



Florida Death Rate Trends by Race and Age, 1998 – 2018

Description

Death rates in Florida have generally decreased in the decades since 1998. Table 1 shows that the age adjusted death rates (AADR) decreased from 1998 to 2008 in every race and gender category. This is also shown in Graphs 1 and 2. In the period 2008 to 2018, most of the AADRs also decreased but not as much as in the 1998 to 2008 period. The one category that did not decrease from 2008 to 2018 was the white female category.

The black to white rate ratio decreased substantially for males and females from 1998 to 2018. As shown in Table 1, the black to white AADR ratio for males was 1.43 in 1998. This decreased to 1.13 in 2018. This means the black male AADR was 43% higher than the white male AADR in 1998, and this decreased to 13% in 2018. For females, the black AADR was 41% higher (black:white ratio of 1.41) than the white female AADR in 1998, and this decreased to 14% in 2018.

Table 1

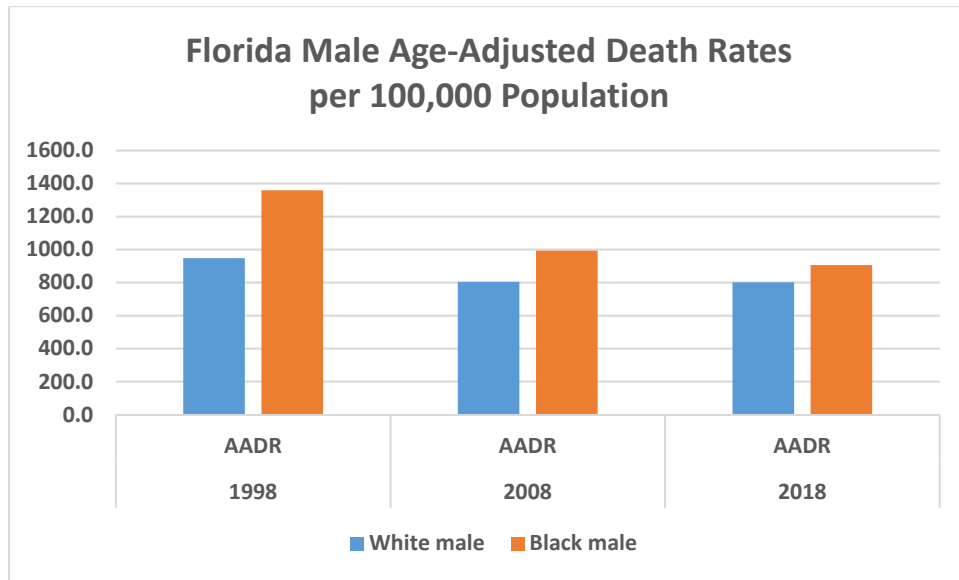
Age Adjusted Death Rates (AADR) by Race and Gender

	1998 AADR	2008 AADR	2018 AADR	Percent Change 1998-2008	Percent Change 2008-2018
White Male	947.8	804.4	801.1	-15.1%	-0.4%
Black Male	1358.1	992.9	906.2	-26.9%	-8.7%
Black:White Ratio	1.43	1.23	1.13	-13.9%	-8.4%
White Female	638.5	552.0	558.3	-13.5%	1.1%
Black Female	900.5	682.4	637.5	-24.2%	-6.6%
Black:White Ratio	1.41	1.24	1.14	-12.3%	-7.6%

Source: Florida Department of Health Florida, Bureau of Vital Statistics and FLHealthCHARTS.com (<http://www.flhealthcharts.com/charts/Default.aspx>)

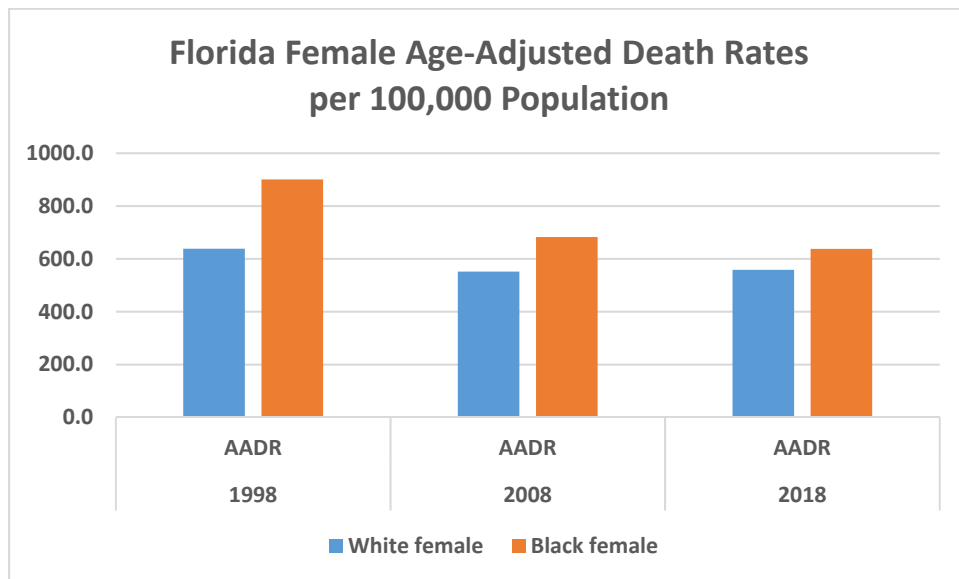
Florida Death Rate Trends by Race and Age, 1998 – 2018

Graph 1



Source: Florida Department of Health Florida, Bureau of Vital Statistics and FLHealthCHARTS.com (<http://www.flhealthcharts.com/charts/Default.aspx>)

Graph 2



Source: Florida Department of Health Florida, Bureau of Vital Statistics and FLHealthCHARTS.com (<http://www.flhealthcharts.com/charts/Default.aspx>)

Florida Death Rate Trends by Race and Age, 1998 – 2018

Table 2 is similar to table 1, but the death rates in table 2 are not age adjusted. In striking contrast to Table 1, the black death rates in table 2 are lower than the white death rates. This is mainly due to a generally younger black population compared to the white population. Death rates increase with age, and age-adjusting (Table 1) adjusts for differences in the age distribution of the population. Age-adjusted death rates can be compared independently of the effects of the age distribution. Table 3 shows that in 2018, while 49.7% of the white population was age 0 to 44, 65.9% of the black population was age 0 to 44. This illustrates that the black population is generally younger than the white population.

Table 2

Un-Adjusted (Crude) Death Rates by Race and Gender

	1998 Crude Death Rate	2008 Crude Death Rate	2018 Crude Death Rate	Percent Change 1998-2008	Percent Change 2008-2018
White Male	1159.9	1073.1	1175.7	-7.5%	9.6%
Black Male	762.3	661.5	714.9	-13.2%	8.1%
Black:White Ratio	0.66	0.62	0.61	-6.2%	-1.4%
White Female	1057.7	962.3	1015.3	-9.0%	5.5%
Black Female	647.1	553.2	607.6	-14.5%	9.8%
Black:White Ratio	0.61	0.57	0.60	-6.0%	4.1%

Source: Florida Department of Health Florida, Bureau of Vital Statistics and FLHealthCHARTS.com (<http://www.flhealthcharts.com/charts/Default.aspx>)

Table 3

Population Distribution by Age

	Percentage White Pop. 2018	Percentage Black Pop. 2018
Percent Age 0 - 44	49.7%	65.9%
Percent Age 45+	50.3%	34.1%

Source: Florida Legislature, Office of Economic and Demographic Research and FLHealthCHARTS.com (<http://www.flhealthcharts.com/charts/Default.aspx>)

Florida Death Rate Trends by Race and Age, 1998 – 2018

Table 4 shows death rates by age group for three years: 1998, 2008 and 2018. For most age groups the rates in 2018 were lower than the rates in 1998. The exception was age group 25 to 34 where the rates in 2018 were higher than the rates in 1998. The rates in age group 20 to 24 were virtually the same for 1998 and 2008; and for all other age groups, the rates were substantially lower in 2018 compared to 1998.

Table 4 Florida Un-Adjusted Death Rates by Age and Year

Age	Death Rate per 100,000 Population			Percent	Percent
	1998	2008	2018	Change 1998-2008	Change 2008-2018
<1	728.8	722.7	615.7	-0.8%	-14.8%
1-19	37.4	30.6	25.5	-18.3%	-16.8%
20-24	99.0	120.6	100.4	21.9%	-16.8%
25-34	124.4	128.0	142.9	2.9%	11.7%
35-44	234.9	207.8	212.8	-11.6%	2.4%
45-54	461.8	474.8	398.3	2.8%	-16.1%
55-64	995.2	869.2	927.8	-12.7%	6.7%
65-74	2116.4	1752.3	1672.6	-17.2%	-4.6%
75-84	4871.2	4011.2	3864.6	-17.7%	-3.7%
85+	14027.5	10790.4	11908.1	-23.1%	10.4%
Total	1026.1	914.6	980.3	-10.9%	7.2%

Source: Florida Department of Health Florida, Bureau of Vital Statistics and FLHealthCHARTS.com (<http://www.flhealthcharts.com/charts/Default.aspx>)

Florida Death Rate Trends by Race and Age, 1998 – 2018

Tables 5 and 6 show the black to white crude (un-adjusted) death rate ratios for males (Table 5) and females (Table 6), by age category. In both tables the highest rate ratios are in the age < 1 (infants) category. In general, the rate ratios decreased consistently across the two decades in the 20 to 85+ age groups for females and in the 35 to 85+ age groups for males. In contrast, the rate ratios increased in the age < 1 (infants) category for males and females. The rate ratios fluctuated up and down in the male age 1 to 34 category and in the female age 1 to 9 category.

Table 5

Ratio of Black to White Crude Death Rates by Age for Males

Age	Male	Male	Male	Male
	Black:White Rate Ratio	Black:White Rate Ratio	Black:White Rate Ratio	Black:White Rate Ratio
	1998	2008	2018	Total
<1	2.18	2.40	2.73	2.41
1-19	1.50	1.81	1.58	1.63
20-24	1.74	1.24	1.47	1.43
25-34	1.93	1.22	1.26	1.41
35-44	1.70	1.26	1.16	1.35
45-54	1.77	1.23	1.10	1.30
55-64	1.68	1.31	1.18	1.32
65-74	1.50	1.35	1.25	1.32
75-84	1.41	1.25	1.12	1.20
85+	1.06	0.99	0.93	0.98
Total	0.66	0.62	0.61	0.62

Source: Florida Department of Health Florida, Bureau of Vital Statistics and CHARTS (<http://www.flhealthcharts.com/charts/Default.aspx>)

Florida Death Rate Trends by Race and Age, 1998 – 2018

Table 6

Ratio of Black to White Crude Death Rates by Age for Females

Age	Female	Female	Female	Female
	Black:White Rate Ratio	Black:White Rate Ratio	Black:White Rate Ratio	Black:White Rate Ratio
	1998	2008	2018	Total
<1	2.09	2.38	2.49	2.31
1-19	1.66	1.21	1.34	1.41
20-24	1.85	1.32	1.22	1.41
25-34	2.38	1.74	0.96	1.52
35-44	2.54	1.55	1.14	1.67
45-54	1.95	1.49	1.44	1.57
55-64	1.85	1.40	1.33	1.45
65-74	1.58	1.35	1.32	1.37
75-84	1.35	1.19	1.14	1.19
85+	0.95	0.98	0.90	0.94
Total	0.61	0.57	0.60	0.59

Source: Florida Department of Health Florida, Bureau of Vital Statistics and CHARTS (<http://www.flhealthcharts.com/charts/Default.aspx>)

Discussion

Age-adjusted death rates in Florida decreased substantially during the period 1998 to 2018. This is also true within age groups, except for the 25 to 34 age group, where the rates for 2018 were higher than the rates in 1998. The black to white age-adjusted rate ratios also decreased during that time. However, the pattern is different for some age groups. Notably, the < 1 (infants) age group had the highest rate ratios, and these increased from 1998 to 2008 and from 2008 to 2018.