Increases in HIV Diagnoses among MSM in Metropolitan Statistical Areas, United States 2003–2012

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BACKGROUND

- The majority of persons diagnosed with HIV in the United States are residents of metropolitan statistical areas (MSAs) with ≥500,000 population.
- Monitoring trends in HIV diagnoses by MSAs provides public health programs with data to develop and evaluate more effective prevention strategies and to set priorities for resource allocation.

METHODS

- Using data from the Centers for Disease Control and Prevention's (CDC) National HIV Surveillance System, we assessed trends in HIV diagnoses in MSAs in the United States and Puerto Rico.
- We determined the annual numbers and rates (per 100,000 population) of HIV diagnoses during 2003–2012 among persons aged ≥13 years.
- Rates were calculated by sex and race/ethnicity using files from the U.S. Census Bureau. Population denominators were used to calculate rates for the 50 states and the District of Columbia (104 MSAs). Rates for Puerto Rico by race/ethnicity and transmission category were not calculated as the population denominators are not available. Because population estimates are not available for men who have sex with men (MSM) from the U.S. Census, we assessed trends in the number of diagnoses among MSM for the 50 states, DC and Puerto Rico (105 MSAs).
- Metropolitan area of residence at diagnosis was defined according to the standards of the U.S. Office of Management and Budget to have a population ≥500,000.
- Data were statistically adjusted for missing information on risk factors
- Poisson regression was used to calculate the estimated annual percent change (EAPC) in annual rates or numbers. MSAs with case counts < 12 were excluded from EAPC calculations.
- Because of a non-monotone trend in HIV diagnoses among MSM, we report on diagnoses among MSM during 2008-2012.

Table 1. Rate[a] of HIV diagnoses among persons aged ≥13 years, by metropolitan statistical area, year of diagnosis, and selected characteristics, 2003–2012, United States

	Total		Male		Female		Black/African American[b]		Hispanic/Latino[b,c]		White[b]	
	Rate		Rate		Rate		Rate		Rate		Rate	
Metropolitan Statistical Areas of Residence[d]	2003	2012	2003	2012	2003	2012	2003	2012	2003	2012	2003	2012
Akron, OH	6.5	6.8	11.2	10.8	2.3	3.2	19.6	26.3	0	11.2	4.6	4.2
Albany-Schenectady-Troy, NY	16.9	9.1	20.3	14.9	13.7	3.6	115.3	47.4	127.2	44.2	5.6	3.8
Albuquerque, NM	10.7	6.8	19.3	13.7	2.5	0.3	20.7	11.5	16.9	9.1	6.2	4.2
Allentown-Bethlehem-Easton, PA-NJ	15.9	7.9	19.8	11.2	12.4	4.7	80.3	46.7	83.2	24.4	7.3	3.2
Atlanta-Sandy Springs-Roswell, GA	41.4	34.1	62	57.9	21.6	12	96.1	78.5	58.8	40.3	12.9	8.1
Augusta-Richmond County, GA-SC	26.2	24.1	39.6	33	14.1	15.8	61.2	47.6	52.4	19.5	6.6	11.2
Austin-Round Rock, TX	21.1	19.7	35.5	35	6.1	4.4	69	48.7	25.5	26.3	13.6	13.3
Bakersfield, CA	15.5	14.6	25.6	23.8	4.9	4.9	48	49.5	21	14.7	9	12
Baltimore-Columbia-Towson, MD	58.3	34.1	77.3	52.9	41.1	16.9	171.6	91.7	85.4	29.8	12	9.4
Baton Rouge, LA	44.4	39.9	55.9	50.4	33.5	29.8	116.5	100.3	8.7	26.9	8.9	7.3
Birmingham-Hoover, AL	20.1	22.5	29.3	38.6	11.8	7.9	49.6	54	43.5	17.4	7.5	8.7
Boise City, ID	4.9	4.5	8.9	8.3	1	0.8	44.3	24.5	5.7	5.3	4.5	4.2
Boston, Mass-NH	17	12.9	24.2	20.1	10.4	6.3	113.8	58.3	56	39.1	7.6	6.3
Bridgeport-Stamford-Norwalk, CT	24.3	10.2	33.4	17.4	15.9	3.5	100.2	46.1	56.6	13.2	10.1	4
Buffalo-Cheektowaga-Niagara Falls, NY	11.2	11	17.9	17.7	5.1	5	58.3	43.2	42.8	50.1	3.2	4
Cape Coral-Fort Myers, FL	27.6	17.8	34.6	28.4	20.9	7.7	231.3	108.3	58	19.3	8.7	9.1
Charleston-North Charleston, SC	21.5	18.3	25.3	31.2	17.9	6	51.1	47.4	16.8	26	8	6.8
Charlotte-Concord-Gastonia, NC-SC	30	20.5	41.1	35.1	19.4	7.1	97.1	63.2	32.2	17.7	10.4	6.5
Chattanooga, TN-GA	16.6	13.2	23.6	23	10.2	4.2	45.8	47.9	77.4	21	10.3	7.7
Chicago, IL-IN-WI	27.2	20.1	42.3	34.3	12.9	6.8	83.2	61.2	30.8	22.5	10.3	8
Cincinnati, OH-KY-IN	10.5	11.6	17.6	18.8	3.9	4.9	46.9	54.4	18.9	22.3	5.4	5.1
Cleveland-Elyria, OH	12.3	14.1	18.6	24.7	6.6	4.5	37.8	41.6	32.9	33.1	5.3	5.4
Colorado Springs, CO	6.5	4.9	10.5	7.3	2.6	2.6	15.1	19.2	10.2	13.6	5.6	2.5
Columbia, SC	39.6	27.3	57.7	43.6	23.1	12.1	96.3	68.1	59.8	16.5	9.1	7.4
Columbus, OH	20.6	19.4	34.9	33.6	7	6	69.4	60.4	59.4	18.1	12.6	11.6
Dallas, TX	32.9	23.3	50.7	38.4	15.3	8.9	96.6	72.4	32.8	22.6	18.8	10.7
Dayton, OH	10.7	11.6	16.1	19.2	5.7	4.6	35.3	42.3	11.8	29.3	6.4	5.6
Deltona-Daytona Beach-Ormond Beach, FL	17.8	13.3	27.2	23.2	8.9	4.1	111.7	61.3	31.7	13.1	6.7	7.3
Denver-Aurora-Lakewood, CO	15.4	13.4	27.7	23	3.1	4	52.9	47.7	18.3	19.1	12.3	9.5
Des Moines-West Des Moines, IA	7.3	8.8	8.6	15.9	6.1	2	96.4	28.3	23.9	7.2	3.3	7.1
Detroit, MI	15.9	15.5	25	25.8	7.4	5.9	50.1	48.2	26.5	12.7	5	5.3
Durham-Chapel Hill, NC	28.2	20.6	44	34.9	13.8	7.7	74.5	51.7	42.6	33.5	7	4.7
El Paso, TX	20.1	21.6	37.1	40.5	5	3.8	35.6	58.6	22.2	22.9	9.8	10.3
Fresno, CA	15.4	13.8	23	23	7.9	4.8	55.3	27.8	21	17.4	7.9	8.7
Grand Rapids-Wyoming, MI	7.1	5.8	10.8	9.2	3.6	2.6	52.2	38.3	14.5	11.5	3.9	2.6
Greensboro-High Point, NC	23.4	18.5	33.1	29.5	14.7	8.7	72.6	49.5	28.5	15.2	6.8	6.9
Greenville-Anderson-Mauldin, SC	15.8	12.1	21.7	20.4	10.3	4.4	60.9	42.6	34.8	10.6	5.1	6
Harrisburg-Carlisle, PA	17.3	10	25.4	14.5	9.8	5.8	72	41.2	105.3	29.4	8.6	5.2
Hartford-West Hartford-East Hartford, CT	25.4	9.9	34.6	16	17	4.1	66.2	33.8	118.2	33.5	10.7	3.1
Houston-The Woodlands-Sugar Land, TX	32.3	30	46.4	47.3	18.3	13	95.5	81.9	29.6	31.2	14.2	11.3
Indianapolis-Carmel-Anderson, IN	18.3	15.2	29.9	26	7.5	5	56.2	59.2	63.9	29.5	10.6	6.2
Jackson, MS	43.2	39.1	62.5	66	25.8	14.9	83.7	69	117.3	40.6	7.4	7.8
Jacksonville, FL	44.8	32.1	59.3	47.1	31.4	18.1	150.3	100.9	40.9	33.8	14.9	12.3
Kansas City, MO-KS	13.2	12.6	21.6	22.8	5.3	2.9	48	48.5	26	22.2	7.5	5.8
Knoxville, TN	11.5	7.9	19.8	14.6	3.8	1.6	52	35.3	11.9	15	9.4	6.3
Lakeland-Winter Haven, FL	26.9	18.1	32.8	28	21.4	8.7	104.6	50.6	45.2	25.8	11.4	9.7
Lancaster, PA	12	6.7	14.8	9	9.4	4.5	131.2	66.9	70.9	19.8	4.8	2.7
Las Vegas-Henderson-Paradise, NV	23	20.1	38.8	35.3	6.9	4.7	66	43.2	30.1	23.6	15.9	14.5
Little Rock-North Little Rock-Conway, AR	19	21	30	38	8.9	5.2	43.2	53	75.9	28	10.3	11.4
Los Angeles-Long Beach-Anaheim, CA	24.9	21.1	44.6	38.9	5.8	4	56.4	59.8	28.1	24.1	21.5	15.5
Louisville/Jefferson County, KY-IN	14.1	19.1	22.1	34.7	6.7	4.5	48.9	67.3	27.3	24.5	8.1	10.3
Madison, WI	5.9	4.8	8.6	7.7	3.4	1.9	41.3	29.3	27.7	16.9	3.8	3.3
McAllen-Edinburg-Mission, TX	13.7	11.6	22.3	18.9	5.9	4.8	0	0	14.6	12.6	7.4	1.9
Memphis, TN-MS-AR	44	41.1	65	61.8	25.2	22.4	90.8	75.2	22.5	29.2	6.6	11.3
Miami, FL	85.4	44.2	123.4	70.6	50.4	19.7	246.8	103.8	61.3	36	39.8	24.9
Milwaukee-Waukesha-West Allis, WI	9.1	10	14.1	17.1	4.5	3.3	34.6	36.7	25.9	16.4	3.2	3.6
Minneapolis-St. Paul-Bloomington, MN-WI	10.4	9.4	15.7	15.5	5.2	3.6	86.7	55.7	27.7	29	4.7	4.7
Modesto, CA	6.3	4.6	10.8	8.8	2.1	0.5	10.5	18.7	9.2	4.3	4.5	4.9
Nashville-Davidson--Murfreesboro--Franklin, TN	22.9	15.6	37.3	27.4	9.2	4.5	79.3	46.4	39.3	22.2	12	9.1
New Haven-Milford, CT	28.4	12.5	37.8	18.6	19.8	7	69.2	51.6	106.5	24.1	13.3	4.1
New Orleans-Metairie, LA	41.1	38.8	56.7	56.7	27.1	22.2	81.6	85.2	40	26.4	15.4	14.8
New York, NY-NJ-PA	49.1	26.1	69.5	42	30.6	11.6	143.3	69.2	76.7	38.2	14.4	9.6
North Port-Sarasota-Bradenton, FL	25.3	10.9	37.8	16.7	13.9	5.7	173.1	82.8	44.1	9.7	14.1	6
Ogden-Clearfield, UT	4	3.2	5.1	5.6	3	0.9	0	19	18.3	7.8	2	2.6
Oklahoma City, OK	14.2	12.7	25.7	22	3.4	3.7	37	41.4	27	12.2	9.8	8.7
Omaha-Council Bluffs, NE-IA	9.5	8	16	14	3.4	2.2	32.7	36.2	29	12.4	6.3	4.5
Orlando-Kissimmee-Sanford, FL	43.1	29.3	63.9	47.5	23.1	12.2	143.6	95.3	41.3	26.7	24.4	14.7
Oxnard-Thousand Oaks-Ventura, CA	9.1	6.3	16	11.5	2.2	1.1	17.5	8.6	13.9	10	6.6	4.3
Palm Bay-Melbourne-Titusville, FL	16.5	12.9	23.5	18.3	10	7.8	85.6	66.4	23.1	2.6	8	8.3
Philadelphia, PA-NJ-DE-MD	35.6	23.3	51	36.6	21.6	11	111.5	72.7	88.1	42.1	11.9	7.4
Phoenix-Mesa-Scottsdale, AZ	18.3	14.2	31.9	25	4.7	3.7	61.8	51.2	23.6	18.9	14.3	9
Pittsburgh, PA	7.9	7.8	12.5	13	3.7	2.9	54.5	40.7	25	11.7	3.7	4.5
Portland-South Portland, ME	9.4	5.8	17.1	7	2.3	4.8	103.2	125.1	136.3	0	7.1	3.8
Portland-Vancouver-Hillsboro, OR-WA	14.4	11.7	25.6	22.2	3.4	1.5	50	35.5	23.9	19.9	12.8	10.4
Providence-Warwick, RI-MA	11.3	9.3	18.1	15	5.1	4.1	67.1	38.5	41.9	21.6	6.4	6.4
Provo-Orem, UT	1.6	4.5	2.6	8.4	0.6	0.5	0	0	0	9.8	1.8	3.5
Raleigh, NC	24.7	16.2	37.1	26.7	12.8	6.4	74.5	51.9	31.4	17.6	11.3	5.3
Richmond, VA	23.8	20.6	33.5	34.4	14.8	8	59.1	50.4	45.2	26.3	7.4	7
Riverside-San Bernardino-Ontario, CA	14.8	13.2	25.8	23.5	4	3.1	33.7	28.3	13.5	12.6	14.5	12.9
Rochester, NY	18.7	10.5	23.1	17.2	14.7	4.2	86.8	42.8	106.5	29.3	5.9	4.5
Sacramento--Roseville--Arden-Arcade, CA	12.3	11.7	21.2	20.6	3.8	3.2	37.8	42.2	14.6	15.4	10.2	8.2
St. Louis, MO-IL	15.4	15.5	24.6	26.5	7.2	5.5	48.2	55.5	44.9	27	7.4	6.4
Salt Lake City, UT	12.1	7.7	18.7	12	5.5	3.4	37.8	50	28.4	10.3	9	6.4
San Antonio-New Braunfels, TX	20.2	20.3	36.4	36.5	5.1	4.8	41.2	41.2	25.2	24.5	10.4	10.3
San Diego-Carlsbad, CA	23.1	17.7	40.5	31.2	6	4.1	60.3	43.2	33.1	24.5	18.2	13.8
San Francisco, CA	32.5	22.8	58.6	42.3	7.2	4	83.4	60.3	38.8	30.4	31.1	20.6
San Jose-Sunnyvale-Santa Clara, CA	10.9	8.7	19.2	15.6	2.5	1.8	60.4	29	16.9	13.5	8.8	7.3
Scranton--Wilkes-Barre--Hazleton, PA	13.8	6.4	18.8	10.2	9.3	2.8	191.2	48.2	158.5	22	8	4.4
Seattle, WA	16.7	12.6	29.1	21.3	4.6	4.1	69.6	52.8	38.3	18.1	13.2	10.2
Spokane-Spokane Valley, WA	5.5	5.8	10.8	10	0.5	1.8	35.8	29.2	0	27.7	5.3	3.6
Springfield, MA	16.7	16.3	25.1	25	9.2	8.5	43.5	81.7	75.5	45.2	5.8	5.8
Stockton-Lodi, CA	14	8.6	21.9	13.8	6.1	3.5	55	37.7	15	5.9	9.9	8.4
Syracuse, NY	12.6	9.3	18.3	13.7	7.5	5.2	71.6	42.4	87.2	33.8	6.9	5.5
Tampa-St. Petersburg-Clearwater, FL	32.6	20.7	46.7	33.6	19.7	8.8	154.2	75.7	39.3	21.9	16.7	12.5
Toledo, OH	12.4	10	19	17.6	6.3	3	52.6	26.2	18.8	7.5	5.9	7.1
Tucson, AZ	11.8	9	20.5	16	3.6	2.3	51.4	44.8	15	9.7	9.1	6.4
Tulsa, OK	10.9	13.6	18	23.5	4.4	4.2	48.4	22.6	11.2	22.8	7.8	11.1
Urban Honolulu, HI	11.2	7.7	19.5	12.6	3	2.7	14.9	0	17.5	11.3	20.7	12.5
Virginia Beach-Norfolk-Newport News, VA-NC	24	21.3	33.4	33.4	15.1	9.7	60	50.4	28.4	25.4	7.2	7.3
Washington, DC-VA-MD-WV	46.7	33.6	65.2	51.5	29.5	16.8	135.4	92.2	37.5	26.7	12.2	11
Wichita, KS	8.3	7	13.4	11.1	3.3	3.1	33.4	40.5	33.6	7.8	3.4	3.6
Winston-Salem, NC	23.8	12.4	34	17.6	14.5	7.8	92.5	53.4	49.6	2.4	7.3	4.1
Worcester, MA-CT	13.2	8	14.3	11.3	12.2	4.8	155.3	59.4	53.1	29.2	6.3	3.4
Youngstown-Warren-Boardman, OH-PA	8.9	6.3	11.4	10.4	6.6	2.4	45.1	26.9	12.6	32.7	4.9	2.9
Total	27.5	19.7	41.3	32.5	14.4	7.5	97.2	65.7	38.4	25.1	11.6	8.7

Note. Rates are per 100,000 population.
[a]Rate from 2003 to 2012.
[b]Definitions based on "Standards for the Classification of Federal Data on Race and Ethnicity" from the Office of Management and Budget.
[c]Hispanics/Latinos can be of any race.
[d]MSAs were defined as population ≥500,000.
Blue: Significant increase in trends from 2003 to 2012.
Orange: Significant decrease in trends from 2003 to 2012.

Table 2. HIV diagnoses among men who have sex with men (MSM)[a] aged ≥13 years, by metropolitan statistical area, year of diagnosis, and race/ethnicity 2008–2012, United States and Puerto Rico

	Total MSM		Black/African American[b] MSM		Hispanic/Latino[b,c] MSM		White[b] MSM	
	Number		Number		Number		Number	
Metropolitan Statistical Area[d]	2008	2012	2008	2012	2008	2012	2008	2012
Akron, OH	33	29	13	13	2	1	18	15
Albany-Schenectady-Troy, NY	37	38	8	9	2	7	23	19
Albuquerque, NM	52	38	1	1	27	21	18	12
Allentown-Bethlehem-Easton, PA-NJ	25	21	7	3	8	4	8	14
Atlanta-Sandy Springs-Roswell, GA	1,289	1,074	821	761	167	127	241	149
Augusta-Richmond County, GA-SC	55	60	37	34	4	3	10	21
Austin-Round Rock, TX	187	233	22	30	75	95	81	96
Bakersfield, CA	40	68	8	10	20	33	9	25
Baltimore-Columbia-Towson, MD	429	413	284	278	26	20	102	94
Baton Rouge, LA	118	116	94	91	1	3	21	21
Birmingham-Hoover, AL	118	153	82	94	5	4	29	46
Boise City, ID	12	16	0	0	2	2	10	14
Boston, Mass-NH	275	279	52	42	56	70	148	148
Bridgeport-Stamford-Norwalk, CT	60	45	19	14	22	14	16	15
Buffalo-Cheektowaga-Niagara Falls, NY	59	65	18	27	7	10	31	22
Cape Coral-Fort Myers, FL	44	42	11	11	10	6	24	25
Charleston-North Charleston, SC	52	76	31	53	4	3	16	19
Charlotte-Concord-Gastonia, NC-SC	312	266	177	161	19	20	103	65
Chattanooga, TN-GA	44	42	16	19	0	2	27	21
Chicago, IL-IN-WI	1,010	1,128	469	504	204	267	265	295
Cincinnati, OH-KY-IN	120	145	53	71	11	8	54	59
Cleveland-Elyria, OH	177	175	86	92	14	19	75	53
Colorado Springs, CO	23	14	6	0	1	6	15	8
Columbia, SC	98	118	72	96	5	4	20	17
Columbus, OH	222	229	72	81	9	8	131	123
Dallas, TX	793	903	281	363	215	240	266	247
Dayton, OH	48	55	23	28	2	4	22	23
Deltona-Daytona Beach-Ormond Beach, FL	53	46	21	20	6	4	22	20
Denver-Aurora-Lakewood, CO	272	206	21	30	93	66	152	105
Des Moines-West Des Moines, IA	25	26	3	1	1	2	20	22
Detroit, MI	337	380	237	246	18	10	69	103
Durham-Chapel Hill, NC	63	59	38	37	7	8	15	11
El Paso, TX	52	107	2	9	41	90	9	9
Fresno, CA	70	79	8	8	45	49	13	15
Grand Rapids-Wyoming, MI	30	32	8	8	5	5	16	17
Greensboro-High Point, NC	96	74	64	50	6	4	22	17
Greenville-Anderson-Mauldin, SC	42	58	15	30	6	2	21	27
Harrisburg-Carlisle, PA	16	25	6	8	0	3	9	14
Hartford-West Hartford-East Hartford, CT	42	56	12	18	13	19	17	15
Houston-The Woodlands-Sugar Land, TX	806	956	354	356	250	393	159	173
Indianapolis-Carmel-Anderson, IN	159	152	62	82	13	14	76	52
Jackson, MS	90	123	69	102	1	3	14	14
Jacksonville, FL	186	181	115	97	7	18	58	63
Kansas City, MO-KS	169	168	72	77	17	22	75	61
Knoxville, TN	47	40	10	10	5	1	28	28
Lakeland-Winter Haven, FL	42	36	12	9	7	5	21	20
Lancaster, PA	14	17	2	3	2	3	10	9
Las Vegas-Henderson-Paradise, NV	250	247	54	42	73	89	112	83
Little Rock-North Little Rock-Conway, AR	62	100	32	51	4	7	22	41
Los Angeles-Long Beach-Anaheim, CA	2,120	1,903	400	321	917	931	643	483
Louisville/Jefferson County, KY-IN	127	146	48	62	9	6	65	67
Madison, WI	24	18	5	1	3	3	15	14
McAllen-Edinburg-Mission, TX	47	45	1	0	45	44	1	0
Memphis, TN-MS-AR	237	268	201	202	5	12	27	49
Miami, FL	1,487	1,244	399	302	558	560	479	360
Milwaukee-Waukesha-West Allis, WI	95	92	43	48	14	15	34	25
Minneapolis-St. Paul-Bloomington, MN-WI	193	185	37	57	21	32	125	87
Modesto, CA	25	17	1	1	9	6	15	10
Nashville-Davidson--Murfreesboro--Franklin, TN	185	163	83	71	14	13	85	72
New Haven-Milford, CT	48	46	13	19	11	11	21	16
New Orleans-Metairie, LA	199	221	107	138	16	14	70	65
New York, NY-NJ-PA	2,833	2,604	1,007	834	945	909	676	651
North Port-Sarasota-Bradenton, FL	46	35	8	10	8	3	30	20
Ogden-Clearfield, UT	11	10	1	1	1	3	9	6
Oklahoma City, OK	98	97	27	30	14	8	51	49
Omaha-Council Bluffs, NE-IA	32	34	9	11	1	4	20	17
Orlando-Kissimmee-Sanford, FL	335	351	123	131	77	84	122	127
Oxnard-Thousand Oaks-Ventura, CA	36	32	1	1	22	20	12	11
Palm Bay-Melbourne-Titusville, FL	28	35	11	14	0	1	15	20
Philadelphia, PA-NJ-DE-MD	555	533	296	279	71	65	156	164
Phoenix-Mesa-Scottsdale, AZ	382	350	28	51	122	134	211	140
Pittsburgh, PA	105	113	52	44	3	2	43	59
Portland-South Portland, ME	17	13	0	0	0	0	17	12
Portland-Vancouver-Hillsboro, OR-WA	164	177	14	14	27	30	113	124
Providence-Warwick, RI-MA	58	67	4	8	15	11	39	47
Provo-Orem, UT	6	13	0	0	2	3	4	10
Raleigh, NC	154	104	79	62	26	11	46	27
Richmond, VA	138	136	98	91	5	12	34	33
Riverside-San Bernardino-Ontario, CA	273	354	42	44	116	156	103	144
Rochester, NY	54	56	13	21	8	8	26	22
Sacramento--Roseville--Arden-Arcade, CA	120	145	21	34	27	30	56	67
St. Louis, MO-IL	222	260	121	160	10	13	80	85
Salt Lake City, UT	58	39	2	1	10	9	45	26
San Antonio-New Braunfels, TX	232	290	14	35	150	182	63	62
San Diego-Carlsbad, CA	431	352	42	33	191	156	169	139
San Francisco, CA	692	684	126	119	182	185	307	287
San Jose-Sunnyvale-Santa Clara, CA	112	102	7	8	45	41	39	32
San Juan-Carolina-Caguas, PR	187	216			185	213	2	3
Scranton--Wilkes-Barre--Hazleton, PA	15	17	5	2	1	1	8	14
Seattle, WA	276	267	36	42	39	36	167	167
Spokane-Spokane Valley, WA	17	17	2	1	2	4	11	10
Springfield, MA	30	45	5	10	10	19	12	16
Stockton-Lodi, CA	19	30	5	9	7	7	5	13
Syracuse, NY	35	31	8	8	2	4	23	18
Tampa-St. Petersburg-Clearwater, FL	400	307	112	97	48	54	226	145
Toledo, OH	30	37	14	14	2	2	13	19
Tucson, AZ	52	50	2	5	21	18	26	24
Tulsa, OK	53	63	11	8	8	8	29	38
Urban Honolulu, HI	50	46	6	0	9	5	15	11
Virginia Beach-Norfolk-Newport News, VA-NC	217	197	155	138	10	11	45	41
Washington, DC-VA-MD-WV	1,103	951	651	551	137	124	249	229
Wichita, KS	18	24	5	5	2	3	11	13
Winston-Salem, NC	48	31	25	21	5	1	17	8
Worcester, MA-CT	22	31	1	3	3	9	18	16
Youngstown-Warren-Boardman, OH-PA	17	18	7	7	3	3	7	8
Total	23,216	22,711	8,505	8,352	5,726	6,062	7,682	6,995

Note. Data include persons with a diagnosis of HIV infection regardless of stage of disease at diagnosis.
[a]Numbers resulted from statistical adjustment that accounted for missing transmission category.
[b]Definitions based on "Standards for the Classification of Federal Data on Race and Ethnicity" from the Office of Management and Budget.
[c]Hispanics/Latinos can be of any race.
[d]MSAs were defined as population ≥500,000.
Grey:Significance in trends were not calculated since numbers less than 12 have an underlying relative standard errors that are considered unreliable.
Blue: Significant increase in trends from 2008 to 2012.
Orange: Significant decrease in trends from 2008 to 2012.

Table 3. HIV diagnoses among men who have sex with men (MSM)[a] aged ≥13 years, by metropolitan statistical area, year of diagnosis, and age group 2008–2012, United States and Puerto Rico

	13-24		25-34		35-44		45-54	
	Number		Number		Number		Number	
Metropolitan Statistical Area[b]	2008	2012	2008	2012	2008	2012	2008	2012
Akron, OH	12	9	8	11	5	3	4	4
Albany-Schenectady-Troy, NY	9	9	9	10	12	6	6	7
Albuquerque, NM	10	9	9	15	18	4	10	9
Allentown-Bethlehem-Easton, PA-NJ	5	6	6	3	11	7	3	3
Atlanta-Sandy Springs-Roswell, GA	312	311	377	383	348	217	196	128
Augusta-Richmond County, GA-SC	20	24	14	14	10	6	9	11
Austin-Round Rock, TX	39	56	58	91	60	54	19	20
Bakersfield, CA	6	18	11	17	14	16	6	11
Baltimore-Columbia-Towson, MD	122	130	104	125	87	64	80	58
Baton Rouge, LA	32	49	42	33	21	20	16	9
Birmingham-Hoover, AL	35	44	39	50	25	28	13	22
Boise City, ID	2	5	7	5	1	2	1	1
Boston, Mass-NH	37	41	78	88	86	65	53	63
Bridgeport-Stamford-Norwalk, CT	11	8	22	17	13	12	10	5
Buffalo-Cheektowaga-Niagara Falls, NY	12	16	23	24	13	8	7	13
Cape Coral-Fort Myers, FL	5	11	10	12	20	11	4	7
Charleston-North Charleston, SC	14	36	15	18	7	13	12	5
Charlotte-Concord-Gastonia, NC-SC	70	81	76	81	76	51	71	38
Chattanooga, TN-GA	11	13	13	11	11	9	8	9
Chicago, IL-IN-WI	280	292	303	394	236	221	143	154
Cincinnati, OH-KY-IN	41	46	27	43	30	22	15	27
Cleveland-Elyria, OH	36	56	49	56	46	29	36	25
Colorado Springs, CO	3	4	6	3	4	4	7	3
Columbia, SC	34	51	27	32	20	18	10	12
Columbus, OH	54	69	64	75	57	42	41	29
Dallas, TX	199	258	233	275	226	202	95	115
Dayton, OH	11	21	14	14	14	9	8	10
Deltona-Daytona Beach-Ormond Beach, FL	10	10	7	8	19	11	12	12
Denver-Aurora-Lakewood, CO	42	37	84	73	80	58	51	28
Des Moines-West Des Moines, IA	3	4	9	8	3	8	6	3
Detroit, MI	130	147	79	112	69	57	42	49
Durham-Chapel Hill, NC	14	20	26	20	9	4	10	10
El Paso, TX	9	42	19	40	14	12	9	11
Fresno, CA	19	20	25	31	13	13	12	6
Grand Rapids-Wyoming, MI	5	12	6	10	11	6	7	1
Greensboro-High Point, NC	28	20	21	21	23	12	18	15
Greenville-Anderson-Mauldin, SC	10	20	15	17	9	8	8	8
Harrisburg-Carlisle, PA	4	5	4	9	6	4	1	5
Hartford-West Hartford-East Hartford, CT	7	15	11	20	10	8	10	12
Houston-The Woodlands-Sugar Land, TX	212	280	253	329	200	176	101	123
Indianapolis-Carmel-Anderson, IN	36	61	47	47	44	22	24	13
Jackson, MS	29	55	31	37	13	15	14	13
Jacksonville, FL	54	60	57	57	41	30	27	24
Kansas City, MO-KS	45	48	43	54	44	30	27	21
Knoxville, TN	5	10	12	9	14	9	12	10
Lakeland-Winter Haven, FL	7	10	9	9	16	6	7	5
Lancaster, PA	1	7	1	4	6	4	3	2
Las Vegas-Henderson-Paradise, NV	45	65	73	81	69	54	39	32
Little Rock-North Little Rock-Conway, AR	13	32	23	33	14	10	10	17
Los Angeles-Long Beach-Anaheim, CA	349	383	646	685	648	436	377	306
Louisville/Jefferson County, KY-IN	36	51	33	45	25	26	28	15
Madison, WI	9	2	5	7	5	4	4	3
McAllen-Edinburg-Mission, TX	11	10	18	20	12	8	7	4
Memphis, TN-MS-AR	90	102	68	82	39	39	32	28
Miami, FL	222	224	335	325	479	317	313	269
Milwaukee-Waukesha-West Allis, WI	28	36	30	26	22	17	12	11
Minneapolis-St. Paul-Bloomington, MN-WI	40	44	57	60	49	37	33	33
Modesto, CA	7	1	3	4	9	5	4	6
Nashville-Davidson--Murfreesboro--Franklin, TN	47	44	50	46	49	34	34	30
New Haven-Milford, CT	14	13	14	15	11	12	9	7
New Orleans-Metairie, LA	52	72	60	64	39	36	32	32
New York, NY-NJ-PA	639	628	873	933	780	528	401	392
North Port-Sarasota-Bradenton, FL	4	7	10	6	14	5	11	8
Ogden-Clearfield, UT	2	2	5	5	2	0	2	3
Oklahoma City, OK	27	30	23	30	26	13	14	16
Omaha-Council Bluffs, NE-IA	7	9	10	10	8	7	5	7
Orlando-Kissimmee-Sanford, FL	68	112	104	97	84	66	53	61
Oxnard-Thousand Oaks-Ventura, CA	6	9	9	9	10	8	10	6
Palm Bay-Melbourne-Titusville, FL	7	7	5	11	10	6	4	8
Philadelphia, PA-NJ-DE-MD	172	194	152	157	114	82	77	72
Phoenix-Mesa-Scottsdale, AZ	79	85	117	122	114	66	55	57
Pittsburgh, PA	37	32	21	33	19	16	24	28
Portland-South Portland, ME	2	0	3	2	4	6	3	5
Portland-Vancouver-Hillsboro, OR-WA	25	25	58	55	40	45	25	31
Providence-Warwick, RI-MA	10	10	10	22	20	16	16	11
Provo-Orem, UT	1	3	3	6	1	1	1	2
Raleigh, NC	36	27	49	36	39	20	24	15
Richmond, VA	44	53	38	44	31	13	19	23
Riverside-San Bernardino-Ontario, CA	55	78	73	102	62	56	57	85
Rochester, NY	15	19	7	13	18	6	6	10
Sacramento--Roseville--Arden-Arcade, CA	31	37	29	45	37	27	16	26
St. Louis, MO-IL	66	98	57	78	51	38	42	38
Salt Lake City, UT	7	7	15	15	18	7	14	7
San Antonio-New Braunfels, TX	45	70	74	92	63	62	36	51
San Diego-Carlsbad, CA	87	67	153	137	119	70	50	55
San Francisco, CA	95	116	212	217	236	173	111	141
San Jose-Sunnyvale-Santa Clara, CA	14	17	41	26	34	31	20	21
San Juan-Carolina-Caguas, PR	25	64	52	75	56	39	44	28
Scranton--Wilkes-Barre--Hazleton, PA	5	1	1	6	5	3	2	2
Seattle, WA	43	43	85	82	79	79	47	47
Spokane-Spokane Valley, WA	5	5	3	3	6	2	2	5
Springfield, MA	4	13	10	11	7	13	6	6
Stockton-Lodi, CA	6	9	4	11	6	5	3	5
Syracuse, NY	12	8	7	12	8	6	6	3
Tampa-St. Petersburg-Clearwater, FL	75	74	95	87	112	66	83	50
Toledo, OH	9	13	7	11	11	7	2	5
Tucson, AZ	6	7	18	11	16	13	8	15
Tulsa, OK	13	13	9	22	14	12	12	12
Urban Honolulu, HI	7	6	16	17	11	10	12	10
Virginia Beach-Norfolk-Newport News, VA-NC	77	69	67	71	45	29	18	21
Washington, DC-VA-MD-WV	220	210	295	326	295	214	209	133
Wichita, KS	5	7	4	5	5	7	4	5
Winston-Salem, NC	6	12	15	4	16	6	9	5
Worcester, MA-CT	4	7	3	8	3	4	10	9
Youngstown-Warren-Boardman, OH-PA	2	7	4	2	6	0	4	8
Total	5,149	5,940	6,653	7,366	6,235	4,547	3,787	3,510

Note. Data include persons with a diagnosis of HIV infection regardless of stage of disease at diagnosis.
[a]Numbers resulted from statistical adjustment that accounted for missing transmission category.
[b]MSAs were defined as population ≥500,000.
Grey:Significance in trends were not calculated since numbers less than 12 have an underlying relative standard errors that are considered unreliable.
Blue: Significant increase in trends from 2008 to 2012.
Orange: Significant decrease in trends from 2008 to 2012.

RESULTS

- During 2003–2012, the overall annual rate of HIV diagnoses in the 104 MSAs decreased 3.7% per year (95% confidence interval [CI] = −3.8,−3.6) (Table 1).
  - Significant decreases were observed in 59% (61 of 104) of the MSAs. Annual rates in MSAs decreased overall (−2.8%; 95% CI= −2.9,−2.6) among males (48%, 50 of 104 of individual MSAs) and (−6.7%; 95% CI= −7.0,−6.5) among females (64%,67 of 104 of individual MSAs).
  - Rates decreased among blacks overall (−4.1%; 95% CI= −4.2, −3.9) and in 46% (48 of 104) of individual MSAs, Hispanics/Latinos (−4.8%; 95% CI= −5.1, −4.6; 60% of62 of 104 of individual MSAs) and whites (−3.7%; 95% CI= −3.9, −3.5; 45% or 47 of 104 of individual MSAs).
  - Rates increased in 6 MSAs among blacks (Charleston-North Charleston, SC; Cincinnati, OH-KY-IN; Los Angeles-Long Beach-Anaheim, CA; New Orleans-Metairie, LA; Oklahoma City, OK; Sacramento-Roseville-Arden-Arcade, CA) and in 3 MSAs among whites (Bakersfield, CA; Des Moines-West Des Moines, IA; Tulsa, OK).
- The number of diagnoses among MSM in 105 MSAs increased during 2003–2007 (relative percent increase, 10.8%) and then decreased during 2008–2012 (relative percent decrease, −2.2%) (data not shown).
- The number of diagnoses among MSM during 2008–2012 significantly increased in 10 MSAs and decreased in 9 MSAs. (Table 2).
  - Overall the number of diagnoses among black MSM remained stable but diagnoses significantly increased in 3 MSAs and decreased in 4 MSAs in the 59 MSAs with ≥12 annual diagnoses (Table 2).
  - Overall the number of diagnoses among white MSM significantly decreased (−2.7%; 95% CI= −3.5, −1.9) and diagnoses significantly increased in 5 MSAs and decreased in 12 MSAs in the 78 MSAs with ≥ 12 annual diagnoses (Table 2).
  - In 57 MSAs with ≥ 12 annual diagnoses among MSM aged 13-24 years, diagnoses increased in 17 MSAs among these young MSM. There were no significant decreases in this age group (Table 3). Overall diagnoses decreased among MSM aged 35-44 and 45-54 but remained stable among MSM aged 55-64 and 65+.

CONCLUSIONS

- Decreases in diagnoses were observed overall but not experienced by all populations; increases in HIV diagnoses were observed in particular MSAs among MSM, blacks and whites, and in many MSAs diagnoses were stable.
- Diagnoses among MSM aged 13-24 years and 25-34 increased or were stable while diagnosed among older MSM remained stable or decreased.
- Decrease in diagnoses are unlikely due to decreases in testing in large MSAs as many have implemented intensified testing efforts.
- The geographic disparity in HIV burden indicates a need to target prevention planning, linkage to care, and retention in care programs by MSA to decrease the number of persons who become infected with HIV.

National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention
Division of HIV/AIDS Prevention

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The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

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