

Supplementary Table 1. Joinpoint analysis of annual trends in KS incidence rates.

Cohort - # Joinpoints	Joinpoint Segment	Lower Endpoint Year	Upper Endpoint Year	APC	Lower 95% CI	Upper 95% CI	AAPC	Lower 95% CI	Upper 95% CI	Lower Endpoint Year	Upper Endpoint Year
<u>U.S. nationwide</u>											
<u>Age-Group</u>											
20-54 years old - 3 Joinpoints	1	2000	2002	-4.3	-8.5	0.1	-3.1*	-4.1	-2.1	2000	2014
20-54 years old - 3 Joinpoints	2	2002	2007	-1.4	-2.9	0.1					
20-54 years old - 3 Joinpoints	3	2007	2010	-6.3*	-10.9	-1.5					
20-54 years old - 3 Joinpoints	4	2010	2014	-2.1*	-3.8	-0.5					
20-29 years old - 0 Joinpoints	1	2000	2014	2.7*	1.2	4.1	2.7*	1.2	4.1	2000	2014
30-44 years old - 0 Joinpoints	1	2000	2014	-5.4*	-6.1	-4.6	-5.4*	-6.1	-4.6	2000	2014
45-54 years old - 0 Joinpoints	1	2000	2014	-0.03	-0.63	0.59	-0.03	-0.63	0.59	2000	2014
<u>Race/Ethnic Group^</u>											
Non-Hispanic White - 1 Joinpoint	1	2000	2008	-2.6*	-3.3	-1.8	-4.2*	-4.9	-3.5	2000	2014
Non-Hispanic White - 1 Joinpoint	2	2008	2014	-6.3*	-7.7	-4.9					
Hispanic - 0 Joinpoints	1	2000	2014	-5.1*	-6.4	-3.8	-5.1*	-6.4	-3.8	2000	2014
Black or African American - 0 Joinpoints	1	2000	2014	-3.3*	-3.8	-2.8	-3.3*	-3.8	-2.8	2000	2014
<u>Race/Ethnic^ and Age-Group</u>											
NH-White / 20-29 years old - 0 Joinpoints	1	2000	2014	-0.9	-4.2	2.5	-0.9	-4.2	2.5	2000	2014
NH-White / 30-44 years old - 1 Joinpoint	1	2000	2006	-2.5*	-4.9	-0.1	-6.6*	-7.9	-5.2	2000	2014
NH-White / 30-44 years old - 1 Joinpoint	2	2006	2014	-9.5*	-11.5	-7.5					
NH-White / 45-54 years old - 0 Joinpoints	1	2000	2014	0.3	-0.4	1.1	0.3	-0.4	1.1	2000	2014
Hispanic-White / 20-29 years old - 0 Joinpoints	1	2000	2014	0.3	-2.6	3.4	0.3	-2.6	3.4	2000	2014
Hispanic-White / 30-44 years old - 0 Joinpoints	1	2000	2014	-2.5	-5.1	0.2	-2.5	-5.1	0.2	2000	2014
Hispanic-White / 45-54 years old - 0 Joinpoints	1	2000	2014	-2.5	-5.1	0.2	-2.5	-5.1	0.2	2000	2014
Black / 20-29 years old - 0 Joinpoints	1	2000	2014	4.0*	1.8	6.3	4.0*	1.8	6.3	2000	2014
Black / 30-44 years old - 0 Joinpoints	1	2000	2014	-5.3*	-6.2	-4.3	-5.3*	-6.2	-4.3	2000	2014
Black / 45-54 years old - 0 Joinpoints	1	2000	2014	-2.3*	-3.7	-0.8	-2.3*	-3.7	-0.8	2000	2014
<u>Metropolitan Statistical Area (MSA) with highest baseline year incidence rates^^</u>											
Atlanta-Sandy Springs-Roswell, GA - 0 Joinpoints	1	2003	2014	1.5	-1.2	4.3	1.5	-1.2	4.3	2003	2014
Los Angeles-Long Beach-Anaheim, CA - 0 Joinpoints	1	2003	2014	-3.8*	-5.9	-1.7	-3.8*	-5.9	-1.7	2003	2014
Miami-Fort Lauderdale-West Palm Beach, FL - 0 Joinpoints	1	2003	2014	-8.6*	-11.2	-6.1	-8.6*	-11.2	-6.1	2003	2014
New York-Newark-Jersey City, NY-NJ-PA - 0 Joinpoints	1	2003	2014	-5.5*	-7.2	-3.7	-5.5*	-7.2	-3.7	2003	2014
San Francisco-Oakland-Hayward, CA - 0 Joinpoints	1	2003	2014	-6.2*	-9.4	-2.8	-6.2*	-9.4	-2.8	2003	2014
<u>Geographic region^^</u>											
Northeast	1	2000	2014	-4.2*	-5	-3.3	-4.2*	-5	-3.3	2000	2014
South	1	2000	2014	-1.8*	-3	-0.5	-1.8*	-3	-0.5	2000	2014
Midwest	1	2000	2014	-2.0*	-3.1	-0.9	-2.0*	-3.1	-0.9	2000	2014
West	1	2000	2014	-4.6*	-5.4	-3.9	-4.6*	-5.4	-3.9	2000	2014
<u>States with highest baseline year incidence rates^^</u>											
California - 0 Joinpoints	1	2003	2014	-5.0*	-6.4	-3.5	-5.0*	-6.4	-3.5	2003	2014
Florida - 0 Joinpoints	1	2003	2014	-6.8*	-8.3	-5.2	-6.8*	-8.3	-5.2	2003	2014

Georgia - 0 Joinpoints	1	2003	2014	1.8	-1.1	4.9	1.8	-1.1	4.9	2003	2014
New York - 0 Joinpoints	1	2003	2014	-5.2*	-7.3	-3.1	-5.2*	-7.3	-3.1	2003	2014
Texas - 2 Joinpoints	1	2003	2007	1.7	-8.2	12.7	1.3	-4.6	7.6	2003	2014
Texas - 2 Joinpoints	2	2007	2012	-10.6*	-20.1	0					
Texas - 2 Joinpoints	3	2012	2014	37.6*	0.9	87.7					

Legend: *Statistically significant $p < 0.05$; ^Data for Asian and Pacific Islanders (API) and Alaska Natives and American Indians (AN/AI) not included given data suppression due to low sample sizes; ^^Data restricted to years 2003 to 2014 because 2003 was first year statewide data were available for all 50 states in publicly available UCSC database.

Abbreviations: APC, annual % change; AAPC, average annual % change; AN/AI, Alaska Native/American Indian; API, Asian or Pacific Islander; CI, confidence interval; USCS, United States Cancer Statistics.

Supplementary Table 2. Number of incident KS cases and average adjusted KS incidence rates in the U.S. by sociodemographic sub-group and geographic region over the fifteen year study period (2000-2014).

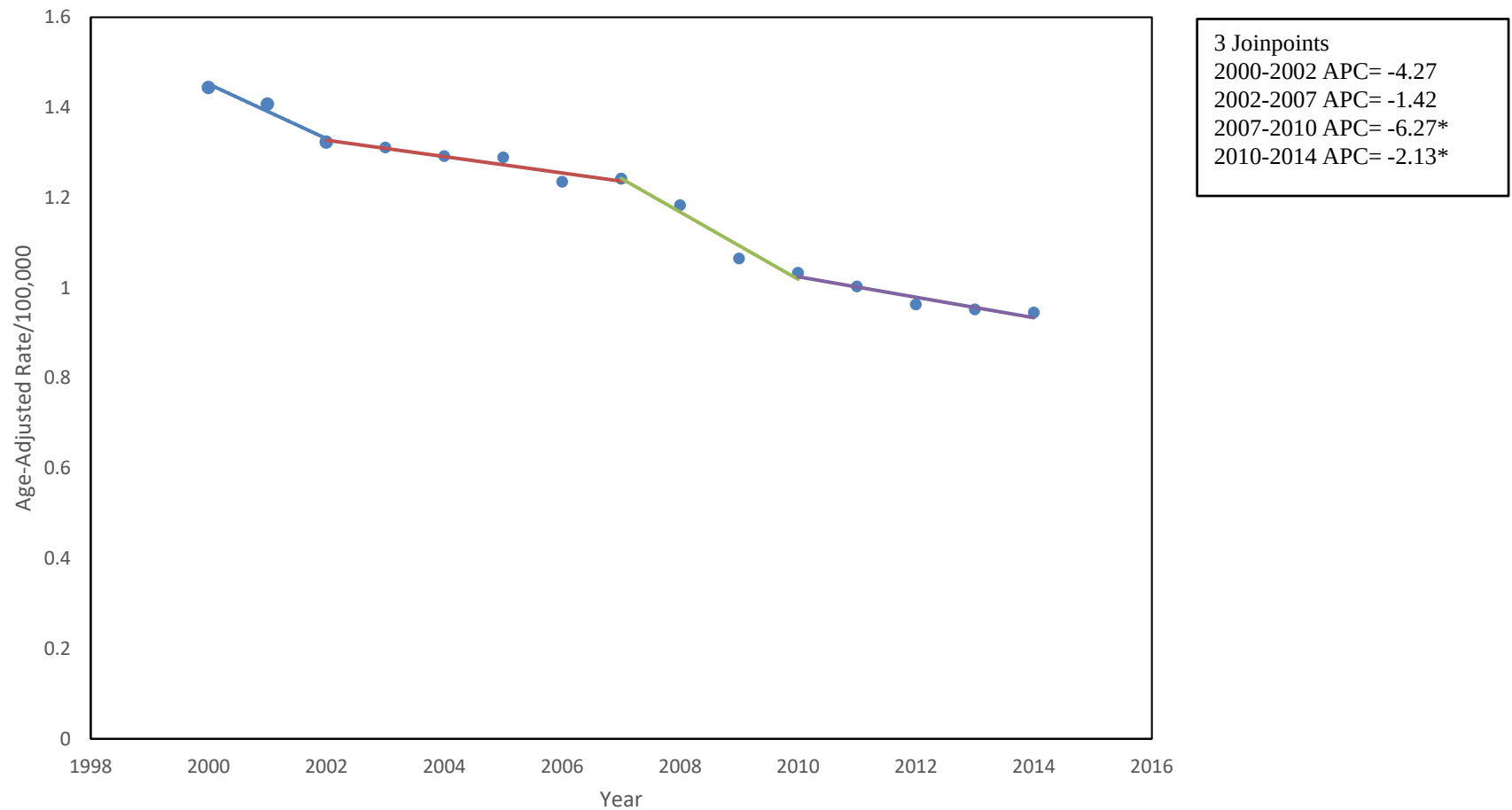
	Number incident KS	Age- adjusted rate	95% CI Lower	95% CI Upper
<u>Age-group (in years)</u>				
20-29	1,577	0.5	0.48	0.53
30-44	7,557	1.61	1.58	1.65
45-54	3,415	1.09	1.05	1.13
<u>Race/ethnicity</u>				
AI/AN	92	0.69	0.55	0.84
API	235	0.4	0.35	0.45
Black	4,163	3.07	2.98	3.17
White	5,098	0.73	0.71	0.75
Hispanic	2,494	1.62	1.55	1.68
Other/Unknown	467	NA	NA	NA
	12,549			
<u>Combined race/ethnicity and age-group</u>				
20-29 White	327	0.18	0.16	0.2
20-29 Black	805	1.83	1.71	1.96
20-29 Hispanic	353	0.6	0.54	0.66
20-29 API	28	0.14	0.09	0.2
20-29 AI/AN	Suppressed	Suppressed	Suppressed	Suppressed
30-44 White	3,012	1.00	0.97	1.04
30-44 Black	2,480	4.16	4	4.33
30-44 Hispanic	1,586	2.15	2.05	2.26
30-44 API	147	0.54	0.45	0.63
30-44 AI/AN	63	1.03	0.79	1.31
45-54 White	1,761	0.79	0.75	0.83
45-54 Black	878	2.39	2.23	2.55
45-54 Hispanic	555	1.68	1.54	1.83
45-54 API	60	0.41	0.31	0.53
45-54 AI/AN	20	0.58	0.35	0.9
<u>Geographic Region</u>				
Northeast	2,604	1.34	1.29	1.40
South	4,918	1.28	1.25	1.32
Midwest	1,337	0.58	0.55	0.61
West	3,730	1.49	1.44	1.54
<u>Top 30 MSAs highest KS incidence rates</u>				
Atlanta-Sandy Springs-Roswell, GA	817	4.25	3.96	4.55
San Francisco-Oakland-Hayward, CA	596	3.55	3.27	3.85
Miami-Fort Lauderdale-West Palm Beach, FL	637	3.29	3.04	3.55
San Diego-Carlsbad, CA	298	2.68	2.39	3.01
New Orleans-Metairie, LA	111	2.6	2.13	3.13
Los Angeles-Long Beach-Anaheim, CA	1,233	2.59	2.45	2.74
New York-Newark-Jersey City, NY-NJ-PA	1,603	2.28	2.17	2.4
Orlando-Kissimmee-Sanford, FL	147	2.02	1.7	2.37
San Antonio-New Braunfels, TX	128	1.82	1.52	2.17
El Paso, TX	44	1.79	1.3	2.41
Houston-The Woodlands-Sugar Land, TX	368	1.75	1.57	1.94
Dallas-Fort Worth-Arlington, TX	401	1.75	1.58	1.93
Fresno, CA	52	1.74	1.3	2.29
Seattle-Tacoma-Bellevue, WA	218	1.69	1.47	1.93

Las Vegas-Henderson-Paradise, NV	104	1.62	1.32	1.96
Washington-Arlington-Alexandria, DC-VA-MD-WV	306	1.57	1.4	1.75
Jacksonville, FL	69	1.52	1.19	1.93
Albuquerque, NM	44	1.52	1.1	2.04
Baltimore-Columbia-Towson, MD	141	1.5	1.26	1.77
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	299	1.45	1.29	1.63
Riverside-San Bernardino-Ontario, CA	196	1.44	1.24	1.65
Birmingham-Hoover, AL	54	1.44	1.08	1.87
Tampa-St. Petersburg-Clearwater, FL	127	1.41	1.17	1.68
Austin-Round Rock, TX	84	1.33	1.06	1.65
Memphis, TN-MS-AR	47	1.31	0.96	1.74
Denver-Aurora-Lakewood, CO	108	1.3	1.06	1.56
Chicago-Naperville-Elgin, IL-IN-WI	386	1.14	1.03	1.26
San Jose-Sunnyvale-Santa Clara, CA	82	1.13	0.9	1.41
Baton Rouge, LA	31	1.13	0.77	1.61
Detroit-Warren-Dearborn, MI	168	1.11	0.95	1.29

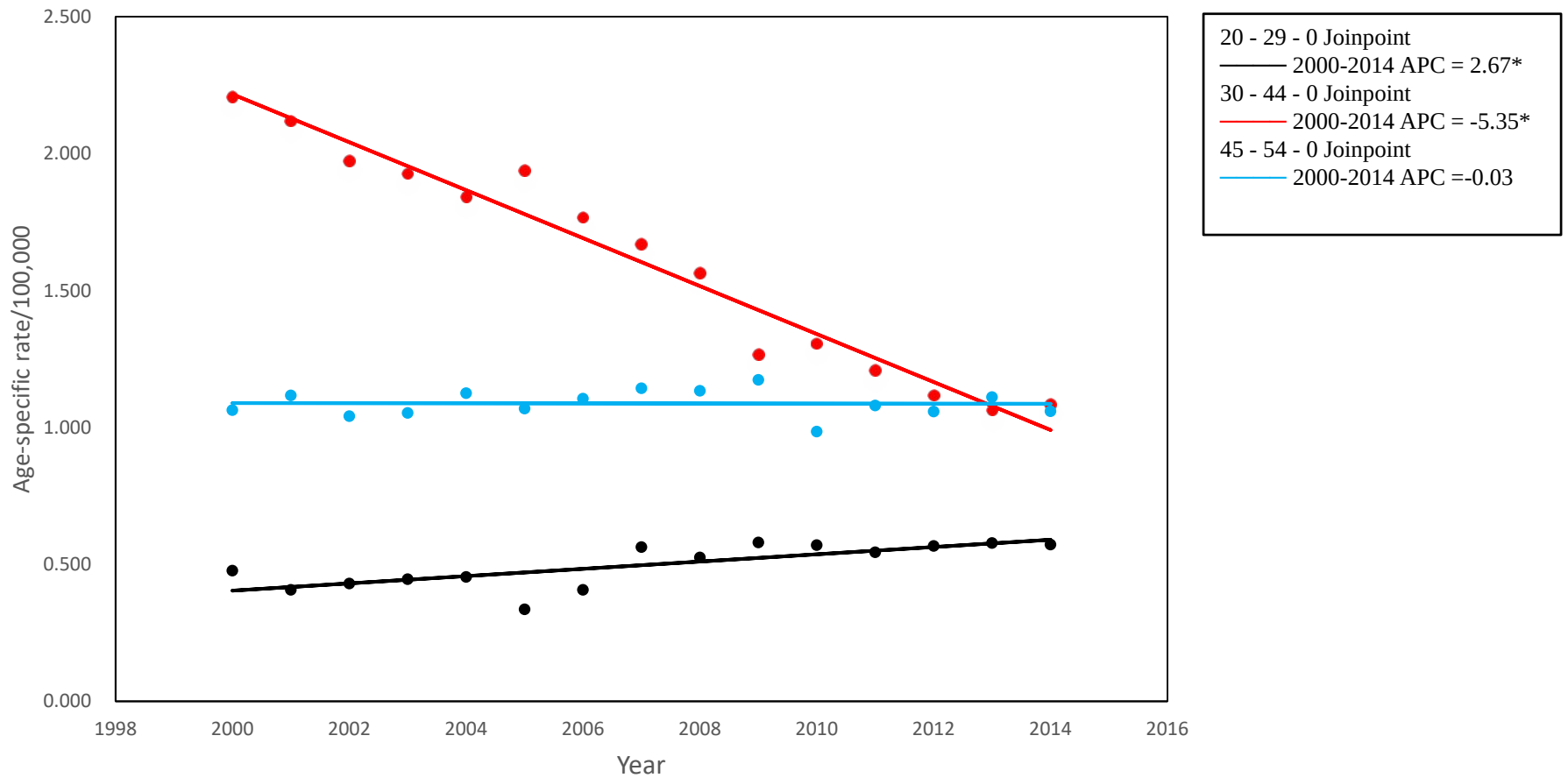
Abbreviations: AI/AN, American Indian/Alaska Native; API, Asian or Pacific Islander; CI, confidence interval; NA, not applicable, Suppressed, data not available as n<15 and suppressed given federal privacy protection.

^States with missing data in publicly available USCS registry for select years: Arkansas (2000), Mississippi (2000-2002), Nevada (2011), and South Dakota (2000).

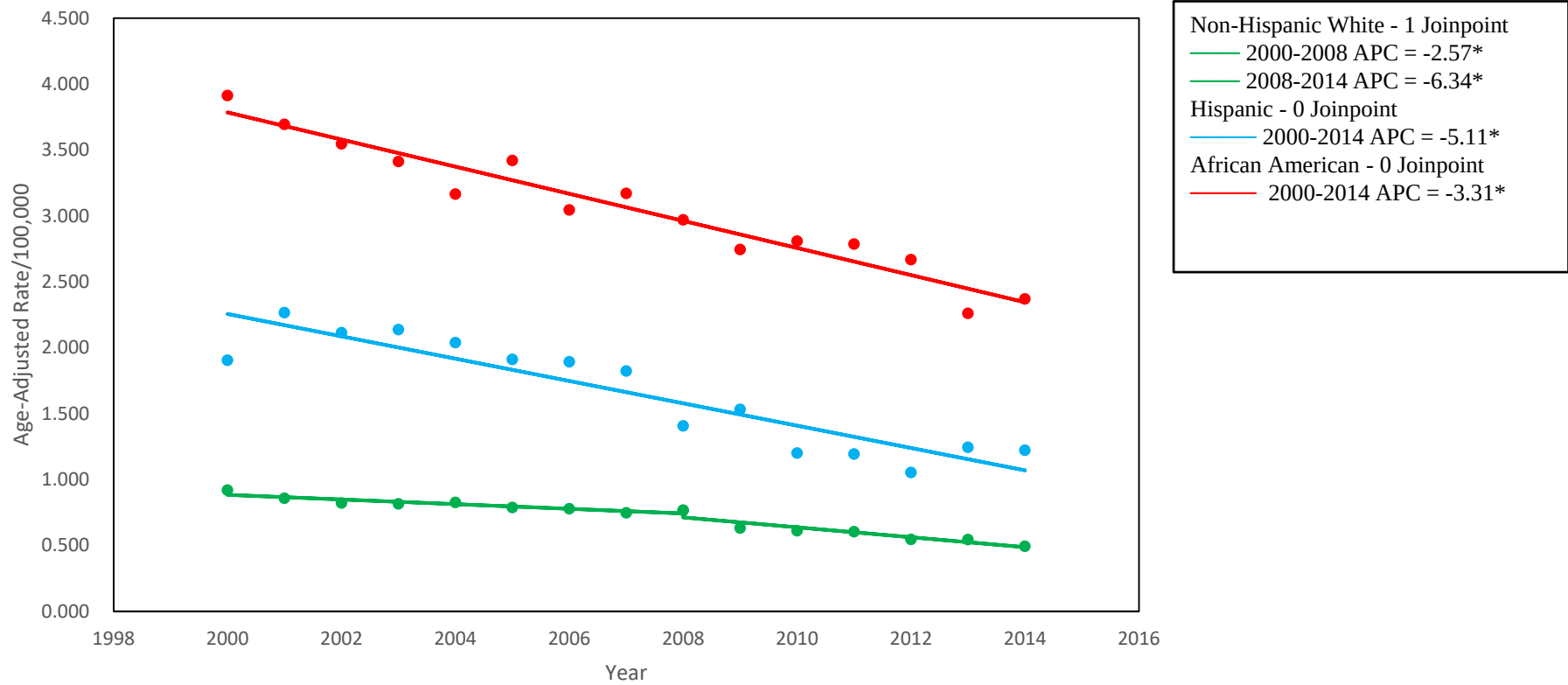
Supplementary Figure 1. Annual Age-adjusted Rates of Incident Presumed AIDS-related KS per 100,000 in the U.S. in Males Aged 20-54 years of Age (2000-2014)



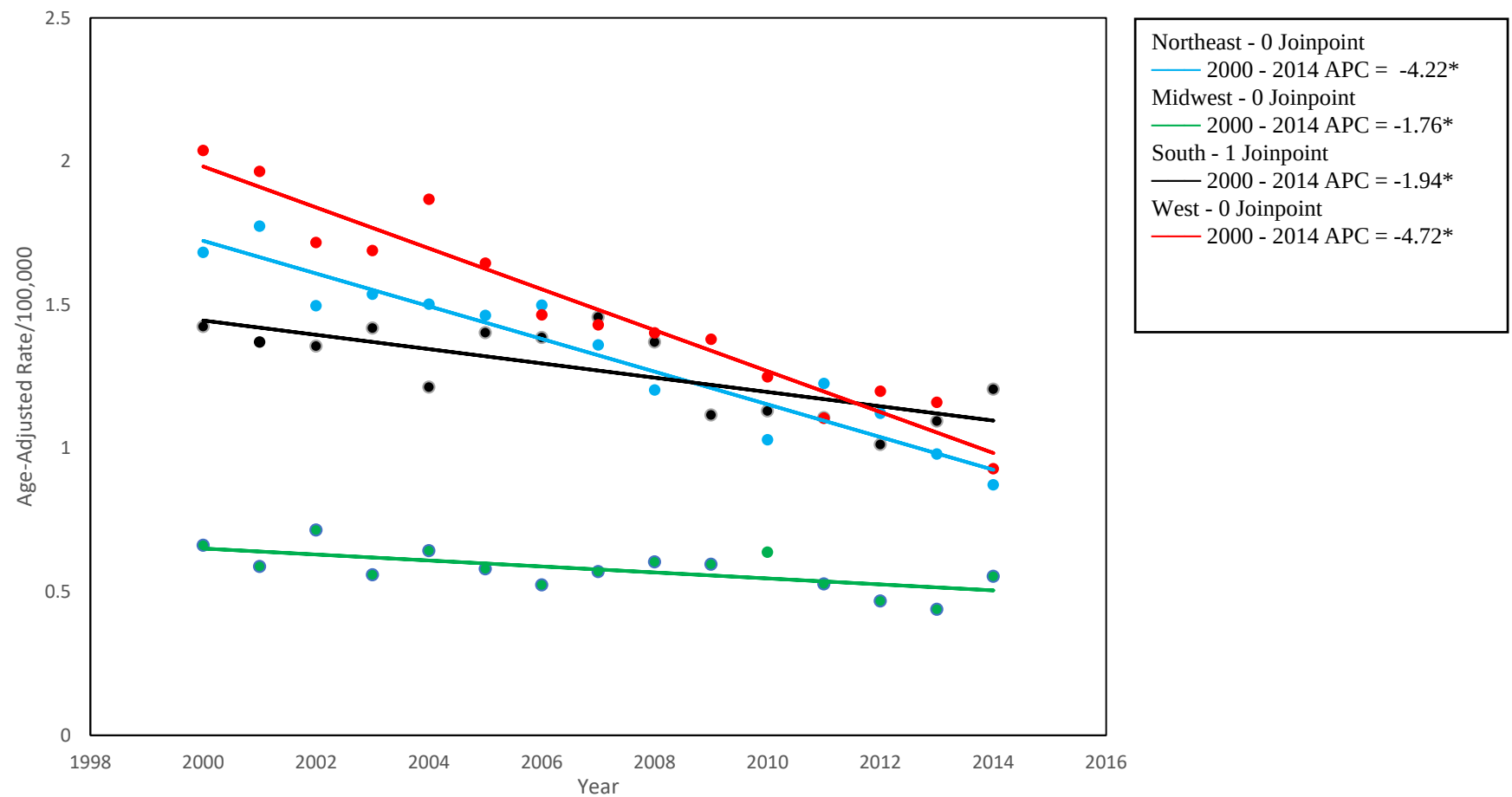
Supplementary Figure 2. Annual KS Incidence Rates per 100,000 in the U.S. by Age-Group



Supplementary Figure 3. Age-Adjusted KS incidence Rates per 100,000 in the U.S. by Race/Ethnicity



Supplementary Figure 4. Age-Adjusted KS Incidence Rates per 100,000 by U.S. Geographic Region



Supplementary Figure 5. Age-Adjusted KS Incidence Rates per 100,000 for 5 Metropolitan Statistical Areas with most KS cases

