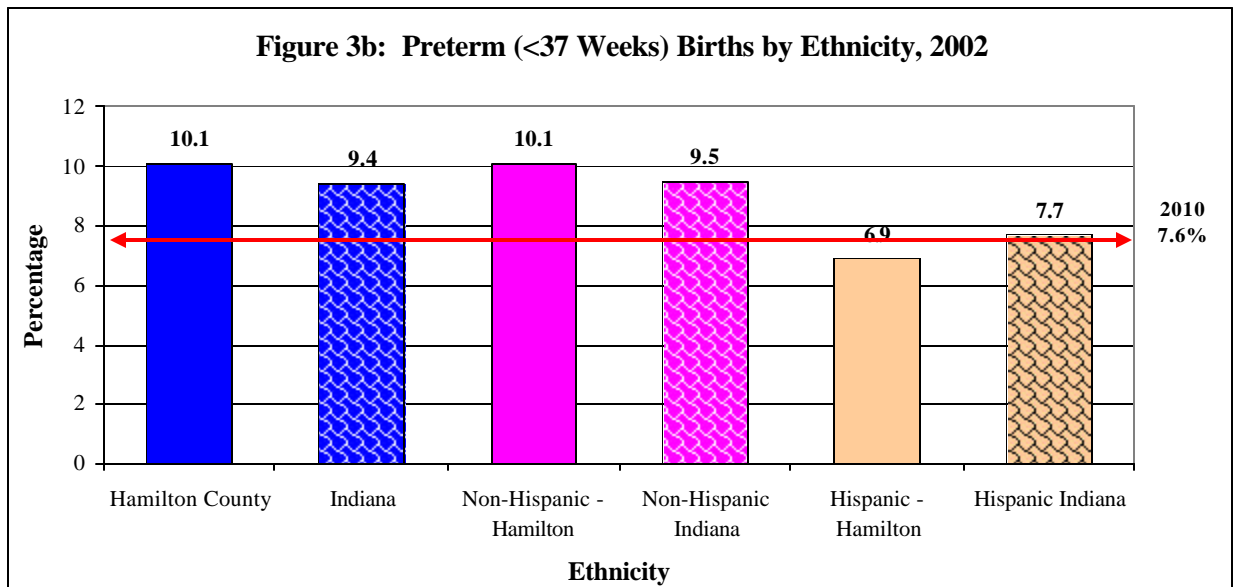
*Preterm (< 37 weeks) Births by Race (Figure 3a):*

- The percentage of preterm births for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of preterm births for APIs in Hamilton County was higher than the Healthy People 2010 objective. The percentage of preterm births for Blacks in Hamilton County was lower than the 2010 objective.
- The percentage of preterm births for APIs in Hamilton County was higher than the percentage for all births in Hamilton County.
- The percentage of preterm births for APIs in Hamilton County was higher than the percentage for all API births in Indiana.
- The percentage of preterm births for Blacks in Hamilton County was lower than the percentage for all births in Hamilton County.
- The percentage of preterm births for Blacks in Hamilton County was lower than the percentage for all births by Blacks in Indiana.



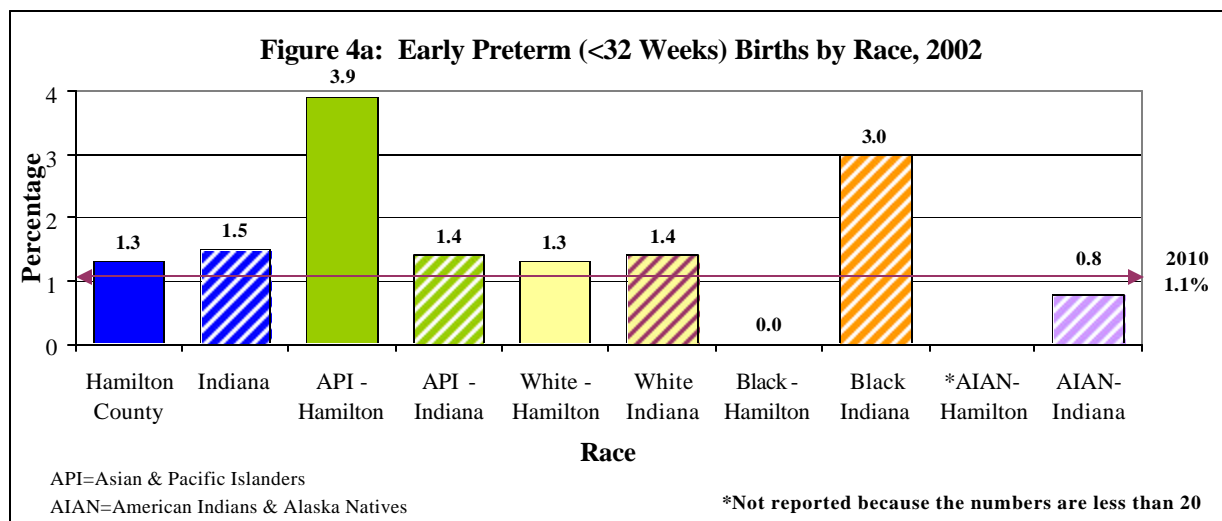
*Preterm (< 37 weeks) Births by Ethnicity (Figure 3b):*

- The percentage of preterm births for Hispanics in Hamilton County was lower than the Healthy People 2010 objective.
- The percentage of preterm births for Hispanics in Hamilton County was lower than the percentage for Non-Hispanic births in Hamilton County.
- The percentage of preterm births for Hispanics in Hamilton County was similar to the percentage for all Hispanic births in Indiana.



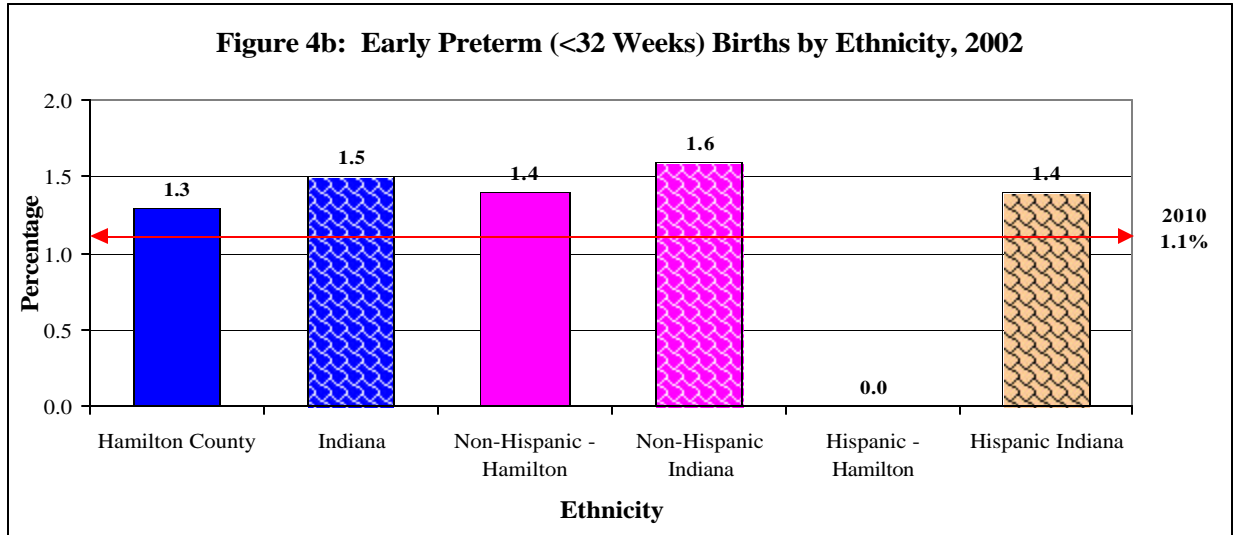
*Early Preterm (< 32 weeks) Births by Race (Figure 4a):*

- The percentage of early preterm births for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of early preterm births for APIs in Hamilton County was higher than the Healthy People 2010 objective. The percentage of early preterm births for Blacks in Hamilton County was lower than the 2010 objective.
- The percentage of early preterm births for APIs in Hamilton County was higher than the percentage for all births in Hamilton County.
- The percentage of early preterm births for APIs in Hamilton County was higher than the percentage for all API births in Indiana.
- The percentage of early preterm births for Blacks in Hamilton County was lower than the percentage for all births in Hamilton County.
- The percentage of early preterm births for Blacks in Hamilton County was lower than the percentage for all births by Blacks in Indiana.



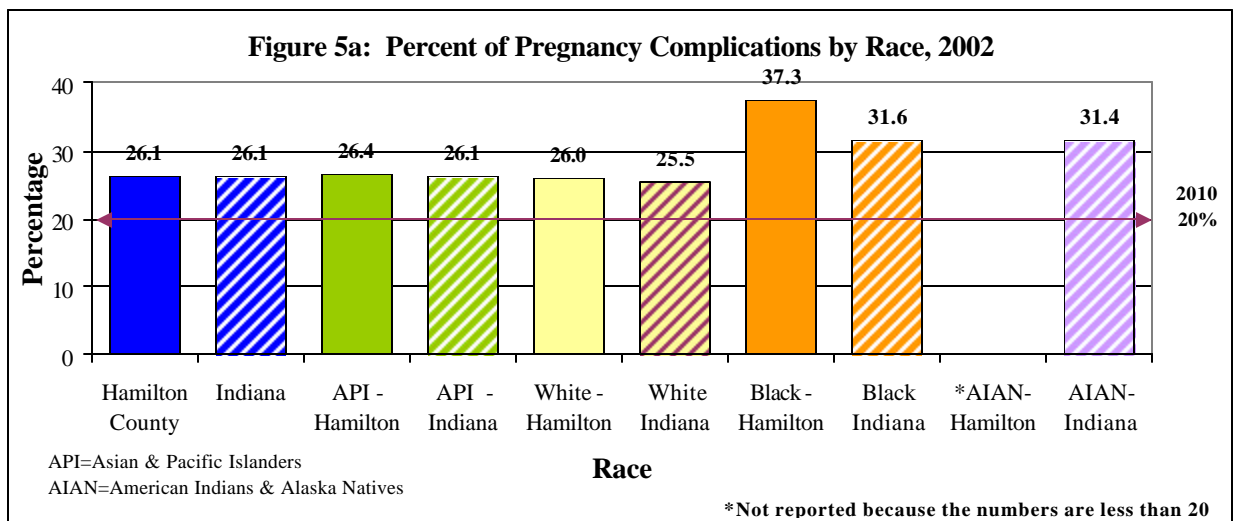
*Early Preterm (< 32 weeks) Births by Ethnicity (Figure 4b):*

- The percentage of early preterm births for Hispanics in Hamilton County was lower than the Healthy People 2010 objective.
- The percentage of early preterm births for Hispanics in Hamilton County was lower than the percentage for Non-Hispanics births in Hamilton County.
- The percentage of early preterm births for Hispanics in Hamilton County was lower than the percentage for all Hispanic births in Indiana.



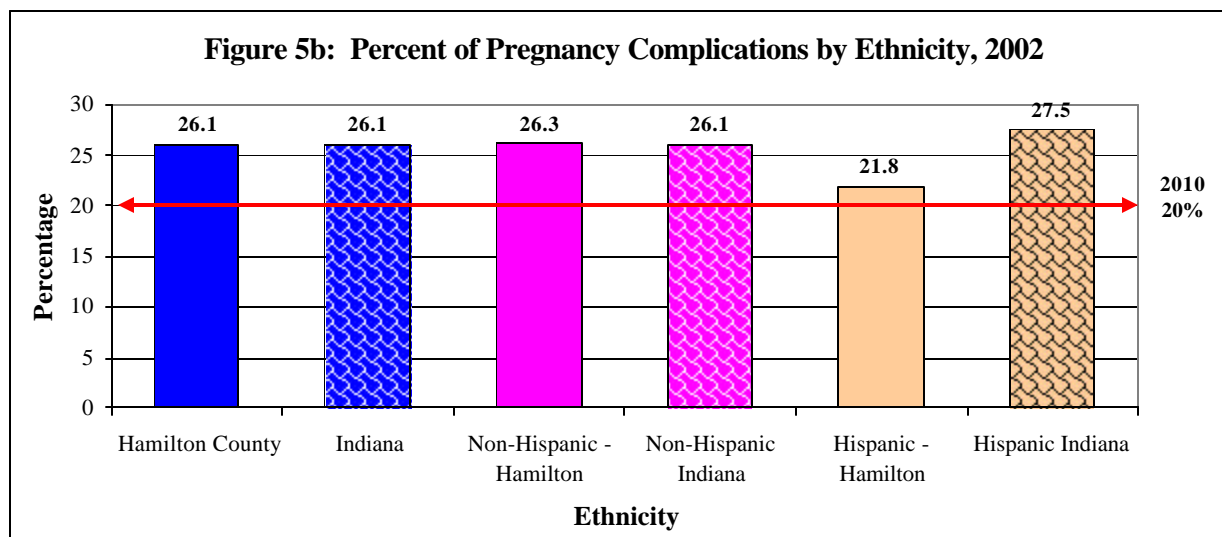
*Percent of Pregnancy Complications by Race (Figure 5a):*

- The percentage of pregnancy complications for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of pregnancy complications for APIs and Blacks in Hamilton County was higher than the Healthy People 2010 objective.
- The percentage of pregnancy complications for APIs in Hamilton County was similar to the percentage for all births in Hamilton County.
- The percentage of pregnancy complications for APIs in Hamilton County was similar to the percentage for all API births in Indiana.
- The percentage of pregnancy complications for Blacks in Hamilton County was higher than the percentage for all births in Hamilton County.
- The percentage of pregnancy complications for Blacks in Hamilton County was higher than the percentage for all births by Blacks in Indiana.



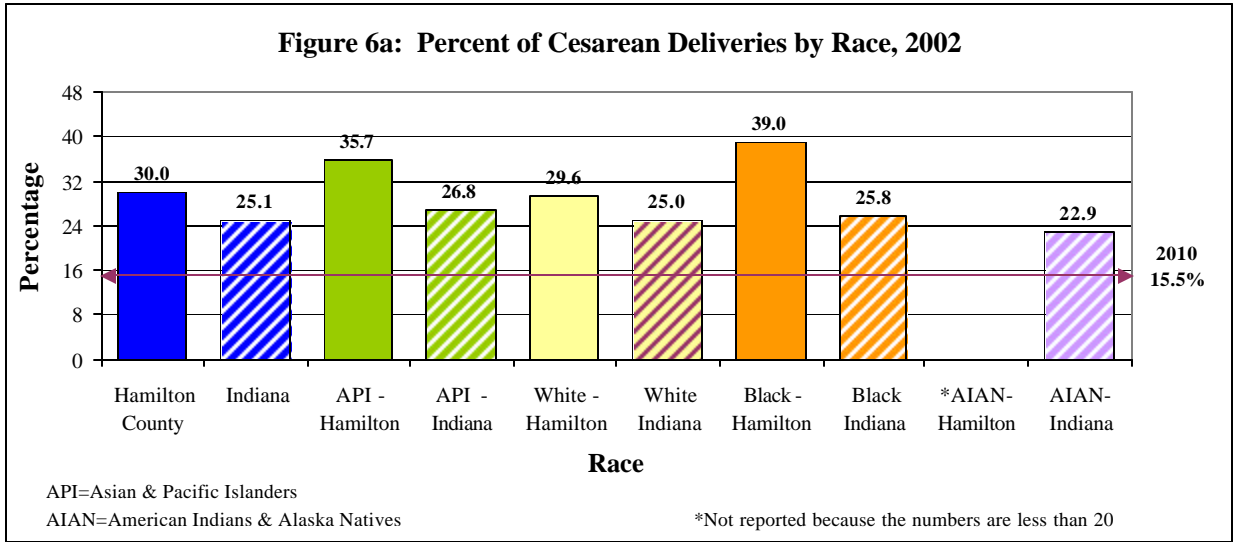
*Percent of Pregnancy Complications by Ethnicity (Figure 5b):*

- The percentage of pregnancy complications for Hispanics in Hamilton County was higher than the Healthy People 2010 objective.
- The percentage of pregnancy complications for Hispanics in Hamilton County was lower than the percentage for Non-Hispanics births in Hamilton County.
- The percentage of pregnancy complications for Hispanics in Hamilton County was lower than the percentage for all Hispanic births in Indiana.



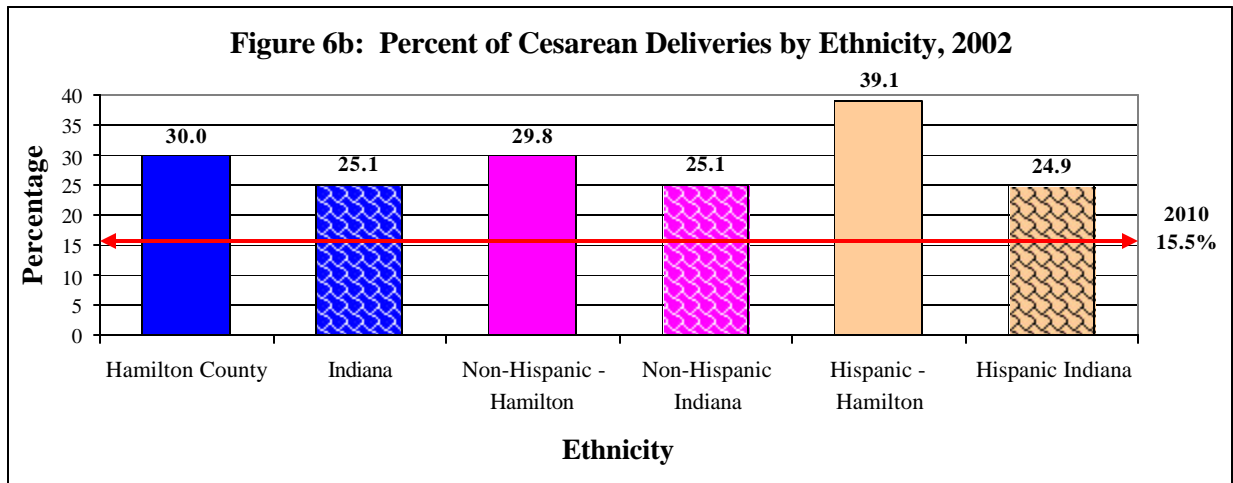
*Percent of Cesarean Deliveries by Race (Figure 6a):*

- The percentage of Cesarean deliveries for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of Cesarean deliveries for APIs and Blacks in Hamilton County was higher than the Healthy People 2010 objective.
- The percentage of Cesarean deliveries for APIs in Hamilton County was higher than the percentage for all births in Hamilton County.
- The percentage of Cesarean deliveries for APIs in Hamilton County was higher than the percentage for all API births in Indiana.
- The percentage of Cesarean deliveries for Blacks in Hamilton County was higher than the percentage for all births in Hamilton County.
- The percentage of Cesarean deliveries for Blacks in Hamilton County was higher than the percentage for all births by Blacks in Indiana.



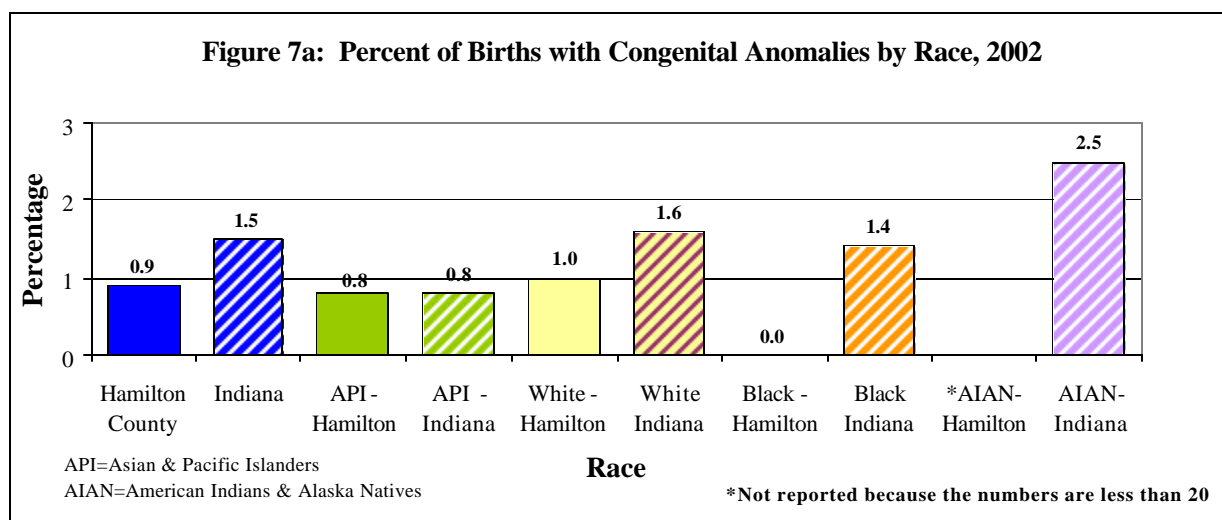
*Percent of Cesarean Deliveries by Ethnicity (Figure 6b):*

- The percentage of Cesarean deliveries for Hispanics in Hamilton County was higher than the Healthy People 2010 objective.
- The percentage of Cesarean deliveries for Hispanics in Hamilton County was higher than the percentage for Non-Hispanics births in Hamilton County.
- The percentage of Cesarean deliveries for Hispanics in Hamilton County was higher than the percentage for all Hispanic births in Indiana.



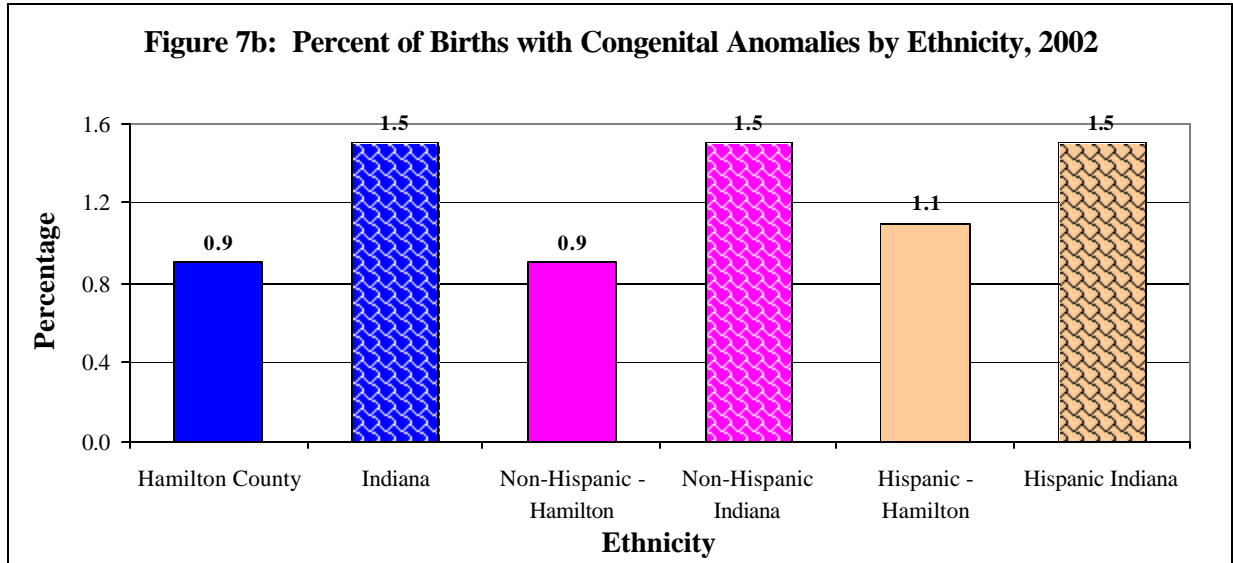
*Percent of Births with Congenital Anomalies by Race (Figure 7a):*

- The percentage of congenital anomalies for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of congenital anomalies for APIs in Hamilton County was similar to the percentage for all births in Hamilton County.
- The percentage of congenital anomalies for APIs in Hamilton County was the equal to the percentage for all API births in Indiana.
- The percentage of congenital anomalies for Blacks in Hamilton County was similar to the percentage for all births in Hamilton County.
- The percentage of congenital anomalies for Blacks in Hamilton County was lower than the percentage for all births by Blacks in Indiana.



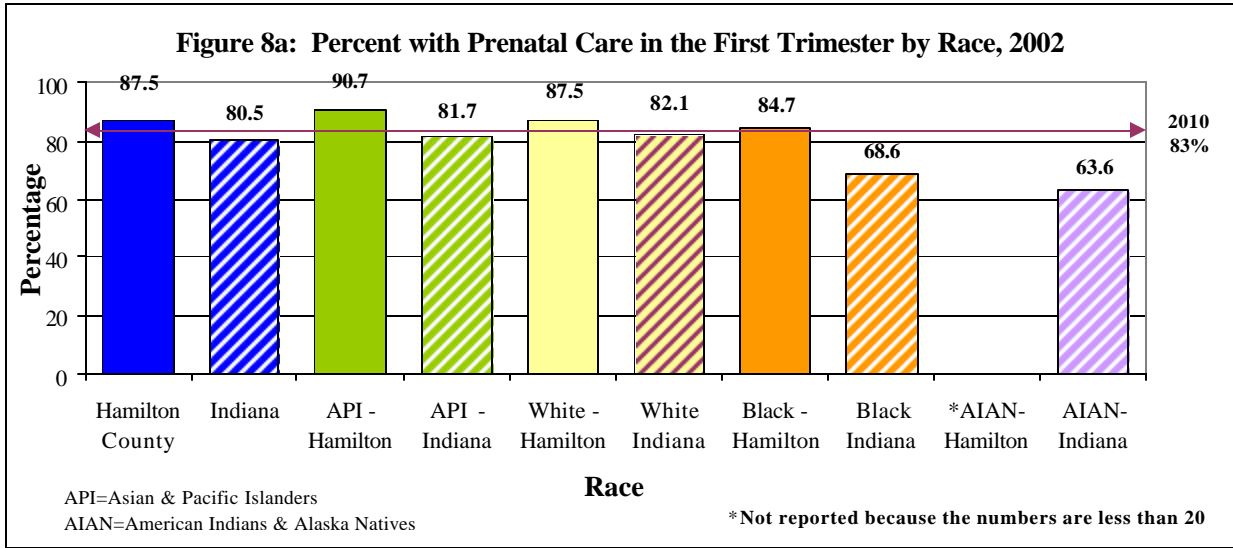
*Percent of Births with Congenital Anomalies by Ethnicity (Figure 7b):*

- The percentage of congenital anomalies for Hispanics in Hamilton County was similar to the percentage for Non-Hispanics births in Hamilton County.
- The percentage of congenital anomalies for Hispanics in Hamilton County was similar to the percentage for all Hispanic births in Indiana.



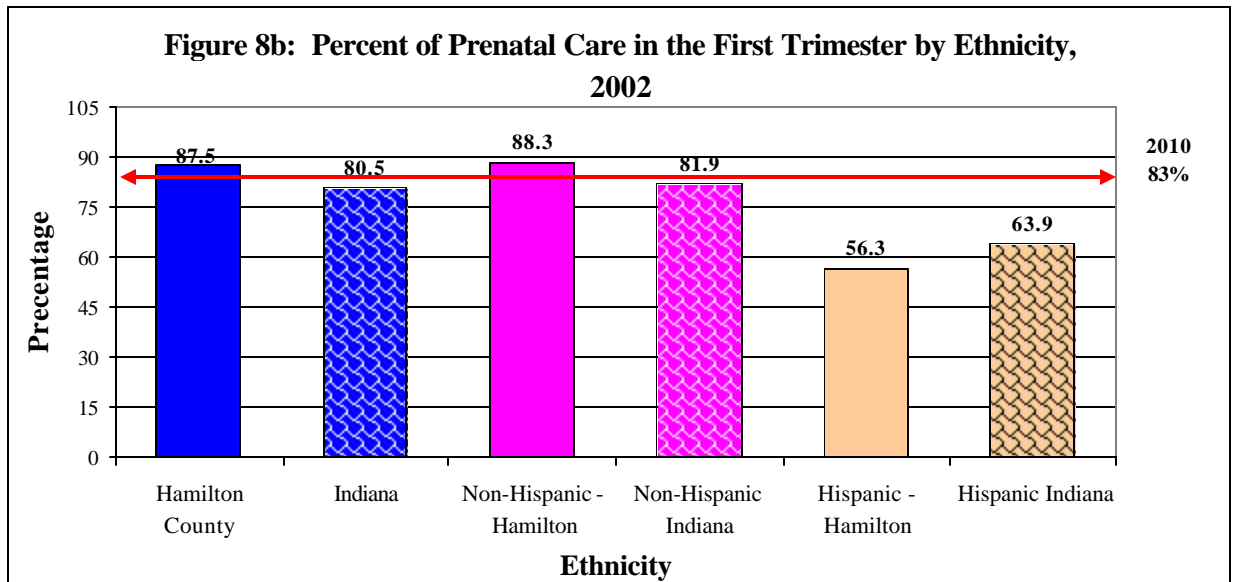
*Percent of Prenatal Care in the First Trimester by Race (Figure 8a):*

- The percentage of prenatal care in the first trimester for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of prenatal care in the first trimester for APIs in Hamilton County was above the Healthy People 2010 objective; the percentage of prenatal care in the first trimester for Blacks in Hamilton County was below the Healthy People 2010 objective.
- The percentage of prenatal care in the first trimester for APIs in Hamilton County was higher than the percentage for all births in Hamilton County.
- The percentage of prenatal care in the first trimester for APIs in Hamilton County was higher than the percentage for all API births in Indiana.
- The percentage of prenatal care in the first trimester for Blacks in Hamilton County was lower than the percentage for all births in Hamilton County.
- The percentage of prenatal care in the first trimester for Blacks in Hamilton County was higher than the percentage for all births by Blacks in Indiana.



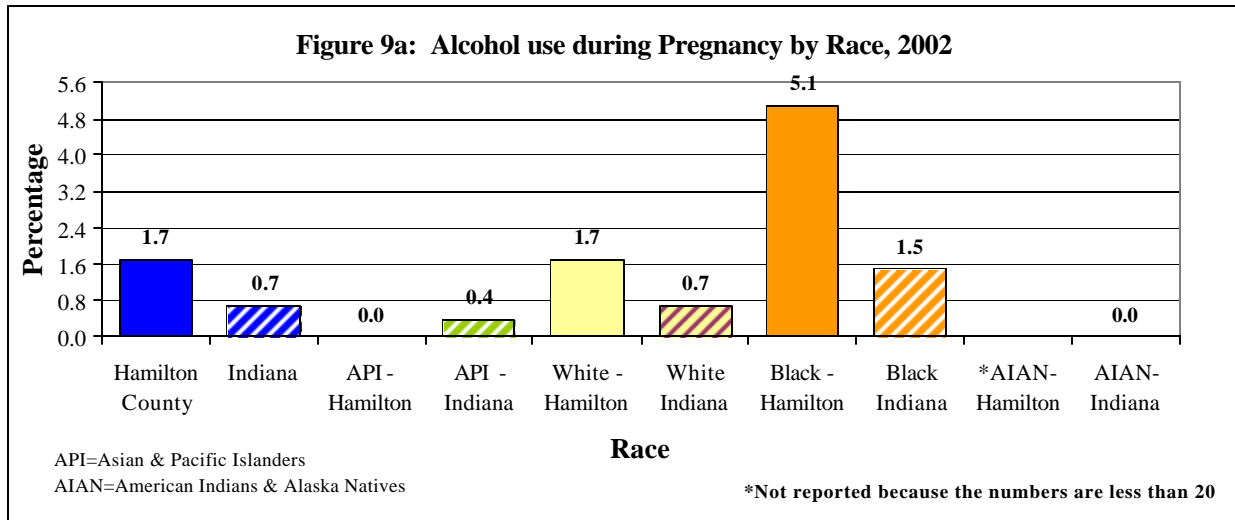
*Percent of Prenatal Care in the First Trimester by Ethnicity (Figure 8b):*

- The percentage of prenatal care in the first trimester for Hispanics in Hamilton County was below the Healthy People 2010 objective.
- The percentage of prenatal care in the first trimester for Hispanics in Hamilton County was lower than the percentage for Non-Hispanics births in Hamilton County.
- The percentage of prenatal care in the first trimester for Hispanics in Hamilton County was lower than the percentage for all Hispanic births in Indiana.



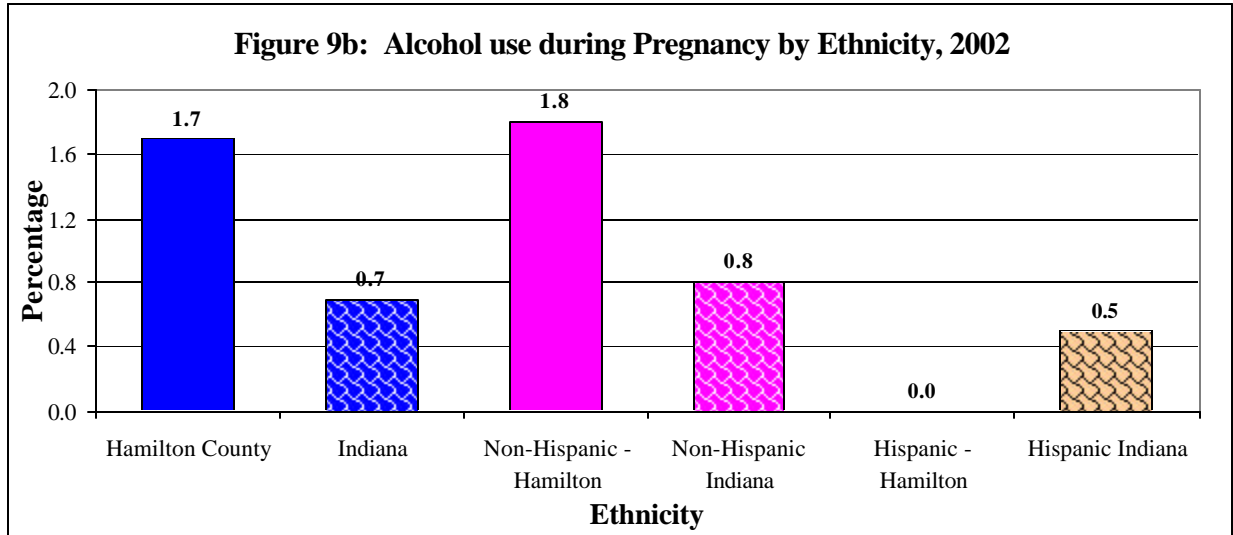
*Alcohol Use during Pregnancy by Race (Figure 9a):*

- The percentage of alcohol use during pregnancy for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of alcohol use during pregnancy for APIs in Hamilton County was lower than the percentage for all births in Hamilton County.
- The percentage of alcohol use during pregnancy for APIs in Hamilton County was similar to the percentage for all API births in Indiana.
- The percentage of alcohol use during pregnancy for Blacks in Hamilton County was higher than the percentage for all births in Hamilton County.
- The percentage of alcohol use during pregnancy for Blacks in Hamilton County was higher than the percentage for all births by Blacks in Indiana.



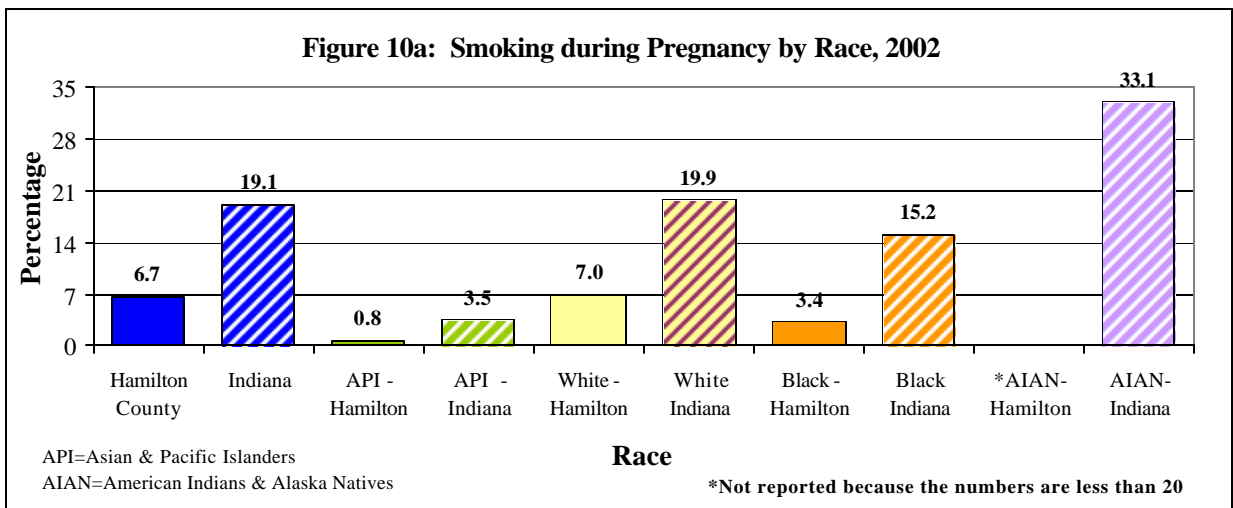
*Alcohol Use during Pregnancy by Ethnicity (Figure 9b):*

- The percentage of alcohol use during pregnancy for Hispanics in Hamilton County was lower than the percentage for Non-Hispanics births in Hamilton County.
- The percentage of alcohol use during pregnancy for Hispanics in Hamilton County was similar to the percentage for all Hispanic births in Indiana.



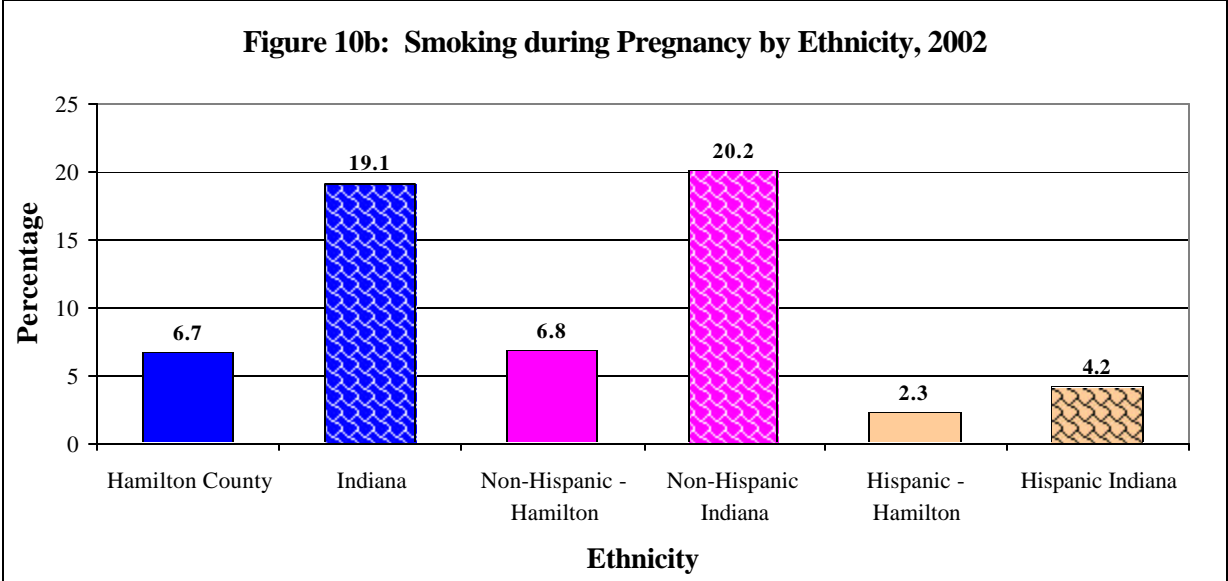
*Smoking during Pregnancy by Race (Figure 10a):*

- The percentage of smoking during pregnancy for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of smoking during pregnancy for APIs in Hamilton County was lower than the percentage for all births in Hamilton County.
- The percentage of smoking during pregnancy for APIs in Hamilton County was lower than the percentage for all API births in Indiana.
- The percentage of smoking during pregnancy for Blacks in Hamilton County was lower than the percentage for all births in Hamilton County.
- The percentage of smoking during pregnancy for Blacks in Hamilton County was lower than the percentage for all births by Blacks in Indiana.



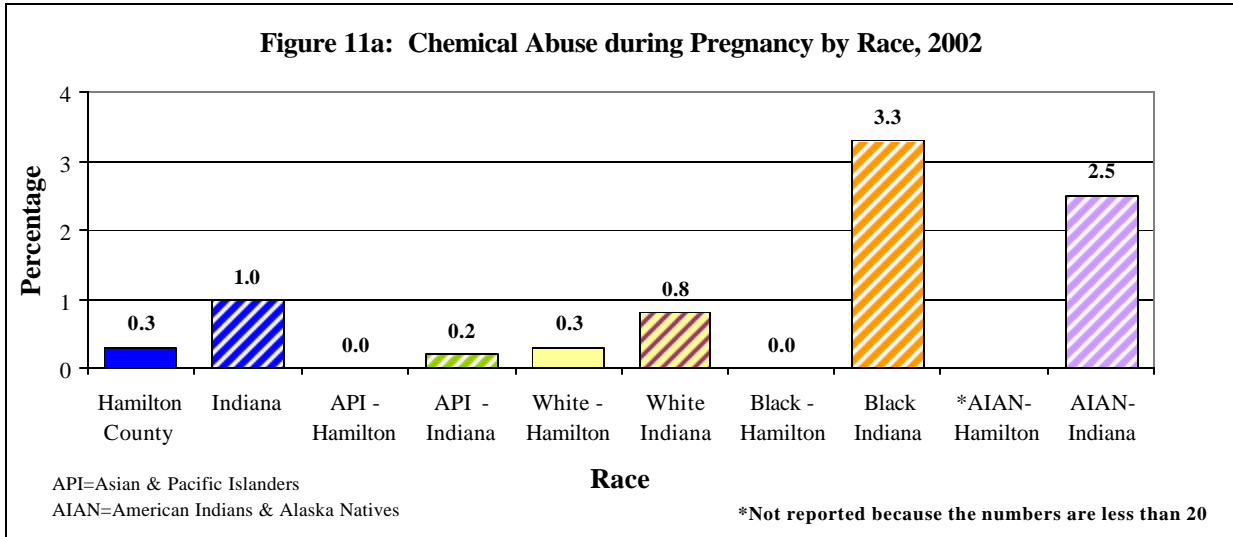
*Smoking during Pregnancy by Ethnicity (Figure 10b):*

- The percentage of smoking during pregnancy for Hispanics in Hamilton County was lower than the percentage for Non-Hispanics births in Hamilton County.
- The percentage of smoking during pregnancy for Hispanics in Hamilton County was lower than the percentage for all Hispanic births in Indiana.



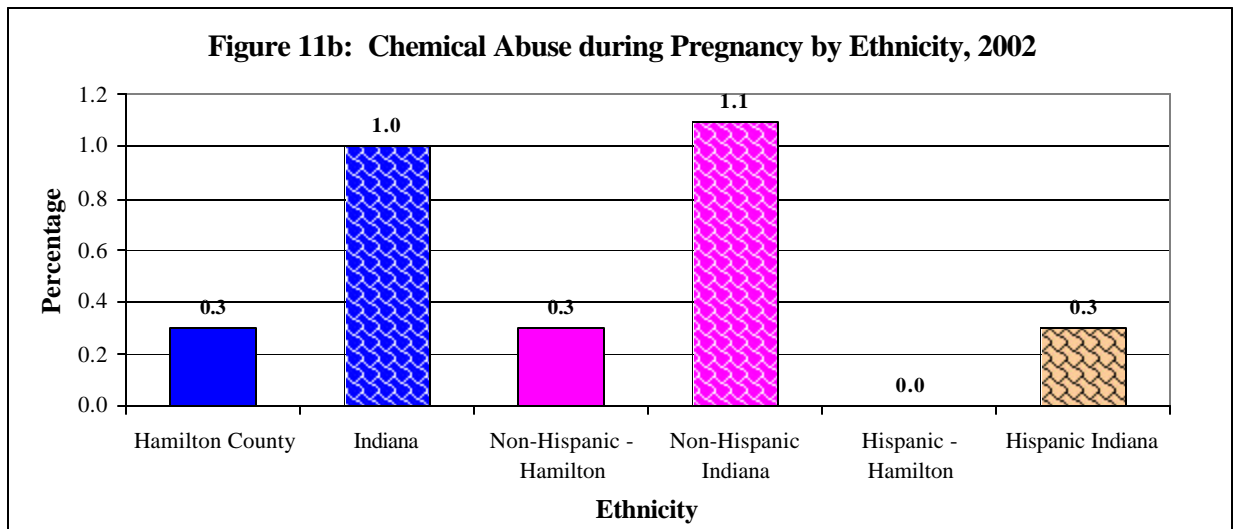
*Chemical Abuse during Pregnancy by Race (Figure 11a):*

- The percentage of chemical abuse during pregnancy for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of chemical abuse during pregnancy for APIs in Hamilton County was similar to the percentage for all births in Hamilton County.
- The percentage of chemical abuse during pregnancy for APIs in Hamilton County was similar to the percentage for all API births in Indiana.
- The percentage of chemical abuse during pregnancy for Blacks in Hamilton County was similar to the percentage for all births in Hamilton County.
- The percentage of chemical abuse during pregnancy for Blacks in Hamilton County was lower than the percentage for all births by Blacks in Indiana.



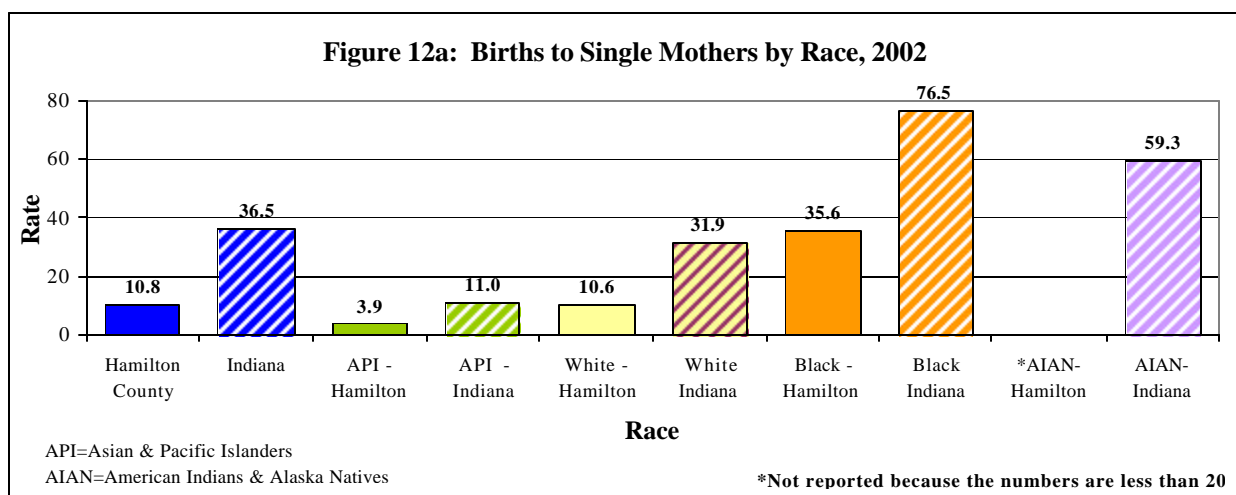
*Chemical Abuse during Pregnancy by Ethnicity (Figure 11b):*

- The percentage of chemical abuse during pregnancy for Hispanics in Hamilton County was similar to the percentage for Non-Hispanics births in Hamilton County.
- The percentage of chemical abuse during pregnancy for Hispanics in Hamilton County was similar to the percentage for all Hispanic births in Indiana.



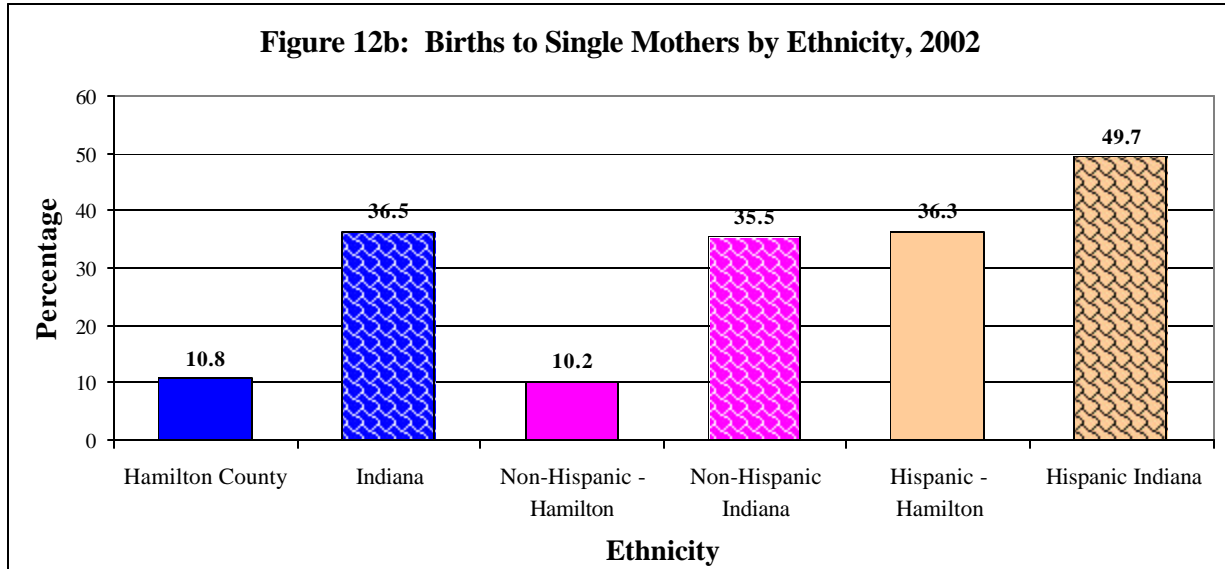
*Births to Single Mothers by Race (Figure 12a):*

- The percentage of births to single mothers for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of births to single mothers for APIs in Hamilton County was lower than the percentage for all births in Hamilton County.
- The percentage of births to single mothers for APIs in Hamilton County was lower than the percentage for all API births in Indiana.
- The percentage of births to single mothers for Blacks in Hamilton County was higher than the percentage for all births in Hamilton County.
- The percentage of births to single mothers for Blacks in Hamilton County was lower than the percentage for all births by Blacks in Indiana.



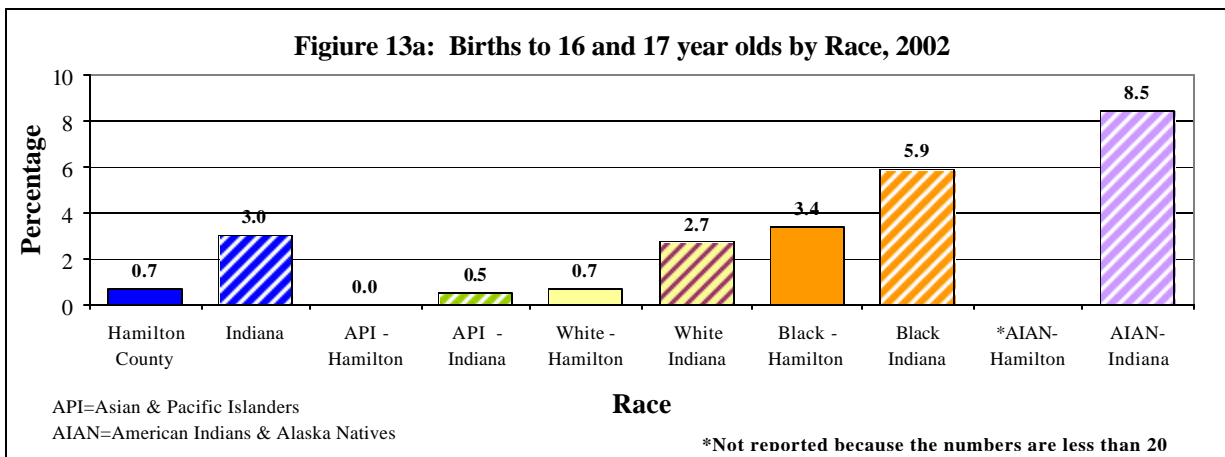
*Births to Single Mothers by Ethnicity (Figure 12b):*

- The percentage of births to single mothers for Hispanics in Hamilton County was higher than the percentage for Non-Hispanic births in Hamilton County.
- The percentage of births to single mothers for Hispanics in Hamilton County was lower than the percentage for all Hispanic births in Indiana.



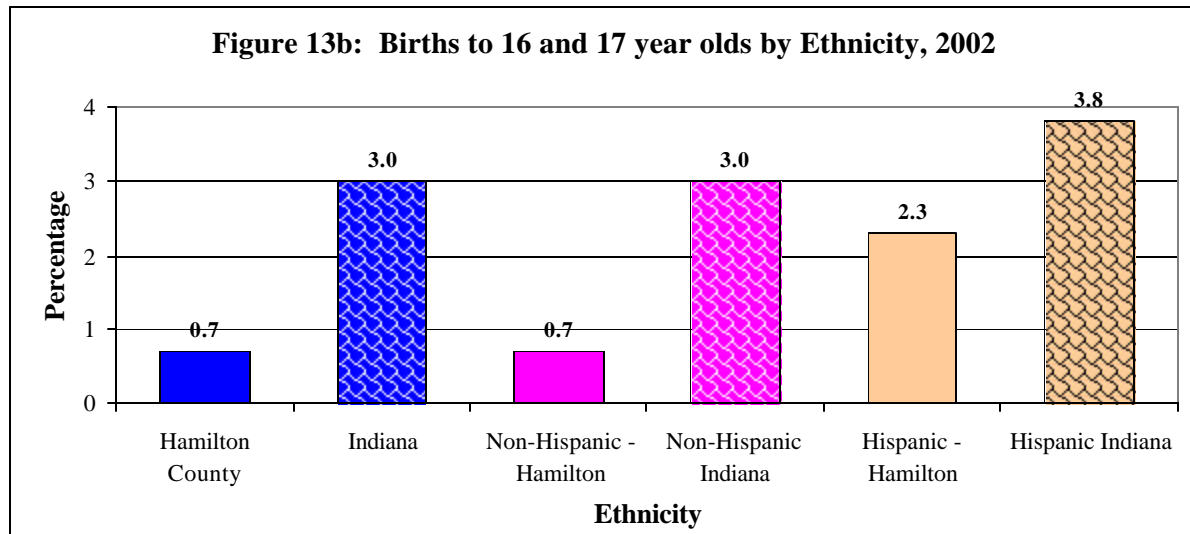
*Births to 16 and 17 Year olds by Race (Figure 13a):*

- The percentage of births to 16 and 17 year olds for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of births to 16 and 17 year olds for APIs in Hamilton County was similar to the percentage for all births in Hamilton County.
- The percentage of births to 16 and 17 year olds for APIs in Hamilton County was similar to the percentage for all API births in Indiana.
- The percentage of births to 16 and 17 year olds for Blacks in Hamilton County was higher than the percentage for all births in Hamilton County.
- The percentage of births to 16 and 17 year olds for Blacks in Hamilton County was lower than the percentage for all births by Blacks in Indiana.



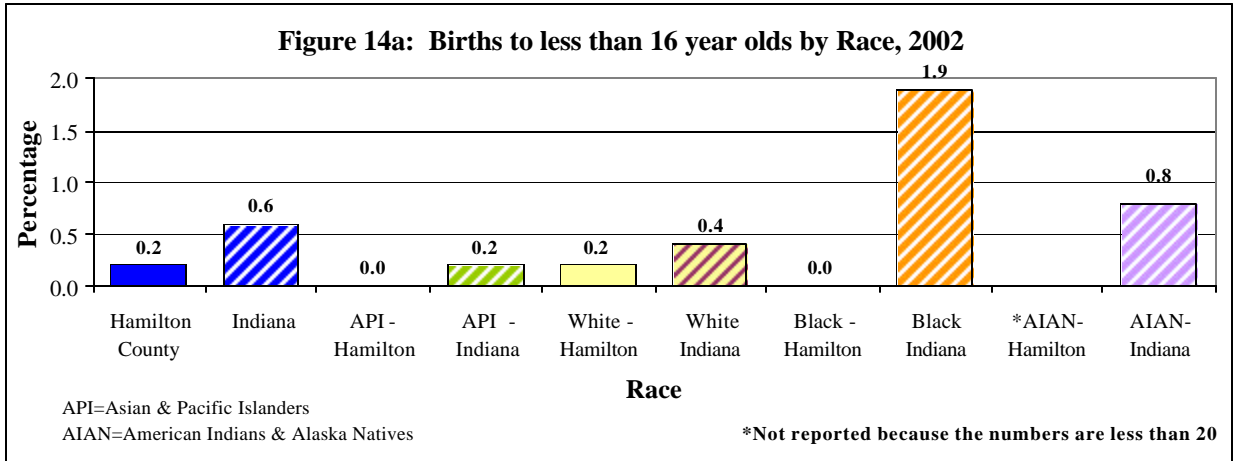
*Births to 16 and 17 Year olds by Ethnicity (Figure 13b):*

- The percentage of births to 16 and 17 year olds for Hispanics in Hamilton County was higher than the percentage for Non-Hispanic births in Hamilton County.
- The percentage of births to 16 and 17 year olds for Hispanics in Hamilton County was lower than the percentage for all Hispanic births in Indiana.



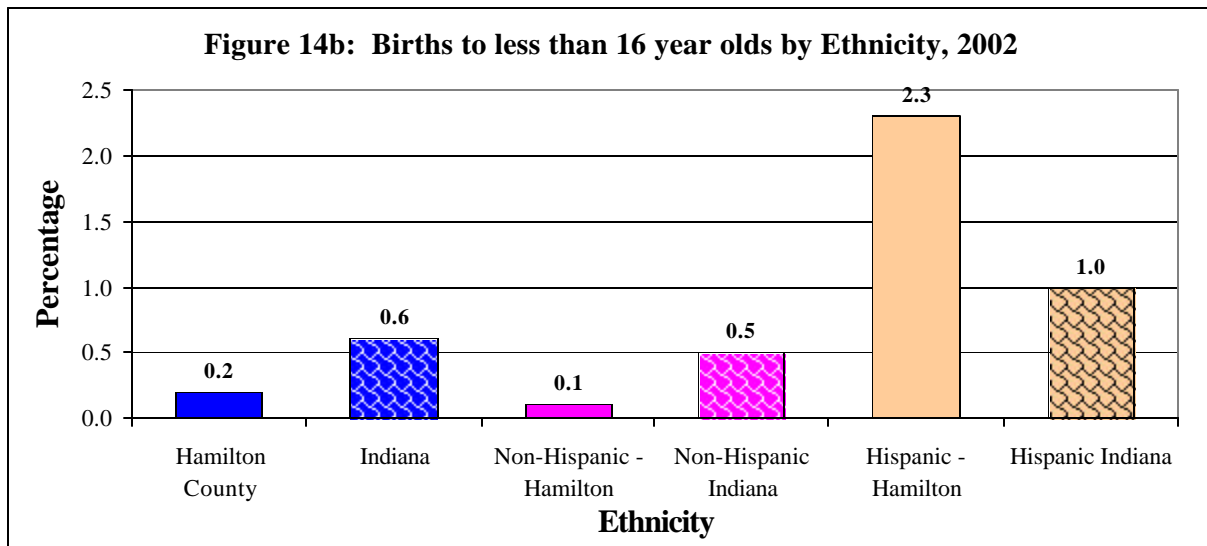
*Births to Less than 16 Year olds by Race (Figure 14a):*

- The percentage of births to less than 16 year olds for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of births to less than 16 year olds for APIs in Hamilton County was similar to the percentage for all births in Hamilton County.
- The percentage of births to less than 16 year olds for APIs in Hamilton County was similar to the percentage for all API births in Indiana.
- The percentage of births to less than 16 year olds for Blacks in Hamilton County was similar to the percentage for all births in Hamilton County.
- The percentage of births to less than 16 year olds for Blacks in Hamilton County was lower than the percentage for all births by Blacks in Indiana.



*Births to Less than 16 Year olds by Ethnicity (Figure 14b):*

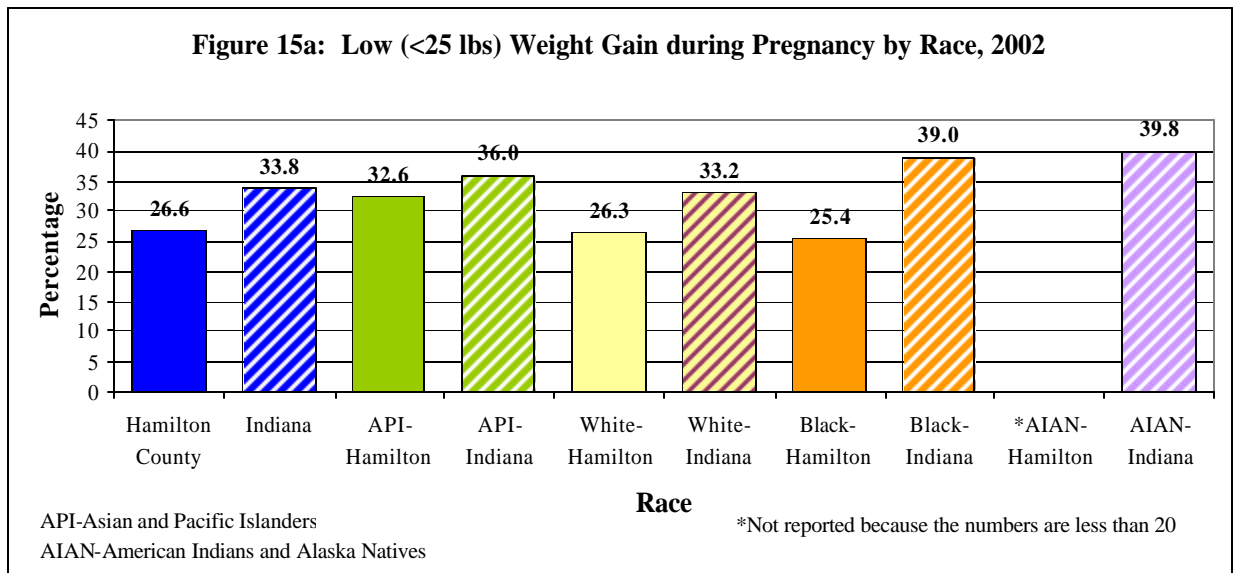
- The percentage of births to less than 16 year olds for Hispanics in Hamilton County was higher than the percentage for Non-Hispanic births in Hamilton County.
- The percentage of births to less than 16 year olds for Hispanics in Hamilton County was higher than the percentage for all Hispanic births in Indiana.



**Weight Gain during Pregnancy:**

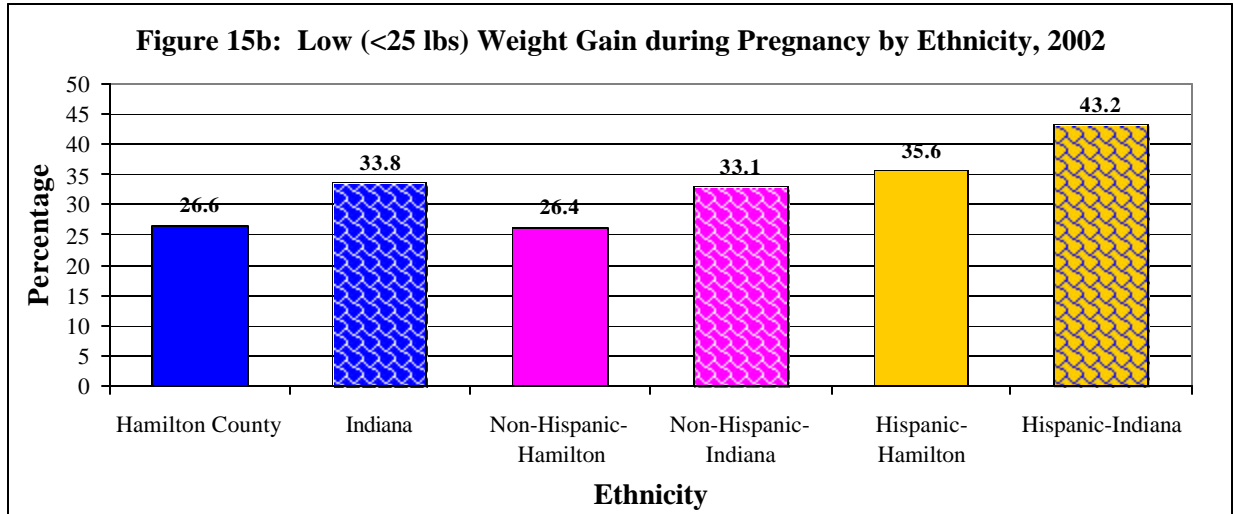
*Low (<25 lbs) Weight Gain (LWG) during Pregnancy by Race (Figure 15a):*

- The percentage of LWG during pregnancy for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of LWG during pregnancy for APIs in Hamilton County was higher than the percentage for all births in Hamilton County.
- The percentage of LWG during pregnancy for APIs in Hamilton County was lower than the percentage for all API births in Indiana.
- The percentage of LWG during pregnancy for Blacks in Hamilton County was lower than the percentage for all births in Hamilton County.
- The percentage of LWG during pregnancy for Blacks in Hamilton County was lower than the percentage for all births by Blacks in Indiana.



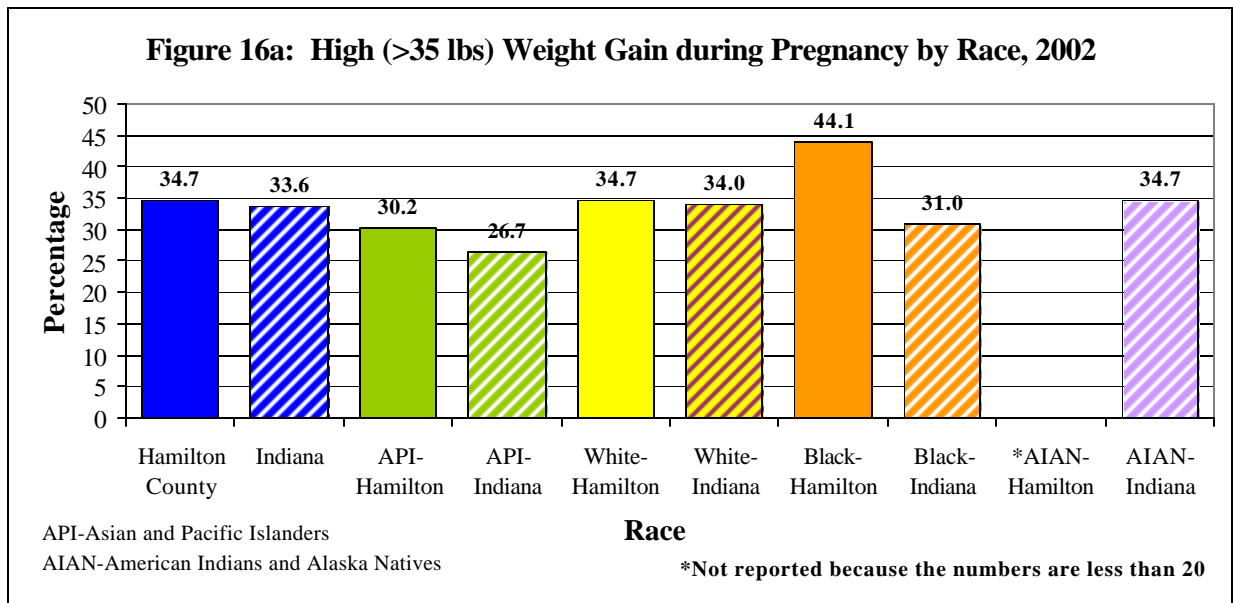
*Low (<25 lbs) Weight Gain (LWG) during Pregnancy by Ethnicity (Figure 15b):*

- The percentage of LWG during pregnancy for Hispanics in Hamilton County was higher than the percentage for Non-Hispanic births in Hamilton County.
- The percentage of LWG during pregnancy for Hispanics in Hamilton County was lower than the percentage for all Hispanic births in Indiana.



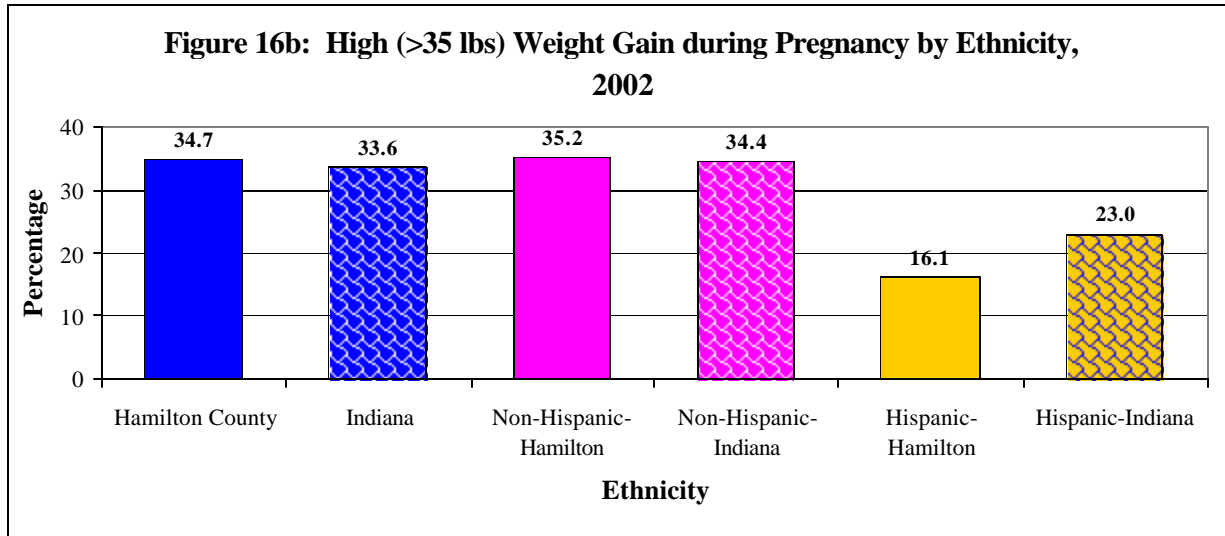
*High (>35 lbs) Weight Gain (HWG) during Pregnancy by Race (Figure 16a):*

- The percentage of HWG during pregnancy for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of HWG during pregnancy for APIs in Hamilton County was lower than the percentage for all births in Hamilton County.
- The percentage of HWG during pregnancy for APIs in Hamilton County was higher than the percentage for all API births in Indiana.
- The percentage of HWG during pregnancy for Blacks in Hamilton County was higher than the percentage for all births in Hamilton County.
- The percentage of HWG during pregnancy for Blacks in Hamilton County was higher than the percentage for all births by Blacks in Indiana.



*High (>35 lbs) Weight Gain (HWG) during Pregnancy by Ethnicity (Figure 16b):*

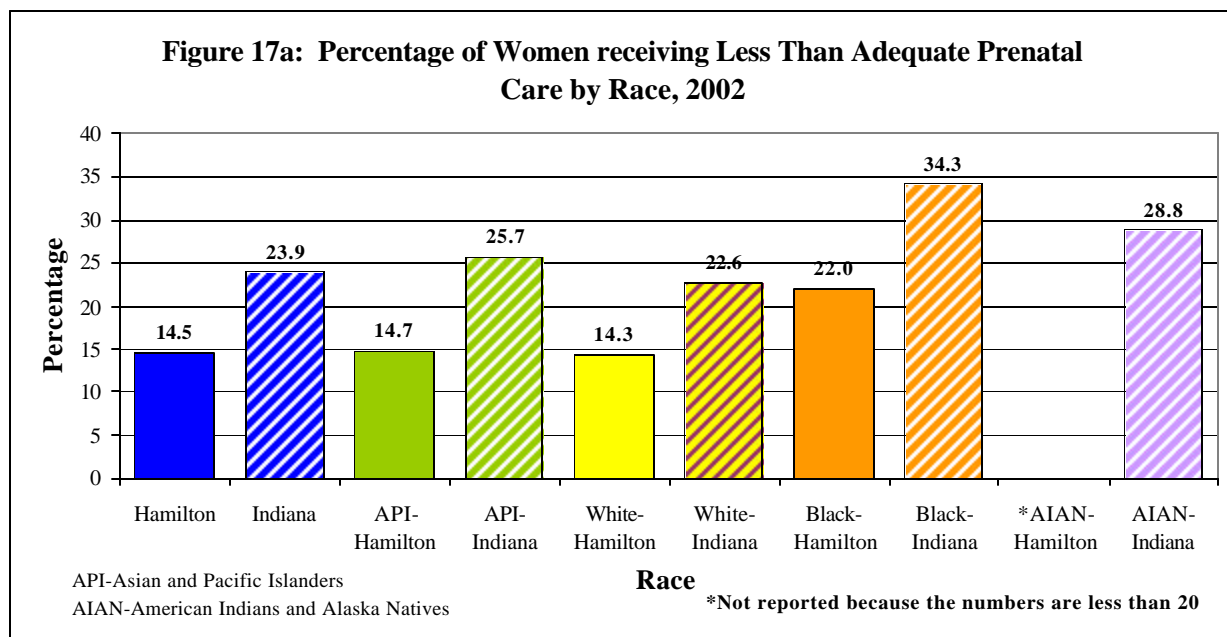
- The percentage of HWG during pregnancy for Hispanics in Hamilton County was lower than the percentage for Non-Hispanic births in Hamilton County.
- The percentage of HWG during pregnancy for Hispanics in Hamilton County was lower than the percentage for all Hispanic births in Indiana.



**Prenatal Care:**

*Percentage of Women Receiving Less than Adequate Prenatal Care by Race (Figure 17a):*

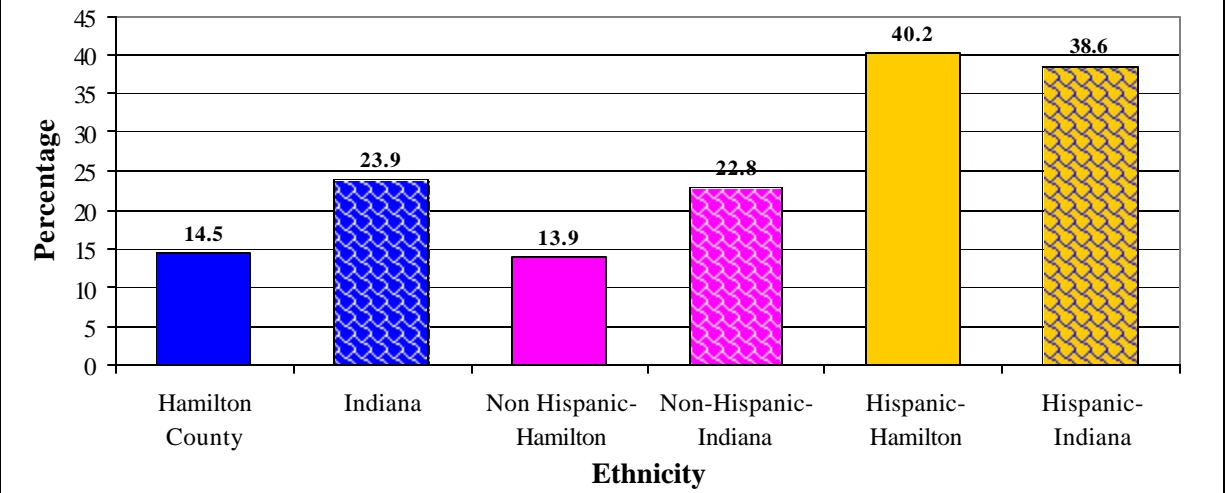
- The percentage of Women receiving less than adequate prenatal care for AIANs in Hamilton County could not be compared due to the small number of births.
- The percentage of Women receiving less than adequate prenatal care for APIs in Hamilton County was similar to the percentage for all births in Hamilton County.
- The percentage of Women receiving less than adequate prenatal care for APIs in Hamilton County was lower than the percentage for all API births in Indiana.
- The percentage of Women receiving less than adequate prenatal care for Blacks in Hamilton County was higher than the percentage for all births in Hamilton County.
- The percentage of Women receiving less than adequate prenatal care for Blacks in Hamilton County was lower than the percentage for all births by Blacks in Indiana.



*Percentage of Women Receiving Less than Adequate Prenatal Care by Ethnicity (Figure 17b):*

- The percentage of Women receiving less than adequate prenatal care for Hispanics in Hamilton County was higher than the percentage for Non-Hispanic births in Hamilton County.
- The percentage of Women receiving less than adequate prenatal care for Hispanics in Hamilton County was higher than the percentage for all Hispanic births in Indiana.

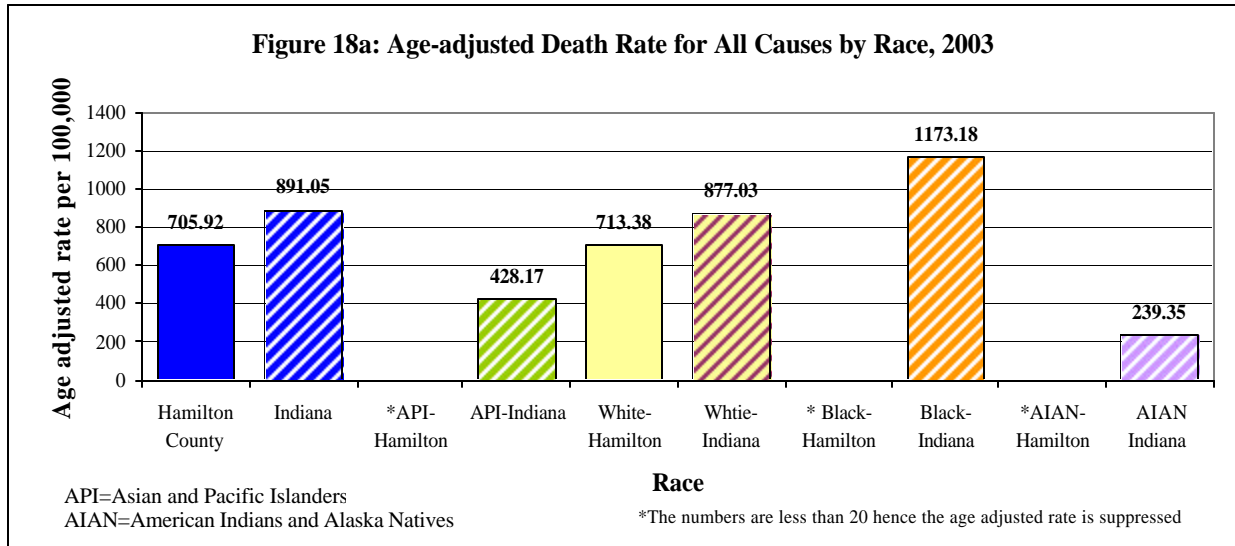
**Figure 17b: Percentage of Women receiving Less than Adequate Prenatal Care by Ethnicity, 2002**



**Leading Causes of Death:**

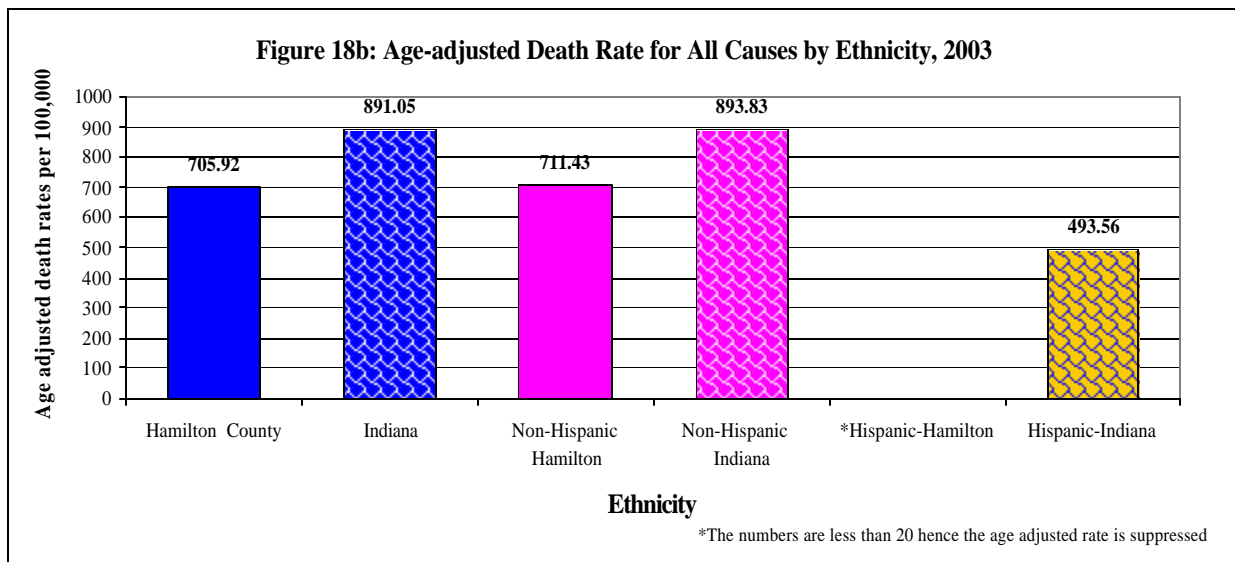
*Age-adjusted Death Rate for All Causes by Race (Figure 18a):*

- The age-adjusted death rate for APIs, AIANs and Blacks in Hamilton County could not be compared due to the small number of deaths.



*Age-adjusted Death Rate for All Causes by Ethnicity (Figure 18b):*

- The age-adjusted death rate for Hispanics in Hamilton County could not be compared due to the small number of deaths.



Five Leading Causes of Death by Race (Figure 19a):

- Deaths by cause for AIANs in Hamilton County could not be compared due to the small number of deaths.

Figure 19a: Five Leading Causes of Death by Race, 2003						
Leading Cause of Death by Race, 2003	Hamilton County					
	Indiana State N=55,123	ALL Races N=948	Asian and Pacific Islanders N=12	White N=927	Black N=7	American Indians & Alaska Natives N=2
#1	Diseases of the Heart N=15,180	Diseases of the Heart N=257	Diseases of the Heart N=**	Diseases of the Heart N=252	Malignant Neoplasms N=**	N/A
#2	Malignant Neoplasms N=12,771	Malignant Neoplasms N=207	N/A	Malignant Neoplasms N=203	Diseases of the Heart N=**	N/A
#3	Cerebrovascular Diseases N=3,674	Chronic Lower respiratory disease N=54	N/A	Chronic Lower respiratory disease N=53	N/A	N/A
#4	Chronic Lower respiratory disease N=3,127	Cerebrovascular Diseases N=51	N/A	Cerebrovascular Diseases N=49	N/A	N/A
#5	Accidents N=2,086	Alzheimer Disease N=45	N/A	Alzheimer Disease N=45	N/A	N/A

\*\* = 'Number' is suppressed if under 5.

N/A = Not applicable.

Since the numbers are small, the patterns need to be interpreted with caution.

*Five Leading Causes of Death by Ethnicity (Figure 19b):*

- Deaths by cause for Hispanics in Hamilton County could not be compared due to the small number of deaths.
- Diseases of the heart are the number one cause of death in Hamilton County.

<b>Figure 19b: Five Leading Causes of Death by Ethnicity, 2003</b>				
		<b>Hamilton County</b>		
<b>Leading Cause of Death by Ethnicity, 2003</b>	<b>Indiana State (All Causes) N=55,123</b>	<b>ALL Ethnic Groups N= 948</b>	<b>Non-Hispanic N= 948</b>	<b>Hispanic N= 0</b>
<b>#1</b>	Diseases of the Heart N=15,180	Diseases of the Heart N=257	Diseases of the Heart N=257	N/A
<b>#2</b>	Malignant Neoplasms N=12,771	Malignant Neoplasms N=207	Malignant Neoplasms N=207	N/A
<b>#3</b>	Cerebrovascular Diseases N=3,674	Chronic Lower respiratory disease N=54	Chronic Lower respiratory disease N=54	N/A
<b>#4</b>	Chronic Lower respiratory disease N=3,127	Cerebrovascular Diseases N=51	Cerebrovascular Diseases N=51	N/A
<b>#5</b>	Accidents N=2,086	Alzheimer Disease N=45	Alzheimer Disease N=45	N/A

\*\* = 'Number' is suppressed if under 5.

N/A = Not applicable.

Since the numbers are small, the patterns need to be interpreted with caution

# CONCLUSIONS

## Conclusions

This report documents that health disparities exist by race and ethnic group within Hamilton County. There were fewer than 20 birth and death incidents for American Indians/Alaska Natives (AIAN) and therefore it was impossible to make any comparisons.

The Asian/Pacific Islanders (API) population in Hamilton County is disproportionately affected when comparing the health indicators among racial groups. Many health indicators have room for improvement because they do not meet Health People 2010 objectives and / or have higher percentages in comparison to all births in the county. These indicators are low birth weight, very low birth weight, preterm births, early preterm births, pregnancy complications, Cesarean deliveries, and low weight gain during pregnancy.

The Black population in Hamilton County was disproportionately affected when comparing the health indicators among racial groups. There is room for improvement in the following indicators: low birth weight, pregnancy complications, Cesarean deliveries, alcohol use during pregnancy, births to single mothers, births to 16 and 17 year olds, and high weight gain during pregnancy. Furthermore, fewer Black women receive prenatal care during the first trimester, and more Blacks in Hamilton County receive less than adequate prenatal care.

The Hispanic population in Hamilton County was disproportionately affected when comparing the health indicators among ethnic groups. There was room for improvement in pregnancy complications, Cesarean deliveries, births to single mothers, teenage pregnancy, and low weight gain during pregnancy. Moreover, fewer Hispanic women receive prenatal care during the first trimester and more Hispanic women receive less than adequate prenatal care.

The age-adjusted death rate and deaths by cause for APIs, AIANs, Blacks and Hispanics in Hamilton County could not be compared due to the small numbers.

Educating the community about the benefits of a healthier life-style, using preventive health services and being more aware of the services that are available were offered as solutions to the lower health status levels and access problems that exist within the minority populations. Educating providers in the differences within cultures and increasing cultural sensitivity were also suggested. Interpreters and translators were offered by the Hispanic populations.

It is hoped that the findings in this report will provide the catalyst to bring communities together to discuss existing differences in health indicators and ultimately to better develop strategies to reduce them so that all Hamilton County residents can achieve the highest possible level of health status. In addition, this report can be used by policy makers, providers and program administrators to focus interventions on those areas that are of most concern to the minority population.

Monitoring of health indicators (primary and secondary health data) over time will allow health policy makers, providers, and program funding agencies to note positive or negative changes that have occurred and will permit them to react more quickly to remedy undesired direction. Achieving a major reduction in racial and ethnic differences in health indicators will

not be achieved in the short term; incremental changes (both desirable and undesirable) can be demonstrated best through continued annual monitoring. Documentation of progress made (success) is the key to continuing successful programs; documentation of movement in the wrong direction can and should lead to more timely interventions. Current information is the basic foundation from which interventions can be developed and implemented.