

# 6

## Cancer Mortality Trends by Cause

### 6.1 Men and Women Combined

#### 6.1.1 All Malignant Cancers

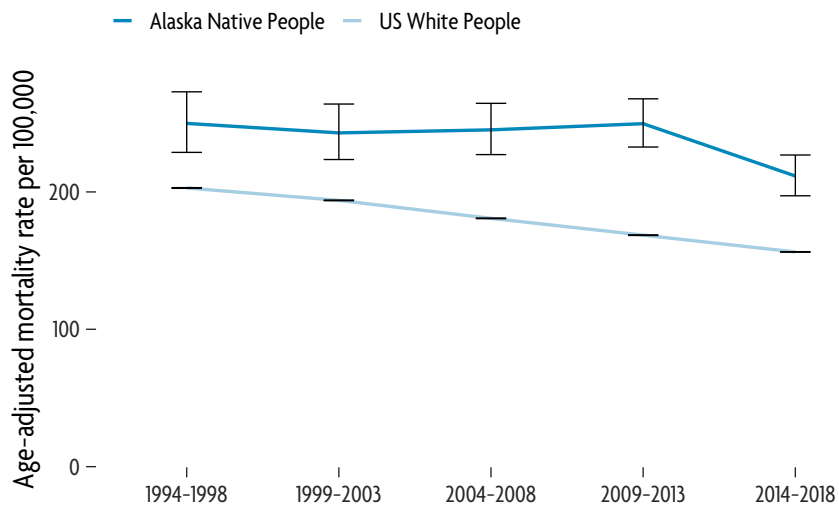


Figure 6.1: Comparison of trends in average annual age-adjusted cancer mortality rate, all malignant cancers, men and women, 1994–2018.

Table 6.1: Comparison of trends in average annual age-adjusted cancer mortality rate, all malignant cancers, men and women, 1994–2018.

	Alaska Native People			US White People		RR
	Count	Rate	95% CI	Rate	95% CI	
1994-1998	593	249.9	(228.8, 272.9)	202.9	(202.6, 203.1)	1.2
1999-2003	660	243.0	(223.6, 264.0)	193.9	(193.6, 194.1)	1.3
2004-2008	787	245.2	(227.2, 264.5)	180.8	(180.5, 181.0)	1.4
2009-2013	927	249.7	(232.7, 267.8)	168.5	(168.3, 168.7)	1.5
2014-2018	913	211.6	(197.2, 226.9)	156.3	(156.1, 156.5)	1.4

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.

6.1.2 Lung And Bronchus

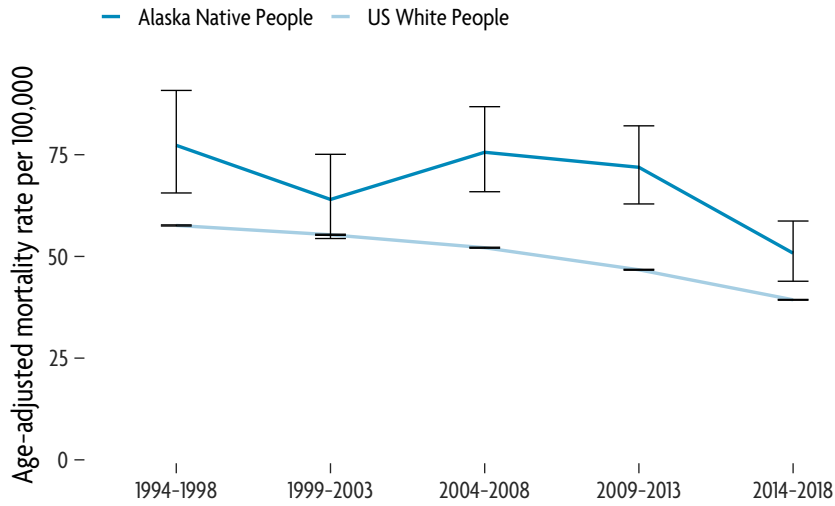


Figure 6.2: Comparison of trends in average annual age-adjusted cancer mortality rate, lung and bronchus, men and women, 1994–2018.

Table 6.2: Comparison of trends in average annual age-adjusted cancer mortality rate, lung and bronchus, men and women, 1994–2018.

	Alaska Native People			US White People		RR
	Count	Rate	95% CI	Rate	95% CI	
1994-1998	174	77.3	( 65.6, 90.8)	57.6	( 57.5, 57.8)	1.3
1999-2003	173	64.0	( 54.4, 75.1)	55.3	( 55.2, 55.5)	1.2
2004-2008	239	75.6	( 65.9, 86.8)	52.1	( 52.0, 52.3)	1.4
2009-2013	254	71.9	( 62.9, 82.1)	46.7	( 46.6, 46.8)	1.5
2014-2018	218	50.8	( 43.9, 58.7)	39.3	( 39.2, 39.4)	1.3

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.

6.1.3 Colon And Rectum

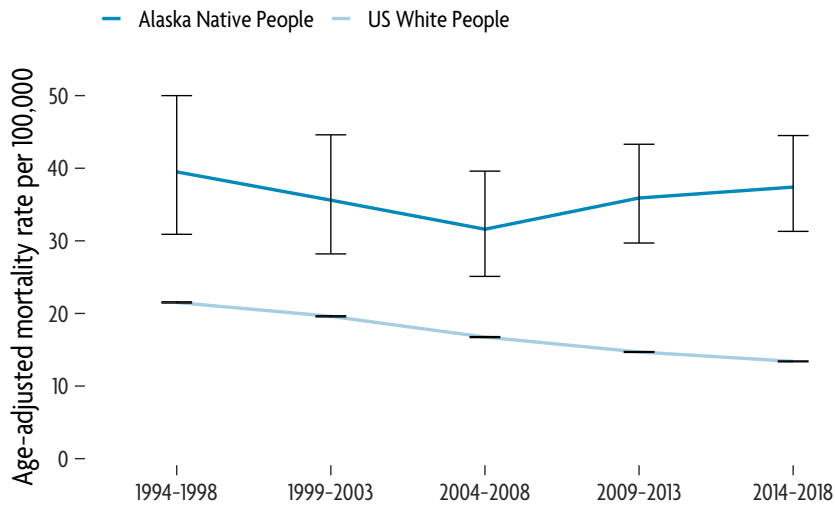


Figure 6.3: Comparison of trends in average annual age-adjusted cancer mortality rate, colon and rectum, men and women, 1994–2018.

Table 6.3: Comparison of trends in average annual age-adjusted cancer mortality rate, colon and rectum, men and women, 1994–2018.

	Alaska Native People			US White People		RR
	Count	Rate	95% CI	Rate	95% CI	
1994-1998	83	39.5	( 30.9, 50.0)	21.5	( 21.4, 21.6)	1.8
1999-2003	90	35.6	( 28.2, 44.6)	19.6	( 19.5, 19.7)	1.8
2004-2008	93	31.6	( 25.1, 39.6)	16.7	( 16.7, 16.8)	1.9
2009-2013	135	35.9	( 29.7, 43.3)	14.7	( 14.6, 14.8)	2.4
2014-2018	149	37.4	( 31.3, 44.5)	13.4	( 13.3, 13.5)	2.8

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.

6.1.4 Breast (Women)

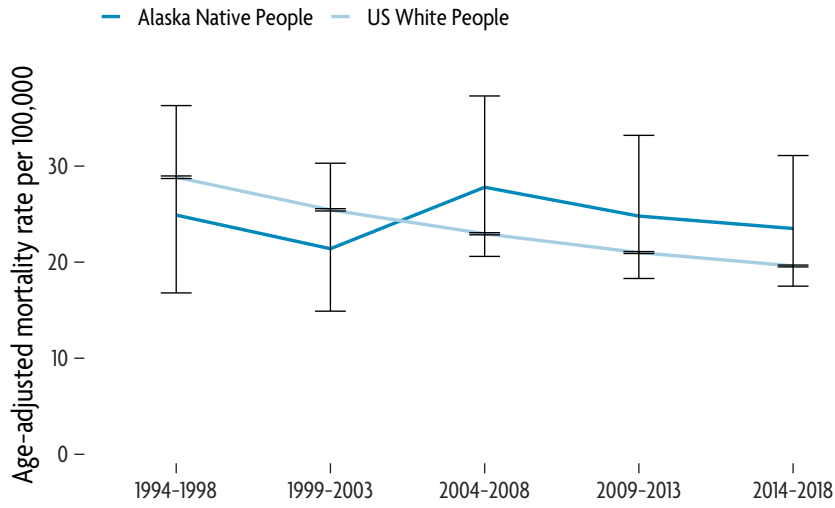


Figure 6.4: Comparison of trends in average annual age-adjusted cancer mortality rate, breast (women), men and women, 1994–2018.

Table 6.4: Comparison of trends in average annual age-adjusted cancer mortality rate, breast (women), women, 1994–2018.

	Alaska Native People			US White People		RR
	Count	Rate	95% CI	Rate	95% CI	
1994-1998	34	24.9	(16.8, 36.3)	28.8	(28.7, 29.0)	0.9
1999-2003	38	21.4	(14.9, 30.3)	25.4	(25.3, 25.6)	0.8
2004-2008	55	27.8	(20.6, 37.3)	23.0	(22.8, 23.1)	1.2
2009-2013	53	24.8	(18.3, 33.2)	21.0	(20.9, 21.1)	1.2
2014-2018	56	23.5	(17.5, 31.1)	19.6	(19.5, 19.7)	1.2

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.

6.1.5 Prostate (Men)

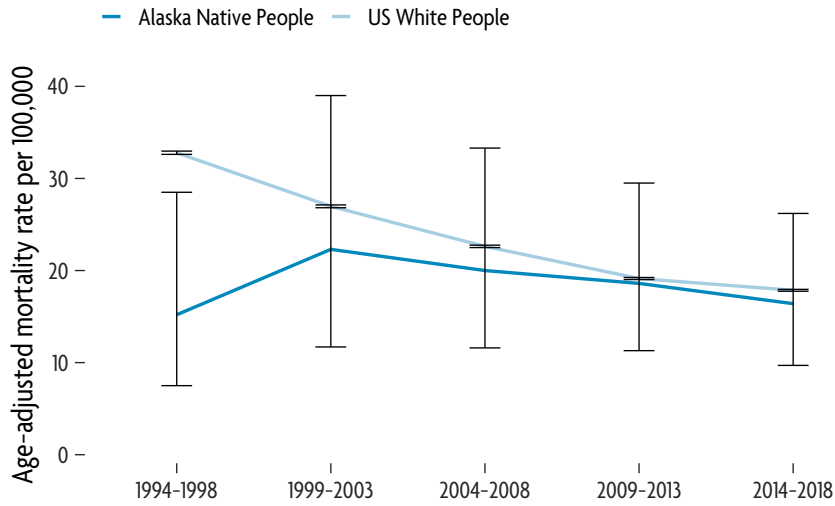


Figure 6.5: Comparison of trends in average annual age-adjusted cancer mortality rate, prostate (men), men and women, 1994–2018.

Table 6.5: Comparison of trends in average annual age-adjusted cancer mortality rate, prostate (men), men, 1994–2018.

	Alaska Native People			US White People		RR
	Count	Rate	95% CI	Rate	95% CI	
1994-1998	13	15.2	( 7.5, 28.5)	32.8	( 32.6, 33.0)	0.5
1999-2003	14	22.3	( 11.7, 39.0)	27.0	( 26.8, 27.1)	0.8
2004-2008	19	20.0	( 11.6, 33.3)	22.6	( 22.5, 22.8)	0.9
2009-2013	24	18.6	( 11.3, 29.5)	19.1	( 19.0, 19.2)	1.0
2014-2018	20	16.4	( 9.7, 26.2)	17.9	( 17.8, 18.0)	0.9

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.

6.1.6 Stomach

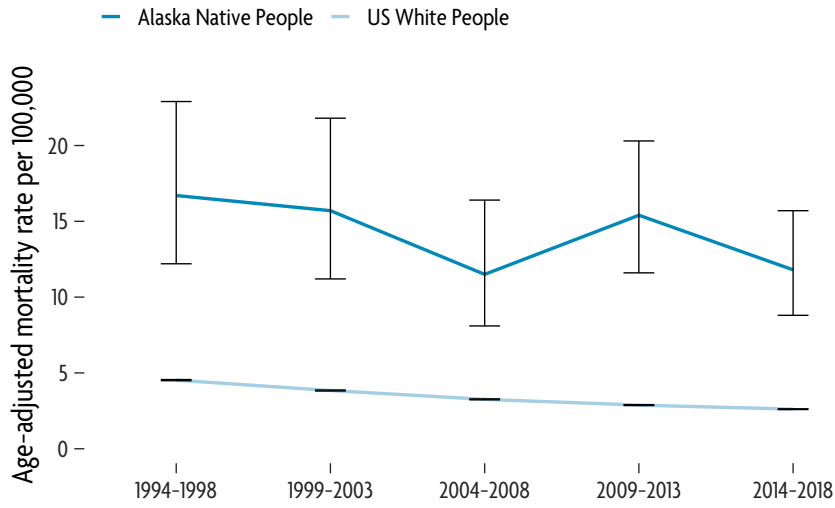


Figure 6.6: Comparison of trends in average annual age-adjusted cancer mortality rate, stomach, men and women, 1994–2018.

Table 6.6: Comparison of trends in average annual age-adjusted cancer mortality rate, stomach, men and women, 1994–2018.

	Alaska Native People			US White People		RR
	Count	Rate	95% CI	Rate	95% CI	
1994-1998	51	16.7	(12.2, 22.9)	4.5	(4.5, 4.6)	3.7
1999-2003	46	15.7	(11.2, 21.8)	3.8	(3.8, 3.9)	4.1
2004-2008	42	11.5	(8.1, 16.4)	3.3	(3.2, 3.3)	3.5
2009-2013	64	15.4	(11.6, 20.3)	2.9	(2.9, 2.9)	5.3
2014-2018	57	11.8	(8.8, 15.7)	2.6	(2.6, 2.6)	4.5

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.

6.2 Men Only

6.2.1 All Malignant Cancers

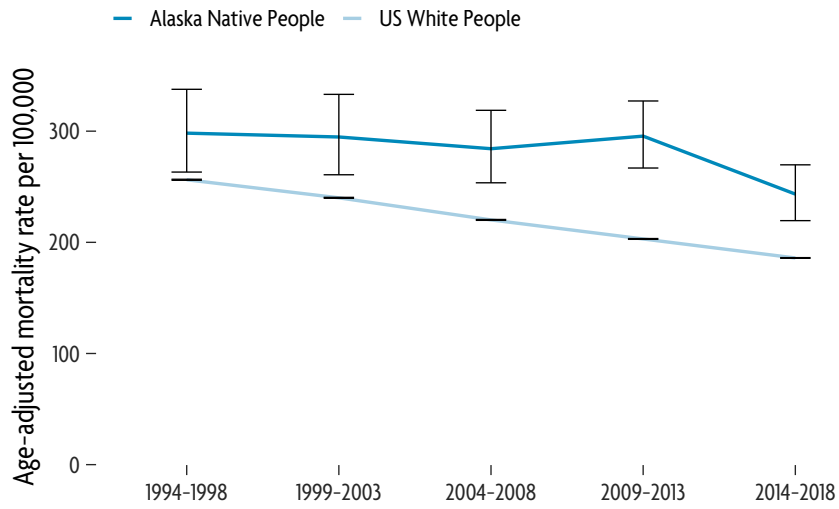


Figure 6.7: Comparison of trends in average annual age-adjusted cancer mortality rate, all malignant cancers, men, 1994–2018.



Table 6.7: Comparison of trends in average annual age-adjusted cancer mortality rate, all malignant cancers, men and women, 1994–2018.

	Alaska Native People			US White People		RR
	Count	Rate	95% CI	Rate	95% CI	
1994-1998	321	298.2	(263.2, 337.7)	256.3	(255.8, 256.7)	1.2
1999-2003	349	294.8	(260.8, 333.1)	240.0	(239.6, 240.5)	1.2
2004-2008	402	284.2	(253.6, 318.8)	220.2	(219.8, 220.6)	1.3
2009-2013	485	295.5	(266.9, 327.2)	203.0	(202.7, 203.4)	1.5
2014-2018	469	243.4	(219.5, 269.7)	185.9	(185.6, 186.2)	1.3

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.

6.2.2 Lung And Bronchus

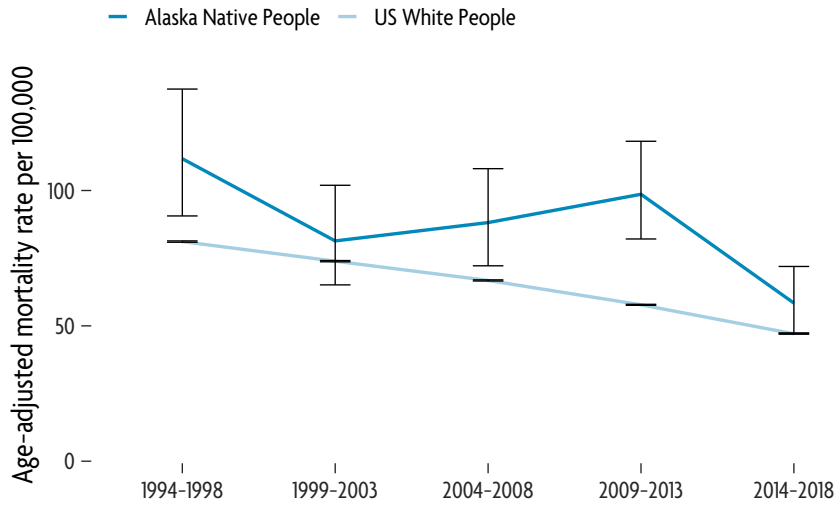


Figure 6.8: Comparison of trends in average annual age-adjusted cancer mortality rate, lung and bronchus, men, 1994–2018.

Table 6.8: Comparison of trends in average annual age-adjusted cancer mortality rate, lung and bronchus, men and women, 1994–2018.

	Alaska Native People			US White People		RR
	Count	Rate	95% CI	Rate	95% CI	
1994-1998	114	111.7	( 90.6, 137.5)	81.1	( 80.9, 81.4)	1.4
1999-2003	103	81.4	( 65.1, 101.9)	73.9	( 73.7, 74.1)	1.1
2004-2008	128	88.2	( 72.2, 108.1)	66.8	( 66.6, 67.0)	1.3
2009-2013	151	98.6	( 82.1, 118.2)	57.8	( 57.6, 58.0)	1.7
2014-2018	115	58.4	( 47.4, 71.9)	47.1	( 46.9, 47.2)	1.2

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.

6.2.3 Colon And Rectum

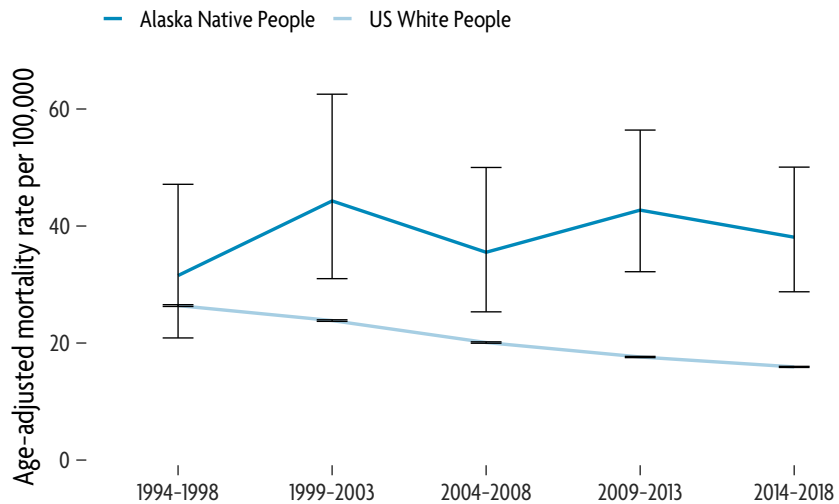


Figure 6.9: Comparison of trends in average annual age-adjusted cancer mortality rate, colon and rectum, men, 1994–2018.

Table 6.9: Comparison of trends in average annual age-adjusted cancer mortality rate, colon and rectum, men and women, 1994–2018.

	Alaska Native People			US White People		RR
	Count	Rate	95% CI	Rate	95% CI	
1994-1998	33	31.5	( 20.9, 47.1)	26.4	( 26.3, 26.6)	1.2
1999-2003	47	44.3	( 31.0, 62.5)	23.8	( 23.7, 24.0)	1.9
2004-2008	49	35.5	( 25.3, 50.0)	20.1	( 20.0, 20.2)	1.8
2009-2013	70	42.7	( 32.2, 56.4)	17.6	( 17.5, 17.7)	2.4
2014-2018	70	38.1	( 28.8, 50.1)	15.9	( 15.8, 16.0)	2.4

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.

6.2.4 Stomach

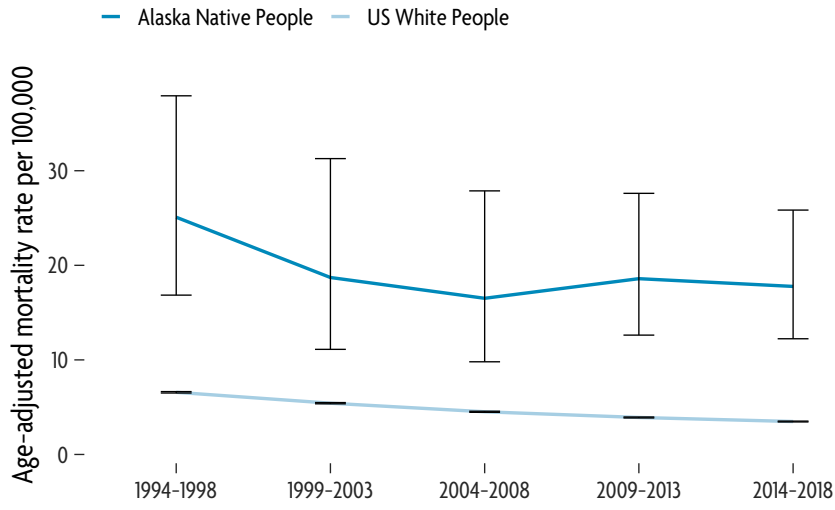


Figure 6.10: Comparison of trends in average annual age-adjusted cancer mortality rate, stomach, men, 1994–2018.

Table 6.10: Comparison of trends in average annual age-adjusted cancer mortality rate, stomach, men and women, 1994–2018.

	Alaska Native People			US White People		RR
	Count	Rate	95% CI	Rate	95% CI	
1994-1998	35	25.1	(16.8, 37.9)	6.6	(6.5, 6.6)	3.8
1999-2003	23	18.7	(11.1, 31.3)	5.4	(5.4, 5.5)	3.5
2004-2008	26	16.5	(9.8, 27.9)	4.5	(4.5, 4.6)	3.7
2009-2013	38	18.6	(12.6, 27.6)	3.9	(3.9, 4.0)	4.8
2014-2018	39	17.8	(12.2, 25.8)	3.5	(3.4, 3.5)	5.1

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.

6.2.5 Prostate (Men)

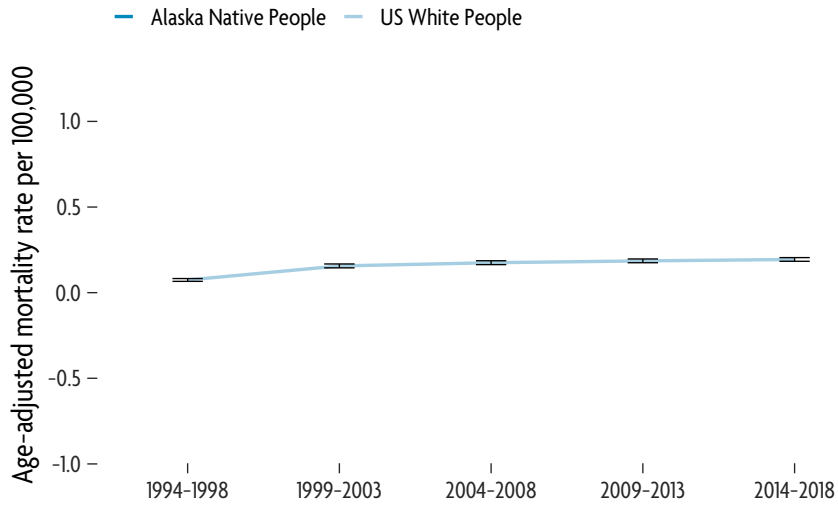


Figure 6.11: Comparison of trends in average annual age-adjusted cancer mortality rate, prostate (men), men, 1994–2018.

Table 6.11: Comparison of trends in average annual age-adjusted cancer mortality rate, prostate (men), men, 1994–2018.

	Alaska Native People			US White People		
	Count	Rate	95% CI	Rate	95% CI	RR
1994-1998	NA	NA	(-, -)	0.1	(0.1, 0.1)	-
1999-2003	NA	NA	(-, -)	0.2	(0.1, 0.2)	-
2004-2008	NA	NA	(-, -)	0.2	(0.2, 0.2)	-
2009-2013	NA	NA	(-, -)	0.2	(0.2, 0.2)	-
2014-2018	NA	NA	(-, -)	0.2	(0.2, 0.2)	-

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.

6.2.6 Pancreas

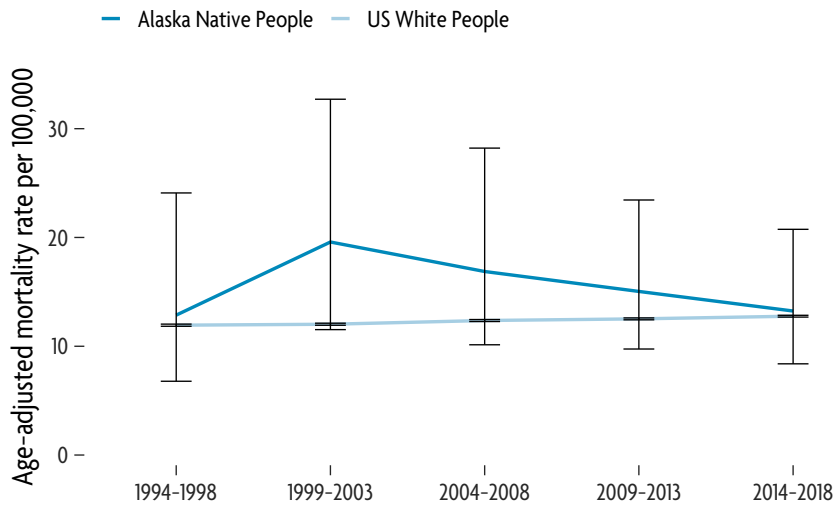


Figure 6.12: Comparison of trends in average annual age-adjusted cancer mortality rate, pancreas, men, 1994–2018.

Table 6.12: Comparison of trends in average annual age-adjusted cancer mortality rate, pancreas, men and women, 1994–2018.

	Alaska Native People			US White People		RR
	Count	Rate	95% CI	Rate	95% CI	
1994-1998	15	12.9	( 6.8, 24.1)	11.9	( 11.8, 12.0)	1.1
1999-2003	23	19.6	( 11.5, 32.7)	12.0	( 11.9, 12.1)	1.6
2004-2008	24	16.9	( 10.1, 28.2)	12.4	( 12.3, 12.5)	1.4
2009-2013	29	15.0	( 9.7, 23.4)	12.5	( 12.4, 12.6)	1.2
2014-2018	28	13.2	( 8.4, 20.7)	12.8	( 12.7, 12.8)	1.0

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.

6.3 Women Only

6.3.1 All Malignant Cancers

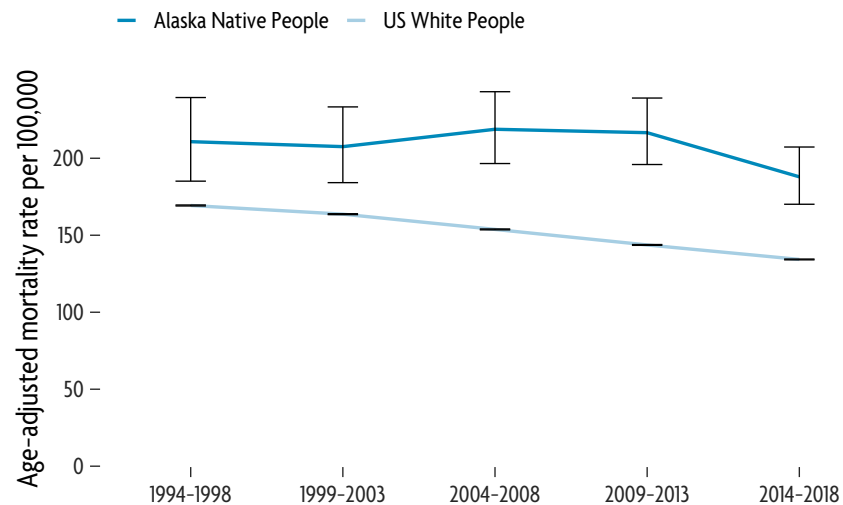


Figure 6.13: Comparison of trends in average annual age-adjusted cancer mortality rate, all malignant cancers, women, 1994–2018.

Table 6.13: Comparison of trends in average annual age-adjusted cancer mortality rate, all malignant cancers, men and women, 1994–2018.

	Alaska Native People			US White People		RR
	Count	Rate	95% CI	Rate	95% CI	
1994-1998	272	210.8	(185.1, 239.4)	169.3	(169.0, 169.6)	1.2
1999-2003	311	207.5	(184.2, 233.4)	163.7	(163.4, 164.0)	1.3
2004-2008	385	218.8	(196.6, 243.2)	153.8	(153.5, 154.1)	1.4
2009-2013	442	216.6	(195.9, 239.1)	143.7	(143.4, 144.0)	1.5
2014-2018	444	187.9	(170.1, 207.3)	134.3	(134.0, 134.5)	1.4

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.



6.3.2 Lung And Bronchus

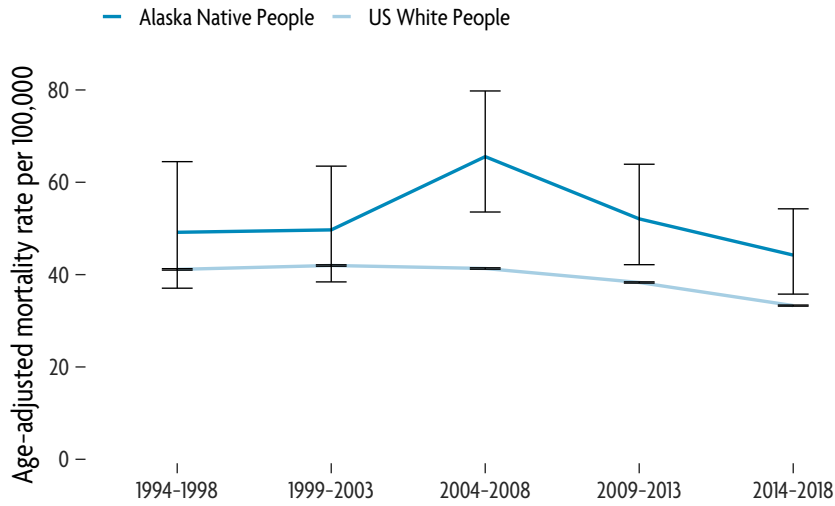


Figure 6.14: Comparison of trends in average annual age-adjusted cancer mortality rate, lung and bronchus, women, 1994–2018.

Table 6.14: Comparison of trends in average annual age-adjusted cancer mortality rate, lung and bronchus, men and women, 1994–2018.

	Alaska Native People			US White People		RR
	Count	Rate	95% CI	Rate	95% CI	
1994-1998	60	49.2	( 37.1, 64.5)	41.1	( 41.0, 41.3)	1.2
1999-2003	70	49.7	( 38.4, 63.5)	42.0	( 41.8, 42.1)	1.2
2004-2008	111	65.6	( 53.6, 79.8)	41.3	( 41.2, 41.5)	1.6
2009-2013	103	52.1	( 42.2, 63.9)	38.3	( 38.2, 38.4)	1.4
2014-2018	103	44.2	( 35.8, 54.2)	33.3	( 33.2, 33.4)	1.3

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.

6.3.3 Colon And Rectum

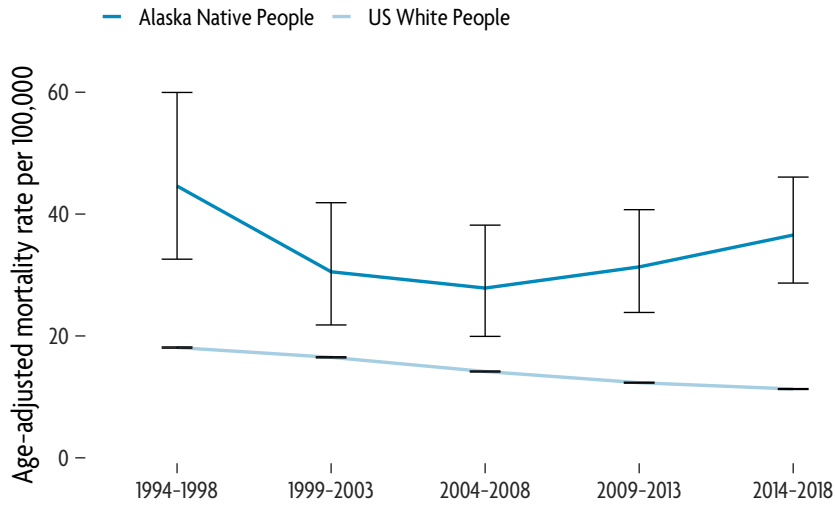


Figure 6.15: Comparison of trends in average annual age-adjusted cancer mortality rate, colon and rectum, women, 1994–2018.

Table 6.15: Comparison of trends in average annual age-adjusted cancer mortality rate, colon and rectum, men and women, 1994–2018.

	Alaska Native People			US White People		
	Count	Rate	95% CI	Rate	95% CI	RR
1994-1998	50	44.6	(32.6, 60.0)	18.1	(18.0, 18.2)	2.5
1999-2003	43	30.5	(21.8, 41.9)	16.5	(16.4, 16.6)	1.9
2004-2008	44	27.9	(19.9, 38.2)	14.2	(14.1, 14.2)	2.0
2009-2013	65	31.3	(23.9, 40.7)	12.3	(12.3, 12.4)	2.5
2014-2018	79	36.6	(28.7, 46.1)	11.3	(11.2, 11.4)	3.2

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.

6.3.4 Breast (Women)

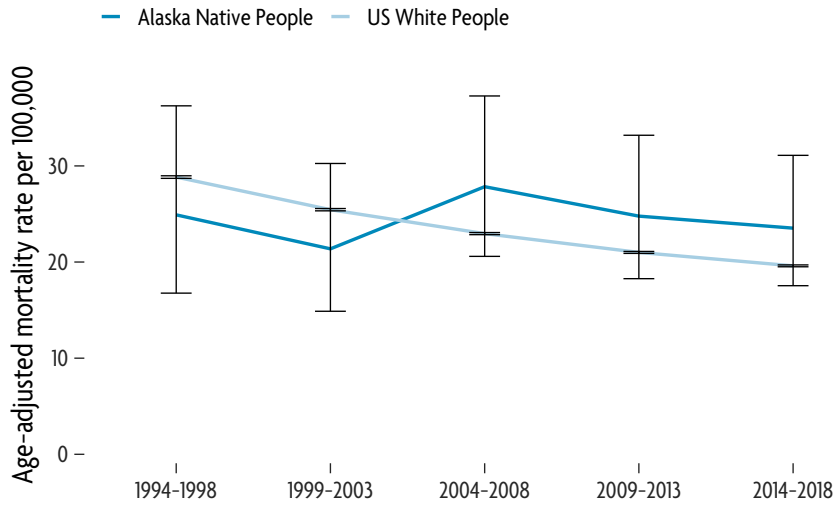


Figure 6.16: Comparison of trends in average annual age-adjusted cancer mortality rate, breast (women), women, 1994–2018.

Table 6.16: Comparison of trends in average annual age-adjusted cancer mortality rate, breast (women), women, 1994–2018.

	Alaska Native People			US White People		
	Count	Rate	95% CI	Rate	95% CI	RR
1994-1998	34	24.9	(16.8, 36.3)	28.8	(28.7, 29.0)	0.9
1999-2003	38	21.4	(14.9, 30.3)	25.4	(25.3, 25.6)	0.8
2004-2008	55	27.8	(20.6, 37.3)	23.0	(22.8, 23.1)	1.2
2009-2013	53	24.8	(18.3, 33.2)	21.0	(20.9, 21.1)	1.2
2014-2018	56	23.5	(17.5, 31.1)	19.6	(19.5, 19.7)	1.2

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.

6.3.5 Pancreas

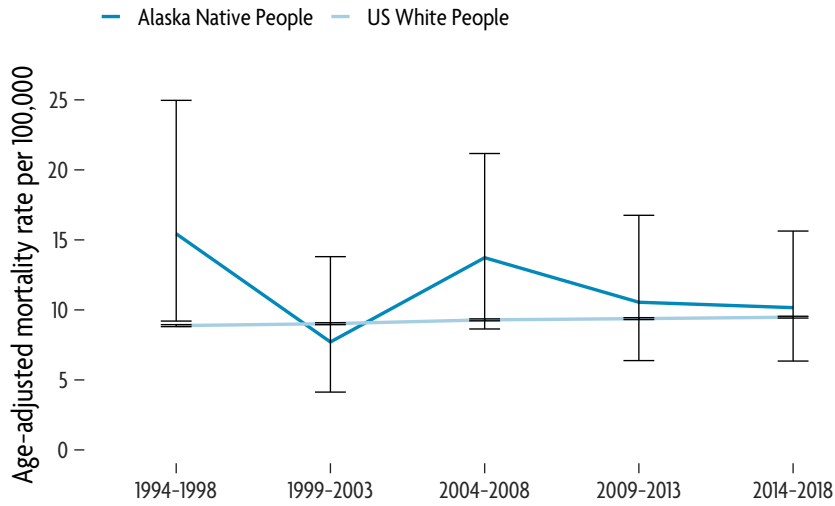


Figure 6.17: Comparison of trends in average annual age-adjusted cancer mortality rate, pancreas, women, 1994–2018.

Table 6.17: Comparison of trends in average annual age-adjusted cancer mortality rate, pancreas, men and women, 1994–2018.

	Alaska Native People			US White People		RR
	Count	Rate	95% CI	Rate	95% CI	
1994-1998	20	15.4	( 9.2, 25.0)	8.9	( 8.8, 8.9)	1.7
1999-2003	14	7.7	( 4.1, 13.8)	9.0	( 8.9, 9.1)	0.9
2004-2008	24	13.7	( 8.6, 21.2)	9.3	( 9.2, 9.4)	1.5
2009-2013	22	10.5	( 6.4, 16.8)	9.4	( 9.3, 9.4)	1.1
2014-2018	24	10.2	( 6.3, 15.6)	9.5	( 9.4, 9.5)	1.1

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.

6.3.6 Stomach

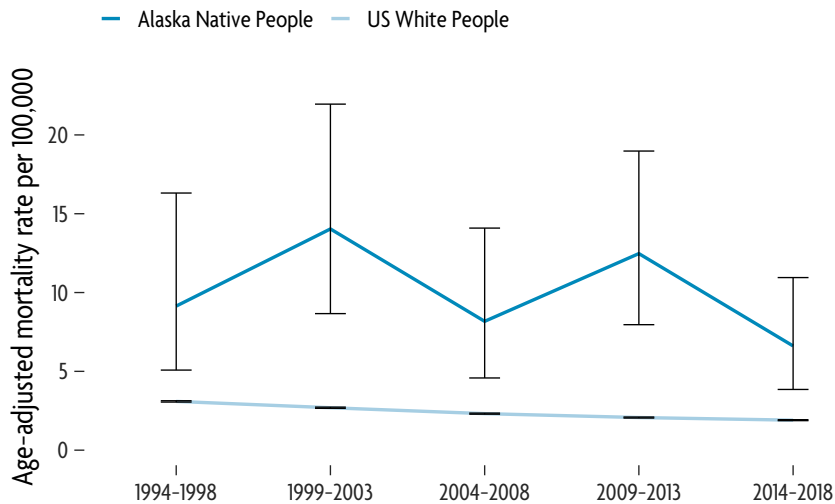


Figure 6.18: Comparison of trends in average annual age-adjusted cancer mortality rate, stomach, women, 1994–2018.

Table 6.18: Comparison of trends in average annual age-adjusted cancer mortality rate, stomach, men and women, 1994–2018.

	Alaska Native People			US White People		RR
	Count	Rate	95% CI	Rate	95% CI	
1994-1998	16	9.1	( 5.1, 16.3)	3.1	( 3.1, 3.1)	3.0
1999-2003	23	14.0	( 8.7, 22.0)	2.7	( 2.7, 2.7)	5.2
2004-2008	16	8.2	( 4.6, 14.1)	2.3	( 2.3, 2.4)	3.5
2009-2013	26	12.5	( 8.0, 19.0)	2.1	( 2.0, 2.1)	6.0
2014-2018	18	6.6	( 3.9, 10.9)	1.9	( 1.9, 1.9)	3.5

Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) standard.