



**ERIE COUNTY
DEPARTMENT OF HEALTH**

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**PUBLIC HEALTH
PREPAREDNESS**

***ERIE COUNTY GONORRHEA DATA TABLES
2000 to 2007***

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Table 1: Gonorrhea Annual Crude Incidence Rates: 2000 to 2003

Gonorrhea		2000				2001			
		Cases	Rate	Lower CL	Upper CL	Cases	Rate	Lower CL	Upper CL
Erie County	Total	133	47.4	39.3	55.5	267	95.1	83.7	106.5
	Male	46	33.6	23.9	43.3	106	77.4	62.7	92.1
	Female	87	60.5	47.8	73.2	161	111.9	94.6	129.2
	White	42	16.5	11.5	21.5	82	32.1	25.2	39.0
	Black	74	430.2	332.2	528.2	172	999.9	850.5	1,149.3
	Hispanic	N/A				10*	163.2	62.0	264.4
	<15 yrs	4*	ND*			3*	ND*		
	15-19 yrs	35	156.2	104.5	207.9	72	321.4	247.2	395.6
	20-24 yrs	48	235.1	168.6	301.6	97	475.0	380.5	569.5
	25-29 yrs	22	128.8	75.0	182.6	33	193.2	127.3	259.1
	30-34 yrs	7*	ND*			26	143.3	88.2	198.4
	35+ yrs	14*	9.6	4.6	14.6	30	20.7	13.3	28.1
	Pennsylvania	Total	13,400	109.1	107.3	111.0	13,830	112.6	110.7
Male		N/A				N/A			
Female		N/A				N/A			
White		N/A				1,391	13.3	12.6	14.0
Black		N/A				8,172	665.9	651.4	680.3
Hispanic		N/A				515	125.5	114.7	136.4
United States	Total	358,995	127.6	127.1	128.0	361,705	126.9	126.5	127.3

Gonorrhea		2002				2003			
		Cases	Rate	Lower CL	Upper CL	Cases	Rate	Lower CL	Upper CL
Erie County	Total	255	90.5	79.4	101.6	252	89.2	78.2	100.2
	Male	92	66.9	53.2	80.6	87	63.1	49.8	76.4
	Female	163	113.0	95.7	130.3	165	114.2	96.8	131.6
	White	97	37.5	30.0	45.0	118	45.6	37.4	53.8
	Black	146	825.5	691.6	959.4	116	645.3	527.9	762.7
	Hispanic	13*	208.0	94.9	321.1	13*	202.1	92.2	312.0
	<15 yrs	3*	ND*			2*	ND*		
	15-19 yrs	54	243.5	178.6	308.4	66	302.8	229.7	375.9
	20-24 yrs	97	435.7	349.0	522.4	102	438.4	353.3	523.5
	25-29 yrs	50	311.3	225.0	397.6	52	326.4	237.7	415.1
	30-34 yrs	17*	94.3	49.5	139.1	13*	73.1	33.4	112.8
	35+ yrs	22	15.0	8.7	21.3	16*	10.8	5.5	16.1
	Pennsylvania	Total	13,378	108.5	106.6	110.3	11,866	96.0	94.3
Male		N/A				5,214	87.1	84.7	89.5
Female		N/A				6,644	104.2	101.7	106.7
White		1,622	15.2	14.4	15.9	1,560	14.6	13.9	15.3
Black		7,793	612.2	598.6	625.8	6,227	484.2	472.2	496.2
Hispanic		441	106.1	96.2	116.0	438	103.4	93.7	113.1
United States	Total	351,852	122.2	121.8	122.6	335,104	115.4	115.0	115.8

*Numbers less than 20 are statistically unreliable; ND=Not displayed if count <10

Crude rate equals number of cases per 100,000 population; 95% Confidence Interval; CL=Confidence Limit

Before 2003 some reported cases did not include age

Total includes unknown gender, race, and age; Hispanic origin can be of any race; There may be multiple diseases in one person; Some individuals may become infected more than once

U.S Census Bureau, Intercensal Population Estimates used for Erie County and U.S.; PA DOH Intercensal Population Estimates used for PA

Previous year pop. used for Erie County calculations; Current year pop. used for PA calculations; Current year pop. used for 2000-2006 U.S. calculations; Previous year pop. used for 2006 to present U.S. calculations

Source of Data: CDC STD Surveillance and Statistics; PA DOH EpiQMS; PA DOH STD Statistics; NEDSS; Erie County Dept of Health

Table 2 : Gonorrhea Annual Crude Incidence Rates: 2004 to 2007

Gonorrhea		2004				2005			
		Cases	Rate	Lower CL	Upper CL	Cases	Rate	Lower CL	Upper CL
Erie County	Total	225	79.5	69.1	89.9	370	131.7	118.3	145.1
	Male	58	41.9	31.1	52.7	122	88.8	73.0	104.6
	Female	167	115.5	98.0	133.0	248	173.0	151.5	194.5
	White	98	38.2	30.6	45.8	142	55.3	46.2	64.4
	Black	107	589.2	477.6	700.8	177	972.6	829.3	1,115.9
	Hispanic	9*	ND*			15*	218.1	107.7	328.5
	<15 yrs	3*	ND*			8*	ND*		
	15-19 yrs	71	330.9	253.9	407.9	114	548.5	447.8	649.2
	20-24 yrs	81	340.5	266.3	414.7	104	449.1	362.8	535.4
	25-29 yrs	30	187.5	120.4	254.6	61	366.7	274.7	458.7
	30-34 yrs	20	114.8	64.5	165.1	38	230.9	157.5	304.3
	35+ yrs	17	11.4	6.0	16.8	45	30.2	21.4	39.0
Pennsylvania	Total	11,236	90.6	88.9	92.2	11,222	90.3	88.6	92.0
	Male	4,941	82.1	79.8	84.4	4,950	82.2	79.9	84.5
	Female	6,295	98.5	96.1	100.9	6,271	97.8	95.4	100.2
	White	1,534	14.3	13.6	15.0	1,640	15.3	14.5	16.0
	Black	5,758	442.4	431.0	453.8	5,854	447.2	435.8	458.7
	Hispanic	446	93.8	85.1	102.5	405	80.0	72.2	87.8
United States	Total	330,132	112.6	112.2	113.0	339,593	114.8	114.4	115.2

Gonorrhea		2006				2007			
		Cases	Rate	Lower CL	Upper CL	Cases	Rate	Lower CL	Upper CL
Erie County	Total	435	155.1	140.5	169.7	521	186.2	170.2	202.2
	Male	157	114.3	96.4	132.2	199	144.9	124.8	165.0
	Female	278	194.3	171.5	217.1	322	226.1	201.4	250.8
	White	112	43.7	35.6	51.8	147	57.7	48.4	67.0
	Black	220	1,212.3	1,052.1	1,372.5	265	1,428.0	1,256.1	1,599.9
	Hispanic	18*	260.1	139.9	380.3	29	413.4	262.9	563.9
	<15 yrs	3*	ND*			6*	ND*		
	15-19 yrs	132	633.7	525.6	741.8	171	802.7	682.4	923.0
	20-24 yrs	139	603.9	503.5	704.3	159	723.5	611.0	836.0
	25-29 yrs	85	486.9	383.4	590.4	90	530.8	421.1	640.5
	30-34 yrs	36	227.8	153.4	302.2	44	281.0	198.0	364.0
	35+ yrs	40	26.8	18.5	35.1	51	33.9	24.6	43.2
Pennsylvania	Total	11,466	92.2	90.5	93.9	N/A			
	Male	5,247	86.9	84.6	89.3	N/A			
	Female	6,219	97.1	94.7	99.5	N/A			
	White	1,728	16.2	15.4	16.9	N/A			
	Black	5,810	439.1	427.8	450.4	N/A			
	Hispanic	473	89.8	81.7	97.8	N/A			
United States	Total	358,366	120.0	119.6	120.3	N/A			

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Source of Data: CDC STD Surveillance and Statistics; PA DOH EpiQMS; PA DOH STD Statistics; NEDSS; Erie County Dept of Health

Table 3: Gonorrhea Annual Crude Incidence Rate Comparisons: 2000 to 2004

Gonorrhea		Rate	Rate	% Change	Rate	Rate	% Change
		2000	2001		2001	2002	
Erie County	Total	47.4	95.1	100.6	95.1	90.5	-4.8
	Male	33.6	77.4	130.4	77.4	66.9	-13.6
	Female	60.5	111.9	85.0	111.9	113.0	1.0
	White	16.5	32.1	94.5	32.1	37.5	16.8
	Black	430.2	999.9	132.4	999.9	825.5	-17.4
	Hispanic	N/A	163.2		163.2	208.0	27.5
	<15 yrs*	ND*	ND*		ND*	ND*	
	15-19 yrs	156.2	321.4	105.8	321.4	243.5	-24.2
	20-24 yrs	235.1	475.0	102.0	475.0	435.7	-8.3
	25-29 yrs	128.8	193.2	50.0	193.2	311.3	61.1
	30-34 yrs*	ND*	143.3		143.3	94.3	-34.2
	35+ yrs*	9.6	20.7	115.6	20.7	15.0	-27.5
Pennsylvania	Total	109.1	112.6	3.2	112.6	108.5	-3.6
	Male	N/A	N/A		N/A		
	Female	N/A	N/A		N/A		
	White	N/A	13.3		13.3	15.2	14.3
	Black	N/A	665.9		665.9	612.2	-8.1
	Hispanic	N/A	125.5		125.5	106.1	-15.5
United States	Total	127.6	126.9	-0.5	126.9	122.2	-3.7

Gonorrhea		Rate	Rate	% Change	Rate	Rate	% Change
		2002	2003		2003	2004	
Erie County	Total	90.5	89.2	-1.4	89.2	79.5	-10.9
	Male	66.9	63.1	-5.7	63.1	41.9	-33.6
	Female	113.0	114.2	1.1	114.2	115.5	1.1
	White	37.5	45.6	21.6	45.6	38.2	-16.2
	Black	825.5	645.3	-21.8	645.3	589.2	-8.7
	Hispanic	208.0	202.1	-2.8	202.1	0.0	-100.0
	<15 yrs	ND*	ND*		ND*	ND*	
	15-19 yrs	243.5	302.8	24.4	302.8	330.9	9.3
	20-24 yrs	435.7	438.4	0.6	438.4	340.5	-22.3
	25-29 yrs	311.3	326.4	4.9	326.4	187.5	-42.6
	30-34 yrs*	94.3	73.1	-22.5	73.1	114.8	57.0
	35+ yrs	15.0	10.8	-28.0	10.8	11.4	5.6
Pennsylvania	Total	108.5	96.0	-11.5	96.0	90.6	-5.6
	Male	N/A	87.1		87.1	82.1	-5.7
	Female	N/A	104.2		104.2	98.5	-5.5
	White	15.2	14.6	-3.8	14.6	14.3	-2.2
	Black	612.2	484.2	-20.9	484.2	442.4	-8.6
	Hispanic	106.1	103.4	-2.5	103.4	93.8	-9.3
United States	Total	122.2	115.4	-5.6	115.4	112.6	-2.4

Red indicates significant difference

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Source of Data: CDC STD Surveillance and Statistics; PA DOH EpiQMS; PA DOH STD Statistics; NEDSS; Erie County Dept of Health

Table 4: Gonorrhea Annual Crude Incidence Rate Comparisons: 2004 to 2007

Gonorrhea		Rate	Rate	% Change	Rate	Rate	% Change
		2004	2005		2005	2006	
Erie County	Total	79.5	131.7	65.7	131.7	155.1	17.8
	Male	41.9	88.8	111.9	88.8	114.3	28.7
	Female	115.5	173.0	49.8	173.0	194.3	12.3
	White	38.2	55.3	44.8	55.3	43.7	-21.0
	Black	589.2	972.6	65.1	972.6	1,212.3	24.6
	Hispanic	ND*	218.1		218.1	260.1	19.3
	<15 yrs	ND*	ND*		ND*	ND*	
	15-19 yrs	330.9	548.5	65.8	548.5	633.7	15.5
	20-24 yrs	340.5	449.1	31.9	449.1	603.9	34.5
	25-29 yrs	187.5	366.7	95.6	366.7	486.9	32.8
	30-34 yrs	114.8	230.9	101.1	230.9	227.8	-1.3
	35+ yrs	11.4	30.2	164.9	30.2	26.8	-11.3
Pennsylvania	Total	90.6	90.3	-0.3	90.3	92.2	2.1
	Male	82.1	82.2	0.1	82.2	86.9	5.7
	Female	98.5	97.8	-0.7	97.8	97.1	-0.7
	White	14.3	15.3	6.8	15.3	16.2	6.0
	Black	442.4	447.2	1.1	447.2	439.1	-1.8
	Hispanic	93.8	80.0	-14.7	80.0	89.8	12.2
United States	Total	112.6	114.8	1.9	114.8	120.0	4.5

Gonorrhea		Rate	Rate	% Change
		2006	2007	
Erie County	Total	155.1	186.2	20.1
	Male	114.3	144.9	26.8
	Female	194.3	226.1	16.4
	White	43.7	57.7	32.0
	Black	1212.3	1428.0	17.8
	Hispanic	260.1	413.4	58.9
	<15 yrs	ND*	ND*	
	15-19 yrs	633.7	802.7	26.7
	20-24 yrs	603.9	723.5	19.8
	25-29 yrs	486.9	530.8	9.0
	30-34 yrs	227.8	281.0	23.4
	35+ yrs	26.8	33.9	26.5
Pennsylvania	Total	92.2	N/A	
	Male	86.9	N/A	
	Female	97.1	N/A	
	White	16.2	N/A	
	Black	439.1	N/A	
	Hispanic	89.8	N/A	
United States	Total	120.0	N/A	

Red indicates significant difference

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Previous year pop. used for Erie County calculations; Current year pop. used for PA calculations; Current year pop. used for 2000-2006 U.S. calculations; Previous year pop. used for 2006 to present U.S. calculations

Source of Data: CDC STD Surveillance and Statistics; PA DOH EpiQMS; PA DOH STD Statistics; NEDSS; Erie County Dept of Health

Table 5: Gonorrhea Three Year Crude Incidence Rates: 2000-2002 to 2005-2007

Gonorrhea		2000-2002				2001-2003			
		Cases	Rate	Lower CL	Upper CL	Cases	Rate	Lower CL	Upper CL
Erie County	Total	655	77.7	71.7	83.7	774	91.6	85.1	98.1
	Male	244	59.3	51.9	66.7	285	69.1	61.1	77.1
	Female	411	95.1	85.9	104.3	489	113.1	103.1	123.1
	White	221	28.7	24.9	32.5	297	38.4	34.0	42.8
	Black	392	752.5	678.0	827.0	434	821.0	743.8	898.2
	Hispanic	N/A				36	191.4	128.9	253.9
	<15 yrs	10*	5.8*	2.2	9.4	8*	ND*		
	15-19 yrs	161	240.4	203.3	277.5	192	289.3	248.4	330.2
	20-24 yrs	242	383.5	335.2	431.8	296	448.8	397.7	499.9
	25-29 yrs	105	209.1	169.1	249.1	135	275.1	228.7	321.5
	30-34 yrs	50	92.1	66.6	117.6	56	103.8	76.6	131.0
35+ yrs	66	15.1	11.5	18.7	68	15.5	11.8	19.2	
Pennsylvania	Total	40,608	110.0	108.9	111.1	39,074	105.6	104.6	106.6
United States	Total	1,072,552	125.5	125.3	125.7	1,048,661	121.5	121.3	121.7

Goorrhea		2002-2004				2003-2005			
		Cases	Rate	Lower CL	Upper CL	Cases	Rate	Lower CL	Upper CL
Erie County	Total	732	86.4	80.1	92.7	847	100.1	93.4	106.8
	Male	237	57.3	50.0	64.6	267	64.5	56.8	72.2
	Female	495	114.3	104.2	124.4	580	134.1	123.2	145.0
	White	313	40.3	35.8	44.8	358	46.2	41.4	51.0
	Black	369	685.6	615.6	755.6	400	736.2	664.1	808.3
	Hispanic	35	179.9	120.3	239.5	37	184.3	124.9	243.7
	<15 yrs	8*	ND*			13*	7.8*	3.6	12.0
	15-19 yrs	191	291.9	250.5	333.3	251	392.0	343.5	440.5
	20-24 yrs	280	403.9	356.6	451.2	287	408.7	361.4	456.0
	25-29 yrs	132	275.0	228.1	321.9	143	294.5	246.2	342.8
	30-34 yrs	50	93.9	67.9	119.9	71	137.4	105.4	169.4
35+ yrs	55	12.4	9.1	15.7	78	17.5	13.6	21.4	
Pennsylvania	Total	36,480	98.3	97.3	99.3	34,325	92.3	91.3	93.3
United States	Total	1,017,088	116.7	116.5	116.9	1,004,829	114.2	114.0	114.4

Gonorrhea		2004-2006				2005-2007			
		Cases	Rate	Lower CL	Upper CL	Cases	Rate	Lower CL	Upper CL
Erie County	Total	1,030	122.0	114.5	129.5	1,326	157.7	149.2	166.2
	Male	337	81.6	72.9	90.3	478	116.0	105.6	126.4
	Female	693	160.8	148.8	172.8	848	197.7	184.4	211.0
	White	352	45.6	40.8	50.4	401	49.1	44.3	53.9
	Black	504	924.7	844.0	1005.4	662	1205.8	1113.9	1297.7
	Hispanic	42	204.2	142.4	266.0	62	297.9	6.1	17.1
	<15 yrs	14*	8.5*	4.0	13.0	17*	11.6	6.1	17.1
	15-19 yrs	317	502.6	447.3	557.9	417	662.8	599.2	726.4
	20-24 yrs	324	463.1	412.7	513.5	402	589.8	532.1	647.5
	25-29 yrs	176	351.4	299.5	403.3	236	462.3	403.3	521.3
	30-34 yrs	94	189.2	151.0	227.4	118	246.2	201.8	290.6
35+ yrs	102	22.8	18.4	27.2	136	30.3	25.2	35.4	
Pennsylvania	Total	33,925	91.0	90.0	92.0	N/A			
United States	Total	1,028,091	116.2	116.0	116.4	N/A			

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Table 6: Gonorrhea Three Year Crude Incidence Rate Comparisons: 2000-2002 to 2005-2007

Gonorrhea		3 Year Rate	3 Year Rate	% Change	3 Year Rate	3 Year Rate	% Change
		2000-2002	2001-2003		2001-2003	2002-2004	
Erie County	Total	77.7	91.6	17.9	91.6	86.4	-5.7
	Male	59.3	69.1	16.5	69.1	57.3	-17.1
	Female	95.1	113.1	18.9	113.1	114.3	1.1
	White	28.7	38.4	33.8	38.4	40.3	4.9
	Black	752.5	821.0	9.1	821.0	685.6	-16.5
	Hispanic	N/A	191.4		191.4	179.9	-6.0
	<15 yrs	5.8	DSU*		ND*	ND*	
	15-19 yrs	240.4	289.3	20.3	289.3	291.9	0.9
	20-24 yrs	383.5	448.8	17.0	448.8	403.9	-10.0
	25-29 yrs	209.1	275.1	31.6	275.1	275.0	0.0
	30-34 yrs	92.1	103.8	12.7	103.8	93.9	-9.5
	35+ yrs	15.1	15.5	2.6	15.5	12.4	-20.0
Pennsylvania	Total	110.0	105.6		105.6	98.3	
United States	Total	125.5	121.5		121.5	116.7	

Gorrhea		3 Year Rate	3 Year Rate	% Change	3 Year Rate	3 Year Rate	% Change
		2002-2004	2003-2005		2003-2005	2004-2006	
Erie County	Total	86.4	100.1	15.9	100.1	122.0	21.9
	Male	57.3	64.5	12.6	64.5	81.6	26.5
	Female	114.3	134.1	17.3	134.1	160.8	19.9
	White	40.3	46.2	14.6	46.2	45.6	-1.3
	Black	685.6	736.2	7.4	736.2	924.7	25.6
	Hispanic	179.9	184.3	2.4	184.3	204.2	10.8
	<15 yrs*	ND*	7.8		7.8	8.5	9.0
	15-19 yrs	291.9	392.0	34.3	392.0	502.6	28.2
	20-24 yrs	403.9	408.7	1.2	408.7	463.1	13.3
	25-29 yrs	275.0	294.5	7.1	294.5	351.4	19.3
	30-34 yrs	93.9	137.4	46.3	137.4	189.2	37.7
	35+ yrs	12.4	17.5	41.1	17.5	22.8	30.3
Pennsylvania	Total	98.3	92.3	-6.1	92.3	91.0	-1.4
United States	Total	116.7	114.2	-2.1	114.2	116.2	1.8

Gonorrhea		3 Year Rate	3 Year Rate	% Change
		2004-2006	2005-2007	
Erie County	Total	122.0	157.7	29.3
	Male	81.6	116.0	42.2
	Female	160.8	197.7	22.9
	White	45.6	49.1	7.7
	Black	924.7	1,205.8	30.4
	Hispanic	204.2	297.9	45.9
	<15 yrs	8.5	11.6	36.5
	15-19 yrs	502.6	662.8	31.9
	20-24 yrs	463.1	589.8	27.4
	25-29 yrs	351.4	462.3	31.6
	30-34 yrs	189.2	246.2	30.1
	35+ yrs	22.8	30.3	32.9
Pennsylvania	Total	91.0	N/A	
United States	Total	116.2	N/A	

Red indicates significant difference

Rates based on numbers less than 20 are statistically unreliable; ND=Not displayed if count <10

Crude rate equals number of cases per 100,000 population; 95% Confidence Interval

Before 2003 some reported cases did not include age

Total includes unknown gender, race, and age; Hispanic origin can be of any race; There may be multiple diseases in one person; Some individuals may become infected more than once

U.S Census Bureau, Intercensal Population Estimates used for Erie County and U.S.; PA DOH Intercensal Population Estimates used for PA

Previous year pop. used for Erie County calculations; Current year pop. used for PA calculations; Current year pop. used for 2000-2006 U.S. calculations; Previous year pop. used for 2006 to present U.S. calculations

Source of Data: CDC STD Surveillance and Statistics; PA DOH EpiQMS; PA DOH STD Statistics; NEDSS; Erie County Dept of Health

Table 7: Gonorrhea Five Year Crude Incidence Rates: 2000-2004 to 2003-2007

Gonorrhea		2000-2004				2001-2005			
		Cases	Rate	Lower CL	Upper CL	Cases	Rate	Lower CL	Upper CL
Erie County	Total	1,132	80.4	75.7	85.1	1,369	97.2	92.1	102.3
	Male	389	56.6	51.0	62.2	465	67.6	61.5	73.7
	Female	743	103.1	95.7	110.5	904	125.5	117.3	133.7
	White	437	33.9	30.7	37.1	537	41.7	38.2	45.2
	Black	615	697.1	642.0	752.2	718	804.7	745.8	863.6
	Hispanic	N/A				60	184.9	138.1	231.7
	<15 yrs	15*	5.3	2.6	8.0	19*	6.8	3.7	9.9
	15-19 yrs	298	270.3	239.6	301.0	377	347.1	312.1	382.1
	20-24 yrs	425	385.8	349.1	422.5	481	426.0	387.9	464.1
	25-29 yrs	187	227.6	195.0	260.2	226	276.6	240.5	312.7
	30-34 yrs	83	92.7	72.8	112.6	114	129.8	106.0	153.6
	35+ yrs	99	13.5	10.8	16.2	130	17.6		
	Pennsylvania	Total	63,710	103.3	102.5	104.1	61,533	99.5	98.7
United States	Total	1,737,788	150.7	150.5	150.9	1,718,386	147.5	147.3	147.7

Gonorrhea		2002-2006				2003-2007			
		Cases	Rate	Lower CL	Upper CL	Cases	Rate	Lower CL	Upper CL
Erie County	Total	1,537	109.1	103.6	114.6	1,803	128.2	122.3	134.1
	Male	516	74.9	68.4	81.4	623	90.5	83.4	97.6
	Female	1,021	141.9	133.2	150.6	1,180	164.4	155.0	173.8
	White	567	44.0	40.4	47.6	617	48.0	44.2	51.8
	Black	766	849.5	789.3	909.7	885	972.1	908.1	1,036.1
	Hispanic	68	204.5	155.9	253.1	84	246.9	194.1	299.7
	<15 yrs	19*	6.9	3.8	10.0	22	8.5	4.9	12.1
	15-19 yrs	437	408.3	370.0	446.6	554	521.8	478.3	565.3
	20-24 yrs	523	452.8	414.0	491.6	585	507.7	466.6	548.8
	25-29 yrs	278	338.7	298.9	378.5	318	383.2	341.1	425.3
	30-34 yrs	124	145.0	119.5	170.5	151	181.6	152.6	210.6
	35+ yrs	140	18.9	15.8	22.0	169	22.7	19.3	26.1
	Pennsylvania	Total	59,169	95.5	94.7	96.3	N/A		
United States	Total	1,715,047	117.2	117.0	117.4	N/A			

*Numbers less than 20 are statistically unreliable; ND=Not displayed if count <10

Crude rate equals number of cases per 100,000 population; 95% Confidence Interval; CL=Confidence Limit

Before 2003 some reported cases did not include age

Total includes unknown gender, race, and age; Hispanic origin can be of any race; There may be multiple diseases in one person; Some individuals may become infected more than once

U.S Census Bureau, Intercensal Population Estimates used for Erie County and U.S.; PA DOH Intercensal Population Estimates used for PA

Previous year pop. used for Erie County calculations; Current year pop. used for PA calculations; Current year pop. used for 2000-2006 U.S. calculations; Previous year pop. used for 2006 to present U.S. calculations

Source of Data: CDC STD Surveillance and Statistics; PA DOH EpiQMS; PA DOH STD Statistics; NEDSS; Erie County Dept of Health

Table 8: Gonorrhea Five Year Crude Incidence Rate Comparisons: 2000-2004 to 2002-007

Gonorrhea		5 Year Rate	5 Year Rate	% Change	5 Year Rate	5 Year Rate	% Change
		2000-2004	2001-2005		2001-2005	2002-2006	
Erie County	Total	80.4	97.2	20.9	97.2	109.1	12.2
	Male	56.6	67.6	19.4	67.6	74.9	10.8
	Female	103.1	125.5	21.7	125.5	141.9	13.1
	White	33.9	41.7	23.0	41.7	44.0	5.5
	Black	697.1	804.7	15.4	804.7	849.5	5.6
	Hispanic	N/A	184.9		184.9	204.5	10.6
	<15 yrs	5.3	6.8	28.3	6.8	6.9	1.5
	15-19 yrs	270.3	347.1	28.4	347.1	408.3	17.6
	20-24 yrs	385.8	426.0	10.4	426.0	452.8	6.3
	25-29 yrs	227.6	276.6	21.5	276.6	338.7	22.5
	30-34 yrs	92.7	129.8	40.0	129.8	145.0	11.7
	35+ yrs	13.5	17.6	30.4	17.6	18.9	7.4
Pennsylvania	Total	103.3	99.5	-3.7	99.5	95.5	-4.0
United States	Total	150.7	147.5	-2.1	147.5	117.2	-20.5

Gonorrhea		5 Year Rate	5 Year Rate	% Change
		2002-2006	2003-2007	
Erie County	Total	109.1	128.2	17.5
	Male	74.9	90.5	20.8
	Female	141.9	164.4	15.9
	White	44.0	48.0	9.1
	Black	849.5	972.1	14.4
	Hispanic	204.5	246.9	20.7
	<15 yrs	6.9	8.5	23.2
	15-19 yrs	408.3	521.8	27.8
	20-24 yrs	452.8	507.7	12.1
	25-29 yrs	338.7	383.2	13.1
	30-34 yrs	145.0	181.6	25.2
	35+ yrs	18.9	22.7	20.1
Pennsylvania	Total	95.5	N/A	
United States	Total	117.2	N/A	

Red indicates significant difference

Rates based on numbers less than 20 are statistically unreliable; ND=Not displayed if count <10

Crude rate equals number of cases per 100,000 population; 95% Confidence Interval

Before 2003 some reported cases did not include age

Total includes unknown gender, race, and age; Hispanic origin can be of any race; There may be multiple diseases in one person; Some individuals may become infected more than once

U.S Census Bureau, Intercensal Population Estimates used for Erie County and U.S.; PA DOH Intercensal Population Estimates used for PA

Previous year pop. used for Erie County calculations; Current year pop. used for PA calculations; Current year pop. used for 2000-2006 U.S. calculations; Previous year pop. used for 2006 to present U.S. calculations

Source of Data: CDC STD Surveillance and Statistics; PA DOH EpiQMS; PA DOH STD Statistics; NEDSS; Erie County Dept of Health

TECHNICAL NOTES

- Crude incidence rates are the number of cases per 100,000 population for a specific area or group.
- Annual population numbers used to calculate crude rates for Erie County and the U.S. are from the U.S. Census Bureau, Population Division, Population Estimates.
- Erie County population profile for 2006: 49.1% male; 50.9% female; 91.1% white; 6.6% black or African-American; 2.5% Hispanic; 19.0% <15 yrs; 7.6% 15-19 yrs; 7.9% 20-24 yrs; 6.1% 25-29 yrs; 5.6% 30-34 yrs; 53.8% 35+ yrs.
- Annual population numbers used to calculate crude rates for PA are from EpiQMS.
- Rates for Erie County as reported by the PA DOH may differ from the Erie County rates in this report due to the use of different population estimates for Erie County.
- Previous year population estimates are used to calculate Erie County rates; Current year population estimates are used to calculate PA rates; From 2000-2005, current year population estimates are used to calculate U.S. rates; Previous year population estimates are used to calculate 2006 U.S. rates.
- Reported rates may differ depending on the population estimate used for calculation.
- Rates based on <10 events are not reported. Rates based on 10 to 19 events are reported but statistically unreliable.
- Three and five year crude incidence rates are the sum of the number of cases for the targeted years divided by the sum of the population estimates for the targeted years multiplied by 100,000.
- Age reporting for some cases was not complete before 2003.
- Hispanic origin may be of any race.
- 95% confidence limits for crude rates are: $CL = Rate (r) \pm Confidence\ Interval (CI)$
where $CI = 1.96 \times r/\sqrt{n}$ and $n =$ the number of cases
- 95% significance tests used to compare independent annual rates within the same population group or between non-overlapping three and five year average annual rates within the same population groups are:
 - 10-99 events Rate Difference Equation $CI = (r_1 - r_2) \pm \sqrt{(CL_1 + CL_2)}$ where $CL = 1.96 \times (r/\sqrt{n})$
 - ≥ 100 events Rate Ratio Equation $CI = r_1/r_2 \pm 1.96 \times r_1/r_2 \sqrt{((1/n_1) + (1/n_2))}$
- 95% significance test used to compare overlapping, dependent three and five year rates within the same population groups are:
 - 10-99 events Expected and Observed $\mu = (o-e)/\sqrt{e}$ where $o =$ observed cases
 $e =$ expected cases
 - ≥ 100 events Rate Difference Equation $\mu = (r_1 - r_2) \times \sqrt{(n/(r_2 - r_2^2))}$.

DATA SOURCES

- Erie County Department of Health at <http://www.ecdh.org>
- PA Department of Health, Bureau of Communicable Diseases, Sexually Transmitted Diseases at <http://www.health.state.pa.us>
- PA Department of Health, Bureau of Health Statistics and Research, EpiQMS at <http://www.dsf.health.state.pa.us>
- PA Department of Health, Bureau of Health Statistics and Research, Technical Assistance, “Tools of the Trade” at <http://www.dsf.health.state.pa.us>
- National Electronic Disease Surveillance System (NEDSS)
- Centers for Disease Control and Prevention, Sexually Transmitted Diseases at <http://www.cdc.gov/std/default.htm>
- United State Census Bureau, Population Division, Population Estimates at <http://www.census.gov>
- MedlinePlus – Medical Encyclopedia
- The above organizations provided data included in this report. These organizations specifically disclaim responsibility for any analyses, interpretations, or conclusions.
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