

Mortality Rates by Region

Main Findings

- The Aleutian & Pribilof service region had no significant differences in mortality rates as compared to the rest of the state.
- The Anchorage-MatSu service region had significantly higher mortality rates for all-causes, alcohol abuse, Alzheimer's disease, and chronic liver disease as compared to the rest of the state.
- The Arctic Slope service region had significantly higher mortality rates for cancer than the rest of the state, and significantly lower unintentional injury mortality rates as compared to the rest of the state.
- The Bristol Bay service region had significantly lower all-cause and suicide mortality rates as compared to the rest of the state.
- The Copper River/Prince William Sound service region had no significant differences in mortality rates as compared to the rest of the state.
- The Interior service region had significantly higher mortality rates for homicide than the rest of the state, and significantly lower all-cause, cerebrovascular disease, influenza and pneumonia mortality rates as compared to the rest of the state.
- The Kenai Peninsula service region had significantly lower all-cause and unintentional injury mortality rates as compared to the rest of the state.
- The Kodiak service region had significantly higher mortality rates for diabetes mellitus as compared to the rest of the state.
- The Northwest Arctic service region had significantly higher mortality rates for perinatal conditions and suicide as compared to the rest of the state.
- The Norton Sound service region had significantly higher mortality rates for Alzheimer's disease and COPD as compared to the rest of the state.
- The Southeast service region had significantly lower all-cause, Alzheimer's disease, cancer, cerebrovascular disease, COPD, homicide, influenza and pneumonia, suicide, and unintentional injury mortality rates as compared to the rest of the state.
- The Yukon-Kuskokwim service region had significantly higher mortality rates for cerebrovascular disease, influenza and pneumonia, and suicide than the rest of the state, and significantly lower mortality rates for chronic liver disease, diabetes mellitus, and septicemia as compared to the rest of the state.

Overview

Alaska has been divided into twelve service regions for the purpose of reporting health data. In general, these regions match the larger Tribal Health Organization (THO) service areas. Smaller service areas required aggregation. The twelve service regions reported were:

- 1) Aleutians and Pribilofs
- 2) Anchorage-MatSu
- 3) Arctic Slope
- 4) Bristol Bay
- 5) Copper River/Prince William Sound (PWS)
- 6) Interior
- 7) Kenai Peninsula
- 8) Kodiak Area
- 9) Northwest Arctic
- 10) Norton Sound
- 11) Southeast
- 12) Yukon-Kuskokwim

Appendix D contains a full list of census areas and tribal health organizations in each region.

This chapter compares age-adjusted mortality rates of each service region for the five-year period, 2014-2018. Individual service regions are compared to other regions and the state overall. For the purpose of determining significant differences between the regions, individual service regions are compared to the remainder of the state combined. Significant differences are indicated by an asterisk.

The all-cause and specific leading causes of death are reported and compared if the count of deaths is greater than or equal to five. Not all cause-region combinations are reportable.

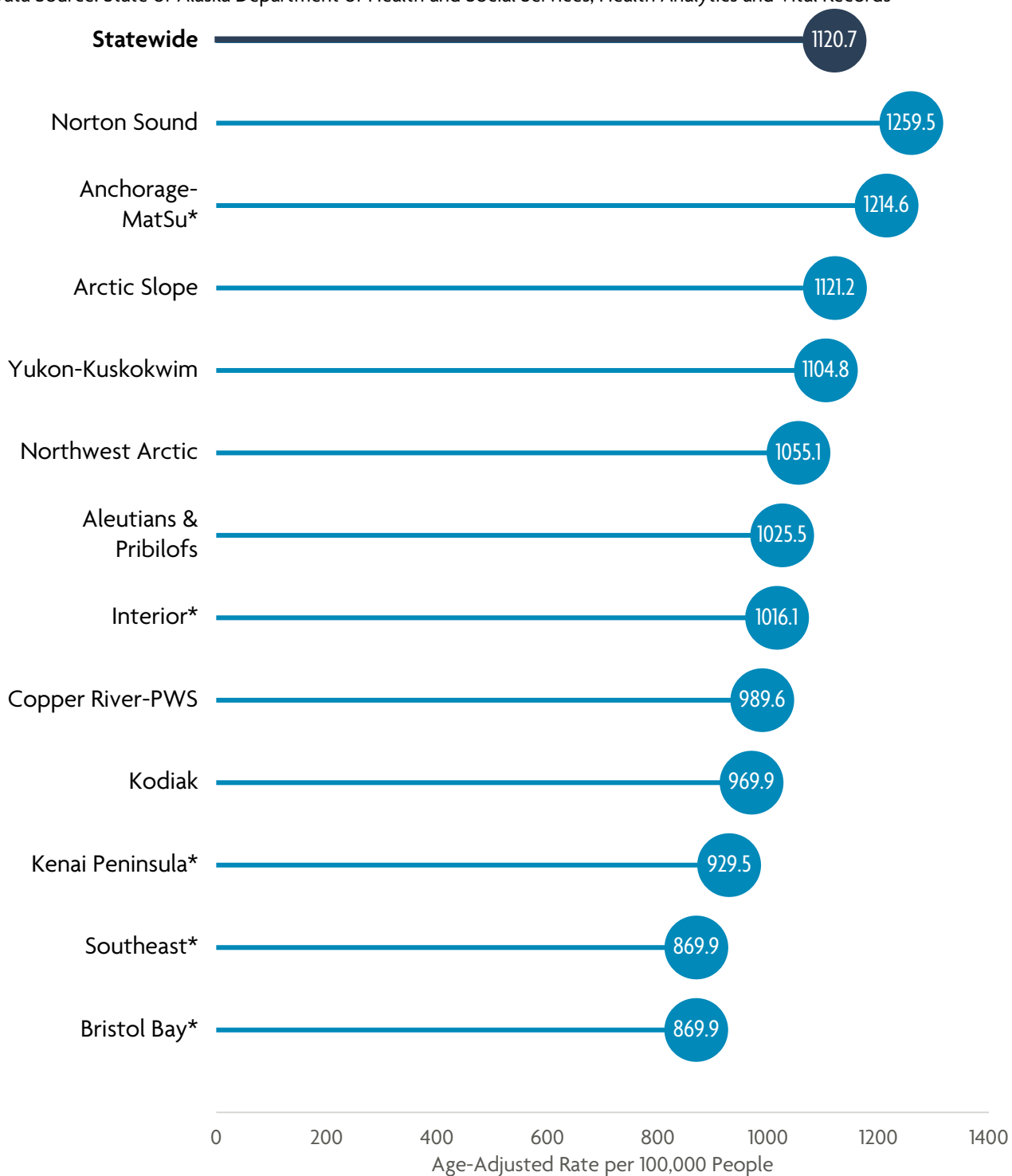
Figures 114a-132a compare each service region, both sexes combined, to other service regions and the state overall. Figures 114b-132b display this information for females, and Figures 114c-132c for males. Data for these figures are available in Tables 71a-82c located in Appendix B.

Tables 71a-82c in Appendix B also list the ten leading causes of death for each region in rank order and by gender. These tables also report the percentage of total deaths from each cause for each region.

MORTALITY RATES BY REGION

Figure 114a. All-Cause Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

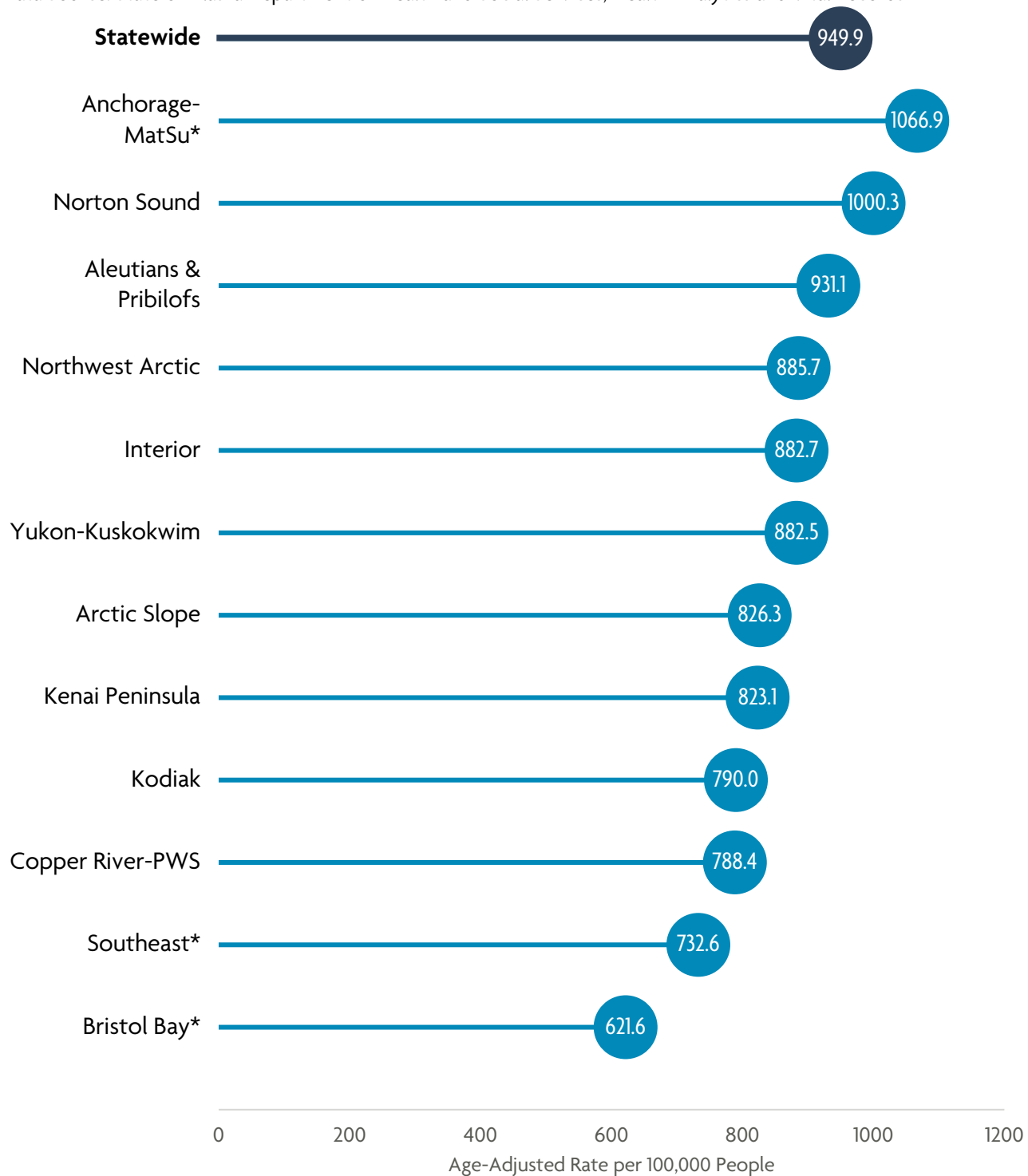


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 114b. All-Cause Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

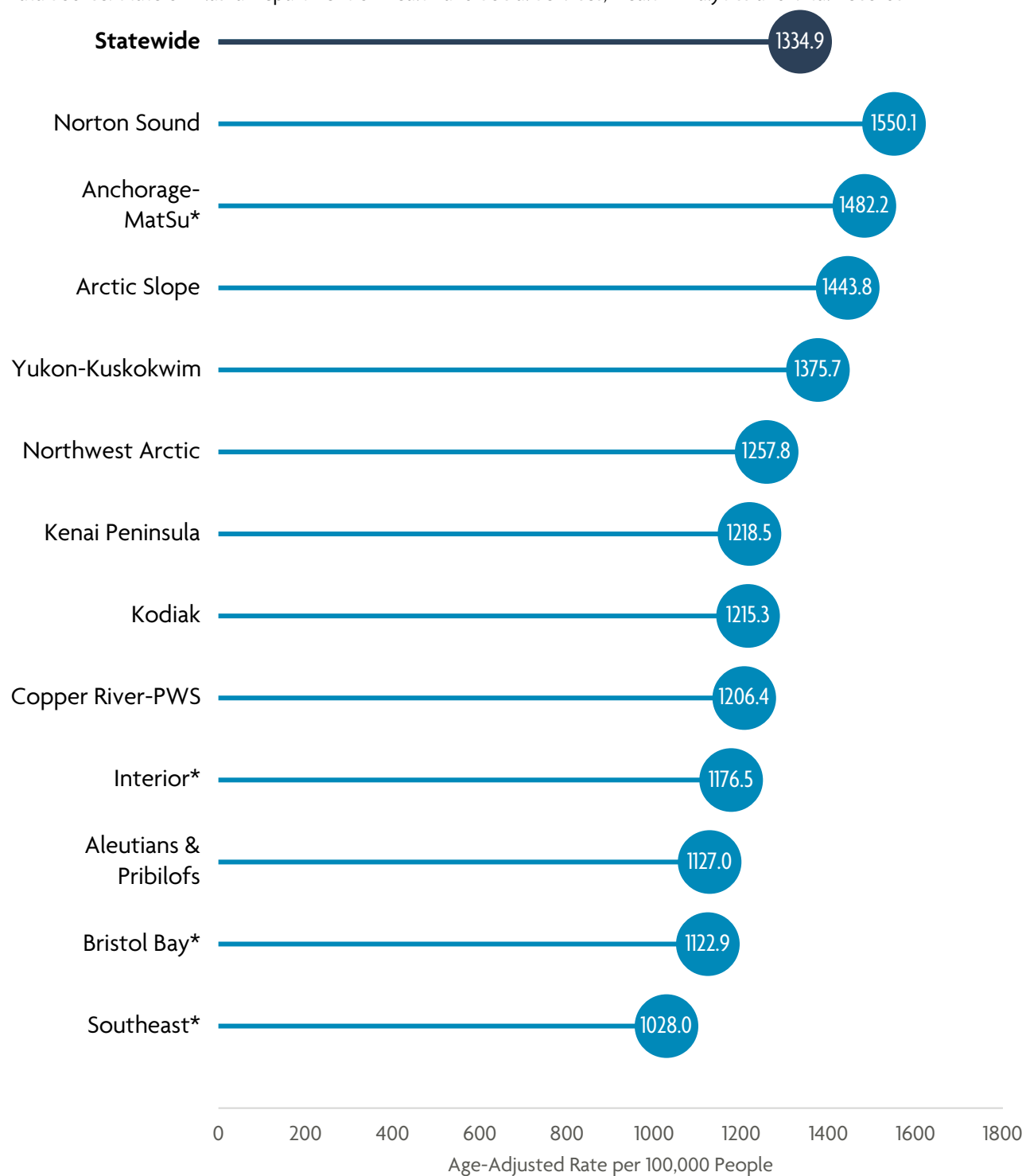


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 114c. All-Cause Mortality Rates by Region, Alaska Native Males, 2014-2018

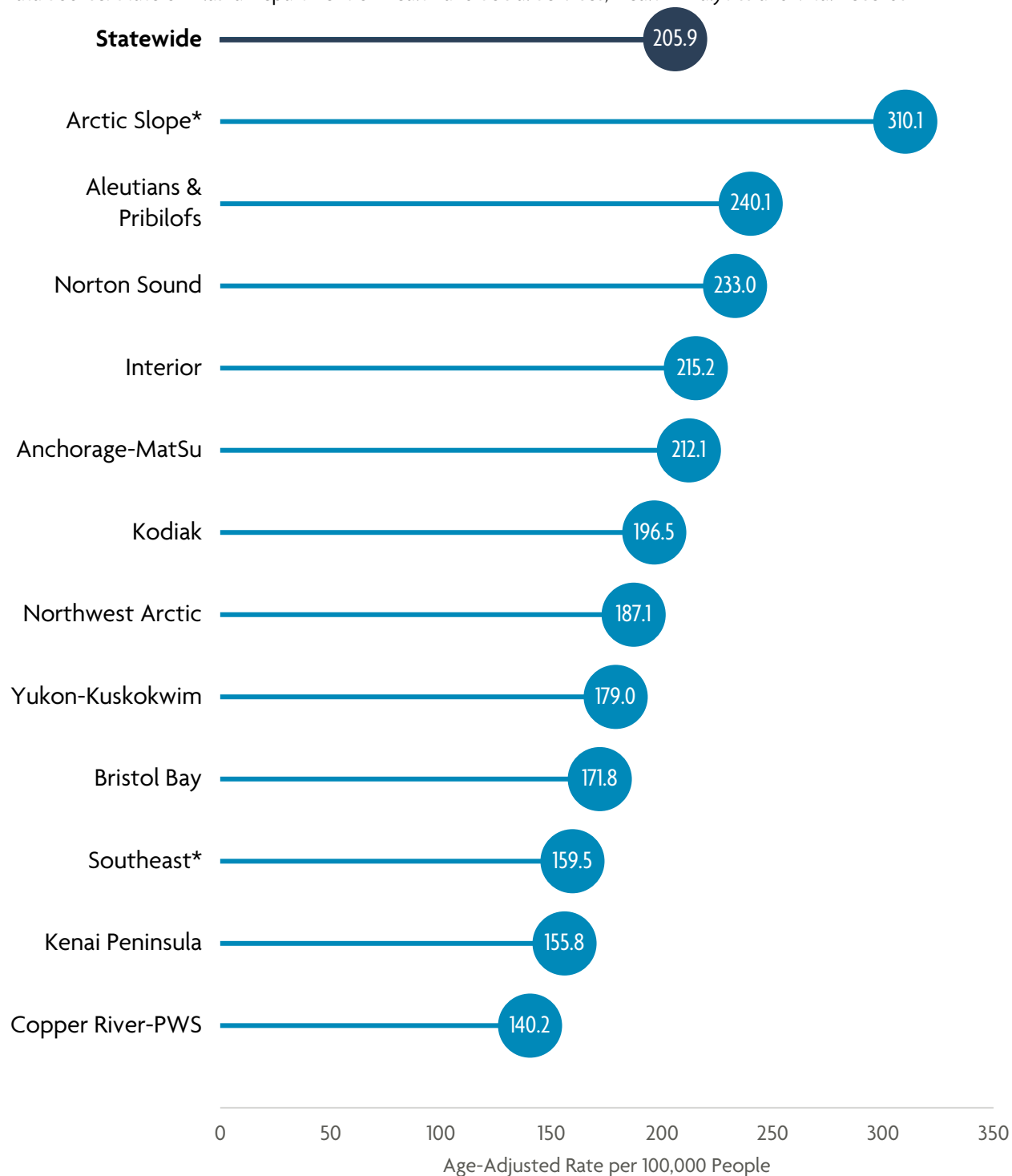
Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



MORTALITY RATES BY REGION

Figure 115a. Cancer Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

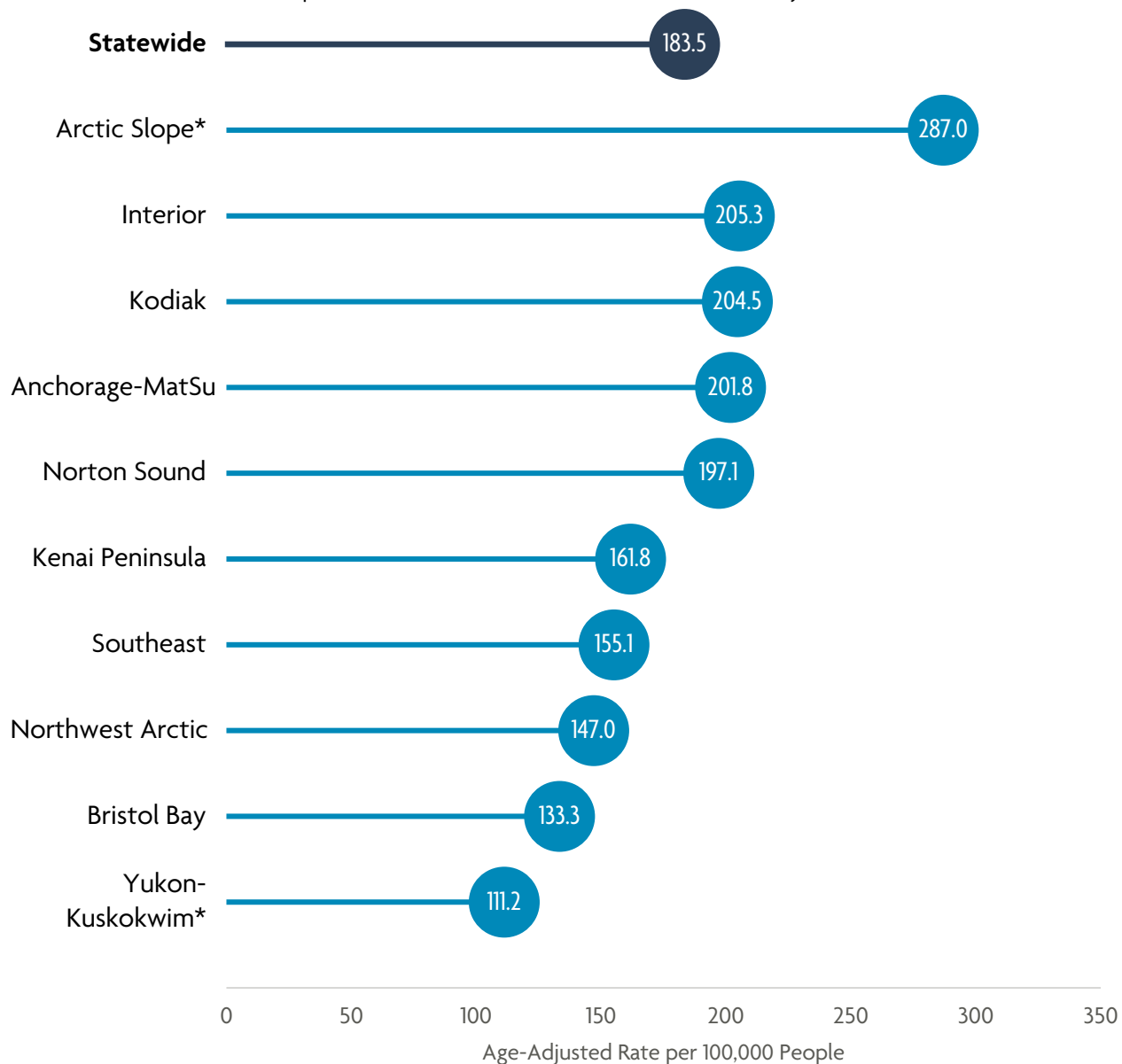


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 115b. Cancer Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

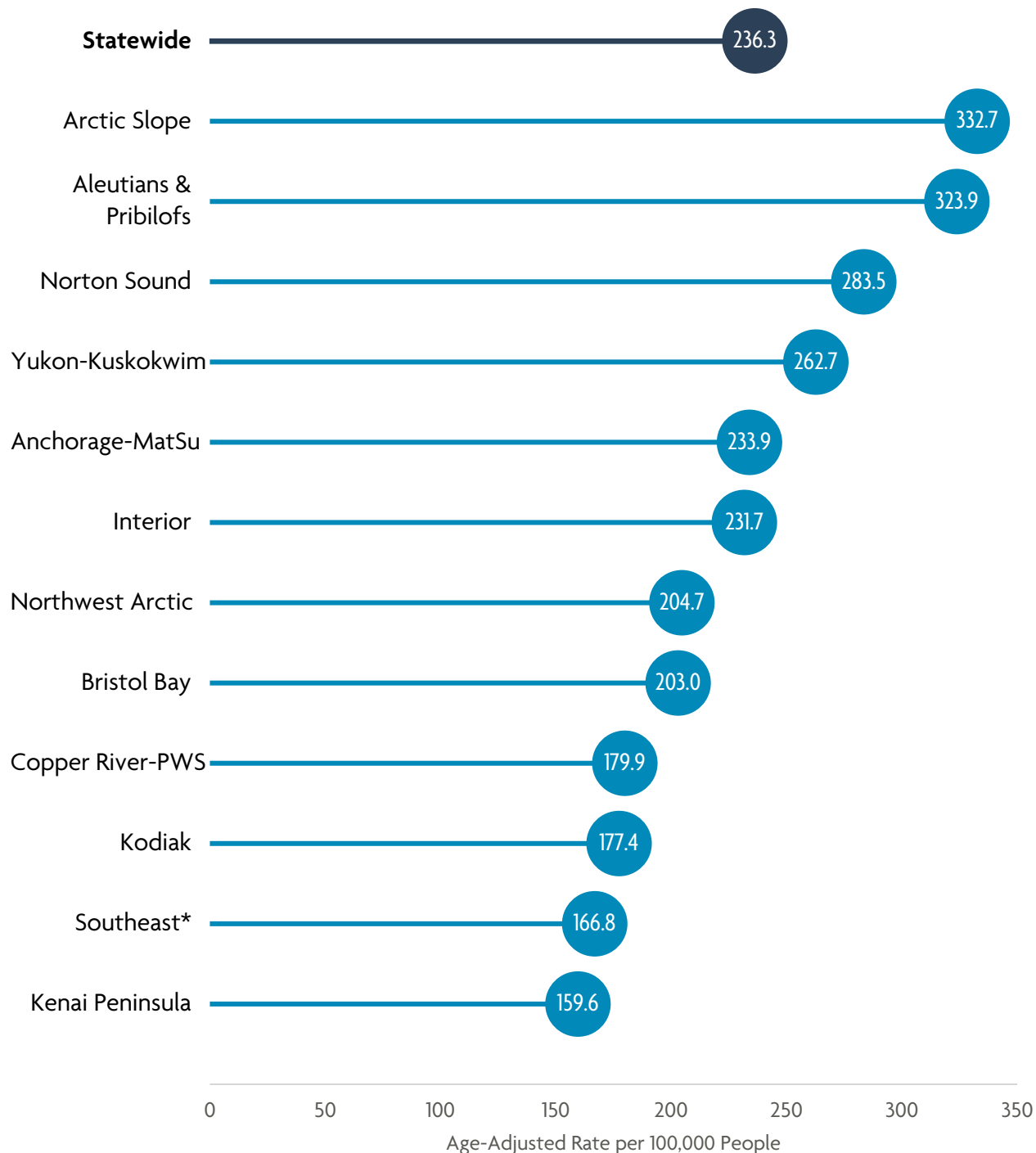


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 115c. Cancer Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

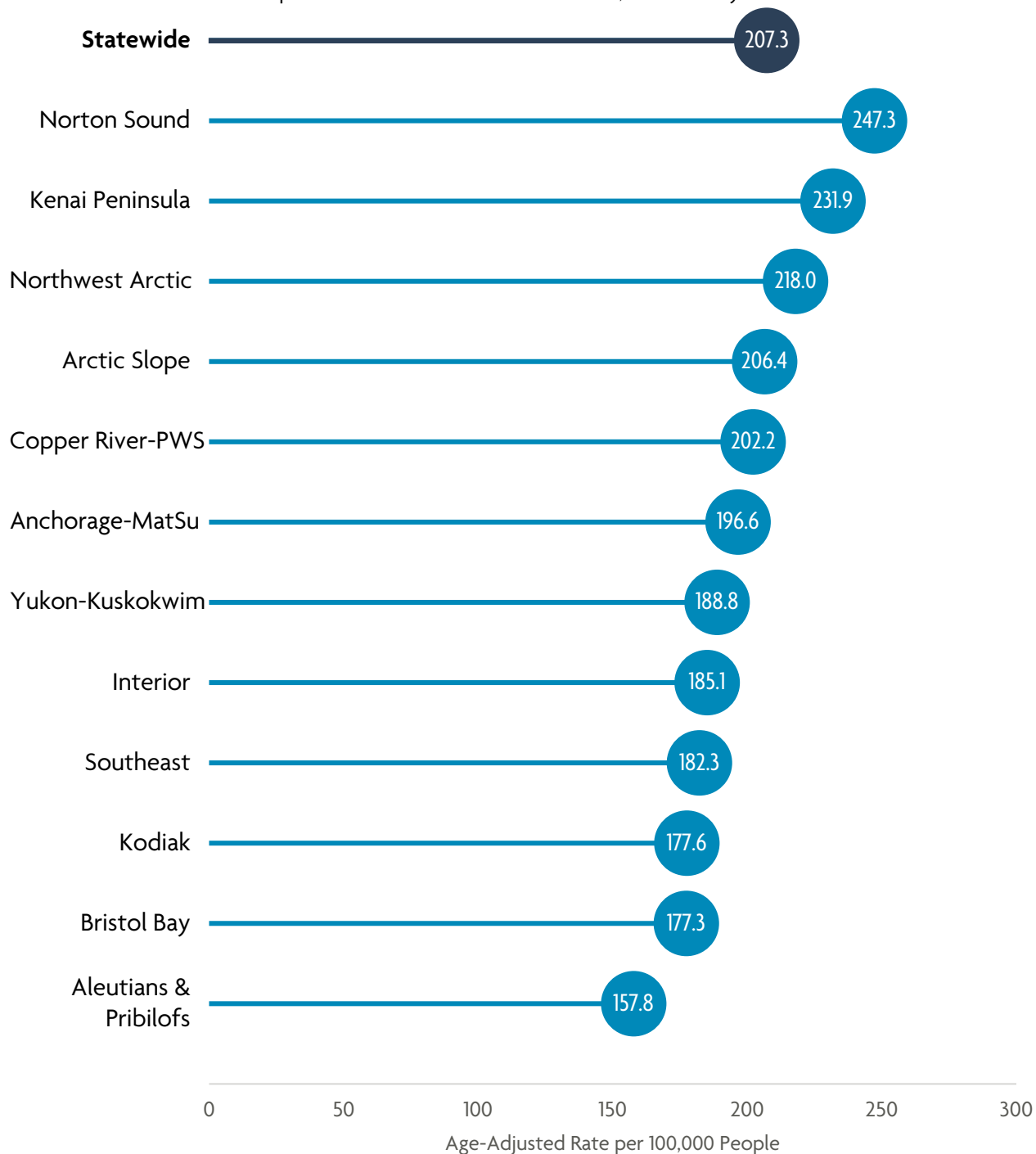


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 116a. Heart Disease Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

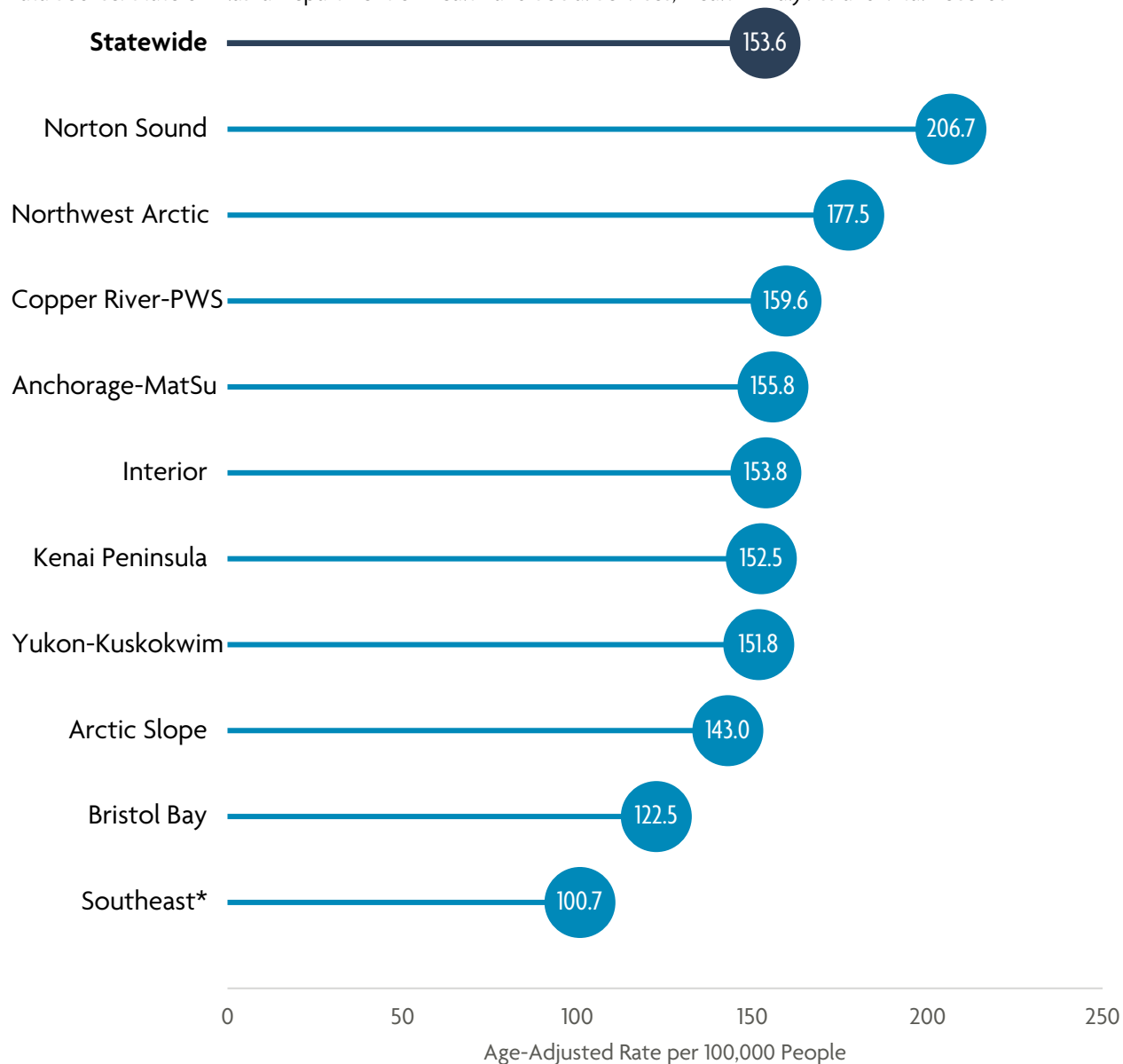


**significant difference, $p < 0.05$*

MORTALITY RATES BY REGION

Figure 116b. Heart Disease Mortality by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

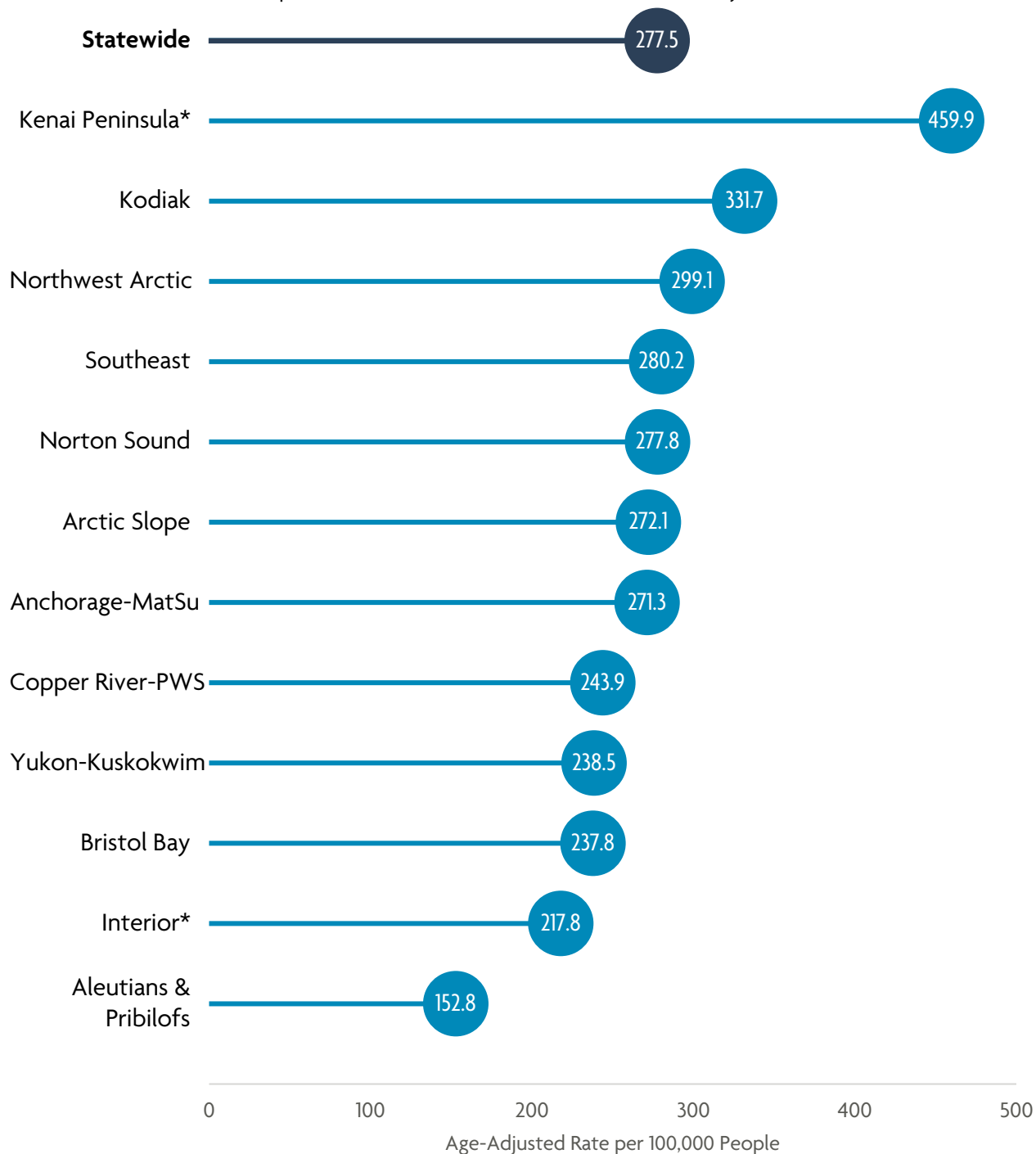


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 116c. Heart Disease Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

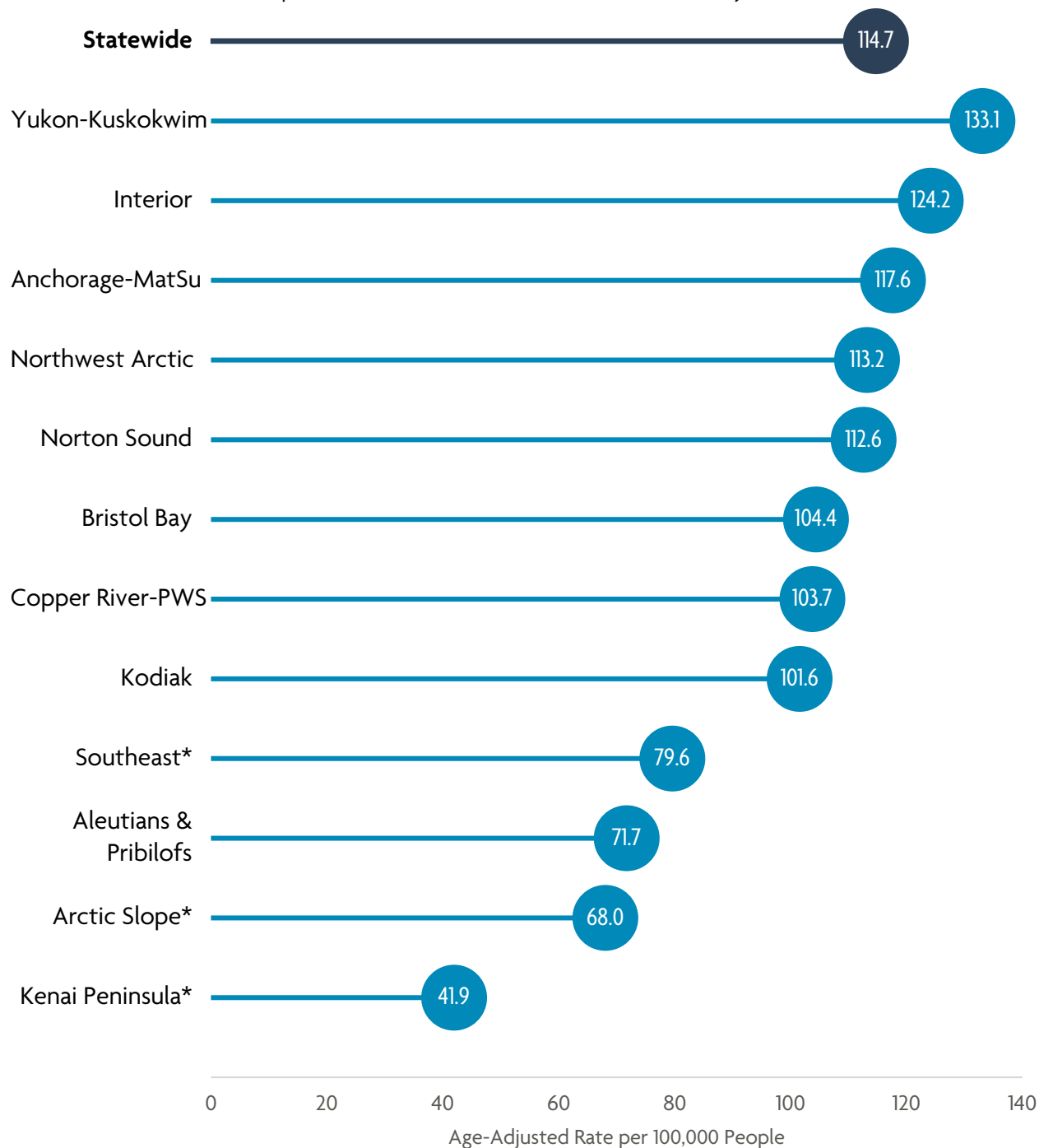


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 117a. Unintentional Injury Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

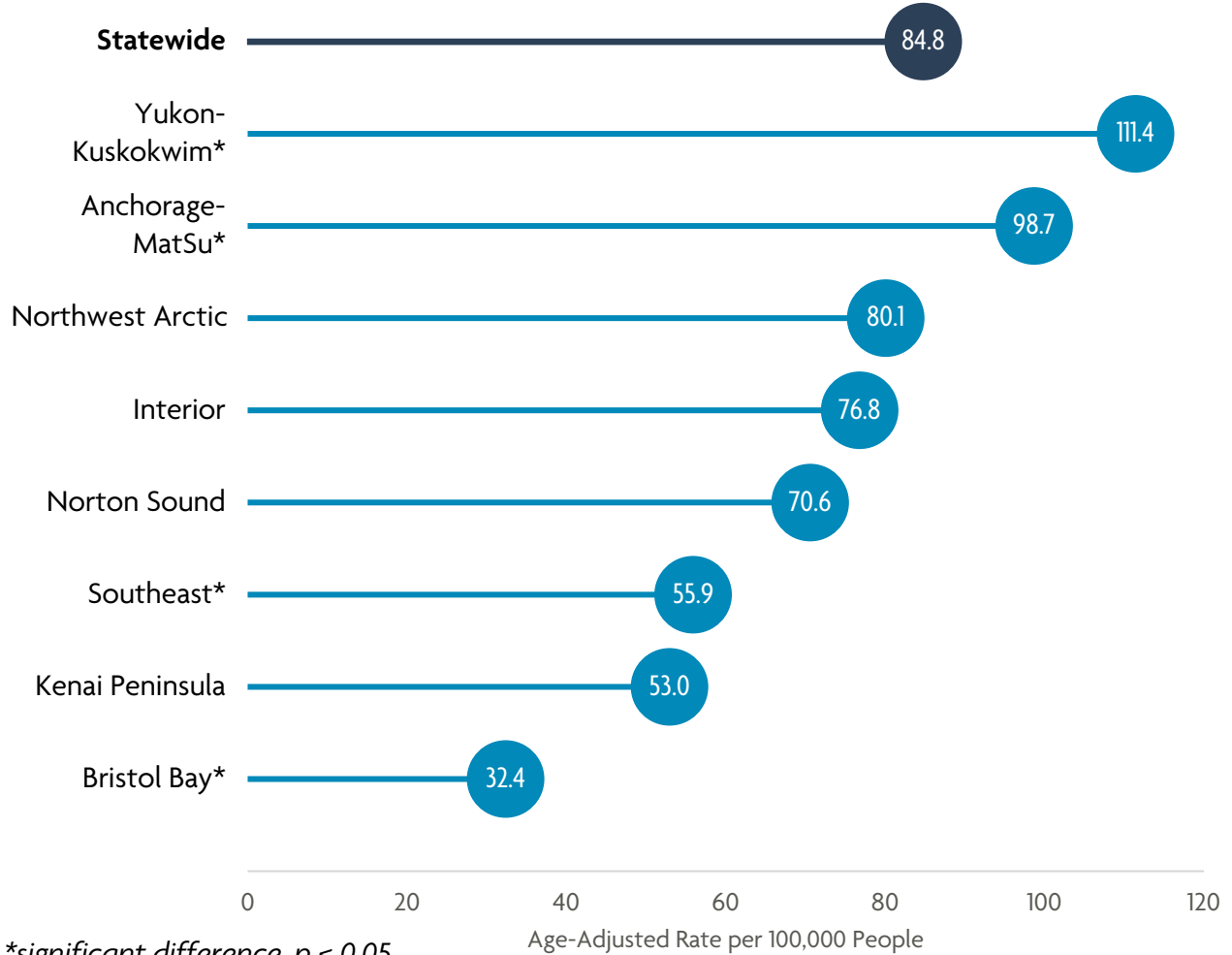


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 117b. Unintentional Injury Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

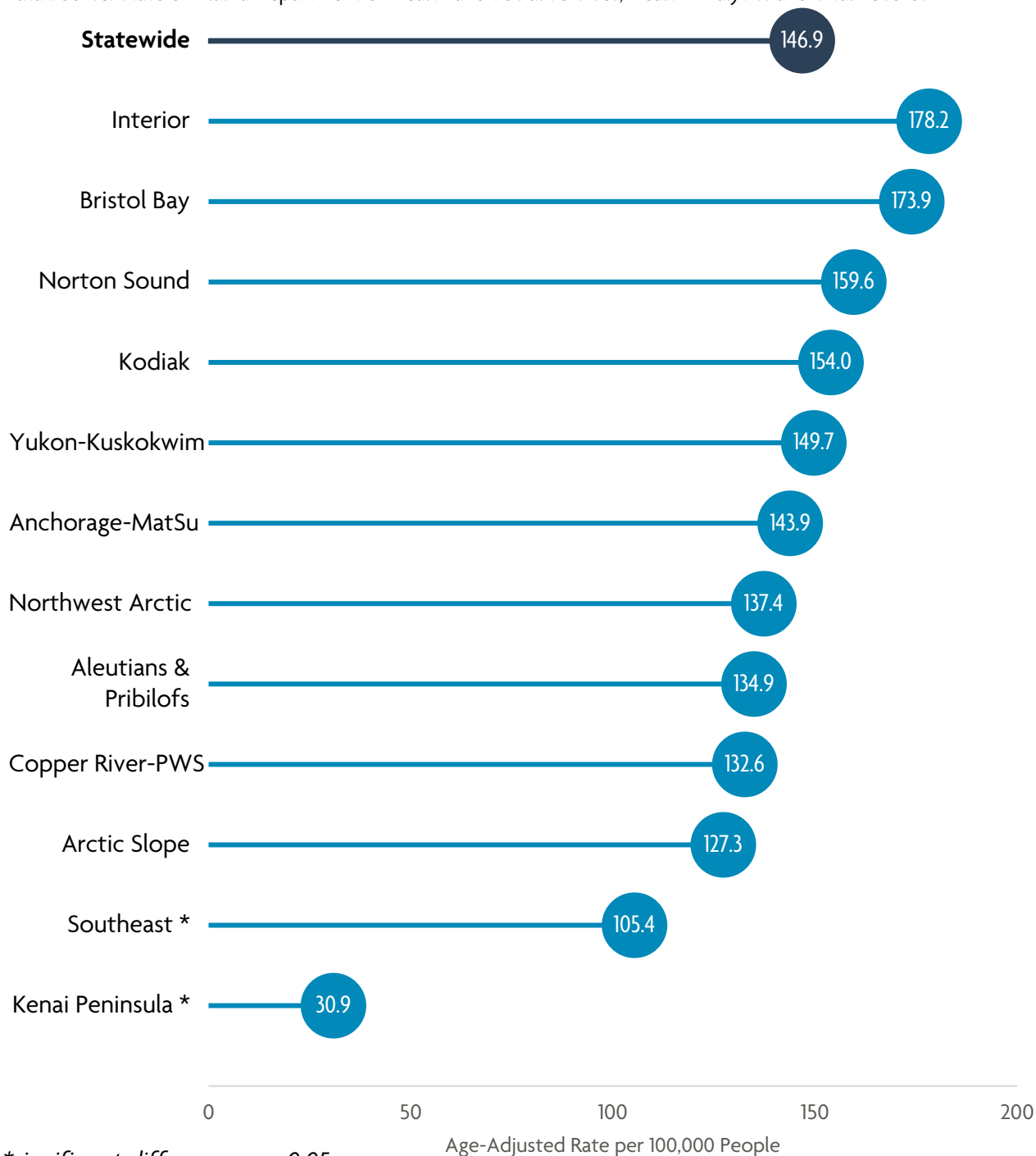


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 117c. Unintentional Injury Mortality Rates by Region, Alaska Native Males, 2014-2018

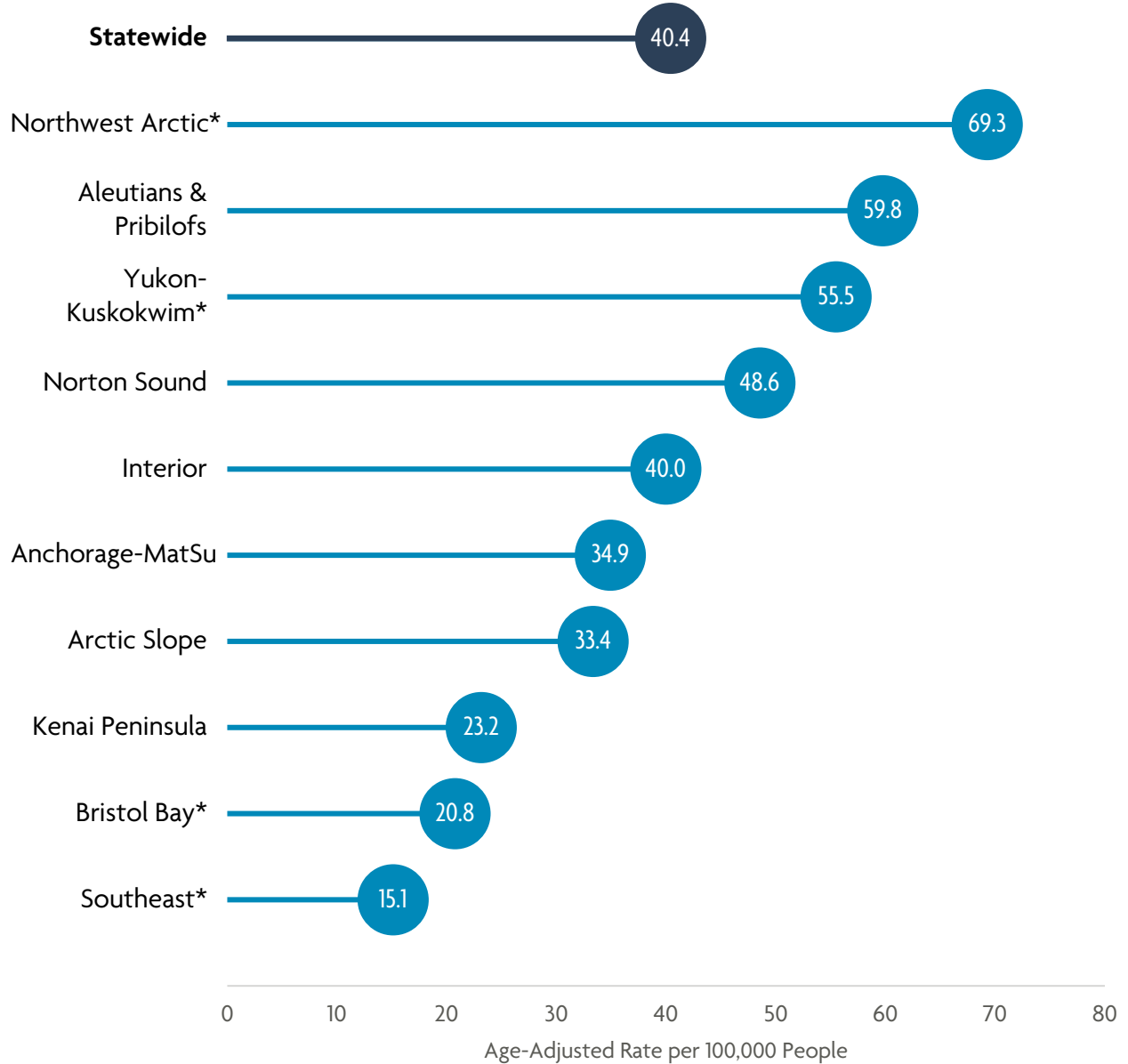
Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



MORTALITY RATES BY REGION

Figure 118a. Suicide Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

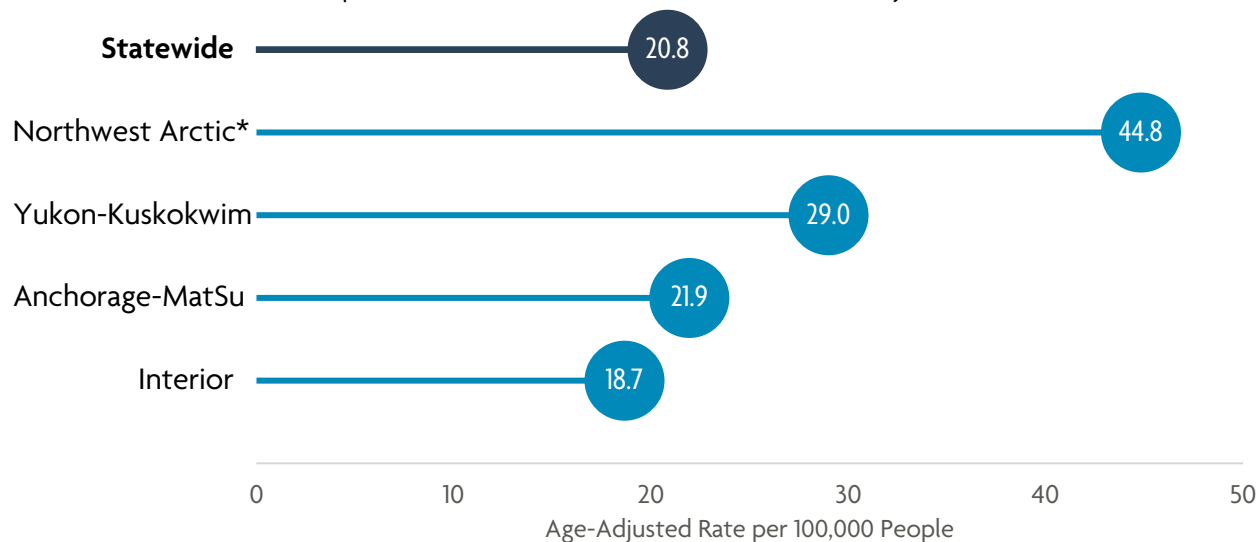


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 118b. Suicide Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

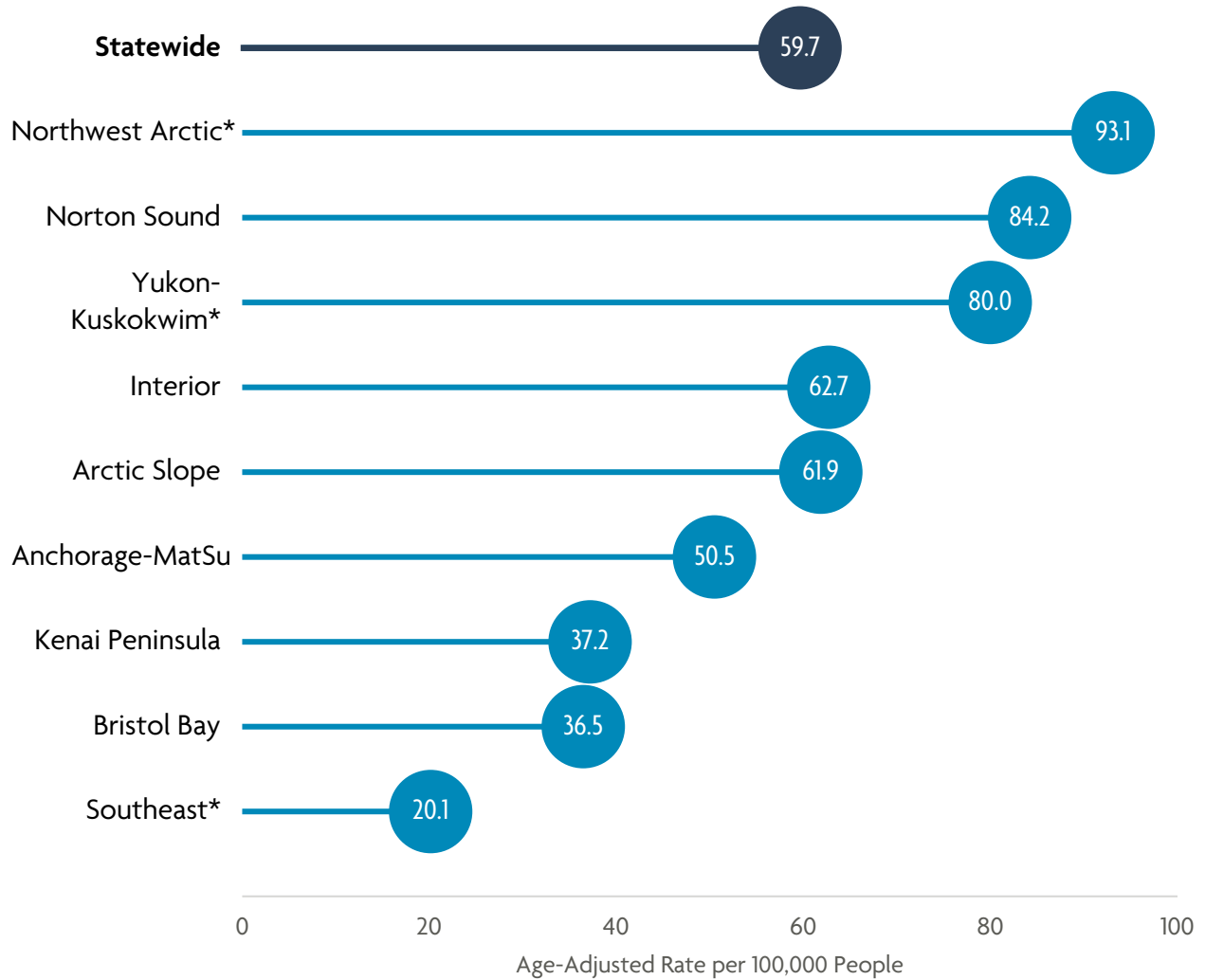


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 118c. Suicide Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

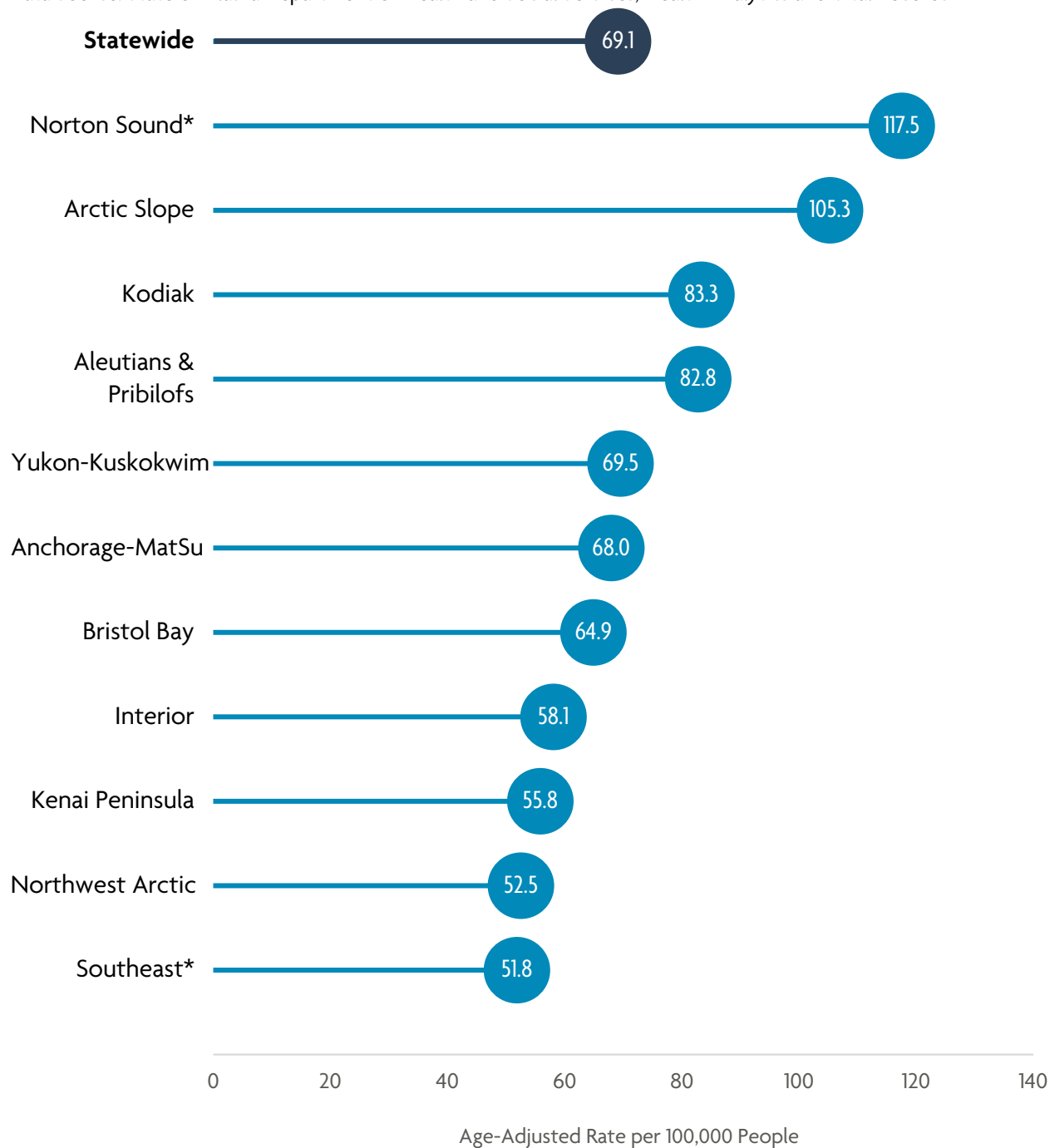


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 119a. COPD Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

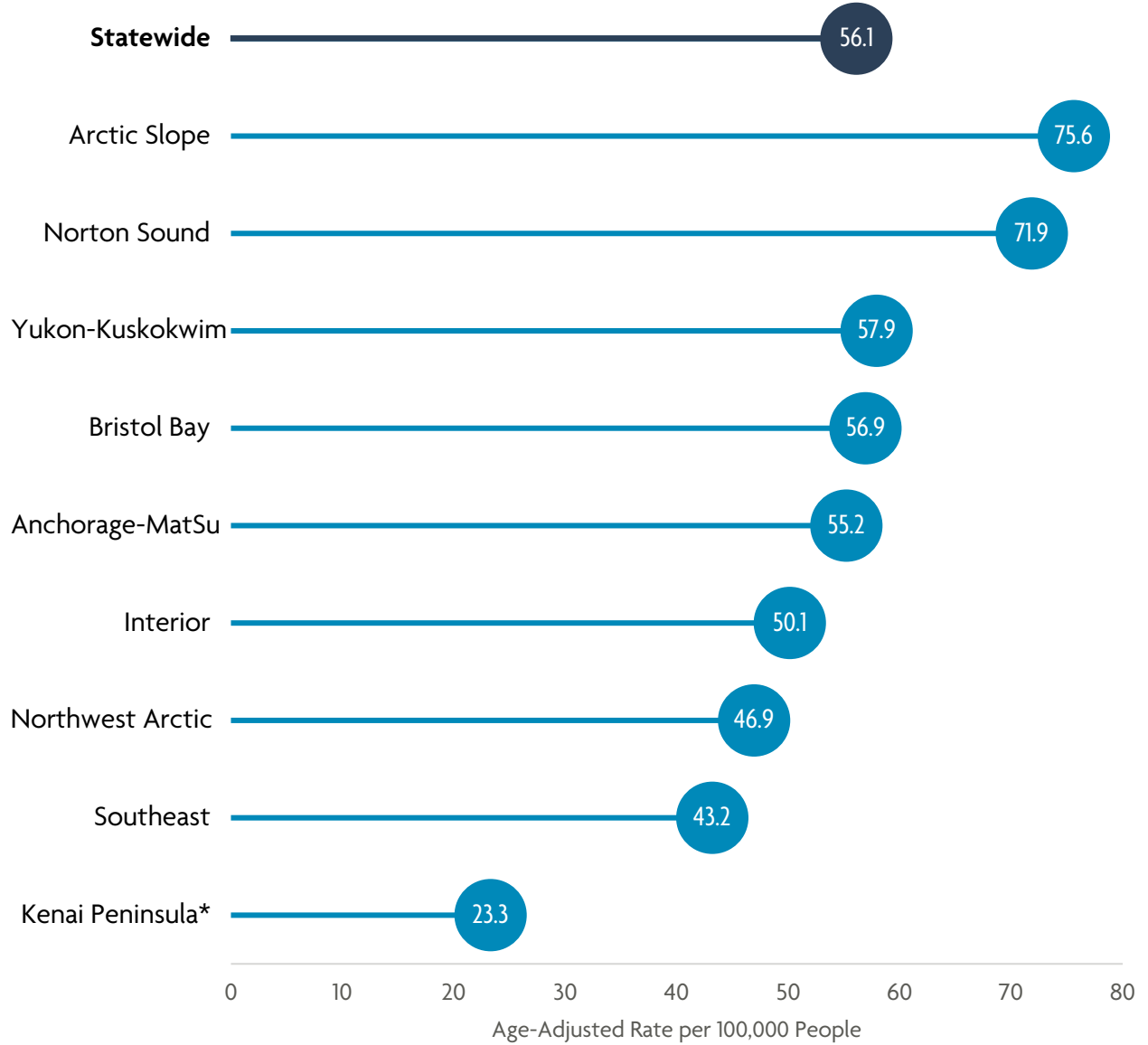


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 119b. COPD Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

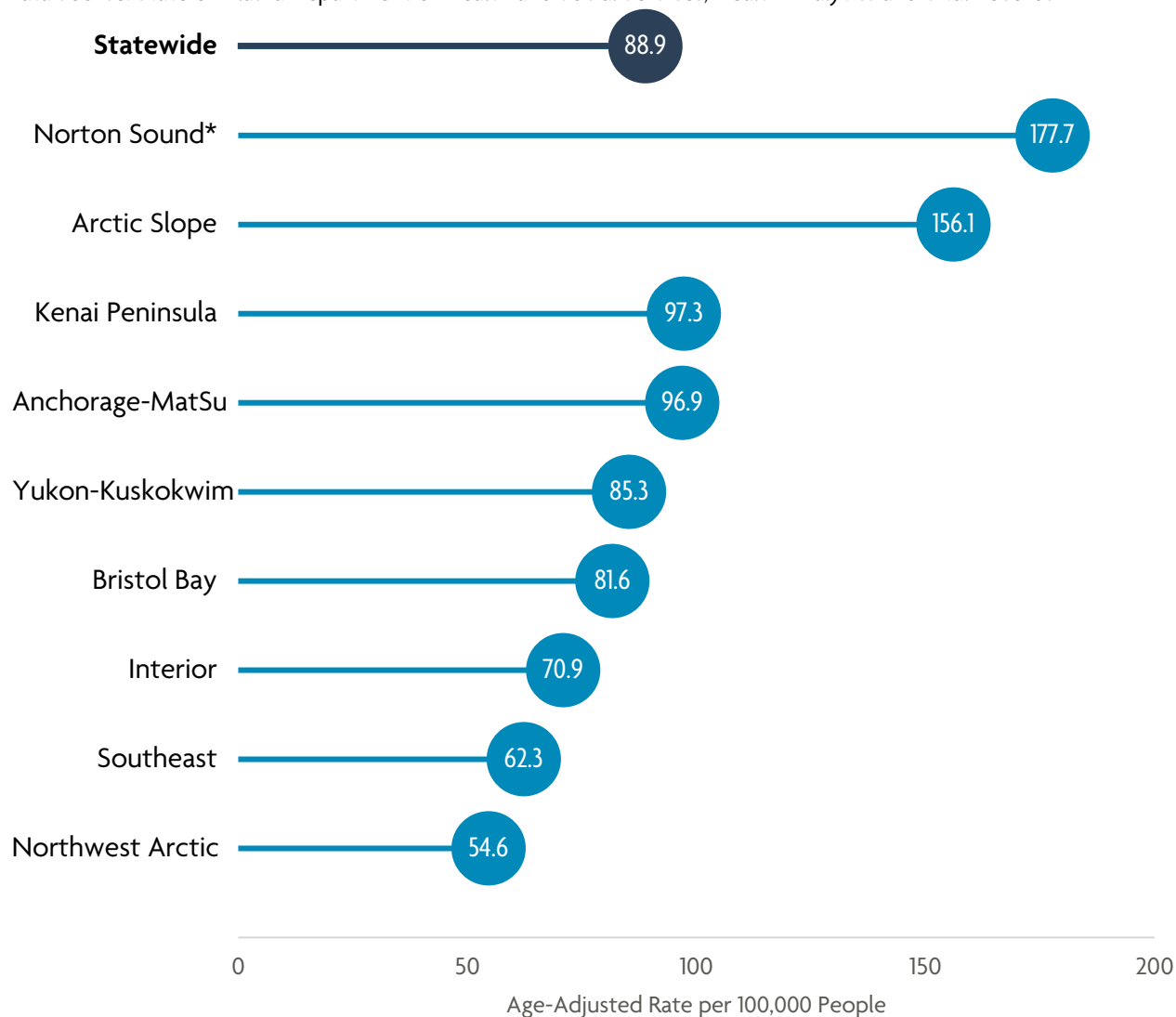


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 119c. COPD Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

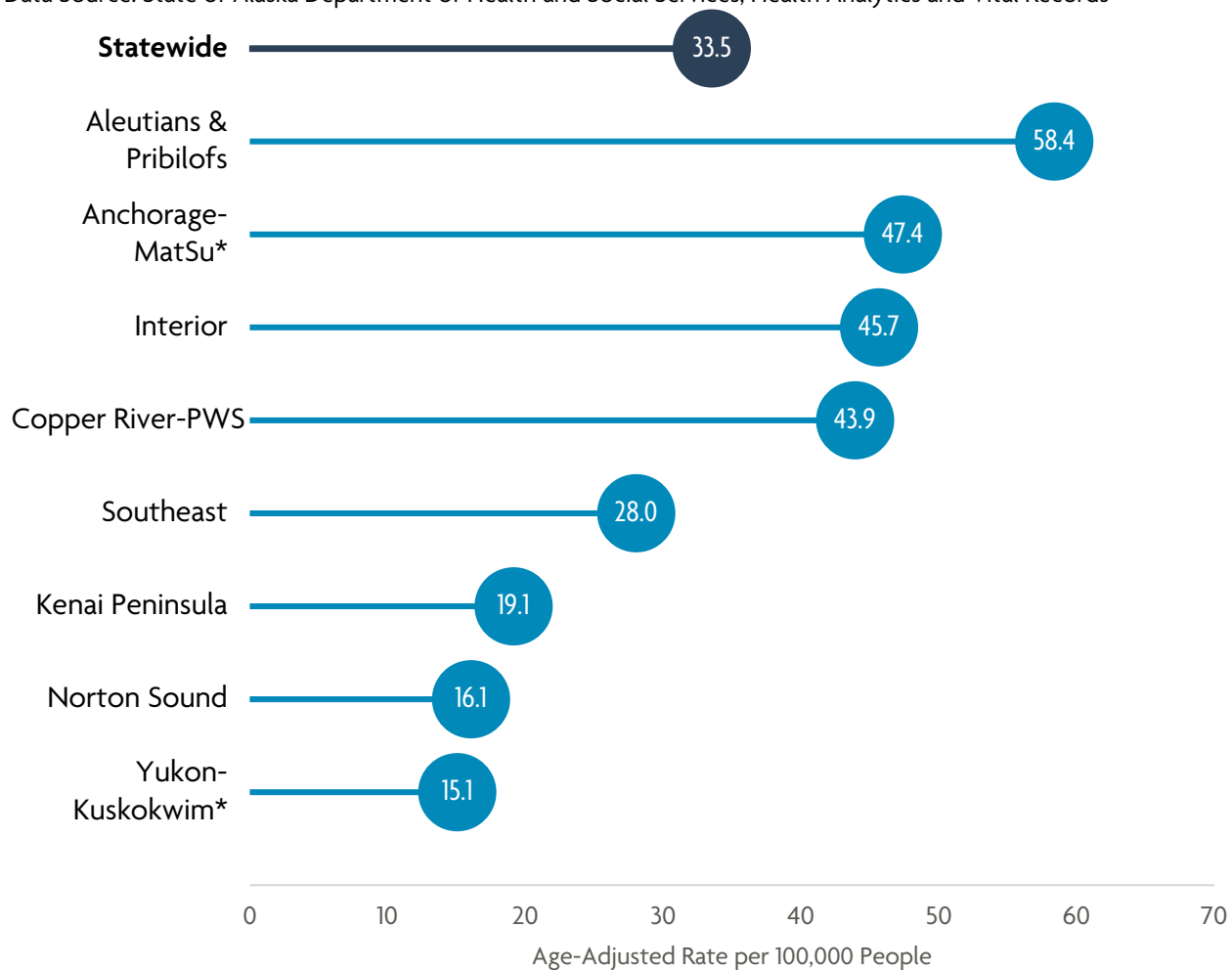


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 120a. Chronic Liver Disease Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 120b. Chronic Liver Disease Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

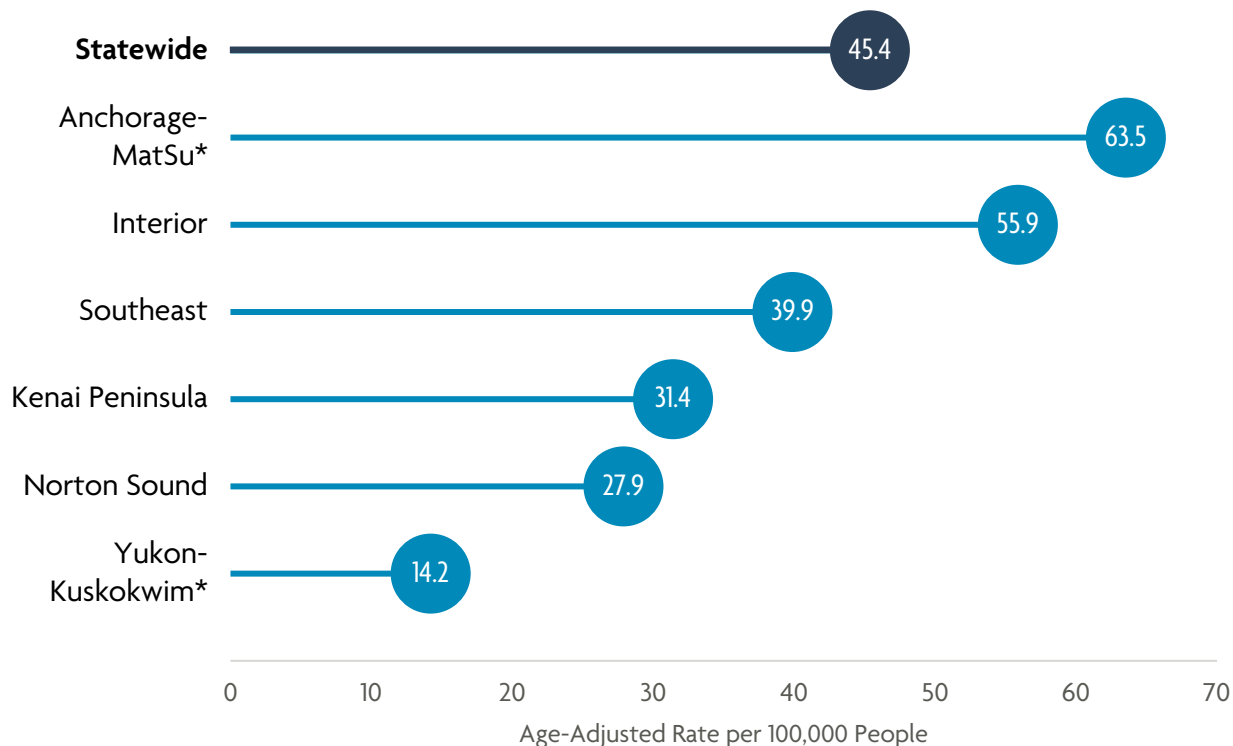
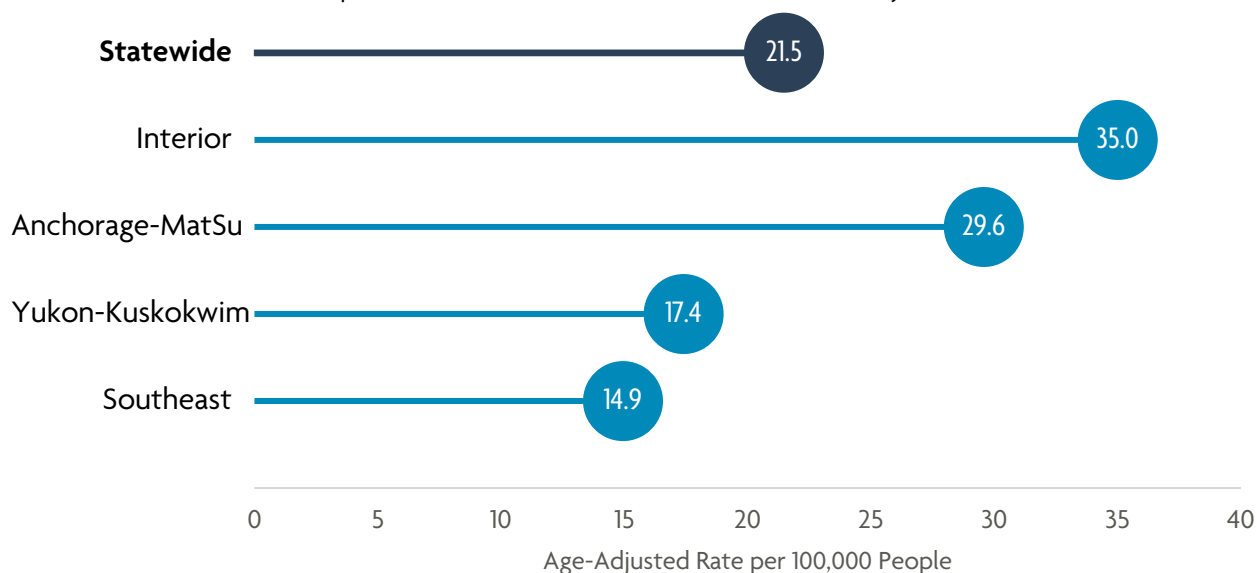


Figure 120c. Chronic Liver Disease Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

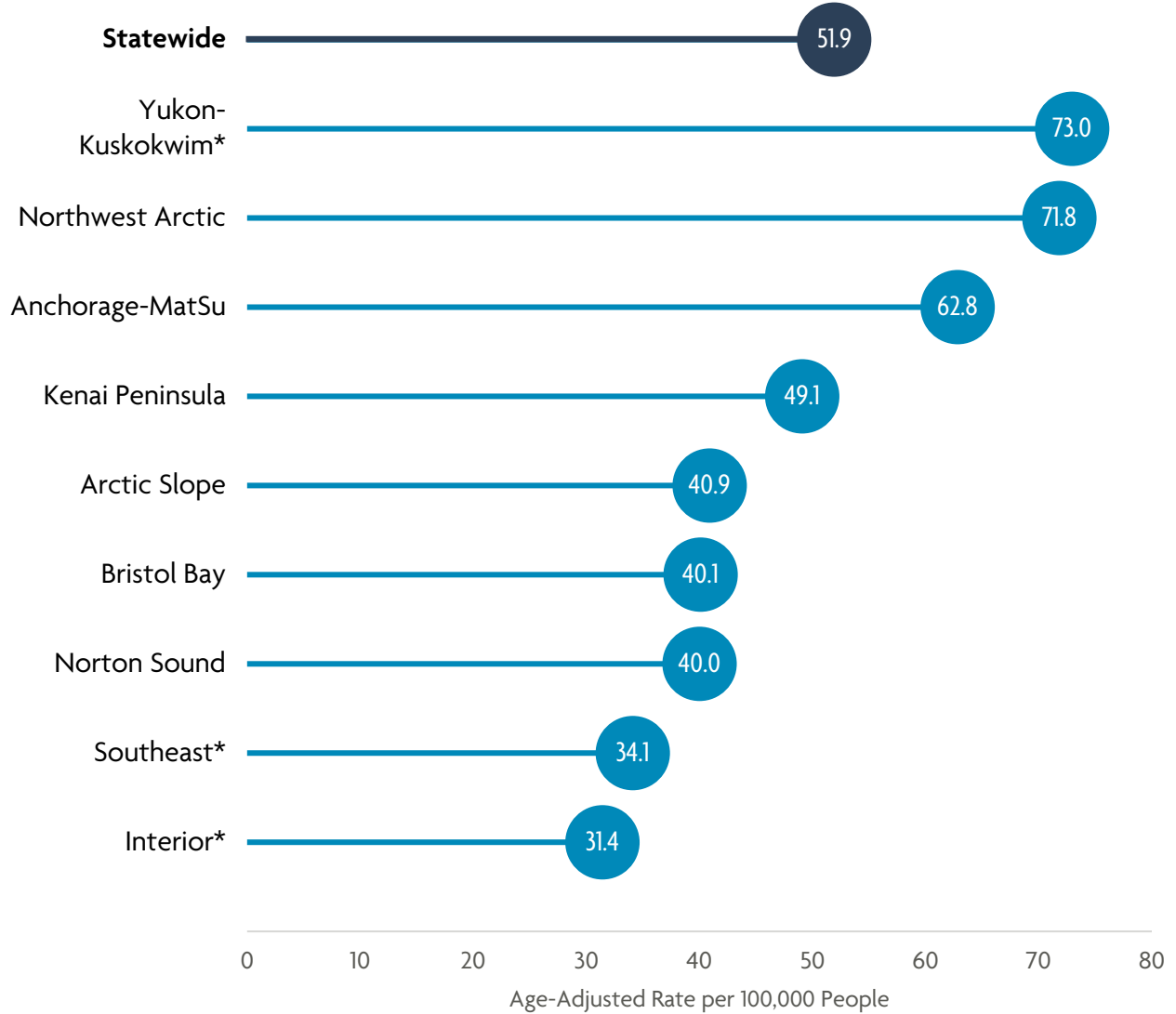


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 121a. Cerebrovascular Disease Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 121b. Cerebrovascular Disease Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

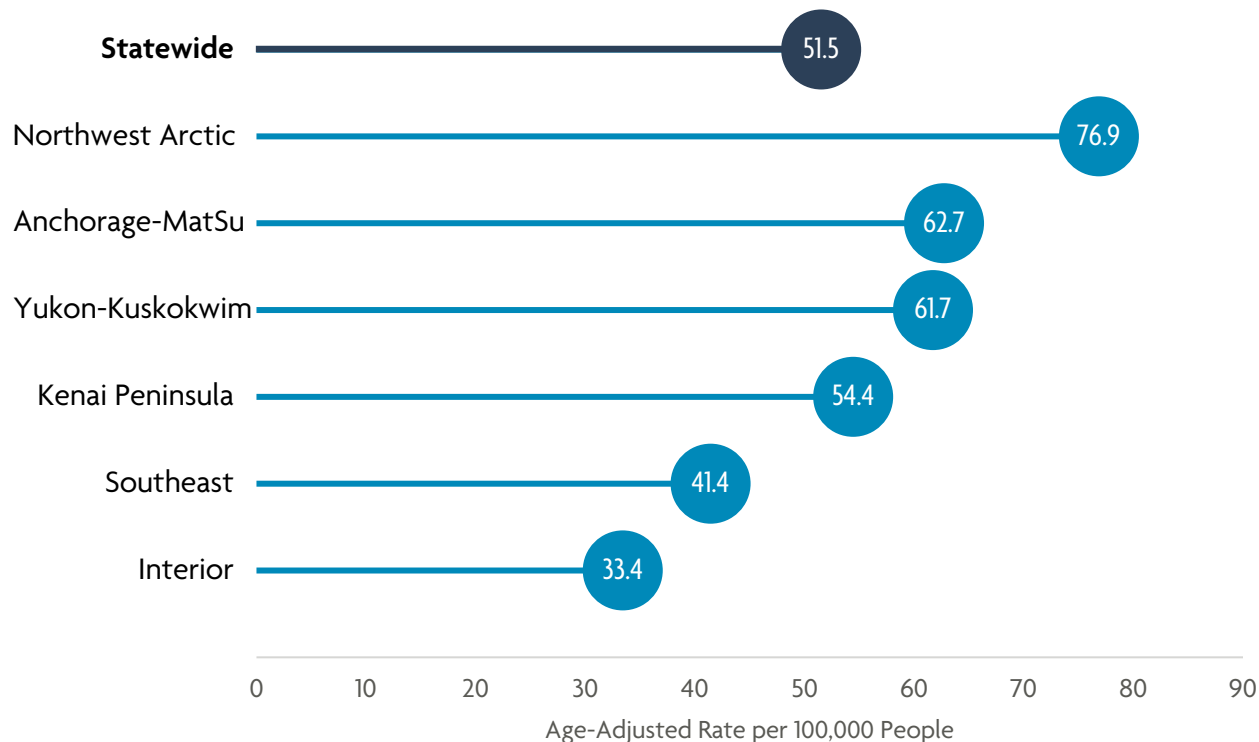
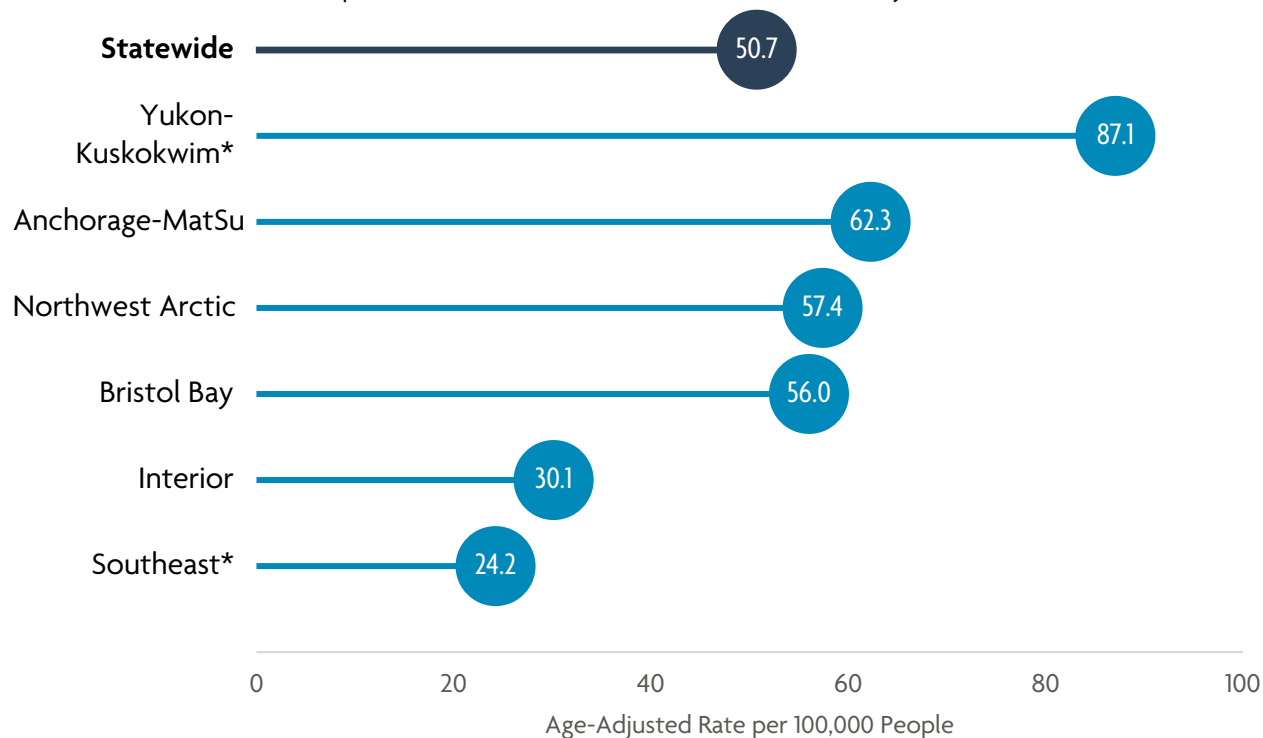


Figure 121c. Cerebrovascular Disease Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

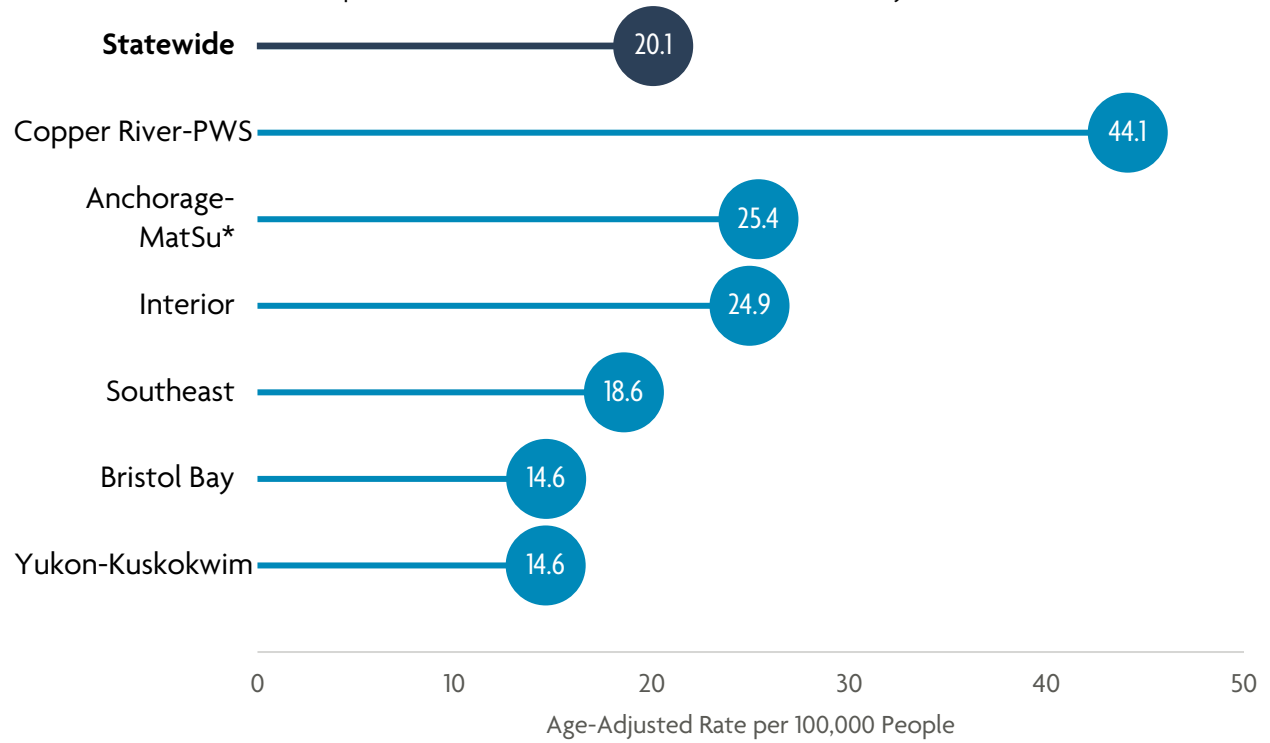


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 122a. Alcohol Abuse Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



MORTALITY RATES BY REGION

Figure 122b. Alcohol Abuse Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

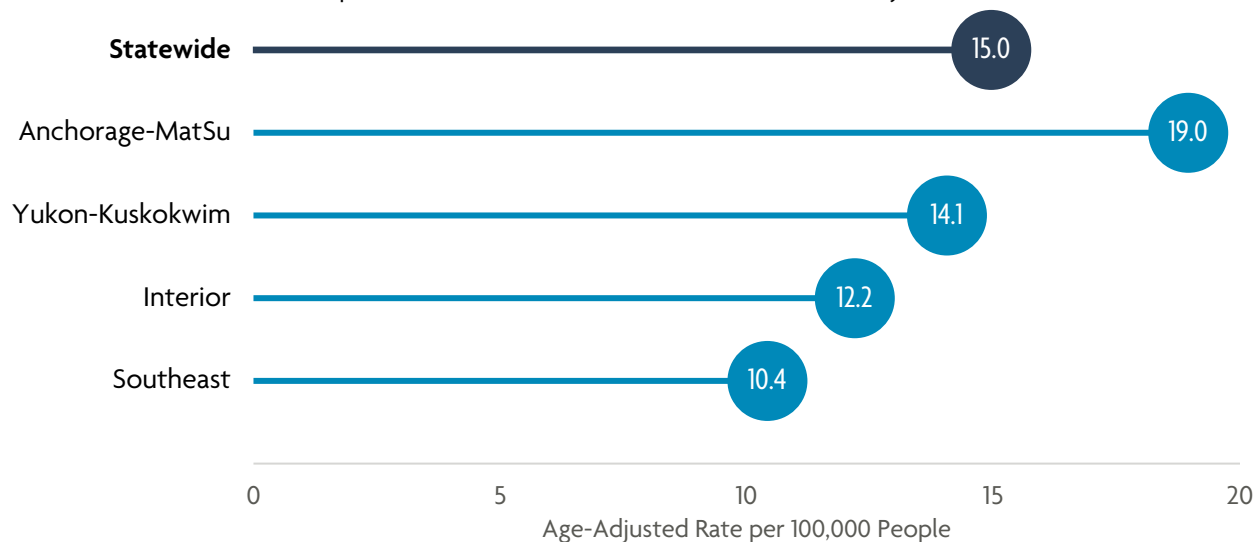
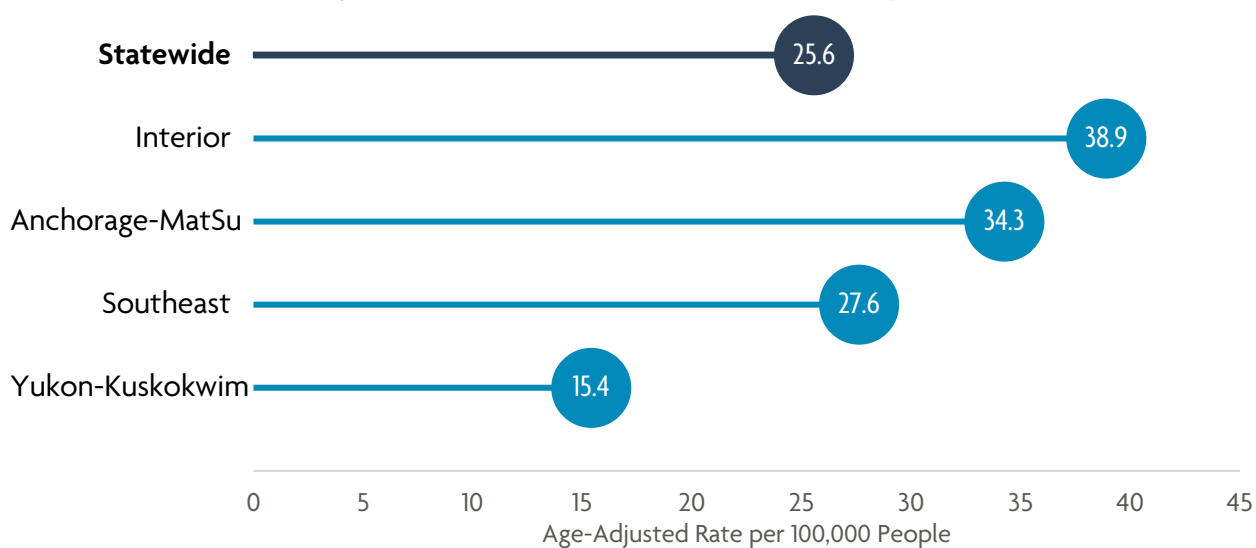


Figure 122c. Alcohol Abuse Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 123a. Homicide Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

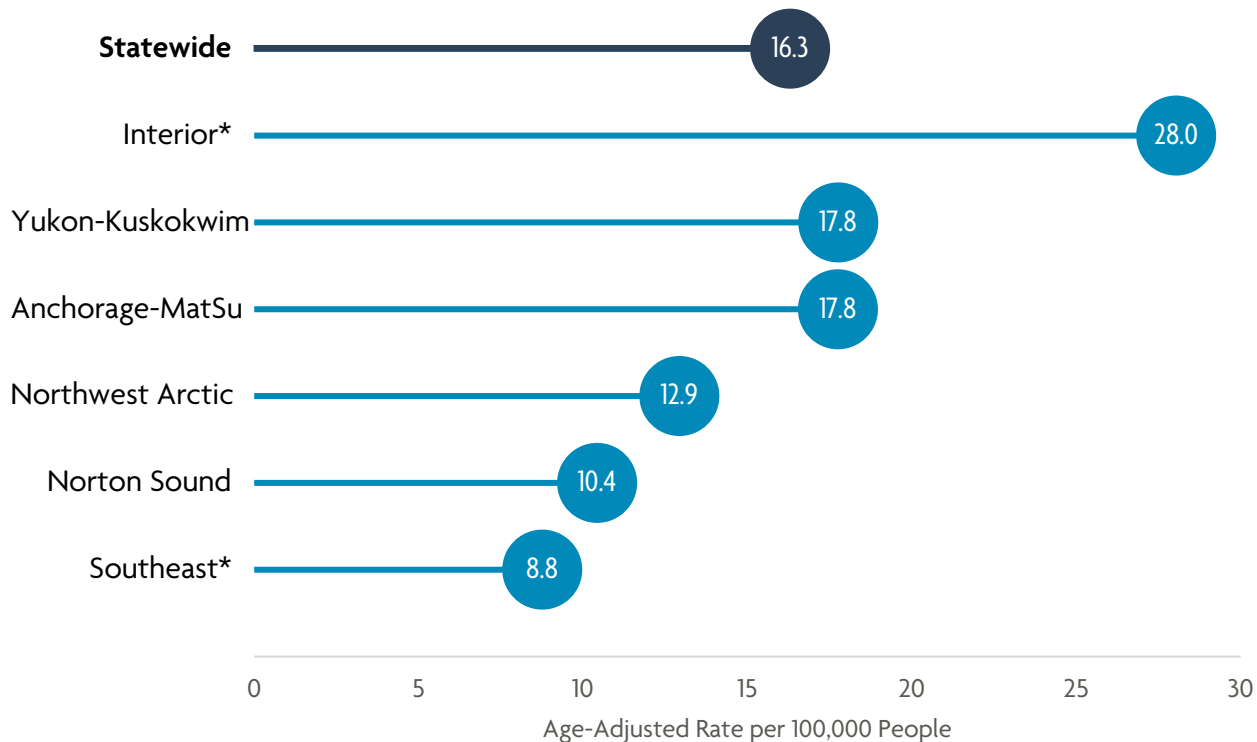
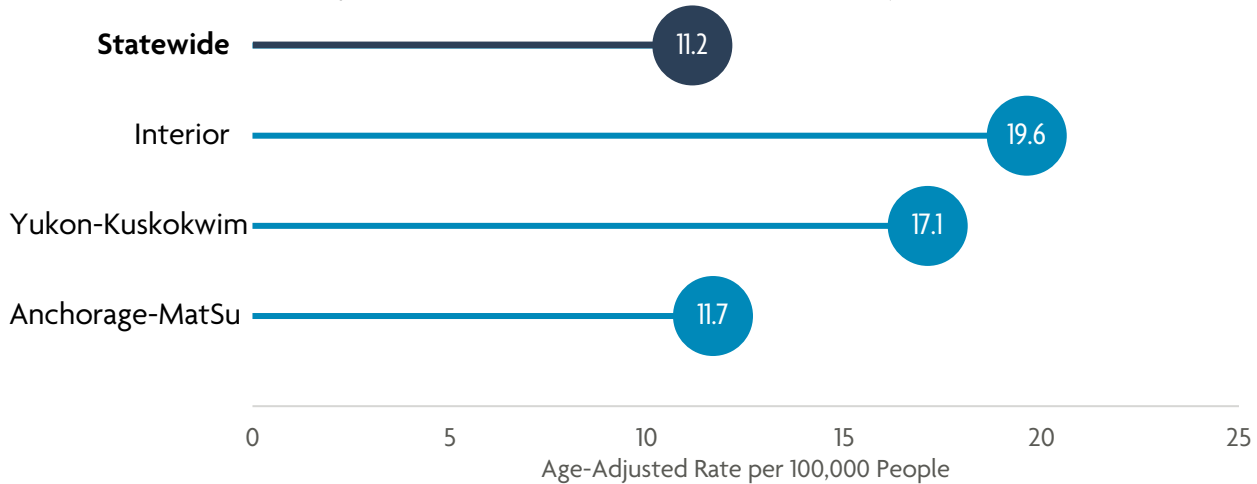


Figure 123b. Homicide Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

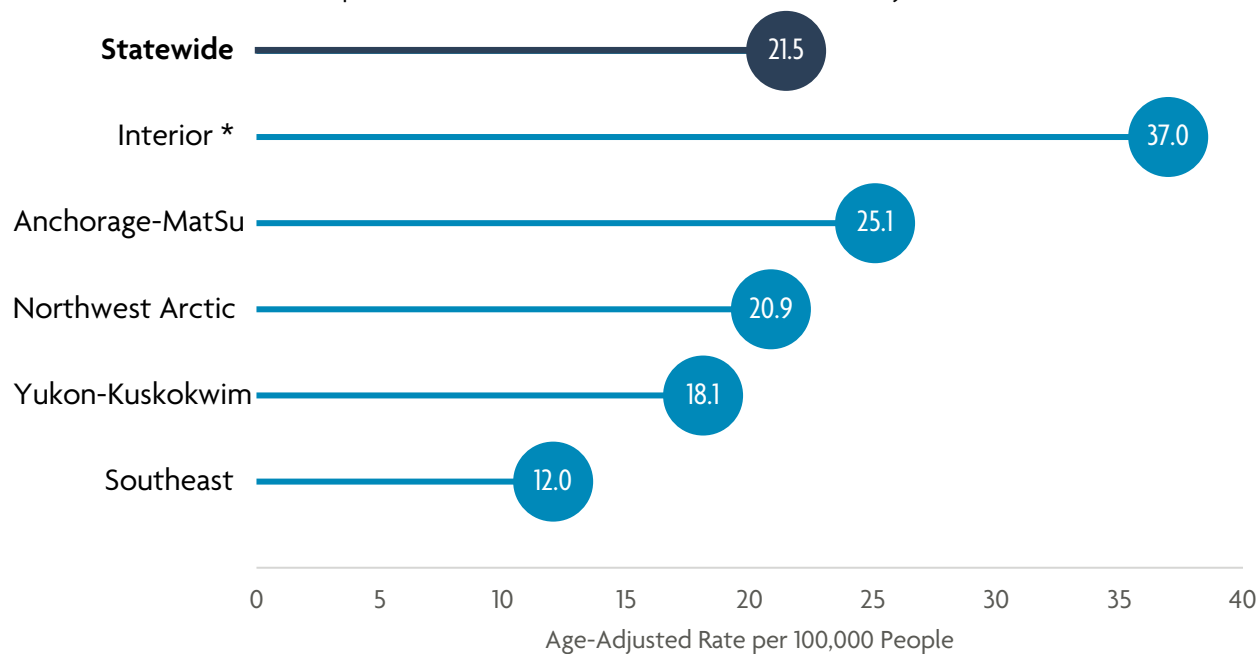


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 123c. Homicide Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

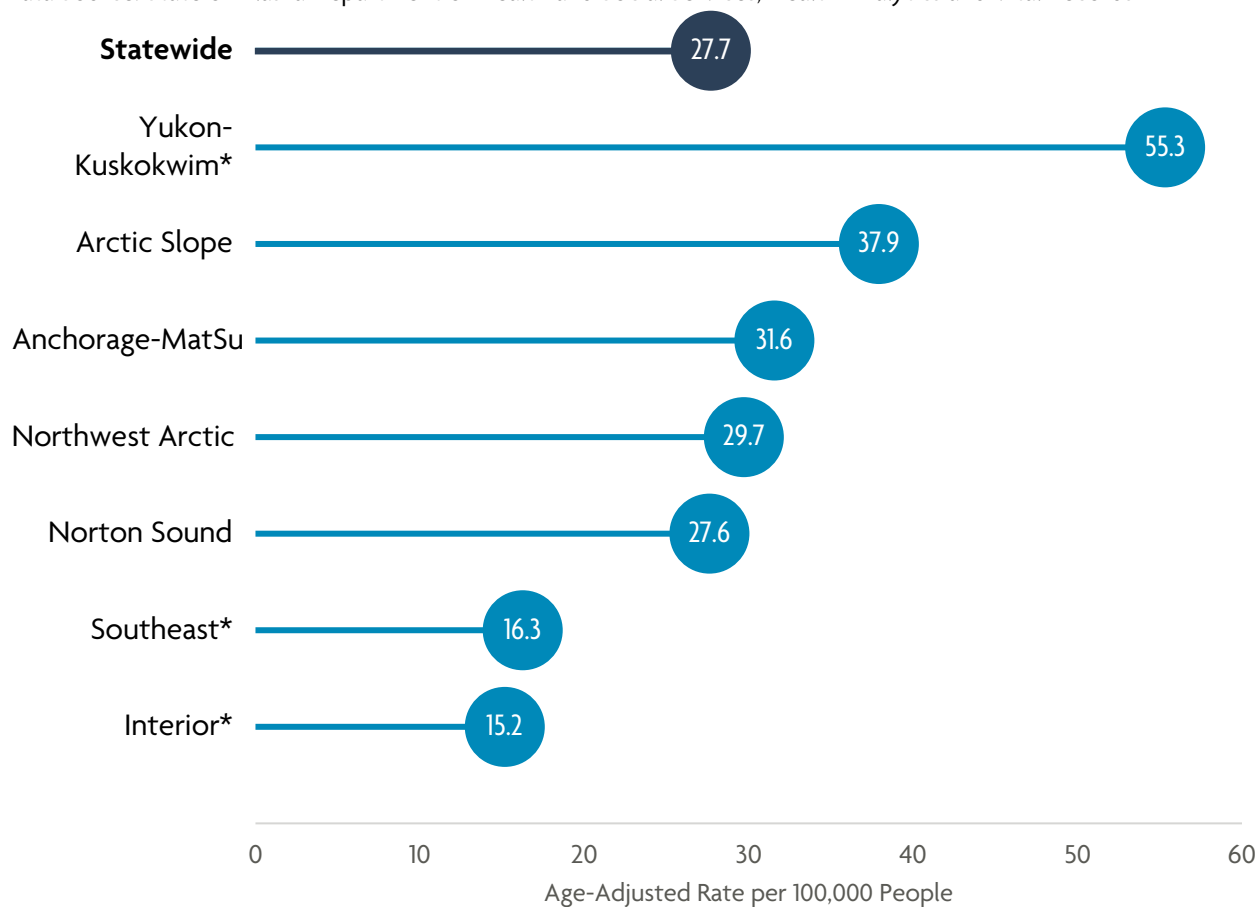


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 124a. Influenza/Pneumonia Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 124b. Influenza/Pneumonia Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

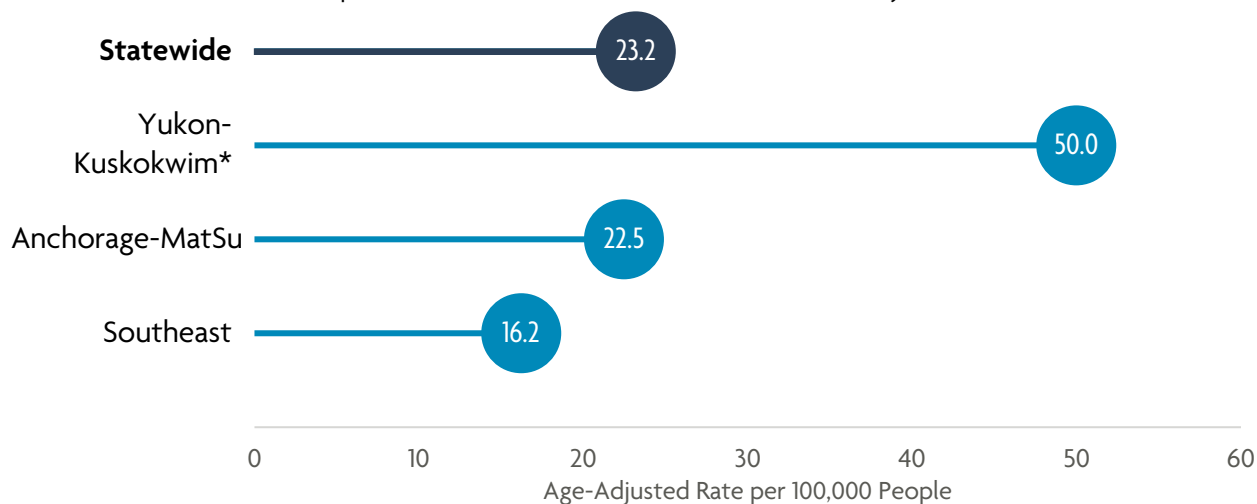
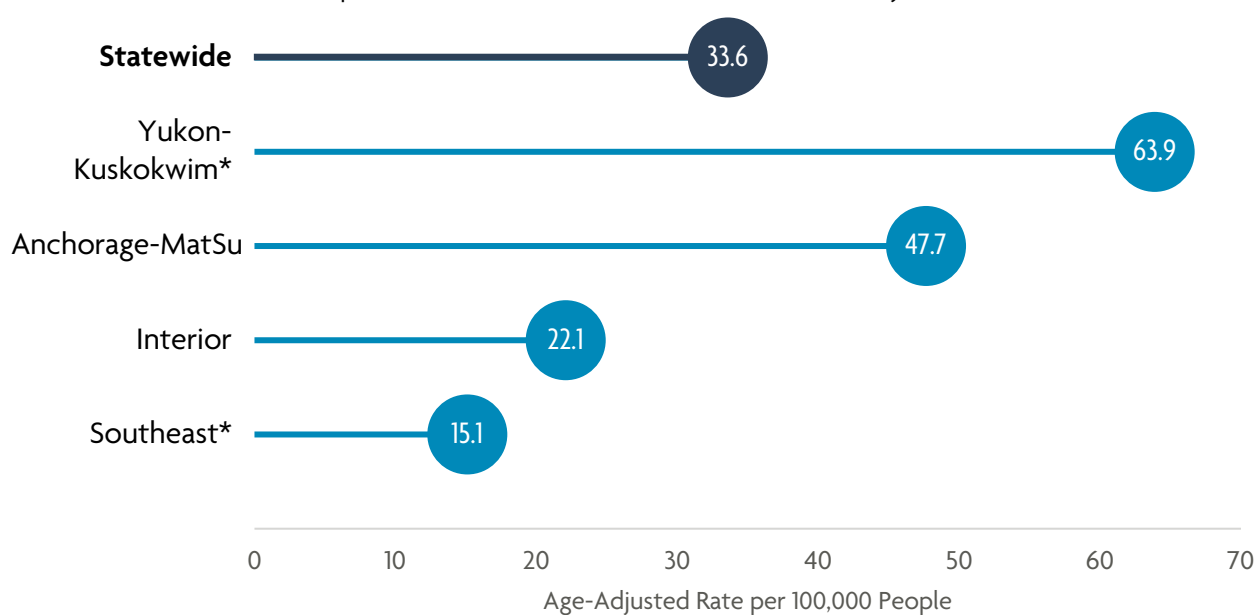


Figure 124c. Influenza/Pneumonia Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

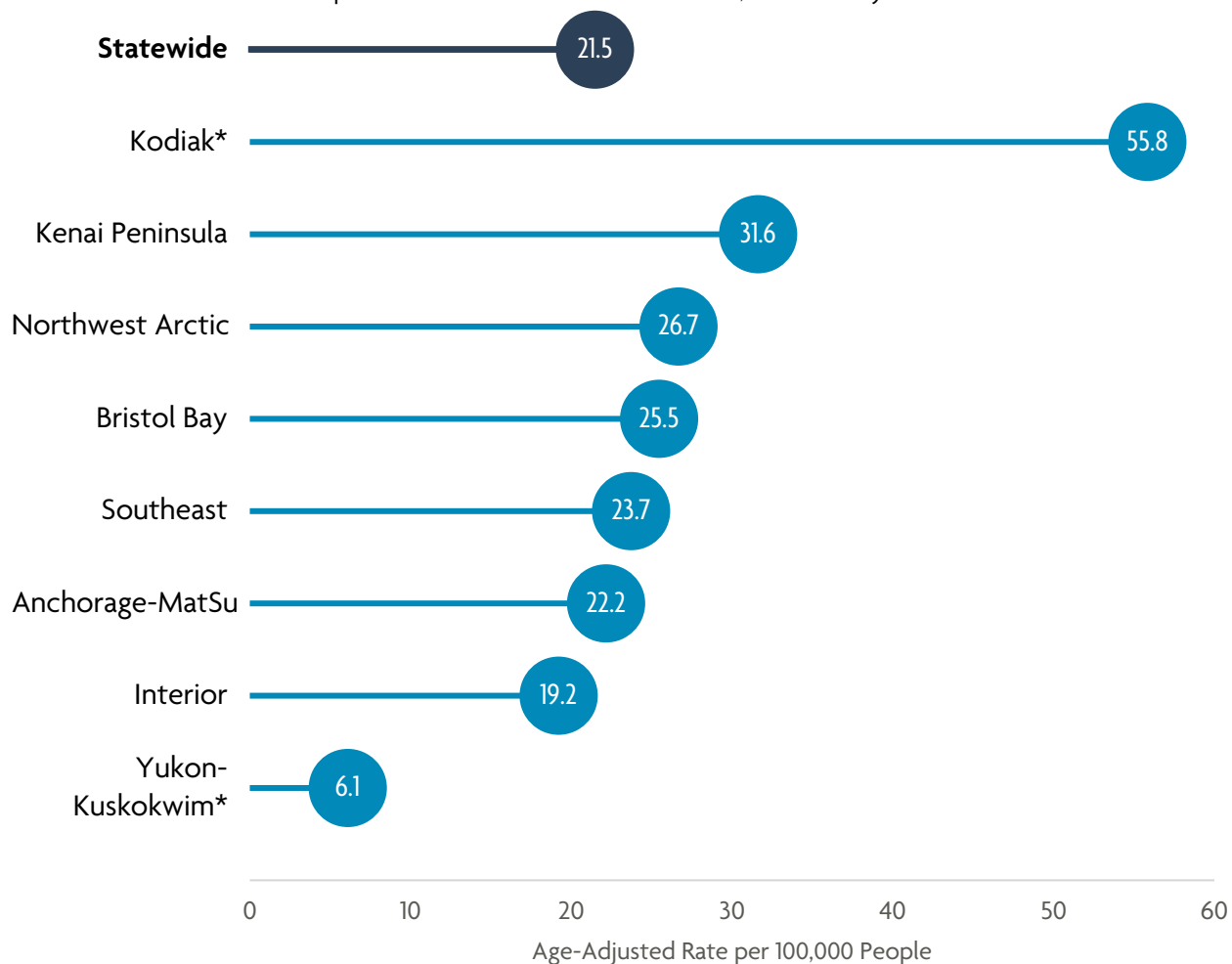


*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 125a. Diabetes Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 125b. Diabetes Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

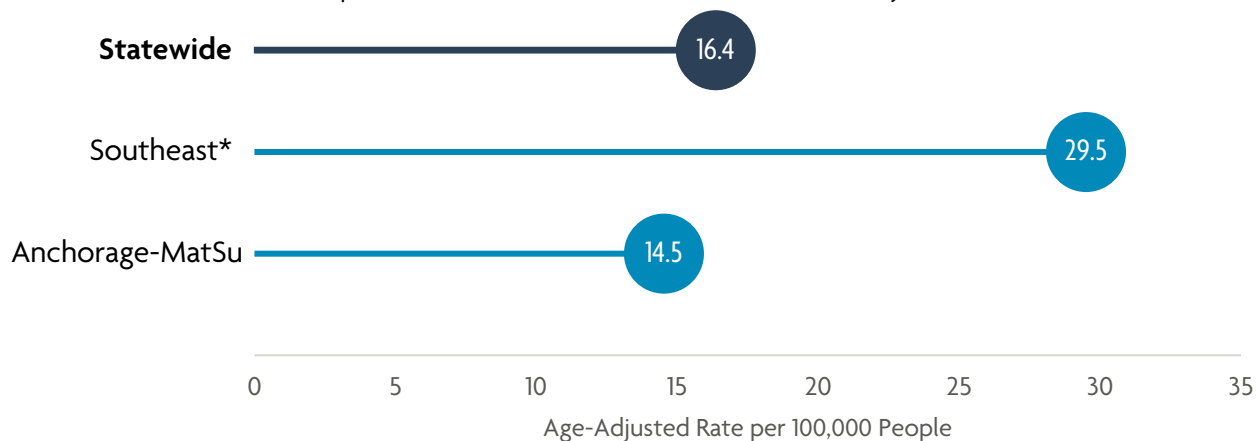
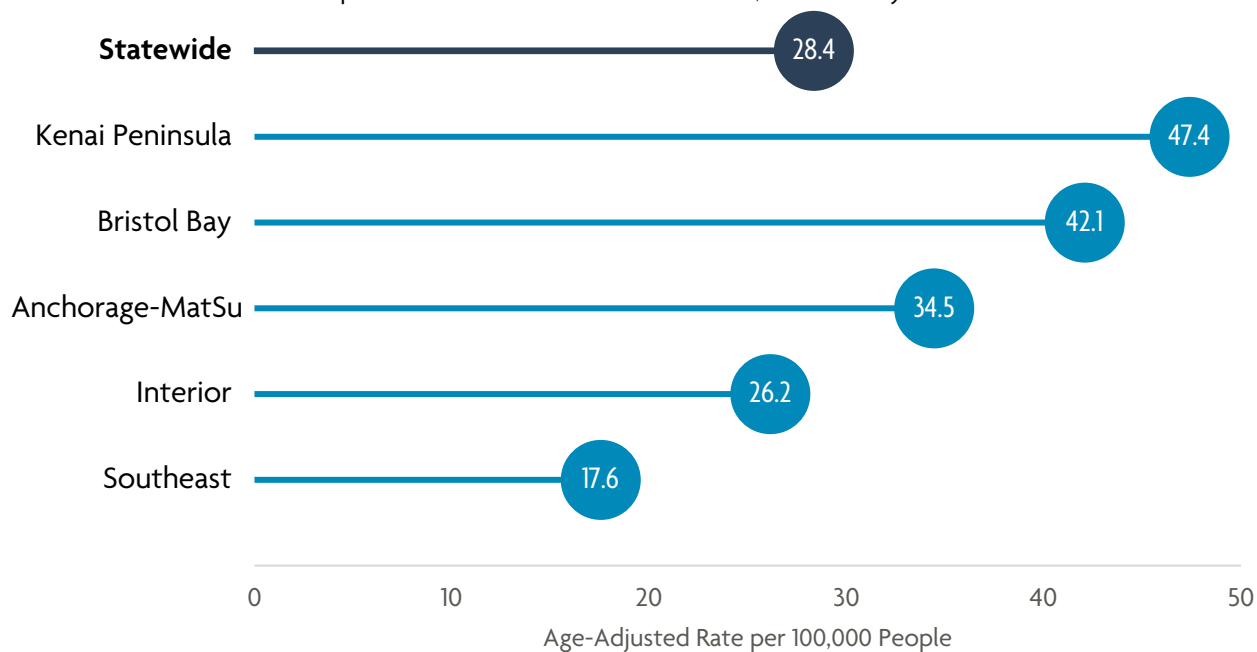


Figure 125c. Diabetes Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 126a. Alzheimer's Disease Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

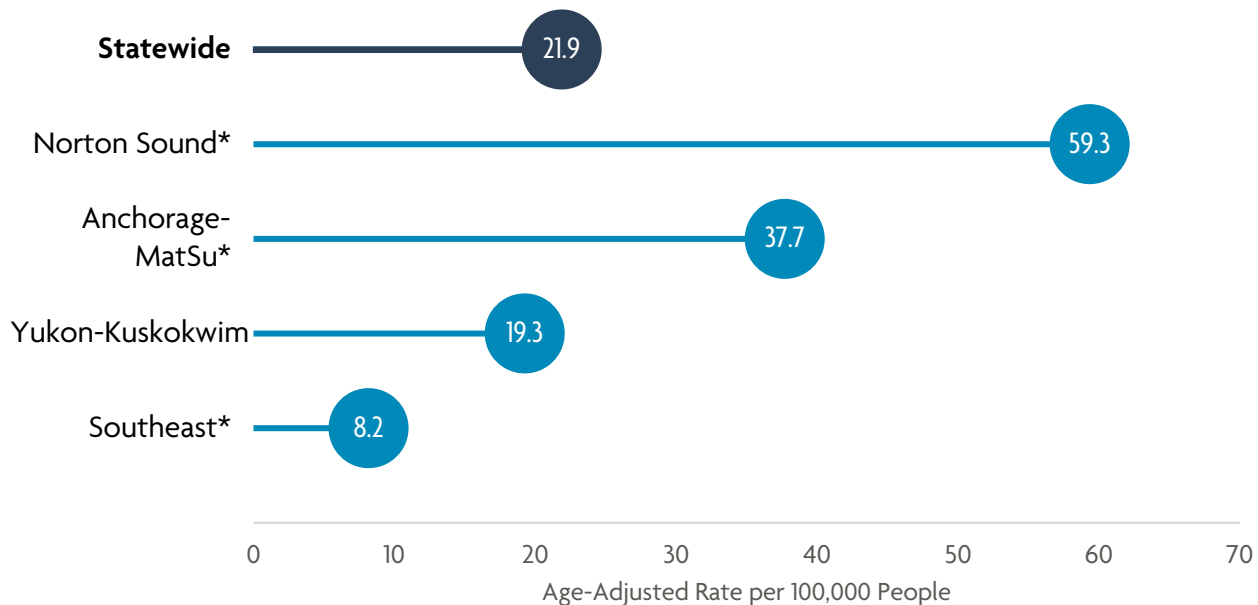
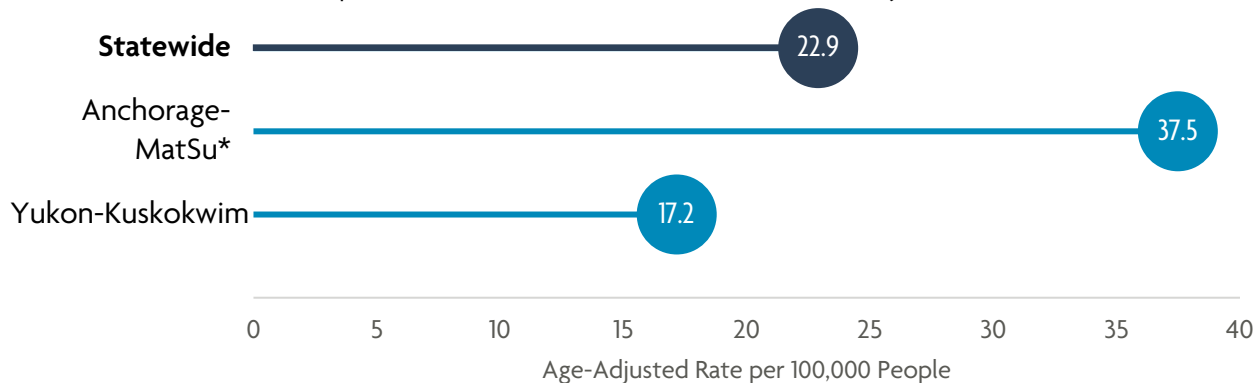


Figure 126b. Alzheimer's Disease Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 126c. Alzheimer’s Disease Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

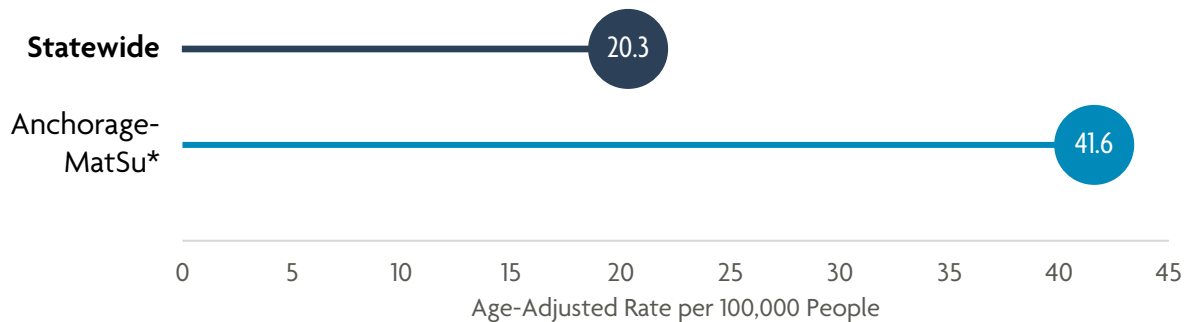
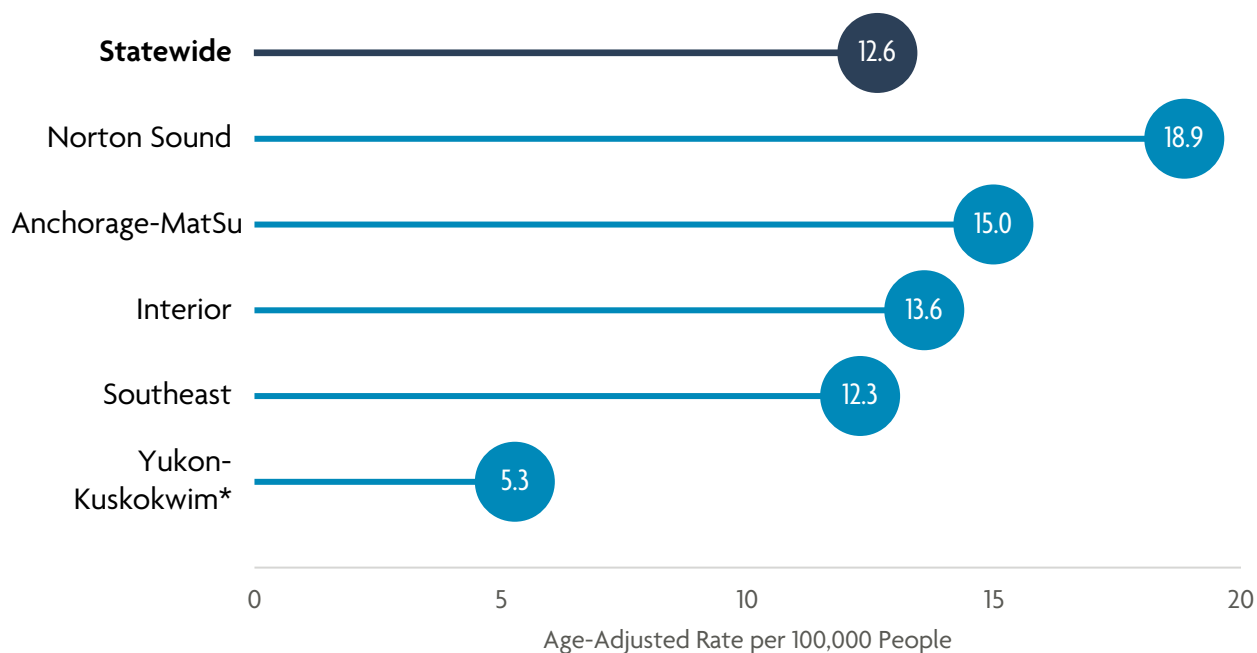


Figure 127a. Septicemia Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 127b. Septicemia Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

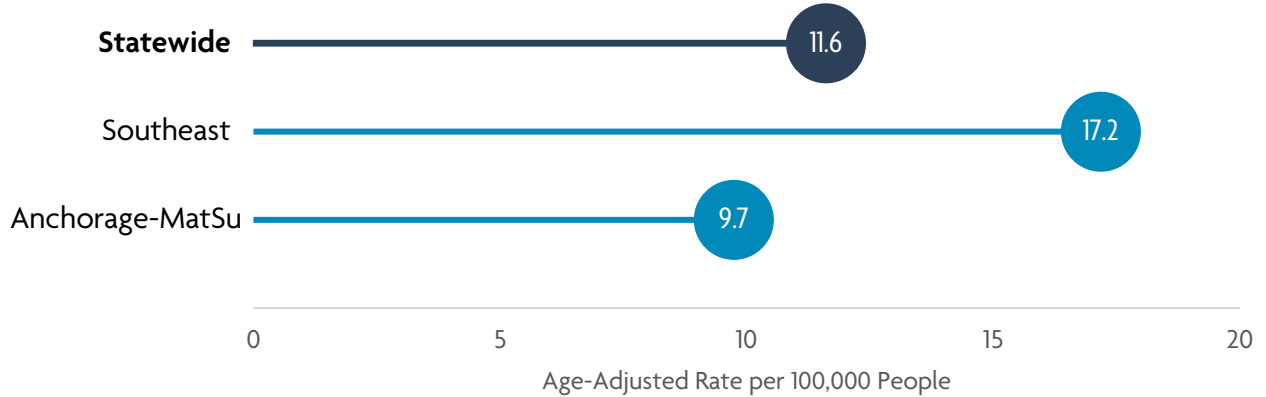
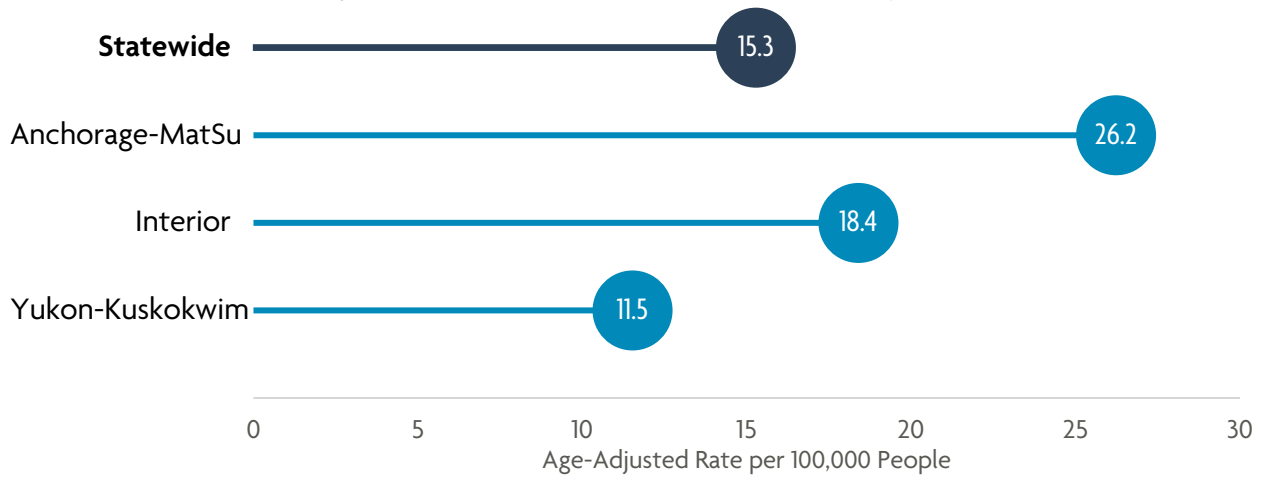


Figure 127c. Septicemia Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



**significant difference, $p < 0.05$*

MORTALITY RATES BY REGION

Figure 128a. Nephritis Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

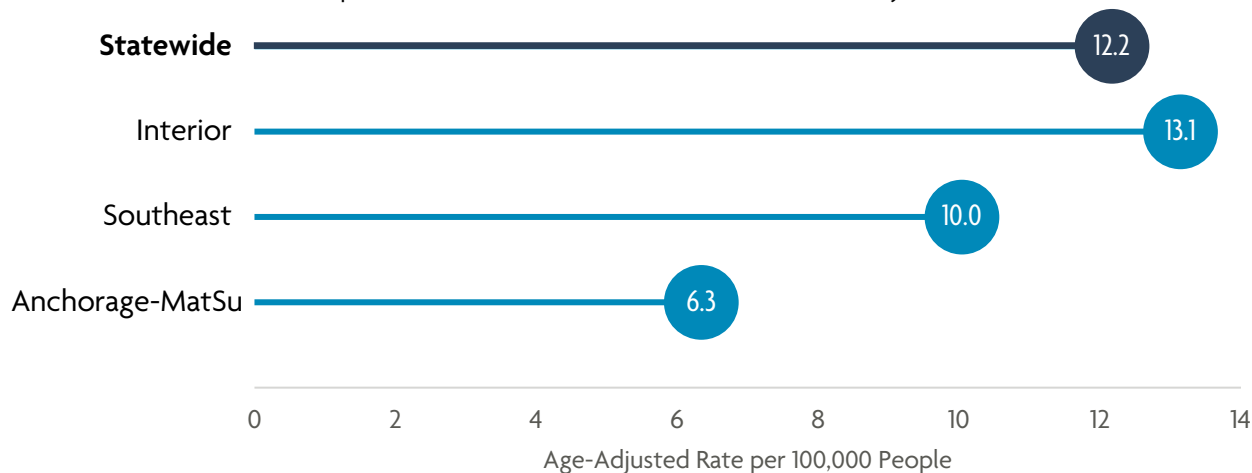


Figure 128b. Nephritis Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

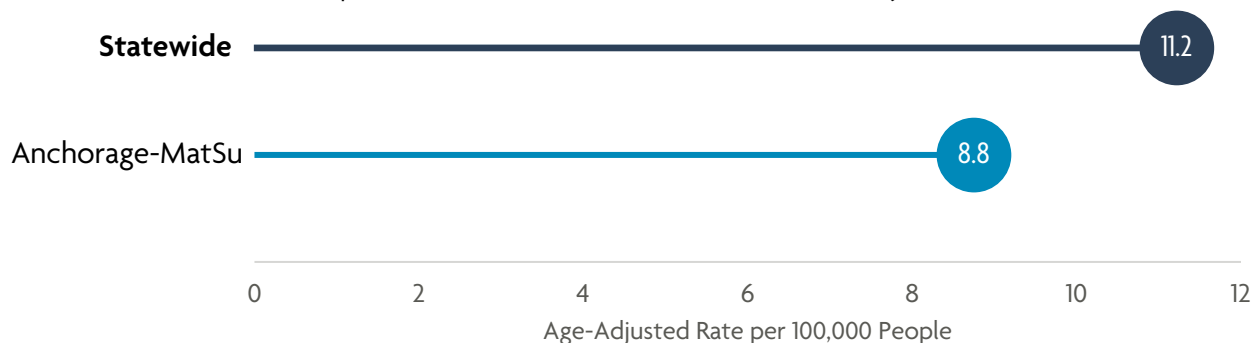
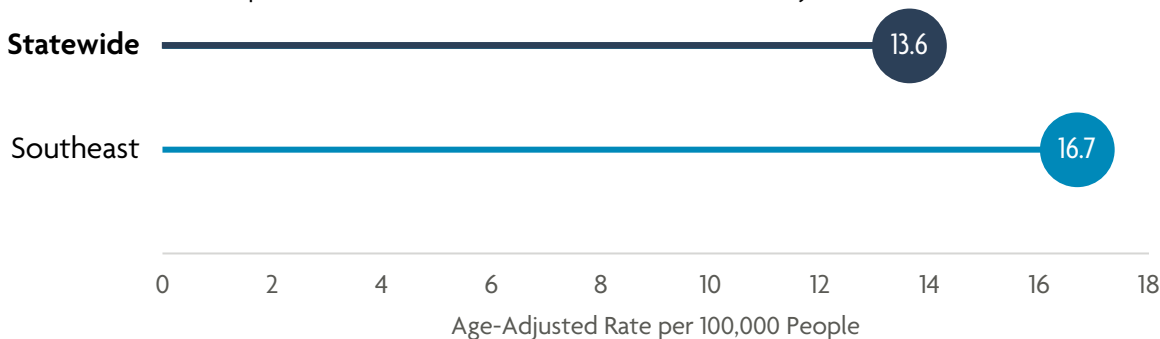


Figure 128c. Nephritis Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 129a. Hypertension Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

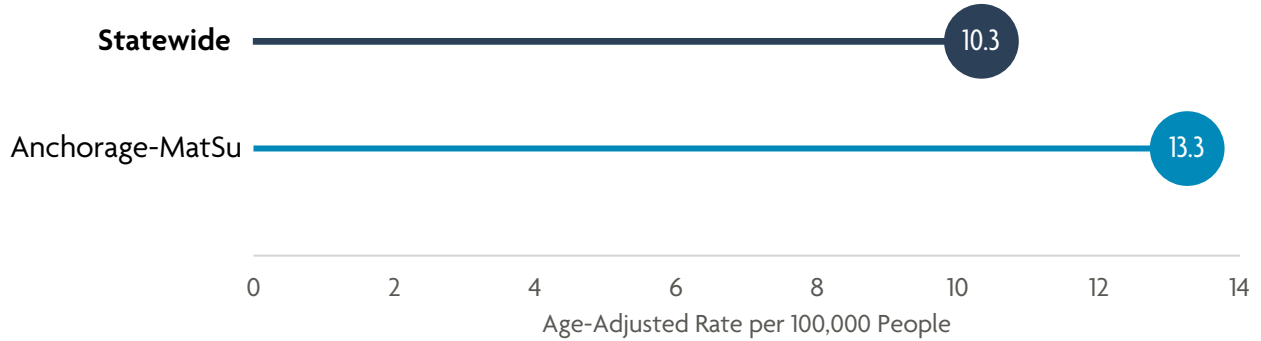


Figure 129b. Hypertension Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

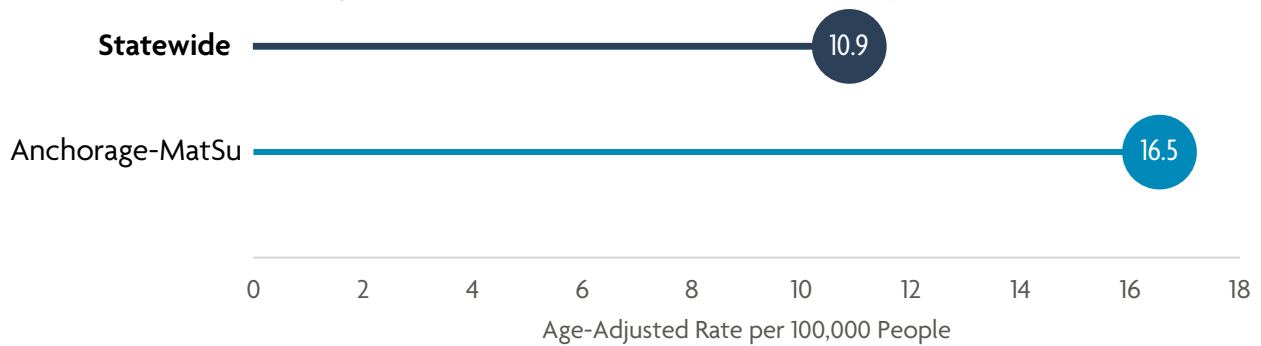
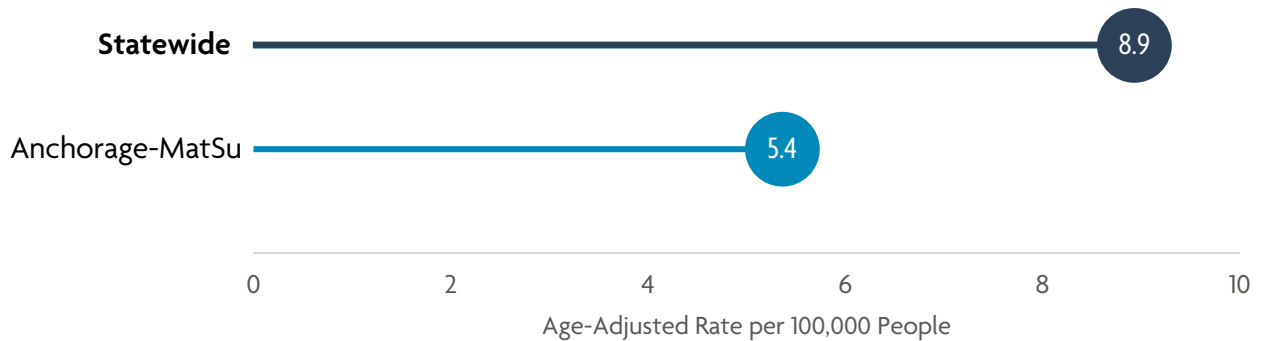


Figure 129c. Hypertension Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 130a. Congenital Malformation Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

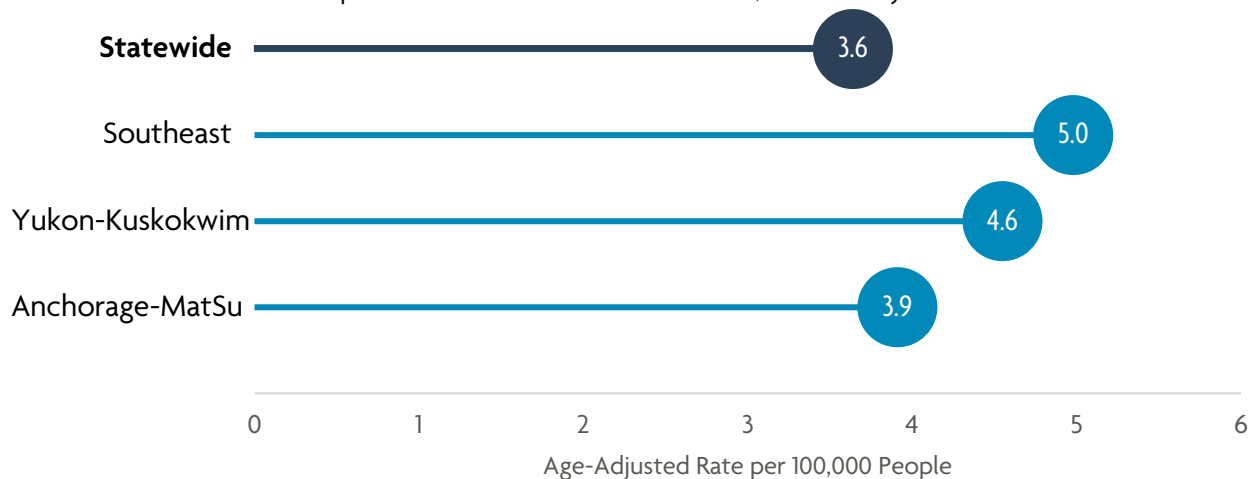


Figure 130b. Congenital Malformation Mortality Rates by Region, Alaska Native Females, 2014 – 2018 (no regions reportable)

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

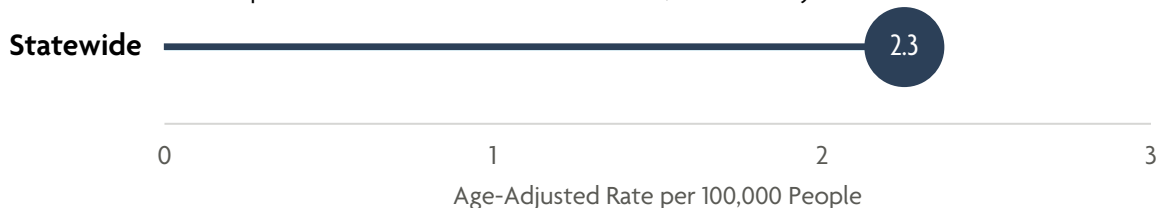
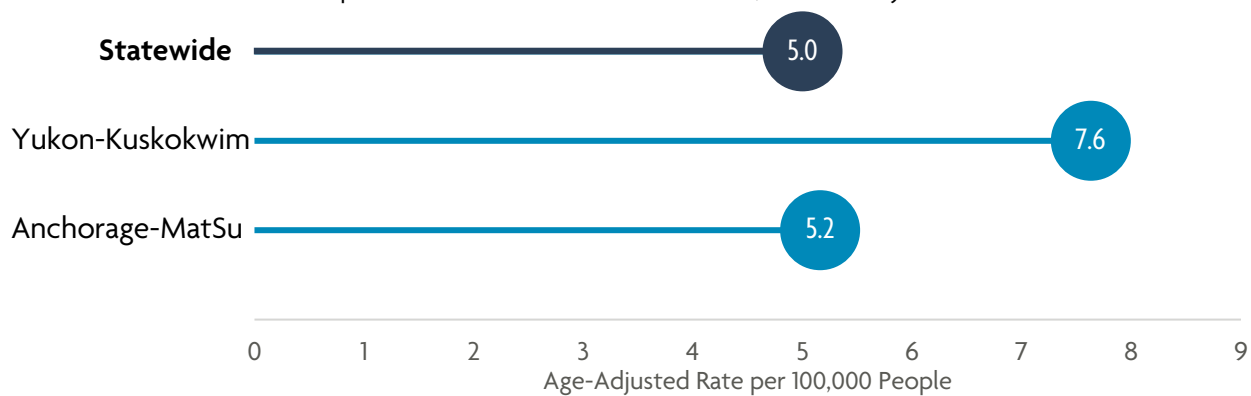


Figure 130c. Congenital Malformation Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 131a. Parkinson's Disease Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

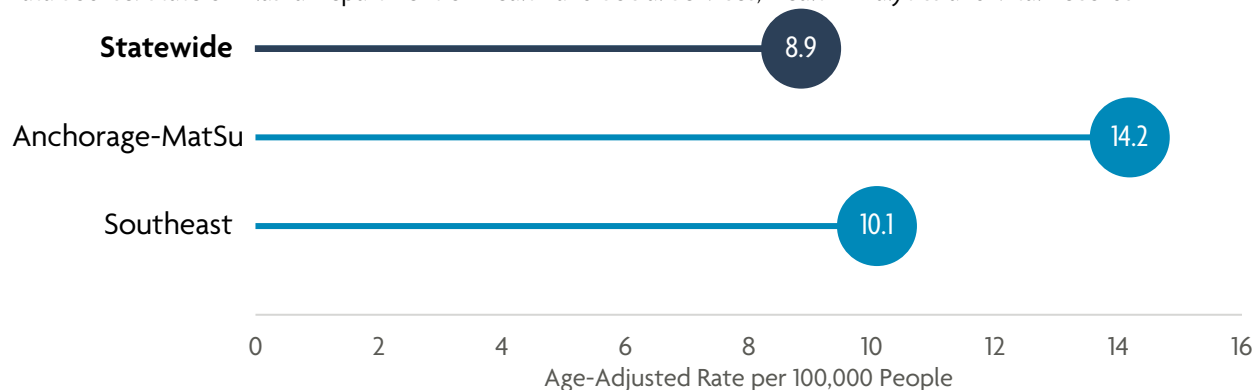


Figure 131b. Parkinson's Disease Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

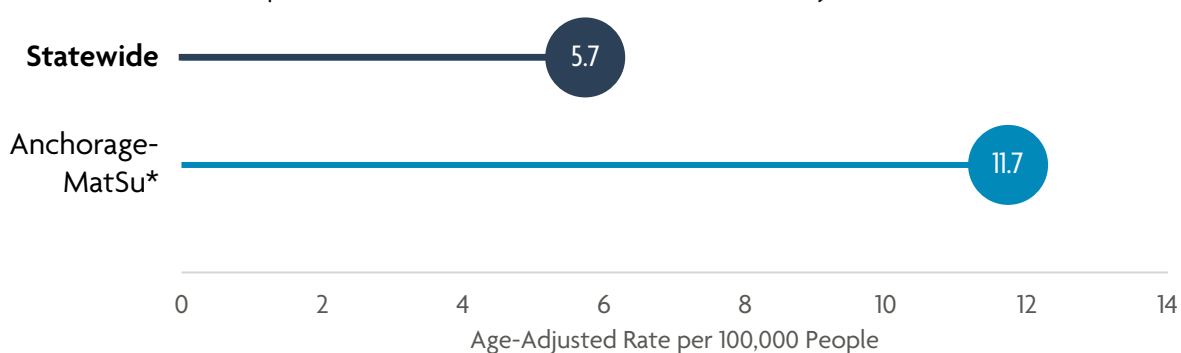
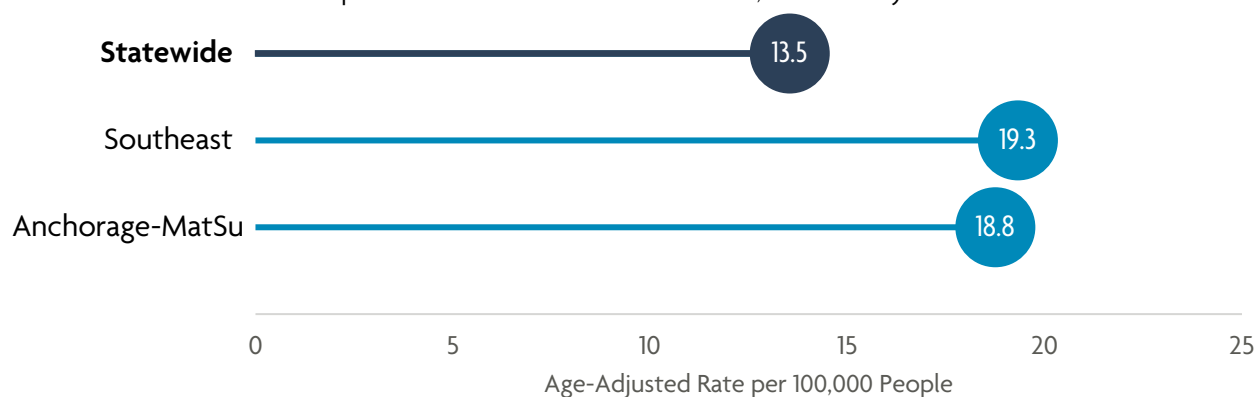


Figure 131c. Parkinson's Disease Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



*significant difference, $p < 0.05$

MORTALITY RATES BY REGION

Figure 132a. Perinatal Conditions Mortality Rates by Region, Alaska Native People, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

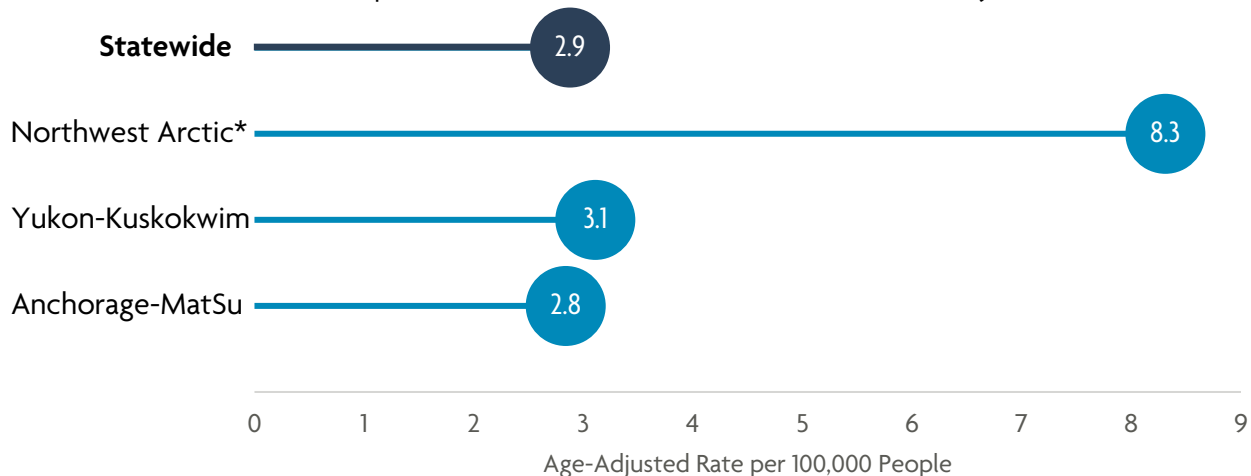


Figure 132b. Perinatal Conditions Mortality Rates by Region, Alaska Native Females, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records

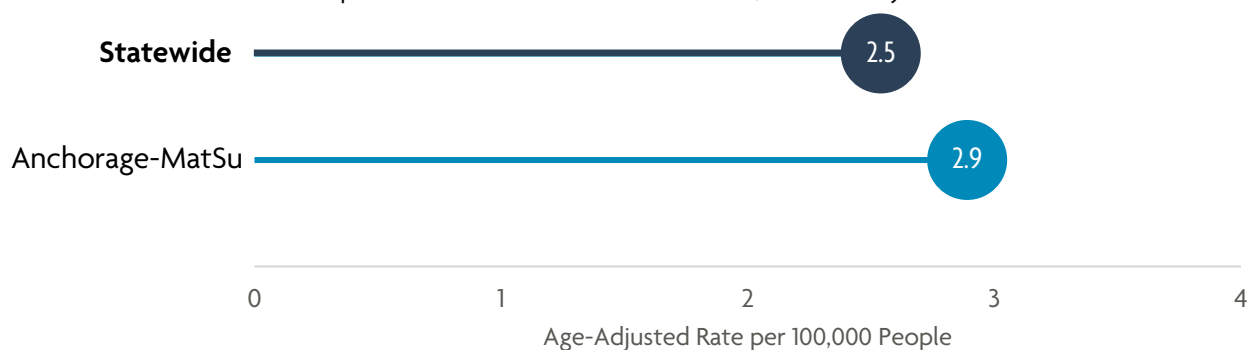
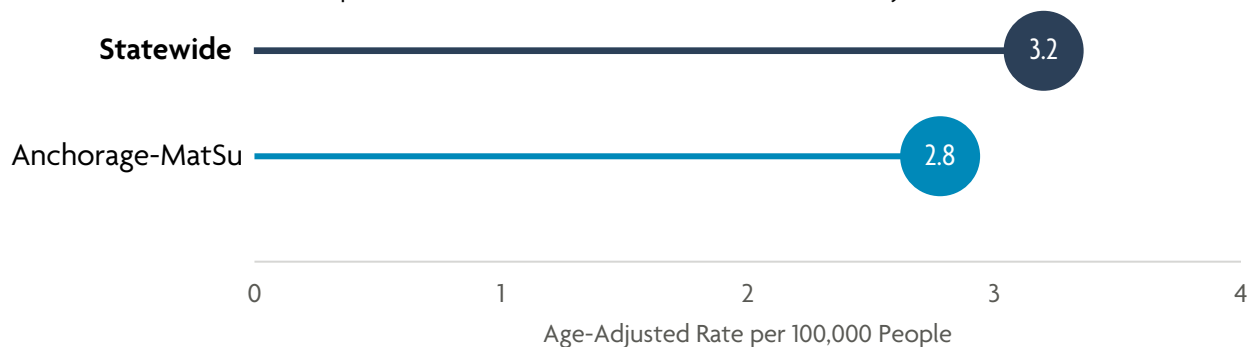


Figure 132c. Perinatal Conditions Mortality Rates by Region, Alaska Native Males, 2014-2018

Data Source: State of Alaska Department of Health and Social Services, Health Analytics and Vital Records



*significant difference, $p < 0.05$