FLHealthCHARTS.com Statistical Brief

Trends in Florida Cervical Cancer Cases and Deaths 2005 – 2014

Description

In 2005 there were 910 cervical cancer cases reported to the Florida Cancer Registry. In the period 2005 through 2014 the number of cases reached a low of 857 in 2010 and a high of 959 in 2011. In 2014 there were 918 cervical cancer cases reported. (Table 1)

In 2005 there were 292 cervical cancer deaths in Florida. In the period 2005 through 2014, the deaths reached a low of 262 in 2007 and a high of 349 in 2013. There were 331 cervical cancer deaths in 2014. (Table 1)

The age adjusted case rates (AKA incidence rates) and age adjusted death rates per 100,000 female population are not affected by changes in the population or changes in the age distribution of the population. In 2005 the age adjusted cervical cancer incidence rate (AAIR) was 9.5 per 100,000 female population. This decreased to 8.5 in 2014. The annual percent change for the AAIR from 2005 to 2014 is -1.21 with a 95% confidence interval of -2.14 to -0.09. since zero is not included in the confidence interval, this indicates a statistically significant decreasing trend. (Table 1 and Graph 1)

The trend for cervical cancer death rates is different from the trend for incidence rates. The Florida age adjusted death rates (AADR) for cervical cancer remained relatively constant for 2005 through 2014. The lowest AADR was 2.4 per 100,000 female population in 2007 and the highest AADR was 2.9 in 2012 and 2013. The 2014 AADR was the same as the 2005 AADR, 2.8. The annual percent change for the Florida AADR was 0.79 with a 95% confidence interval of -0.74 to 2.35. The 95% confidence interval includes zero so the trend for the Florida AADR is essentially flat. (Table 1 and Graph 2)

Table 2 and Graphs 1 and 2 show the U.S. and Florida AADRs and AAIRs. The AAIRs for Florida are consistently higher than the U.S. AAIRs for the period 2005 through 2014. The AADRs show a different pattern. In the years 2005 through 2009 the Florida AADR was close to the U.S. AADR. In the years 2010 through 2014 the Florida AADR remained relatively unchanged while the U.S. AADR decreased. This resulted in an increasing gap between the Florida and U.S. AADRs for 2010 through 2014.

Discussion

In Florida and the U.S. there has been a statistically significant decreasing trend in cervical cancer age adjusted incidence rates for the years 2005 through 2014. This is also true for the age adjusted death rate for the U.S. but the trend is flat for Florida age adjusted death rate. This is reflected in the increasing gap between the U.S. and Florida death rates on Graph 2.

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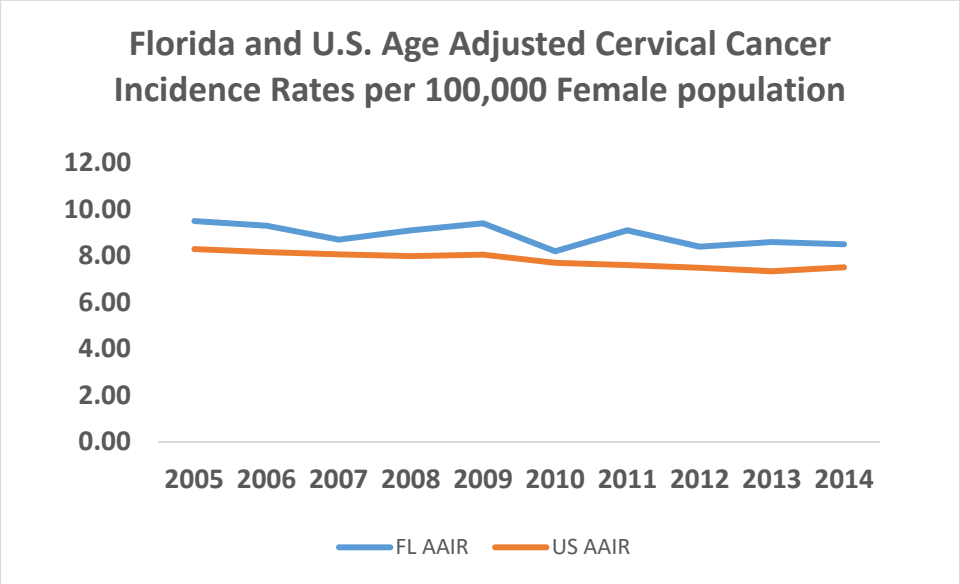
2005 – 2014

Table 1

Florida Cervical Cancer Cases Deaths and Age Adjusted Incidence and Death Rates					
Year	Cervical Cancer Cases	Cervical Cancer Deaths	Age Adjusted Incidence Rates	Age Adjusted Death Rates	
2005	910	292	9.5	2.8	
2006	907	303	9.3	2.8	
2007	880	262	8.7	2.4	
2008	907	297	9.1	2.7	
2009	941	277	9.4	2.5	
2010	857	312	8.2	2.8	
2011	959	321	9.1	2.7	
2012	888	337	8.4	2.9	
2013	914	349	8.6	2.9	
2014	918	331	8.5	2.8	
Annual Percent Change	0.15	2.29	-1.21	0.79	
95% Confidence Lower Limit	-0.70	0.70	-2.14	-0.74	
95% Confidence Upper Limit	1.01	3.90	-0.09	2.35	

Graph 1



Graph 2

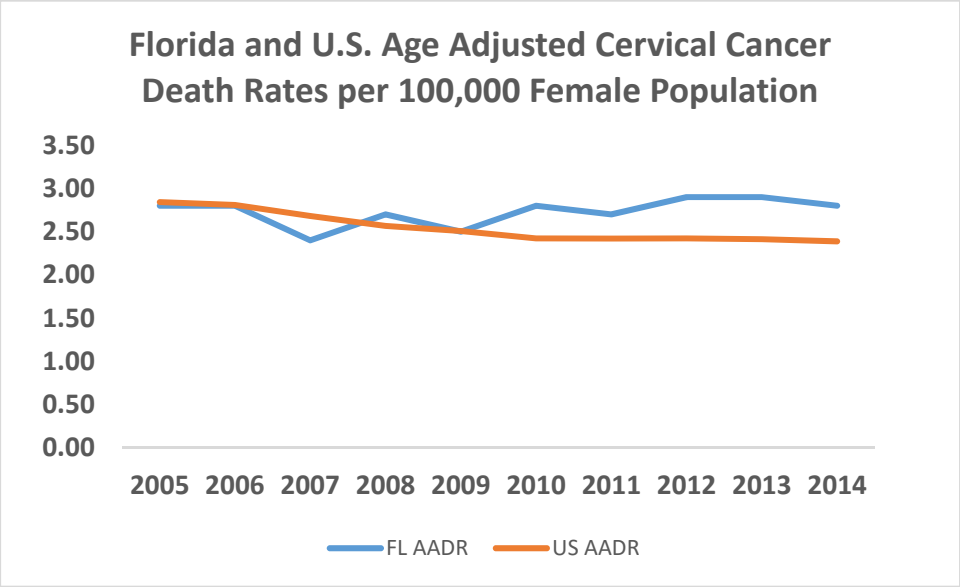


Table 2

Florida and U.S. Cervical Cancer Age Adjusted Incidence and Death Rates				
Year	Florida Age Adjusted Incidence Rates	U.S. Age Adjusted Incidence Rates	Florida Age Adjusted Death Rates	U.S. Age Adjusted Death Rates
2005	9.5	8.3	2.8	2.8
2006	9.3	8.2	2.8	2.8
2007	8.7	8.1	2.4	2.7
2008	9.1	8.0	2.7	2.6
2009	9.4	8.1	2.5	2.5
2010	8.2	7.7	2.8	2.4
2011	9.1	7.6	2.7	2.4
2012	8.4	7.5	2.9	2.4
2013	8.6	7.3	2.9	2.4
2014	8.5	7.5	2.8	2.4
Annual Percent Change	-1.21	-1.33	0.79	-2.01
95% Confidence Lower Limit	-2.14	-1.66	-0.74	-2.65
95% Confidence Upper Limit	-0.09	-0.99	2.35	-1.37