

ARIZONA AMERICAN INDIAN HEALTH STATUS
SUMMARY REPORT FOR DATA YEAR 2015



ARIZONA DEPARTMENT
OF HEALTH SERVICES

JUNE 2017

Table of Contents	Page
Acknowledgments/Contributions.....	2
Background	3
Executive Summary.....	4
Demographics	5
American Indian Health Status Compared to the Rest of Arizona.....	7
Leading Causes of Death	23

Acknowledgments/Contributions

Arizona Department of Health Services Native American Liaison

Michael Allison

Arizona Department of Health Services Public Health Statistics

Marguerite L. Sagna, Ph.D

Sanhita Gupta

Clare Torres

Arizona Department of Health Services Health Disparities Center

Alexandria Drake

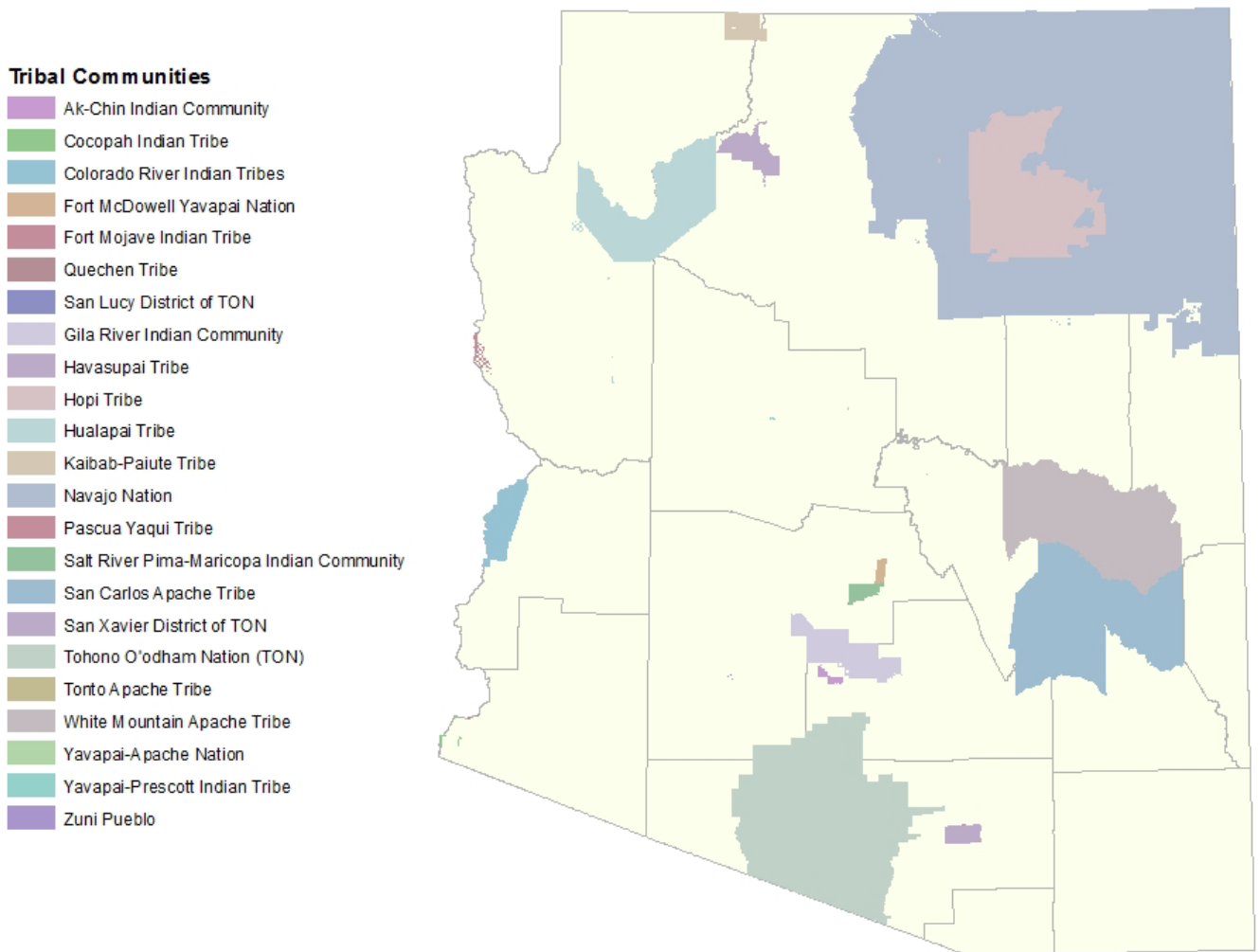
Michelle Sandoval-Rosario

Teresa Aseret-Manygoats

Background

Arizona Tribal Lands and Reservations

The state of Arizona is home to 22 sovereign American Indian Tribes. The American Indian/Alaska Native (AI/AN) community represents a vital and significant part of Arizona’s population. In 2015, 5.3% of residents in Arizona identified as AI/AN, representing nearly 362,000 persons¹. This is the 3rd largest AI/AN population in the United States with only California and Oklahoma having a larger population of AI/AN individuals². Tribal lands comprise 28% of Arizona’s land base. The map below illustrates tribal lands across the state.



¹ United States Census Bureau Quick Facts, 2015

² United States Census, Census Brief, 2010

Executive Summary

Compared to other race and ethnicity, AI/AN have a lower life expectancy and are disproportionately impacted by many chronic diseases such as diabetes and chronic liver disease. AI/AN are more likely to live in poverty, suffer from tobacco-related deaths, have a greater risk for developing alcohol disorders, and a high prevalence of obesity.

This health status summary report highlights some of the health disparities and major causes of death faced by the AI/AN community in Arizona. The purpose of this report is to inform tribal leaders and organizations on health disparities impacting AI/AN, identify health priorities, and serve as a guide to develop programs and interventions aimed at improving the health of AI/AN in Arizona.

This report includes tables and graphs, with information on chronic diseases, causes of death, and behavioral risk factors, comparing AI/AN to all groups in Arizona. Data from the Arizona Department of Health Services Health Status Profile of American Indians in Arizona 2015 Data Book and United States Census Bureau was utilized to compile the information presented in this summary report.

IN 2015, AMERICAN INDIAN RESIDENTS OF ARIZONA:

- Ranked worse than the statewide average on 49 of 65 health indicators;
- Had high mortality from alcohol-induced causes, chronic liver disease and cirrhosis, motor vehicle accidents, nephritis, unintentional injuries, diabetes, assault, septicemia, incidence of congenital anomalies, influenza and pneumonia, and sudden infant death syndrome: all contributing to the premature death rate of 77.4 percent;
- Ranked poorly on measures of maternal lifestyle and health, as well as in utilization of prenatal care;
- On average, age of deaths was 16 years younger compared to all racial/ethnic groups;
- Ranked better than average on a number of health indicators including mortality rates for several chronic diseases (lung cancer, chronic lower respiratory diseases, Alzheimer's disease, breast cancer, coronary heart disease, cervical cancer, heart disease, all malignant neoplasms, and cardiovascular disease), tobacco use during pregnancy, drug induced deaths, and injury by firearms.

Demographics

Figure 1. Race/Ethnicity Population Distribution, 2015³

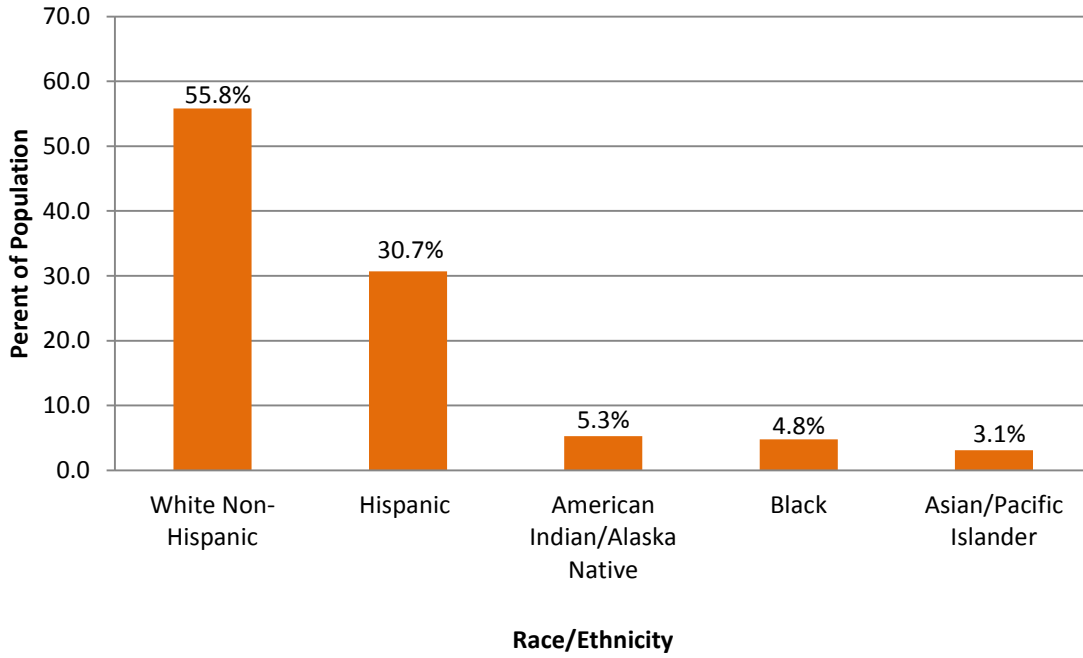
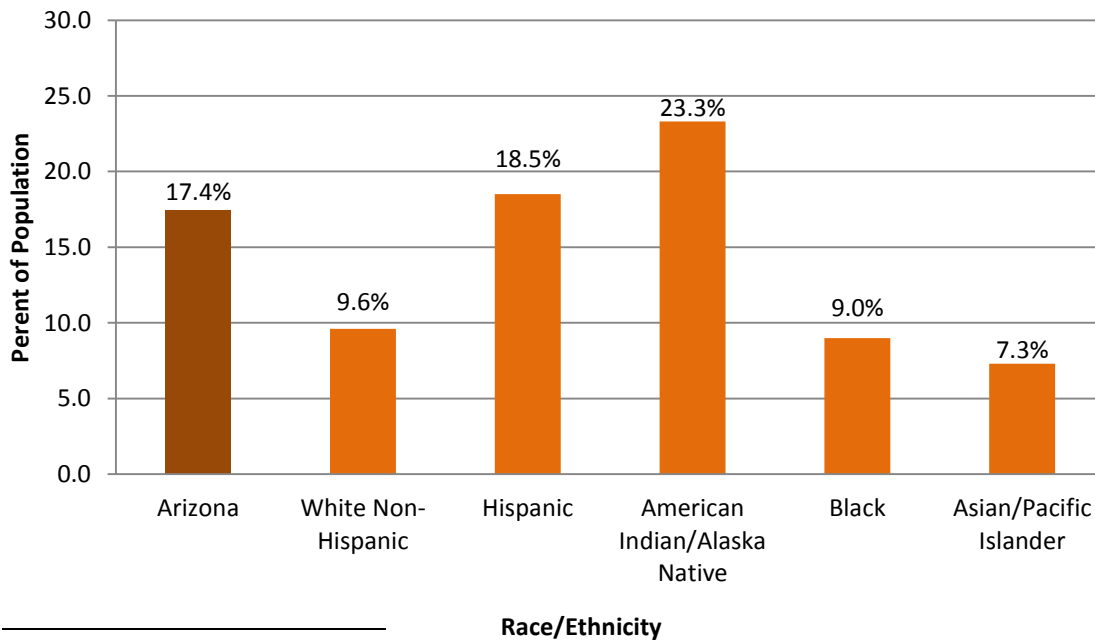


Figure 2. Percentage of Arizona Adults in Poverty, 2015⁴



³ Arizona Quick Facts, United States Census Bureau, 2015

⁴ American Community Survey, United States Census Bureau 2015

Figure 3. Percentage of Arizona Adults Uninsured, 2015⁵

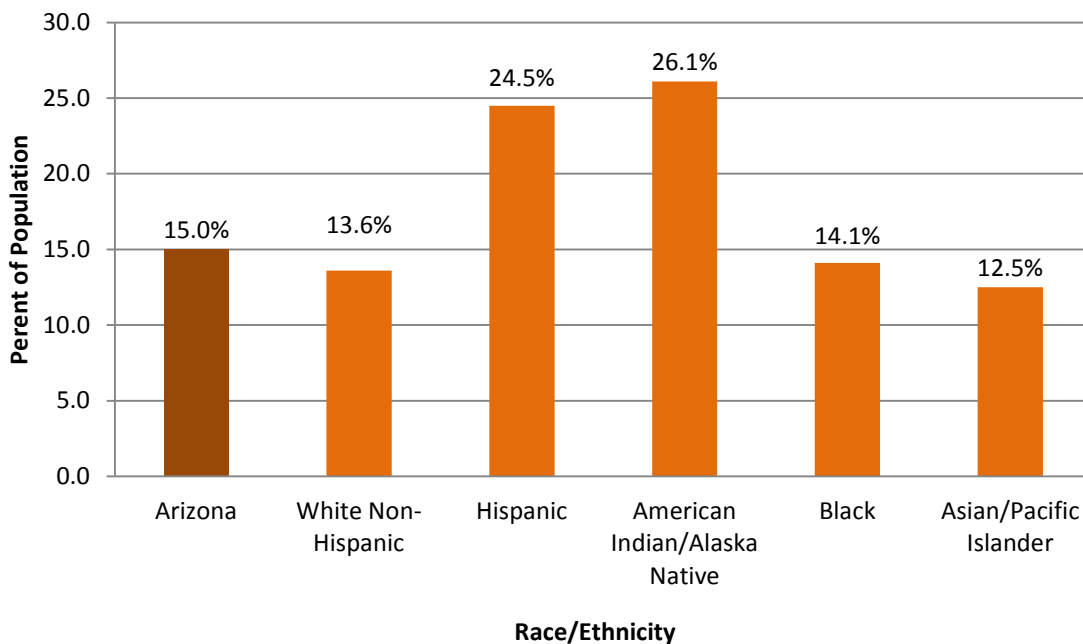
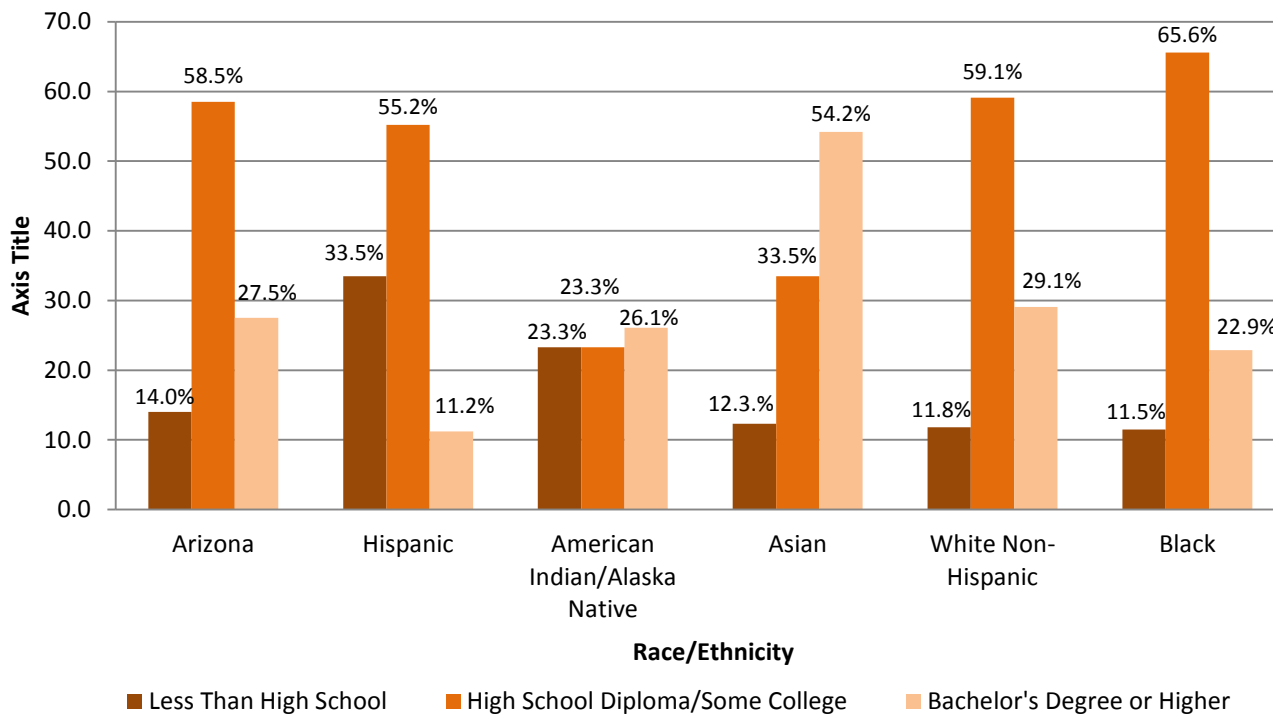


Figure 4. Education Attainment by Race and Ethnicity, 2015⁵



American Indian Health Status Compared to the Rest of Arizona

Figure 5. Teen Pregnancy Rate among American Indians Compared to all Groups in Arizona, 2015

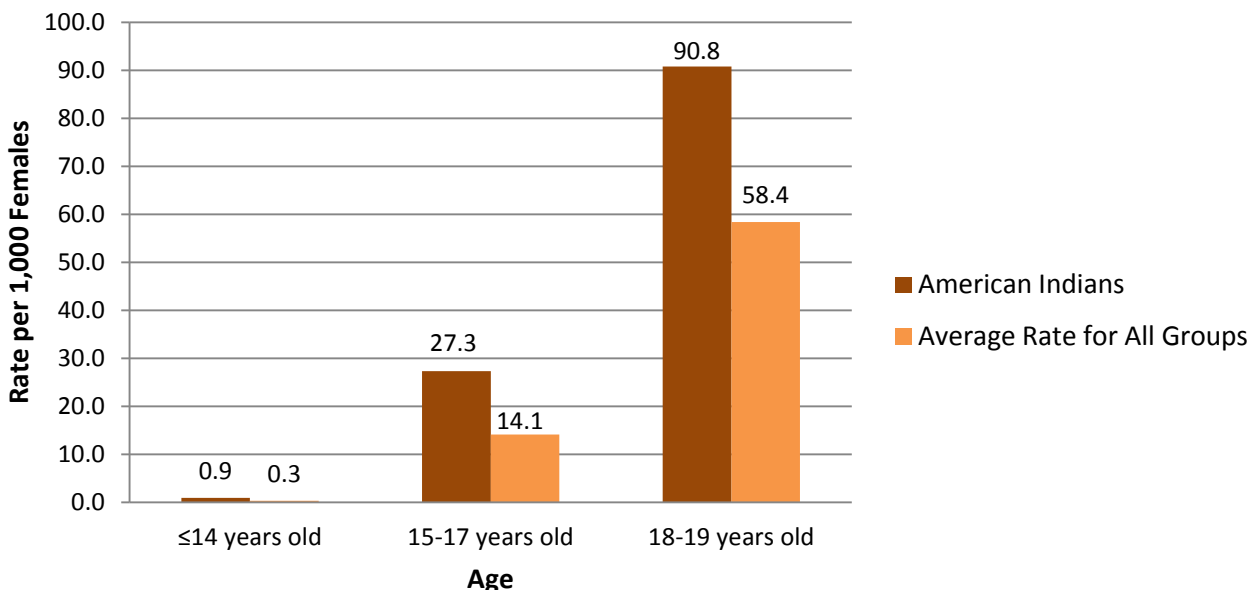


Figure 6. Maternal Lifestyle and Health Characteristics among American Indians Compared to all Groups in Arizona, 2015

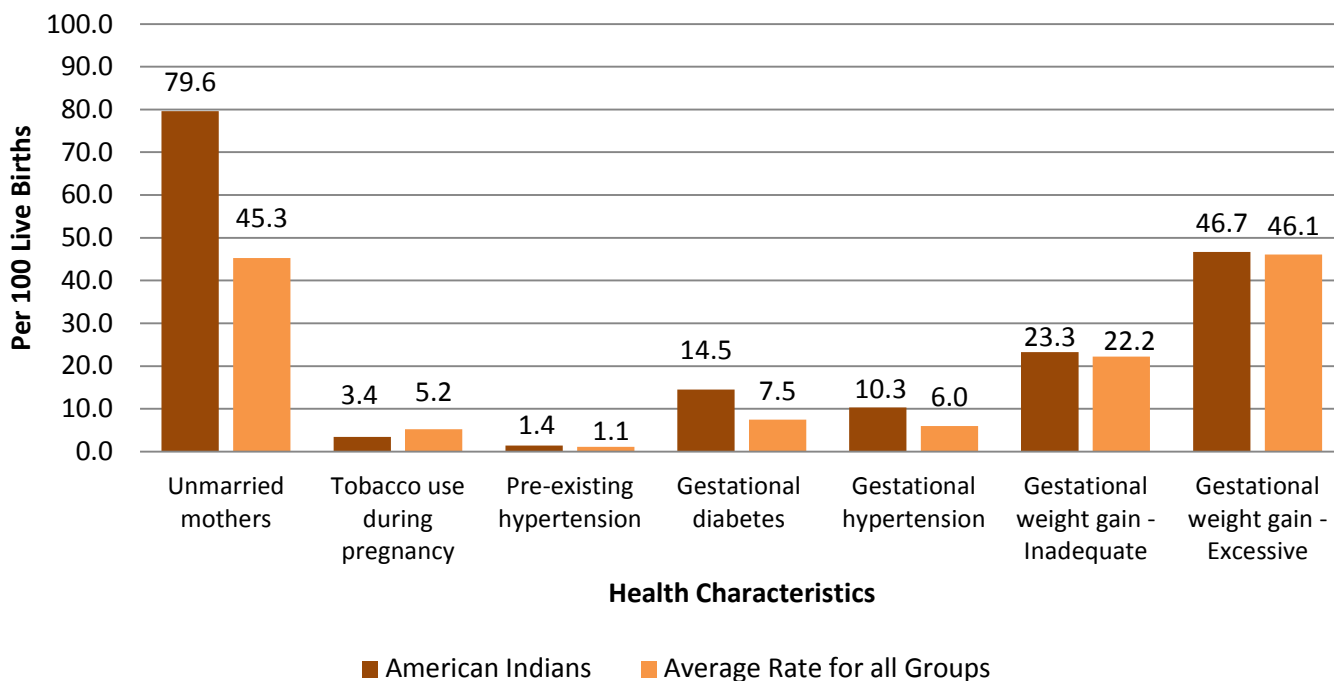


Figure 7. Utilization of Prenatal Care Services among American Indians Compared to all Groups in Arizona, 2015

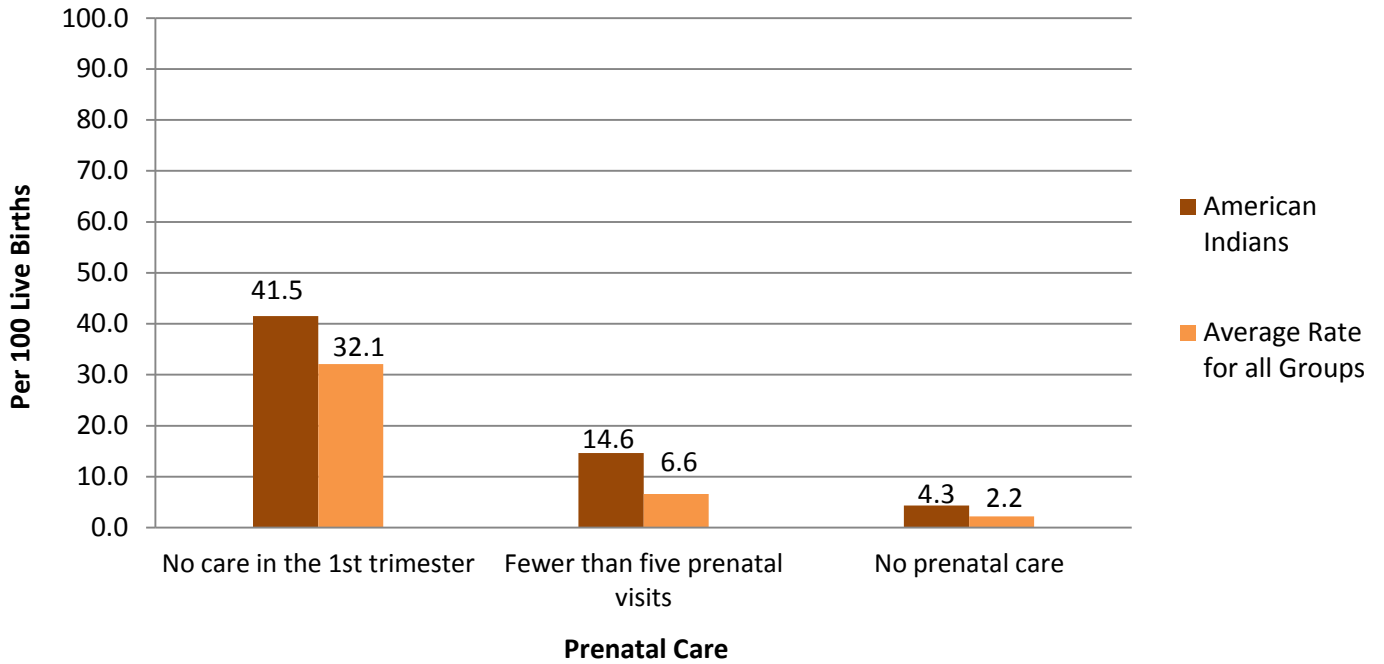


Figure 8. Newborn's Birth Characteristics among American Indians Compared to all Groups in Arizona, 2015

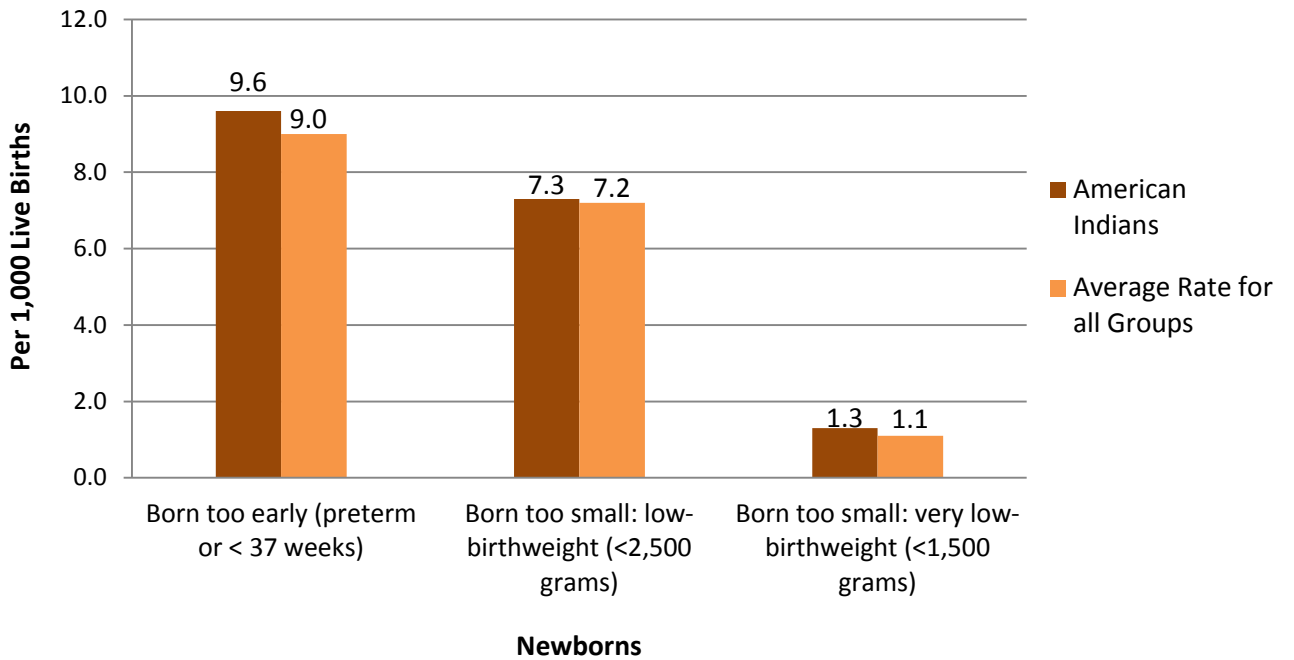


Figure 9. Newborn’s Health among American Indians Compared to all Groups in Arizona, 2015

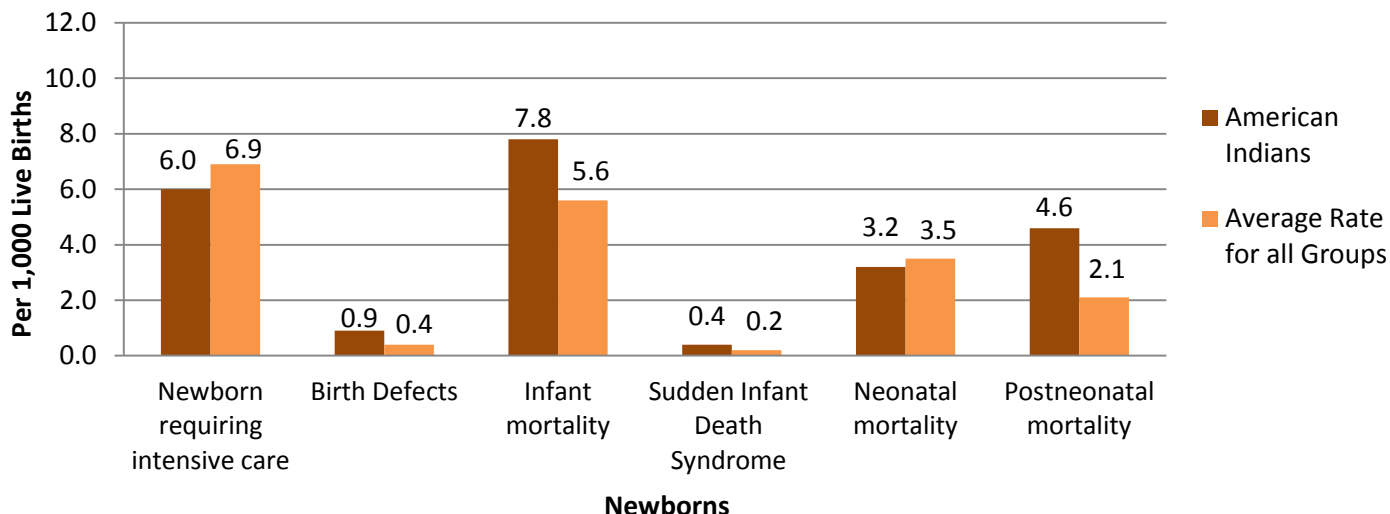


Figure 10. Age-Adjusted Mortality Rate from Heart Disease and Stroke Related Causes among American Indians Compared to all Groups in Arizona, 2015

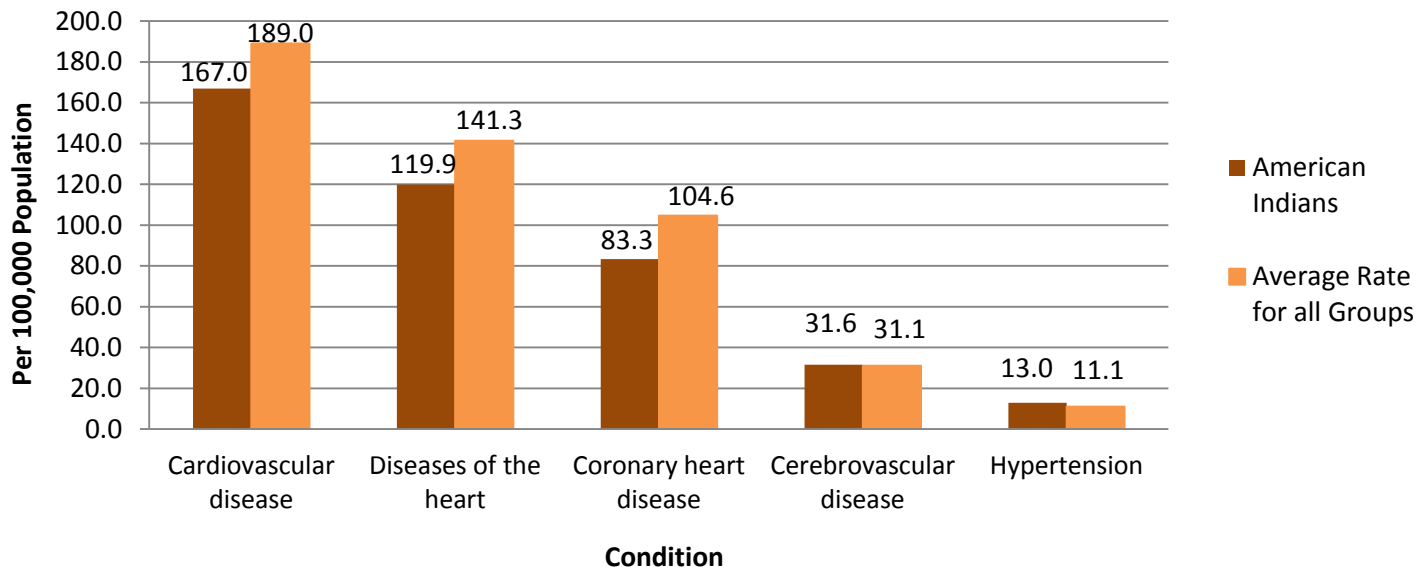


Figure 11. Age-Adjusted Mortality Rate from Cancer Related Causes among American Indians Compared to all Groups in Arizona, 2015

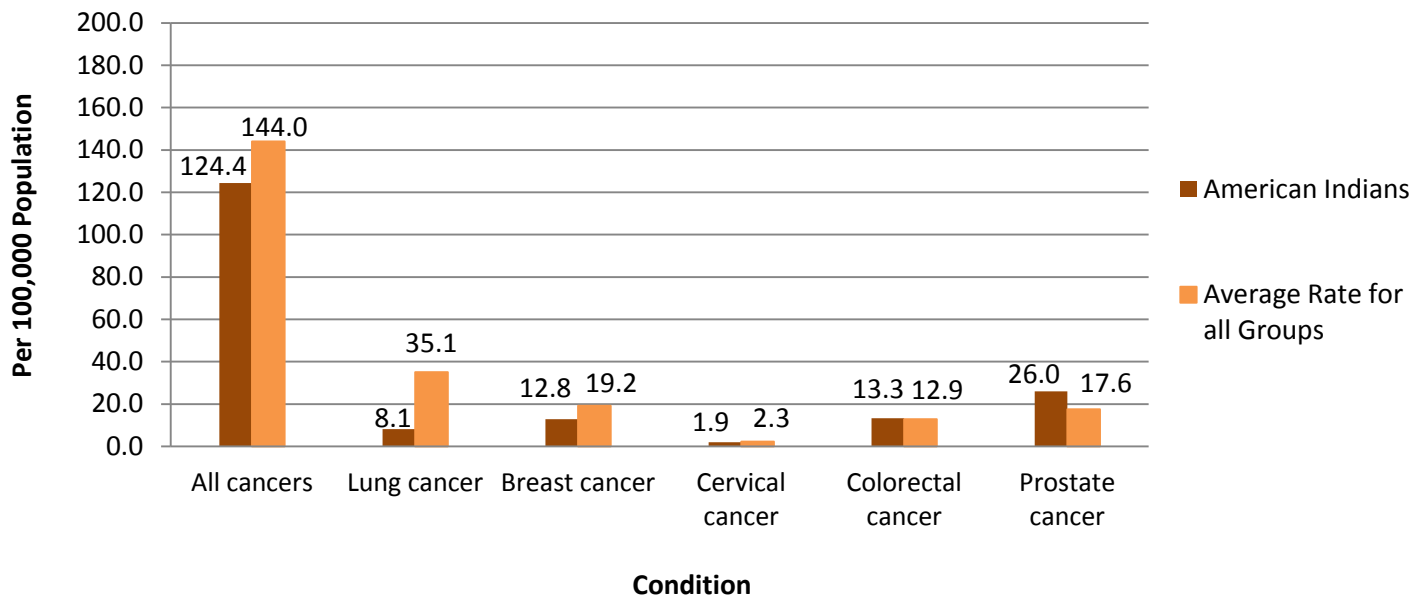


Figure 12. Age-Adjusted Mortality Rate from Other Chronic and Infectious Related Causes among American Indians Compared to all Groups in Arizona, 2015

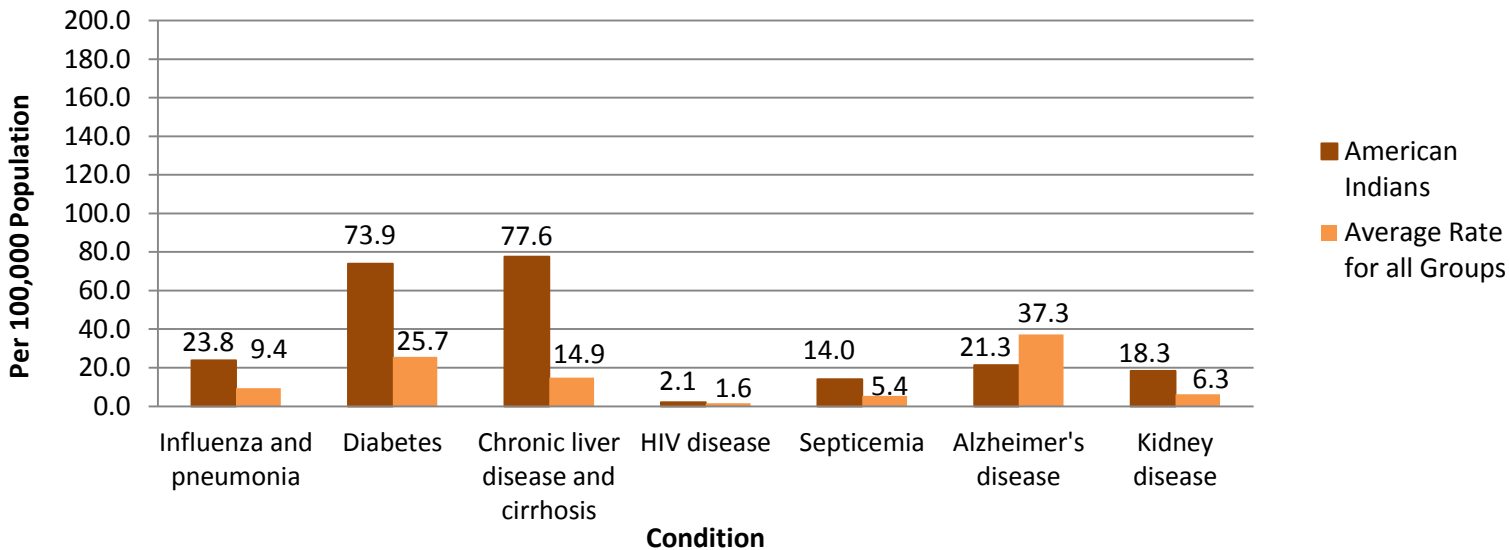


Figure 13. Age-Adjusted Mortality Rate from Injury Related Causes among American Indians Compared to all Groups in Arizona, 2015

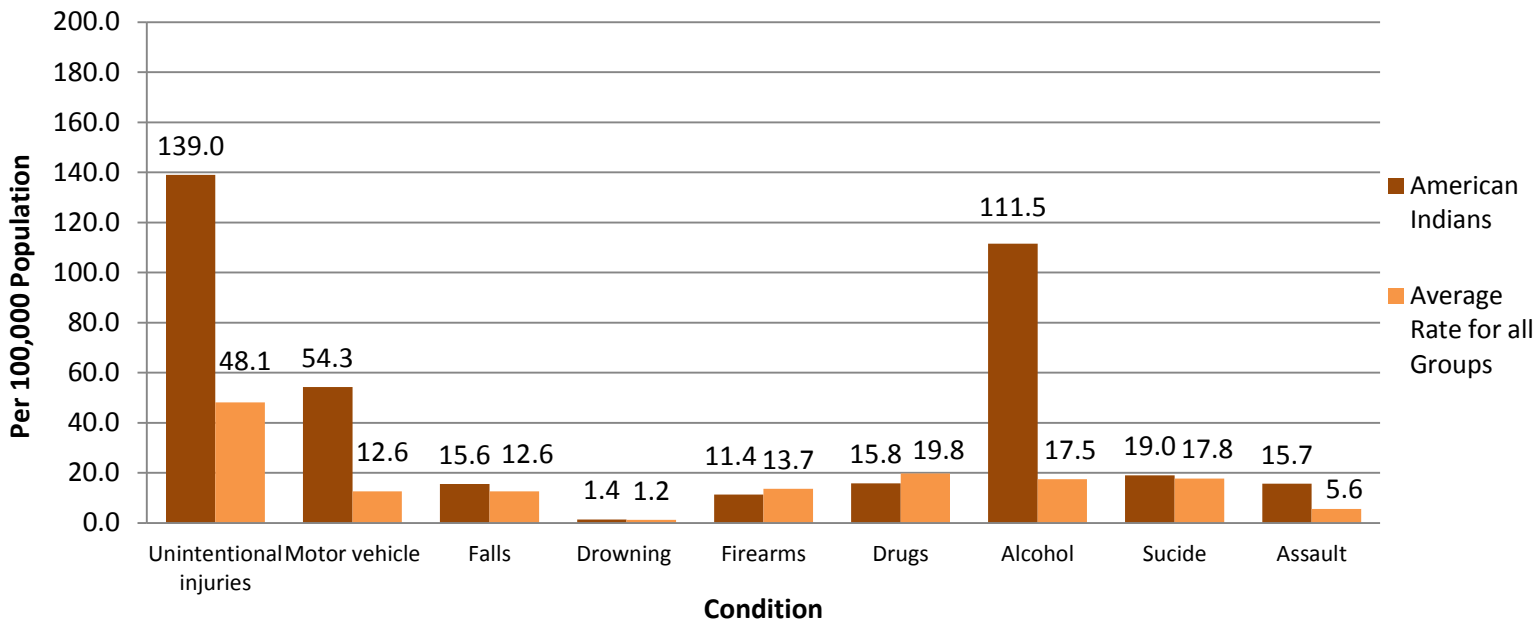


Figure 14. Premature Age-Adjusted Mortality Rate among American Indians Compared to all Groups in Arizona, 2015

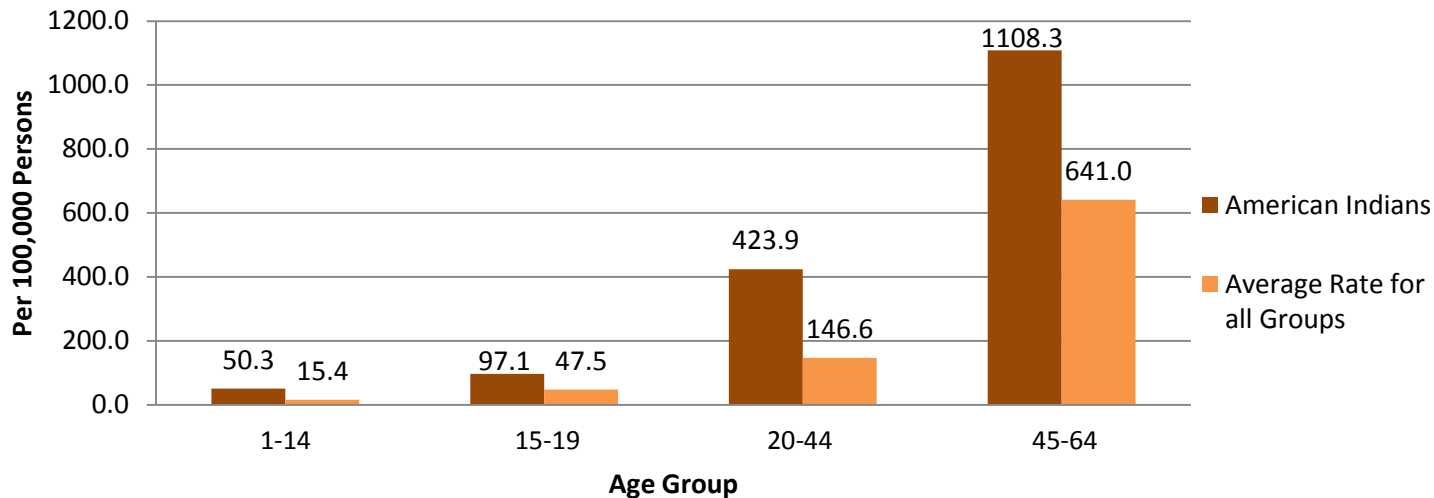


Figure 15. Age-Adjusted Median Age Mortality Rate From all Causes among American Indians Compared to all Groups in Arizona, 2015

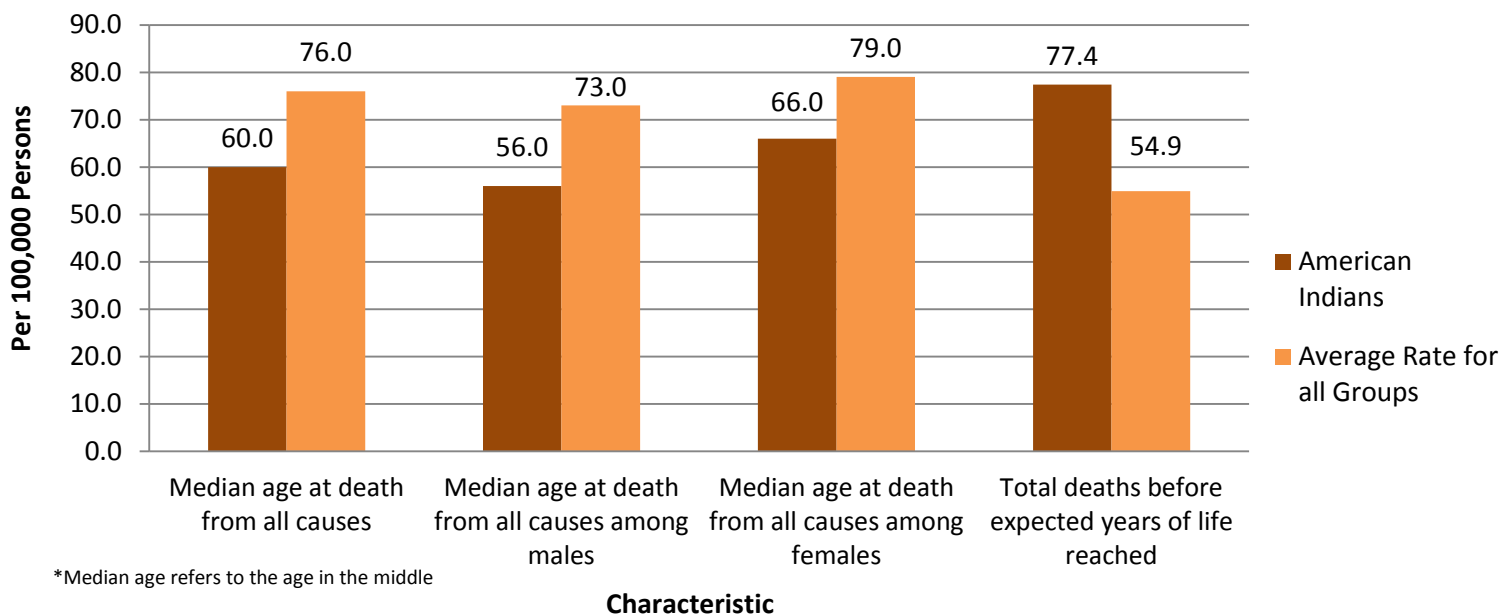


Figure 16. Sexually Transmitted Diseases and HIV/AIDS Rate among American Indians Compared to all Groups in Arizona, 2015

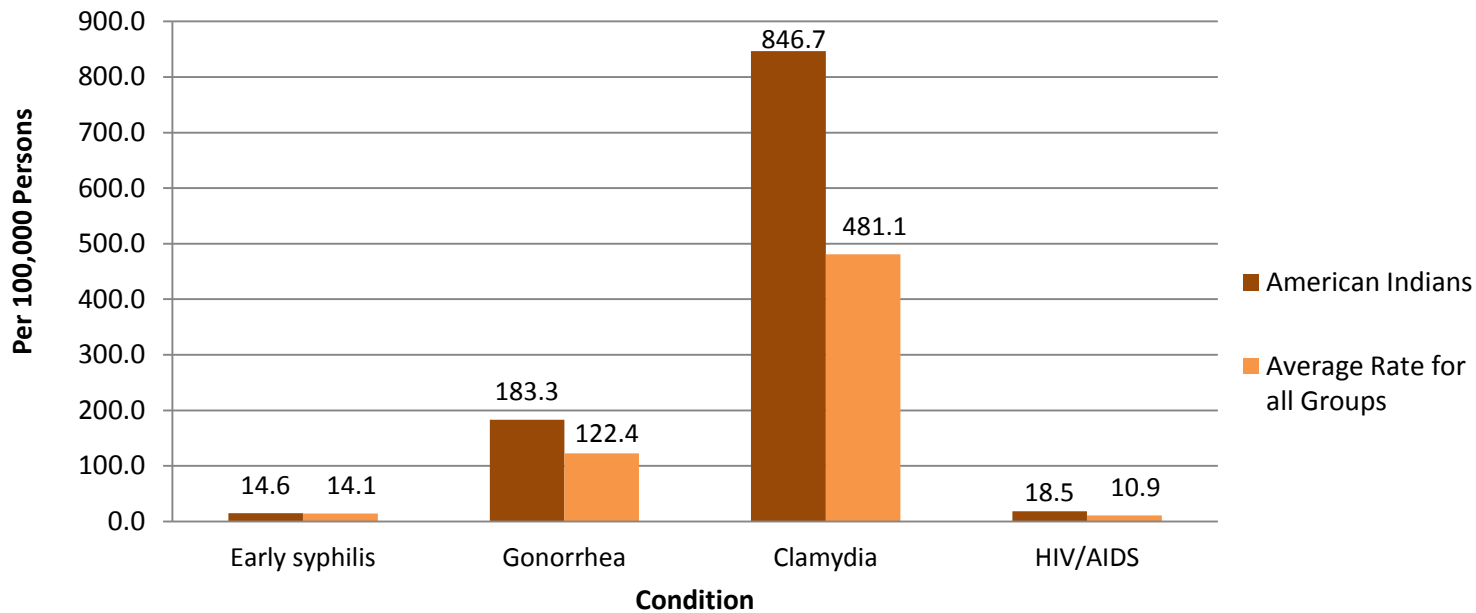


Figure 17. Percentage of American Indian Women Giving Birth Who Received Prenatal Care (2005-2015)

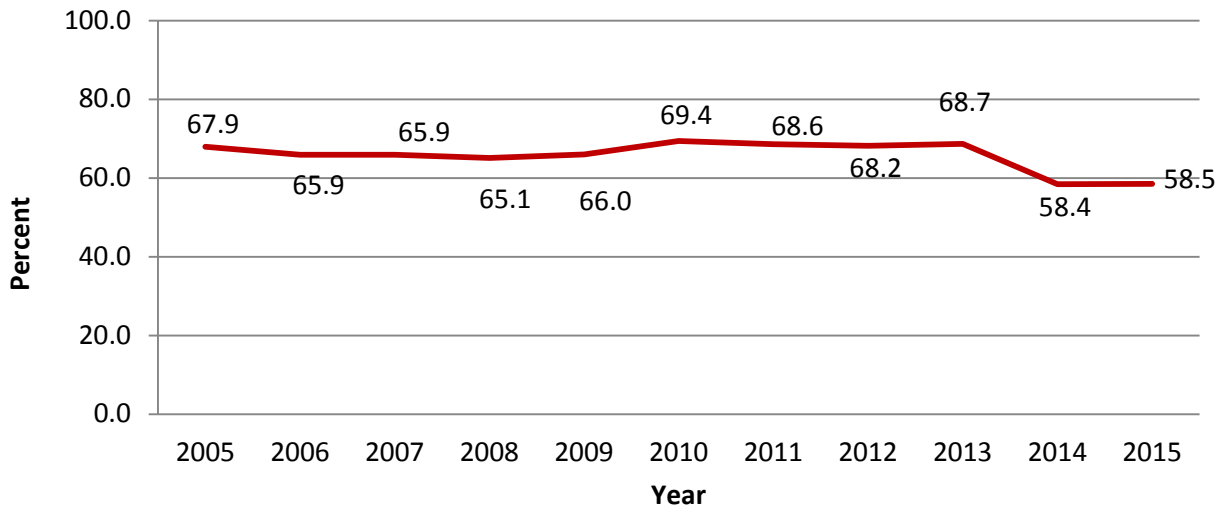


Figure 18. Infant Death Rates among American Indians (2005-2015)

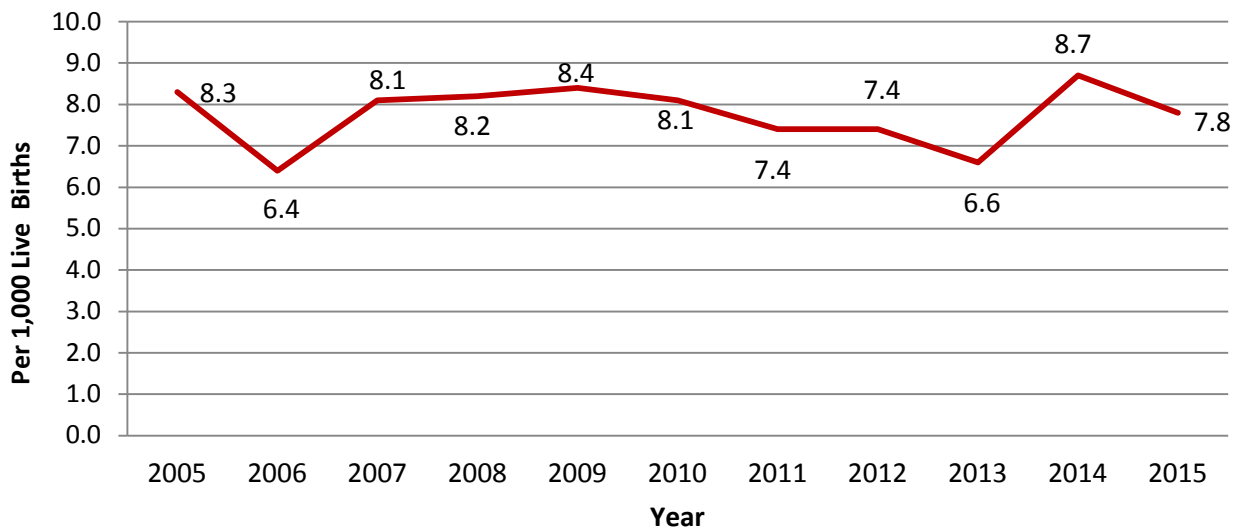


Figure 19. Postneonatal Death Rates among American Indians (2005-2015)

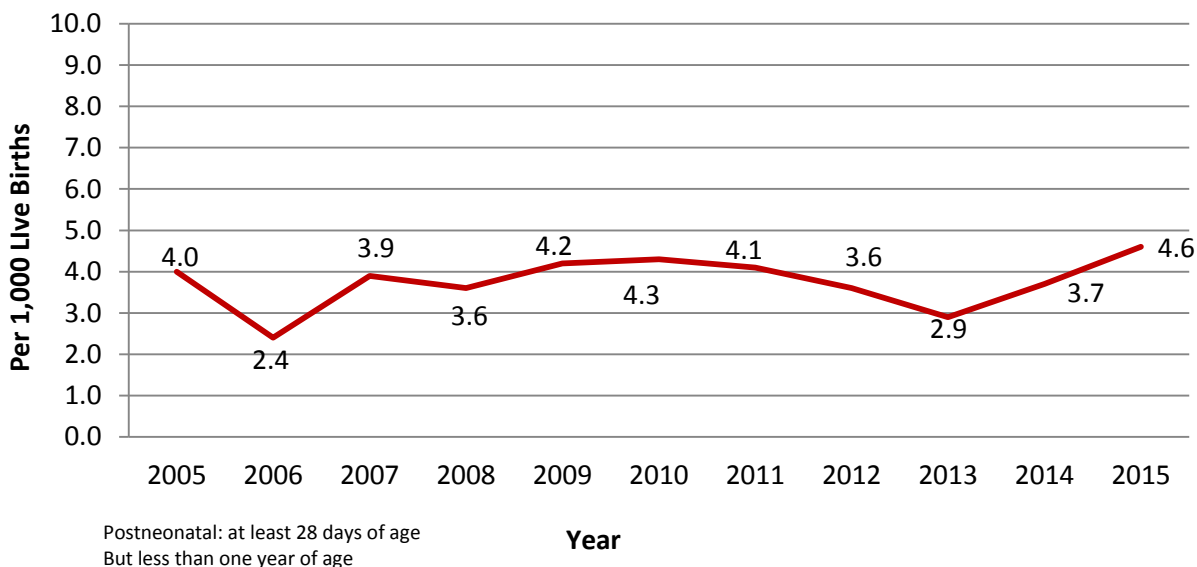


Figure 20. Age-Adjusted Mortality Rate due to Unintentional Injuries among American Indians (2005-2015)

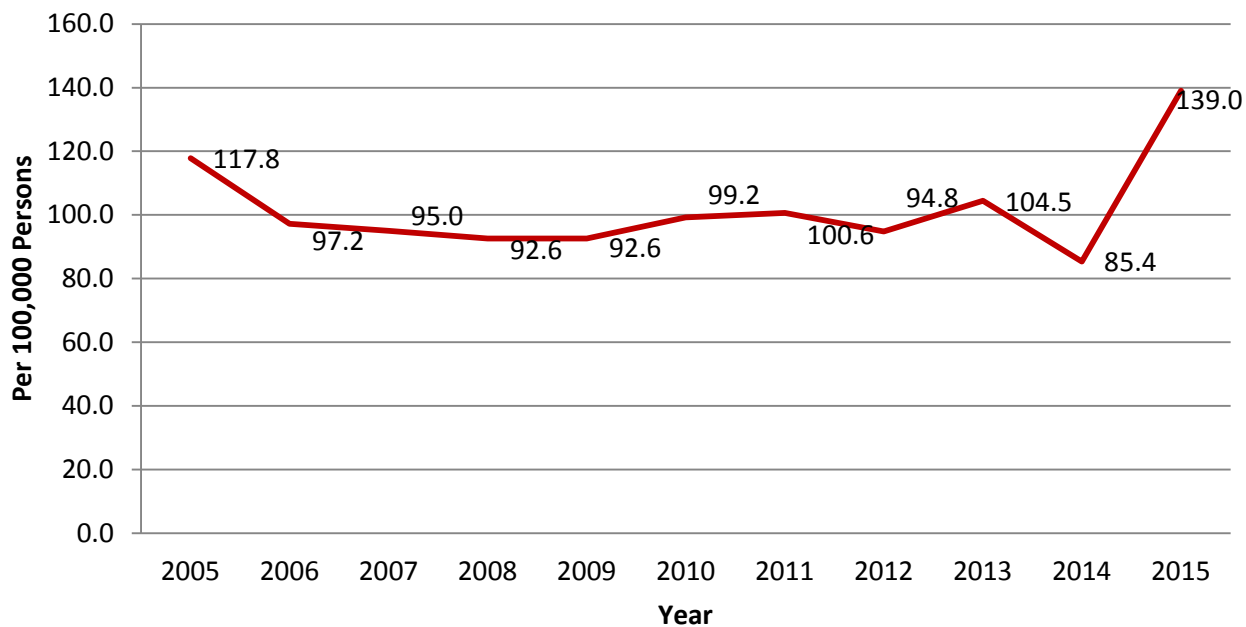


Figure 21. Age-Adjusted Mortality Rate due to Motor Vehicle Crashes among American Indians (2005-2015)

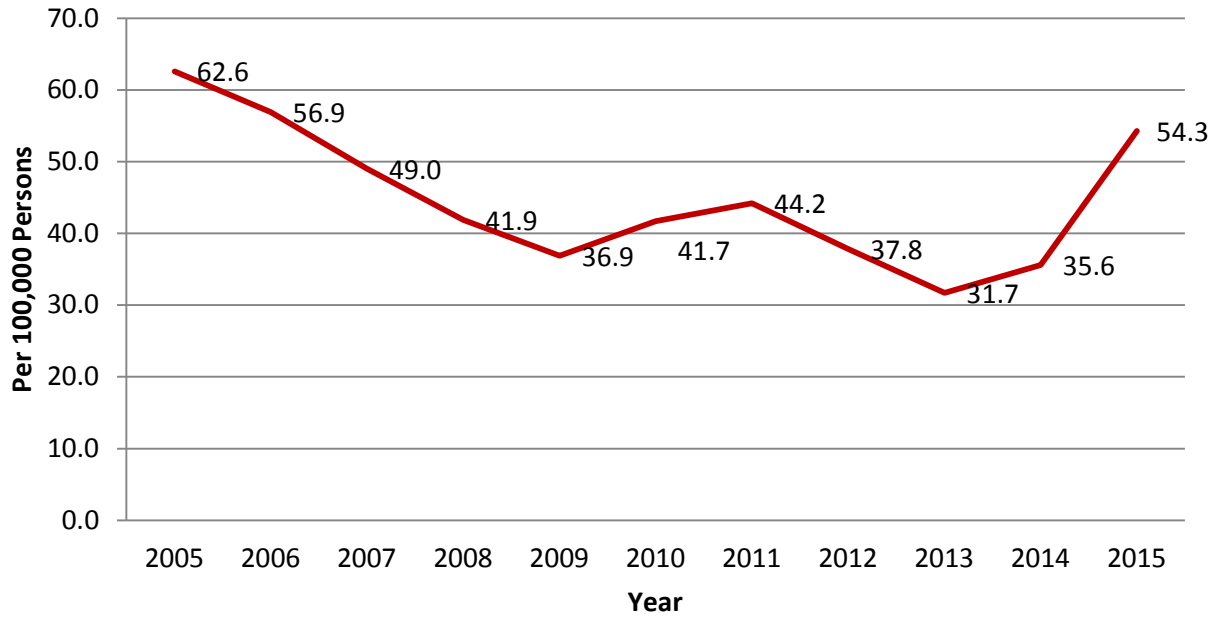


Figure 22. Age-Adjusted Mortality Rate due to Suicides among American Indians (2005-2015)

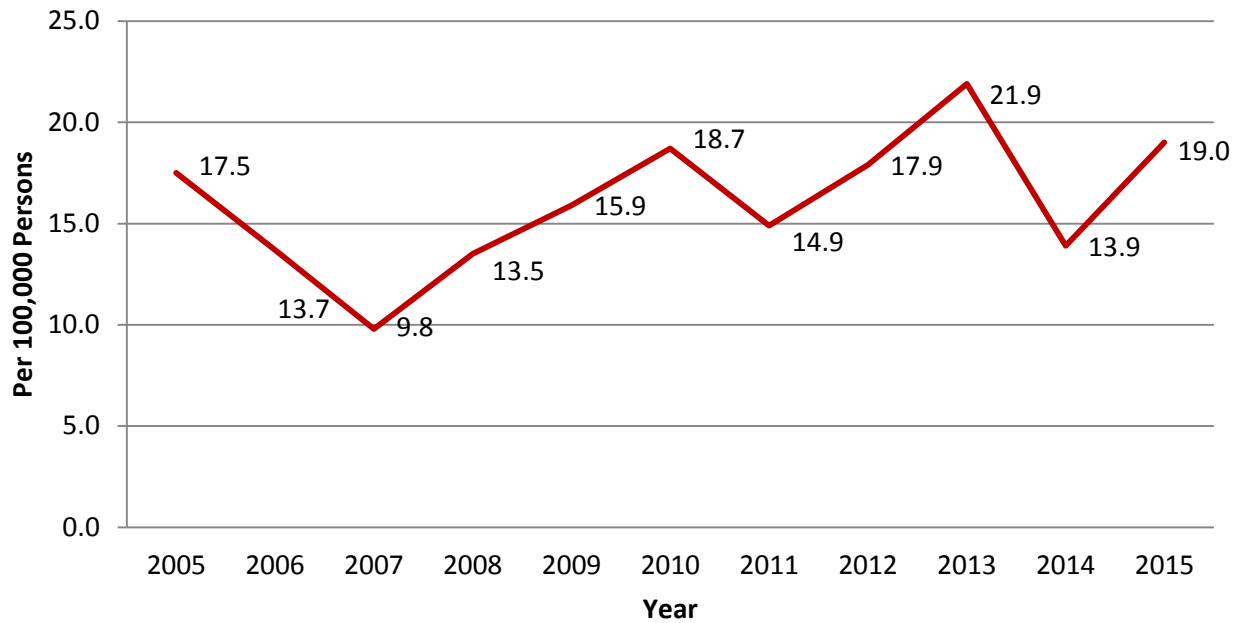


Figure 23. Age-Adjusted Mortality Rate due to Homicides among American Indians (2005-2015)

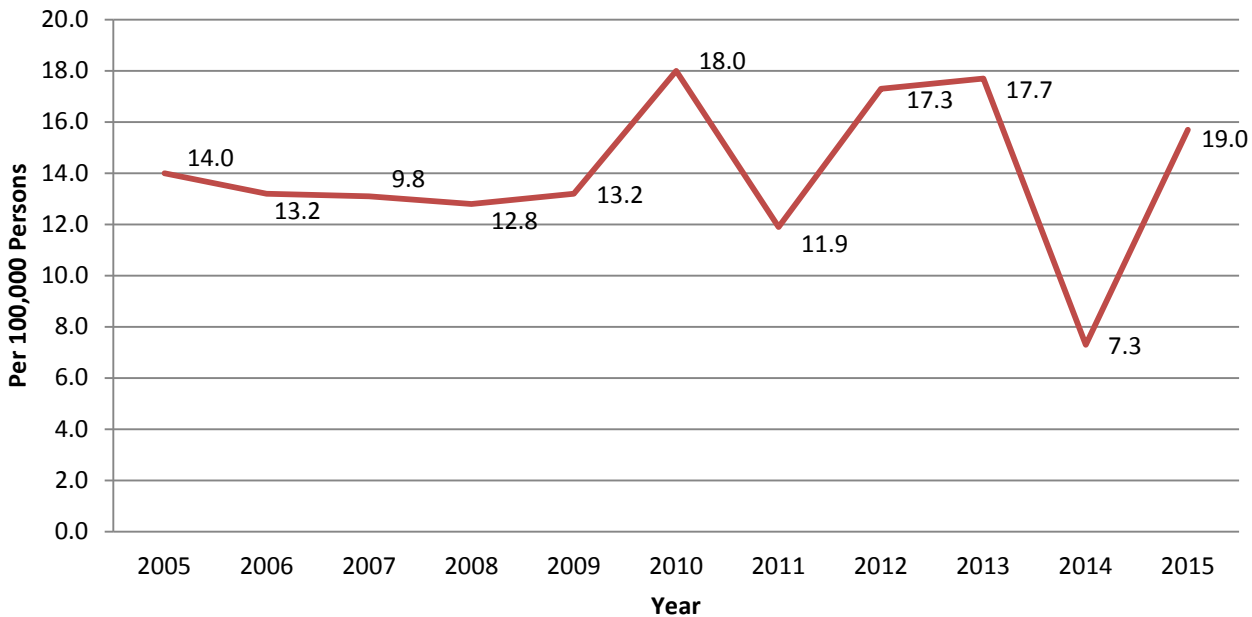
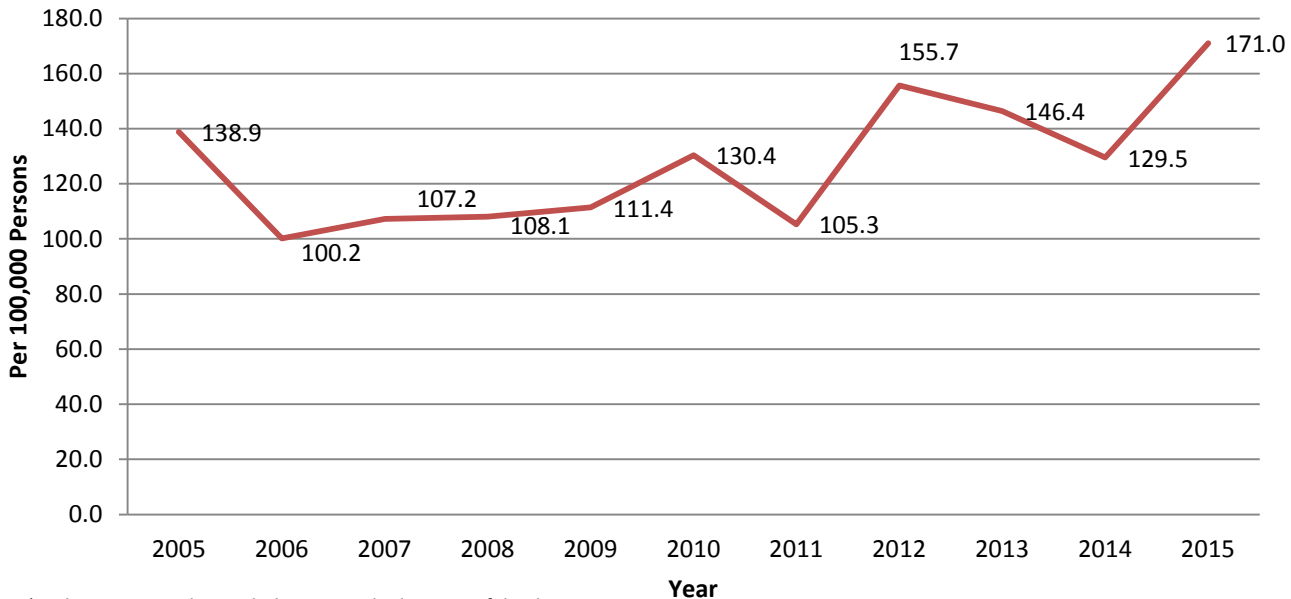


Figure 24. Age-Adjusted Mortality Rates due to Diabetes among American Indians (2005-2015)



*Diabetes reported as underlying or multiple cause of death

Figure 25. Age-Adjusted Mortality Rate due to Chronic Liver Disease or Cirrhosis among American Indians (2005-2015)

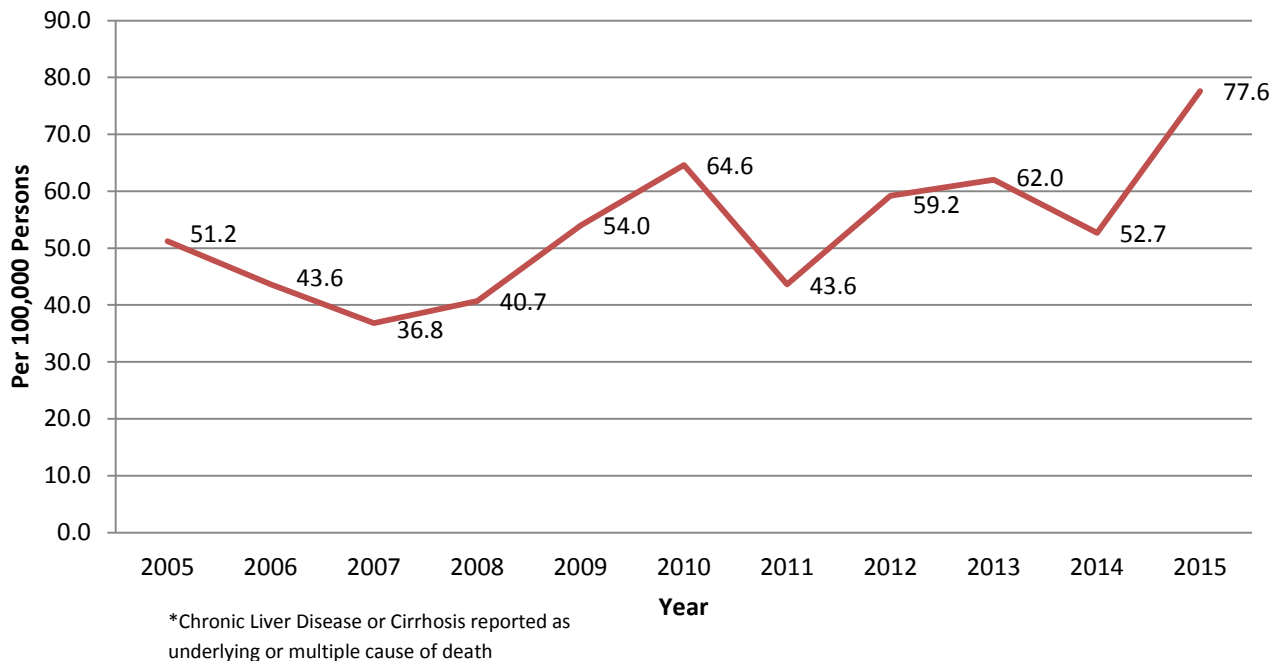


Figure 26. Age-Adjusted Morality Rate due to Cancer of the Uterine Cervix among American Indians (2005-2015)

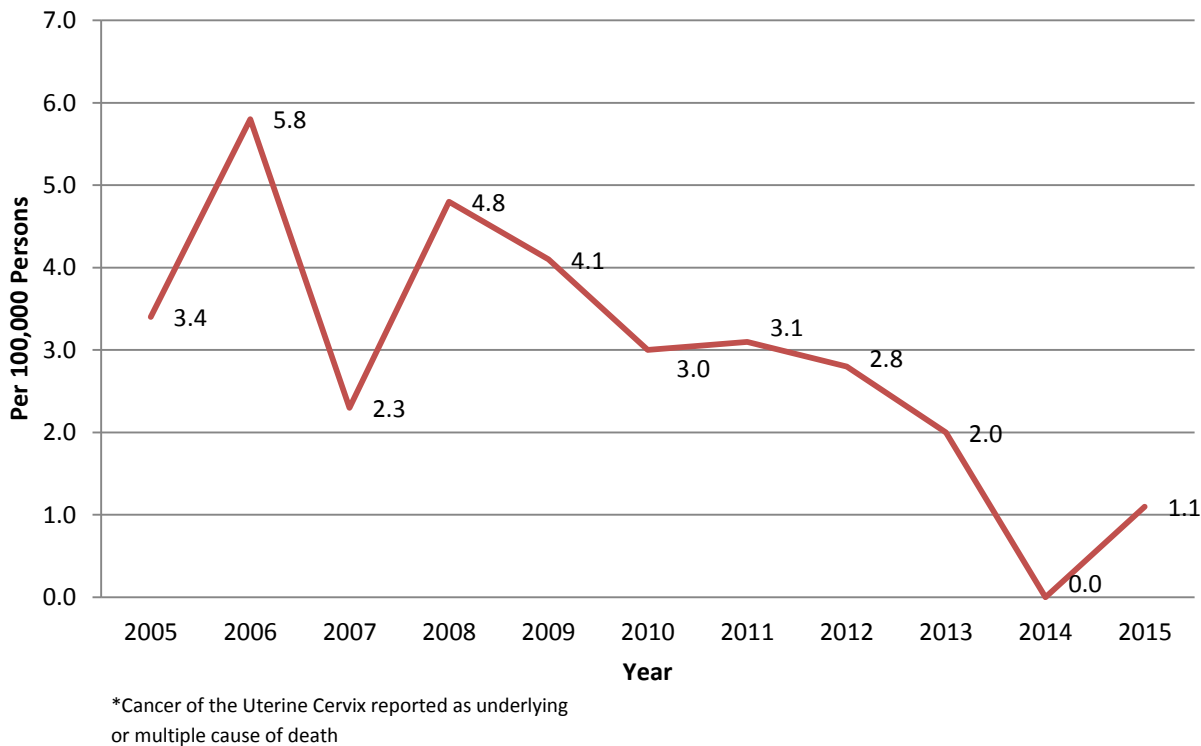


Figure 27. Median Age at Death from all Causes among American Indians Compared to the Rest of Arizona (2005-2015)

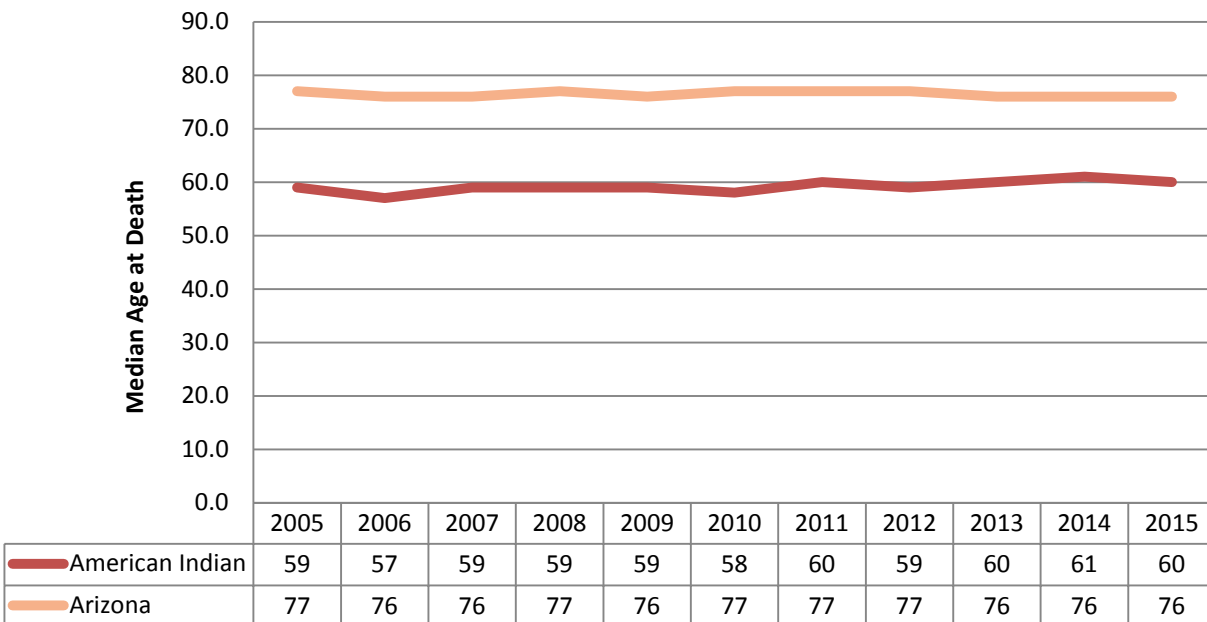


Figure 28. Birth Rates to Unmarried Mothers among American Indians Compared to the rest of Arizona (2005-2015)

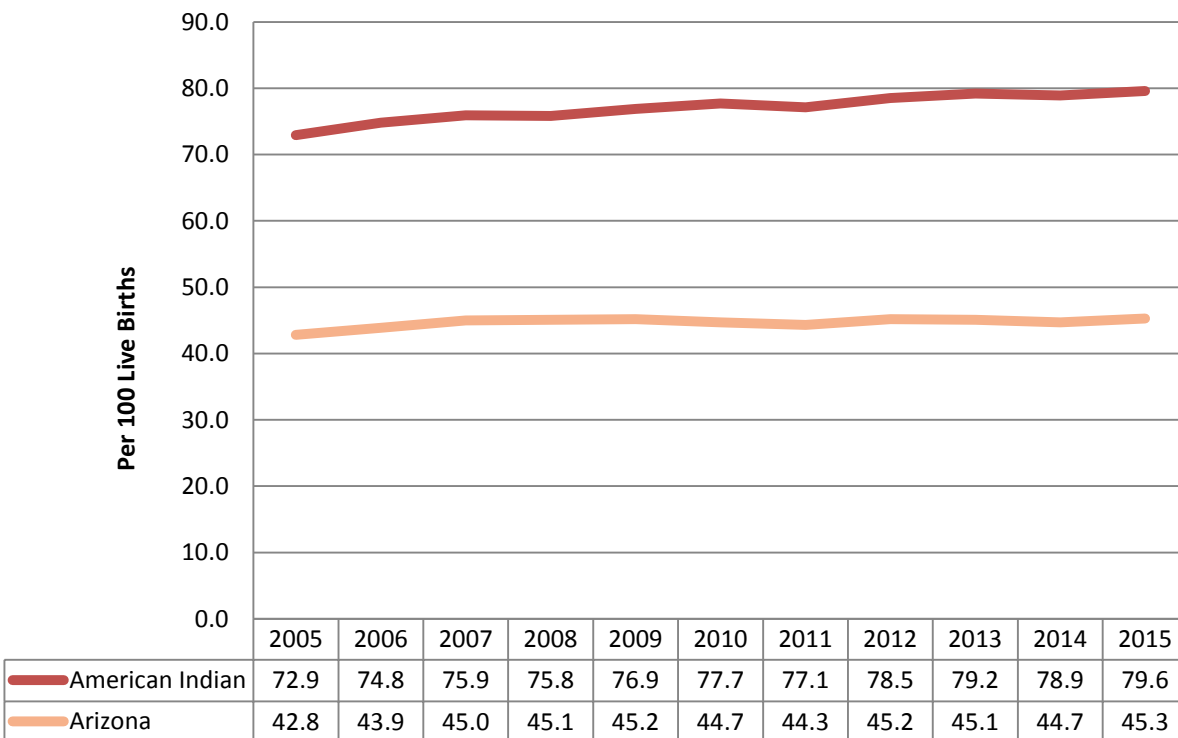


Figure 29. Incidence of Gonorrhea among American Indians Compared to the rest of Arizona (2005-2015)

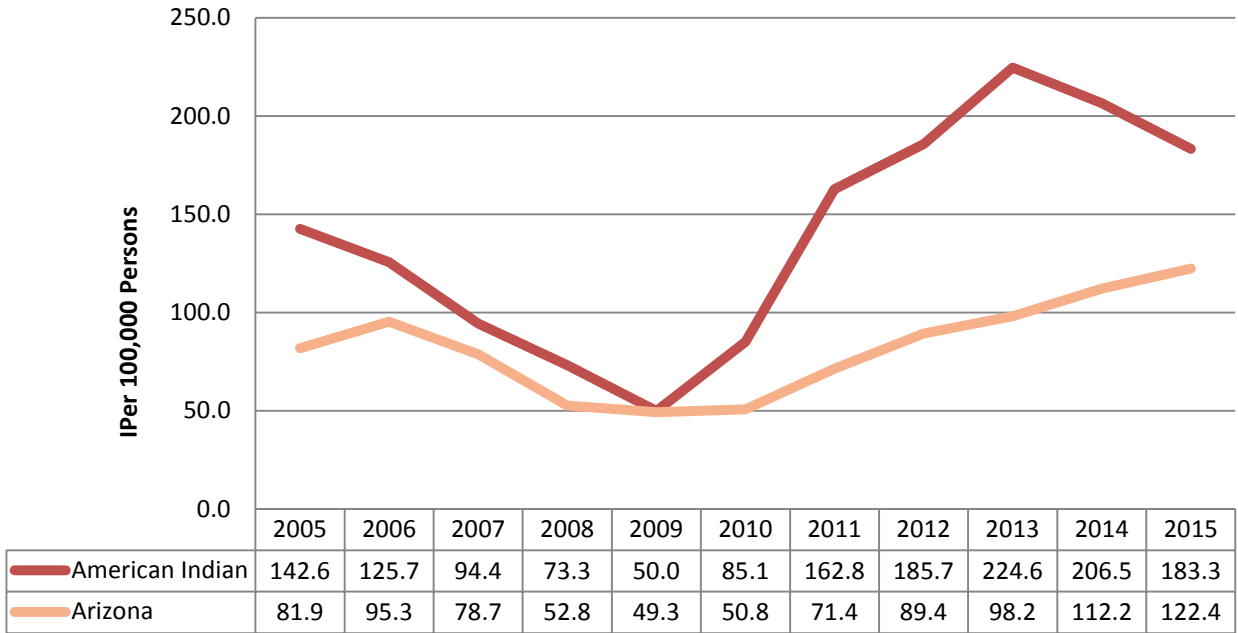


Figure 30. Low-Birthweight Rate among American Indians Compared to the rest of Arizona (2005-2015)

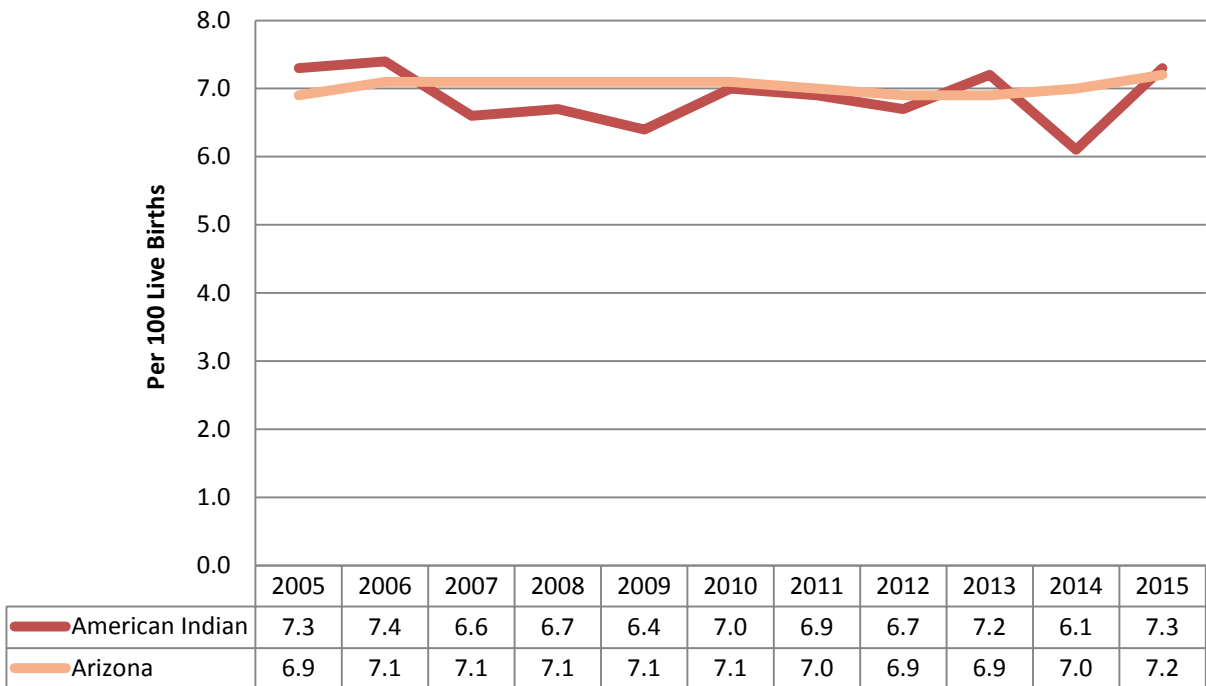


Figure 31. Births Rate to Teenage Mothers among American Indians Compared to the Rest of Arizona (2005-2015)

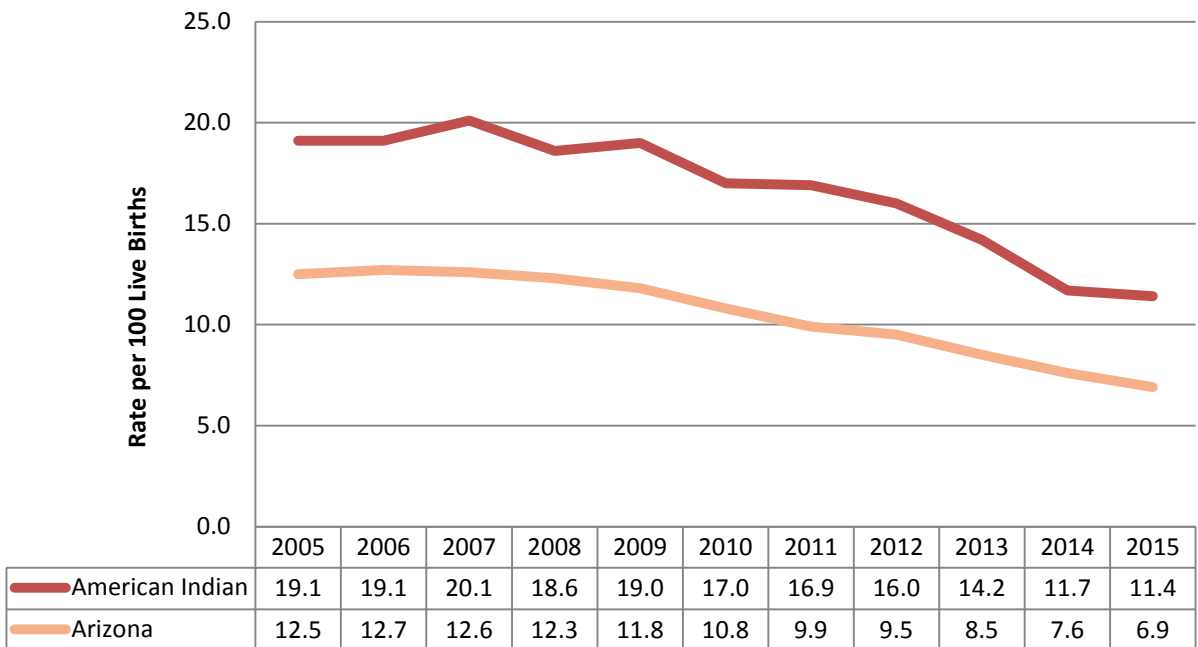


Figure 32. Congenital Anomalies (Birth Defects) Rate among American Indians Compared to all of Arizona (2005-2015)

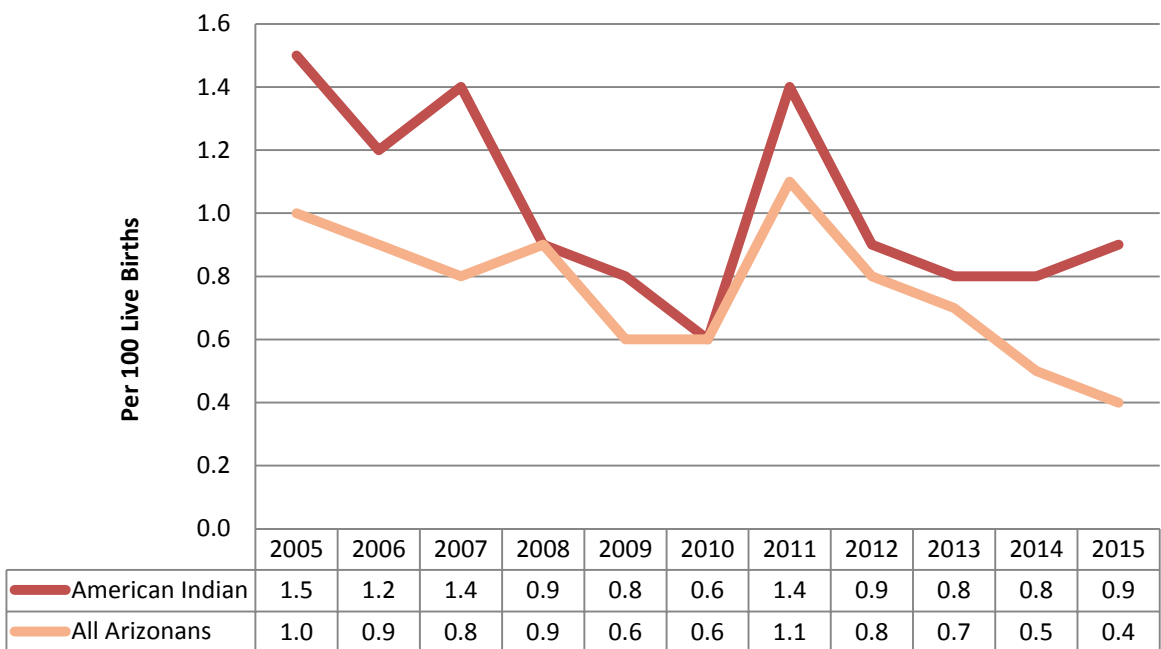


Figure 33. Gestational Hypertension Rate among American Indians Compared to the Rest of Arizona (2005-2015)

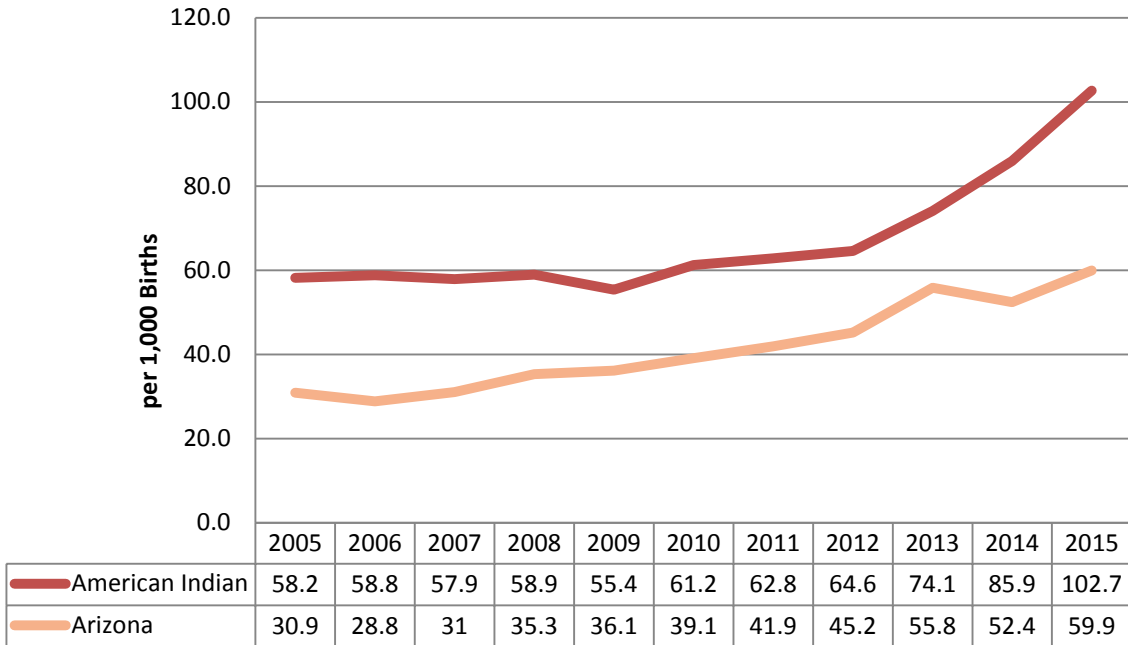


Figure 34. Gestational Diabetes Rate among American Indians Compared to the Rest of Arizona (2005-2015)

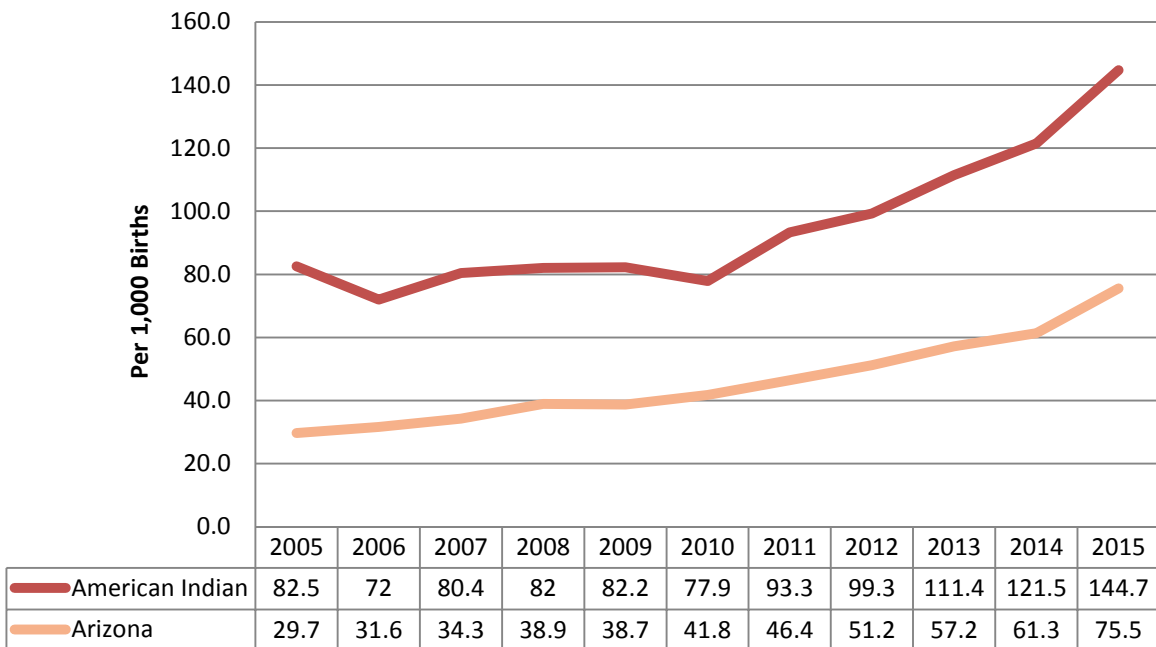
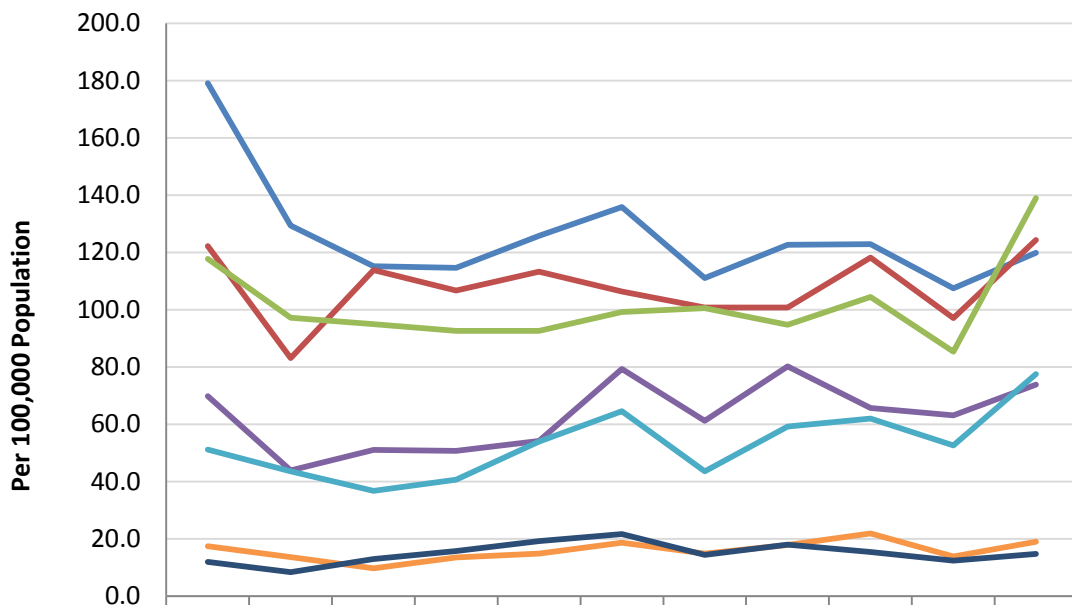


Figure 35. Age-Adjusted Mortality Rate for Selected Causes of Death among American Indians (2005-2015)



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Heart Disease	179.1	129.4	115.2	114.6	125.8	135.9	111.1	122.7	122.9	107.5	119.9
Cancer	122.2	83.1	113.9	106.7	113.3	106.4	100.8	100.8	118.2	97.1	124.4
Accidents (Unintentional Injury)	117.8	97.2	95.0	92.6	92.6	99.2	100.6	94.8	104.5	85.4	139.0
Diabetes	69.9	43.9	51.1	50.8	54.2	79.3	61.3	80.2	65.7	63.2	73.9
Chronic Liver Disease	51.2	43.6	36.8	40.7	54.0	64.6	43.6	59.2	62.0	52.7	77.6
Suicide	17.5	13.7	9.8	13.5	14.9	18.7	14.9	17.9	21.9	13.9	19.0
Chronic Lower Respiratory Disease	12.0	8.4	13.0	15.8	19.2	21.7	14.4	18.0	15.5	12.4	14.8

Leading Causes of Death

Table 1. Five Leading Causes of Death by Gender among American Indians (2015)

Rank	Female	Male	Both
1	Cancer 112.4	Accidents (unintentional injury) 203.9	Accidents (unintentional injury) 139.0
2	Diseases of heart 89.1	Diseases of heart 158.9	Cancer 124.4
3	Accidents (unintentional injury) 82.7	Cancer 142.1	Diseases of heart 119.9
4	Chronic liver disease and cirrhosis 66.1	Chronic liver disease and cirrhosis 91.8	Chronic liver disease and cirrhosis 77.6
5	Diabetes 65.3	Diabetes 85.6	Diabetes 73.9

Notes: * Based on age-adjusted mortality rates: Number of deaths per 100,000 population, age-adjusted to the 2000 U.S. standard.

Table 2. Five Leading Causes of Death among American Indians by Gender and Residence On or Off Reservation (2015)

Rank	Female, resided on reservation	Female, resided off reservation	Male, resided on reservation	Male, resided off reservation
1	Alzheimer's disease 12.7	Cancer 16.0	Accidents (unintentional injury) 20.4	Accidents (unintentional injury) 20.3
2	Cancer 12.2	Accidents (unintentional injury) 11.4	Diseases of heart 13.0	Cancer 11.6
3	Accidents (unintentional injury) 9.8	Diseases of heart 10.6	Cancer 9.9	Diseases of heart 10.7
4	Diabetes 5.8	Chronic liver disease and cirrhosis 7.9	Chronic liver disease and cirrhosis 9.2	Chronic liver disease and cirrhosis 8.7
5	Chronic lower respiratory diseases 2.1	Diabetes 7.3	Diabetes 7.4	Diabetes 6.8

Note: * Percent of total deaths in specified group

Table 3. Mortality Percent by Type of Cancer and Gender among American Indians Compared to the rest of Arizona (2005-2015)

Rank	Arizona male ^b	American Indian male	Arizona female ^b	American Indian female
1	Trachea, bronchus, lung 26.3	Liver 12.1	Trachea, bronchus, lung 25.0	Breast 12.2
2	Lymphoma 10.8	Prostate 11.3	Breast 15.3	Lymphoma 11.0
3	Prostate 10.1	Lymphoma 10.0	Lymphoma 9.2	Colon, rectum, anus 8.1
4	Colon, rectum, anus 9.0	Colon, rectum, anus 9.4	Colon, rectum, anus 9.1	Ovary 7.8
5	Pancreas 6.6	Trachea, bronchus, lung 8.1	Pancreas 6.8	Trachea, bronchus, lung 7.7
6	Liver 4.8	Kidney 7.8	Ovary 5.8	Liver 7.6

Notes: a. Percent of cancer deaths in specified group in 2005-2015
b. All race/ethnic groups combined

Table 4. Mortality Percent by Mechanism of Unintentional Injury and Gender among American Indians Compared to the rest of Arizona (2005-2015)

Rank	Arizona male ^b	American Indian male	Arizona female ^b	American Indian female
1	Motor vehicle accidents 32.8	Motor vehicle-related 46.8	Falls 36.6	Motor vehicle-related 53.6
2	Poisoning by drugs 25.5	Poisoning by gases 12.8	Poisoning by drugs 24.5	Falls 12.7
3	Falls 19.8	Poisoning by drugs 9.9	Motor vehicle-related 22.9	Poisoning by drugs 11.4
4	Accidental discharge of firearms 7.4	Falls 6.8	Accidental discharge of firearms 2.4	Poisoning by gases 6.6
5	Accidental drowning 3.3	Exposure to cold 5.0	Choked on other objects 2.0	Exposure to cold 2.2
6	Poisoning by gases 3.1	Accidental drowning 3.1	Accidental drowning 1.9	Choked on other objects 1.5

Notes: a. Percent of unintentional injury deaths in specified group in 2005-2015
b. All race/ethnic groups combined