California Gonorrhea Surveillance System (CGSS)
Summary Data Tables for Cases Diagnosed January 1 - December 31, 2011 and Graphs of Trends from 2007-2011 for Selected Risk Factors and Subpopulations

PROJECT BACKGROUND

In response to changing trends in gonorrhea rates, the State of California Sexually Transmitted Disease Control Branch initiated the California Gonorrhea Surveillance System (CGSS) in order to collect risk factor and clinical data on cases beyond what is routinely available through case morbidity reports.

METHODS

Data collection in CGSS is based on a 5-10% random sample of the State's reported gonorrhea (GC) cases, with roughly half of the State's local health jurisdictions (LHJs) choosing to over-sample and interview all of their cases. Data collection includes case-reported variables (detailed demographics, behavioral risk factors) and provider-reported clinical variables (symptom status, treatment, etc.). Most analyses are presented with stratification by region and sexual orientation. In tables where both "N" and "n" are provided, "N" represents the number of cases who answered each question, while "n" represents the number of respondents who answered affirmatively. To account for the sampling scheme and for variable response rates by LHJ, data are weighted for all analyses. In Tables 1 through 14, weighted count data are rounded to integers.

Regions are defined as follows:
Northern California – Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Glenn, Humboldt, Lake, Lassen, Mendocino, Modoc, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Sierra, Siskiyou, Sutter, Tehama, Trinity, Yolo, Yuba

Bay Area (excluding San Francisco) – Alameda, Berkeley, Contra Costa, Marin, Napa, San Mateo, Santa Clara, Solano, Sonoma

San Francisco County

Central California – Fresno, Inyo, Kings, Madera, Mariposa, Merced, Mono, Monterey, San Benito, Santa Cruz, Stanislaus, Tulare, Tuolumne

Southern California (excluding Los Angeles) – Imperial, Kern, Long Beach, Orange, Pasadena, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Los Angeles County

California Gonorrhea Surveillance System
2011 Annual Data Report

Key Observations among Interviewed 2011 Cases	
Gender and Sexual Orientation	❖ Among all California gonorrhea cases, 64.4% were male and 35.6% were female; men who have sex with men (MSM) accounted for 60.8% of male cases (and 38.8% of all cases).
Number of partners	❖ Most heterosexual male and female cases reported one or two partners in the 3 months before their infection (63.7% and 89.1% respectively), and few reported 5 or more partners. Among MSM, 35.2% reported 5 or more partners, including 17.9% who reported 10 or more.
Treatment adherence	❖ Nearly 70% of cases were treated with dual therapy in 2011 (64% treated with the recommended IM ceftriaxone >=250mg plus azithromycin >1g or doxycycline 100mg >=7 days); an additional 25.6% of cases were treated with only cephalosporin, azithromycin 2g, or insufficient dual therapy. ❖ Correctional and private health maintenance organization settings had the highest proportions of cases that were not treated with recommended dual therapy.
Substance use	❖ Self-reported methamphetamine (meth) use in the past 12 months has decreased from 2007 to 2011 among MSM and among heterosexual men and women, but amyl nitrate/popper use increased in the past 12 months among MSM during that same period.
Venues	❖ Self-reported use of the internet as a means of meeting sex partners increased among MSM and among heterosexual men and women; the increase was most notable among MSM, with 64.4% reporting meeting partners online in 2011.
Incarceration	❖ Recent history of incarceration continued to be noteworthy among heterosexual men (20.8%) and women (7.8%); higher proportions of Northern and Bay Area cases reported incarceration compared to other regions in the state.
Clinical Factors	❖ Among MSM, testing of multiple anatomic sites (urethra, throat, rectum) increased markedly from 2007 to 2011. ❖ Proportions of reported gonorrhea infection in the past 12 months were high (11.8%) among MSM.
HIV Status	❖ The majority of cases in 2011 reported having ever been tested for HIV; lack of awareness of status was highest among cases in Central California. ❖ Over a quarter (26.9%) of MSM cases reported they were HIV infected at the time of their GC diagnosis.

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Table 1. Weighted and Unweighted Case Counts by Region and Gender of Sex Partners, CGSS, 2011

	Female (All)		MSM		Male Heterosexual				
	n	%	n	%	n	%	Weighted %[1]	Weighted N[1]	Unweighted N[1]
State Totals	**524**	**35.6%**	**572**	**38.8%**	**376**	**25.6%**	**100.0%**	**1495**	**1495**
By Region									
Northern	77	55.6%	25	18.3%	36	26.2%	9.2%	138.3	196
Bay Area	64	34.5%	49	26.4%	72	39.1%	12.4%	185.3	220
San Francisco	12	9.9%	105	83.7%	8	6.3%	8.5%	127.0	255
Central	43	44.0%	13	13.5%	41	42.5%	6.6%	98.7	127
Southern	160	40.8%	122	31.1%	110	28.1%	27.0%	403.7	508
Los Angeles	169	31.6%	258	48.1%	109	20.3%	36.3%	542.1	189

[1] N includes individuals with unknown gender of sex partners; unknown excluded from percent calculations and further analyses.

Figure 1. Gender of Sex Partner, CGSS, 2007-2011

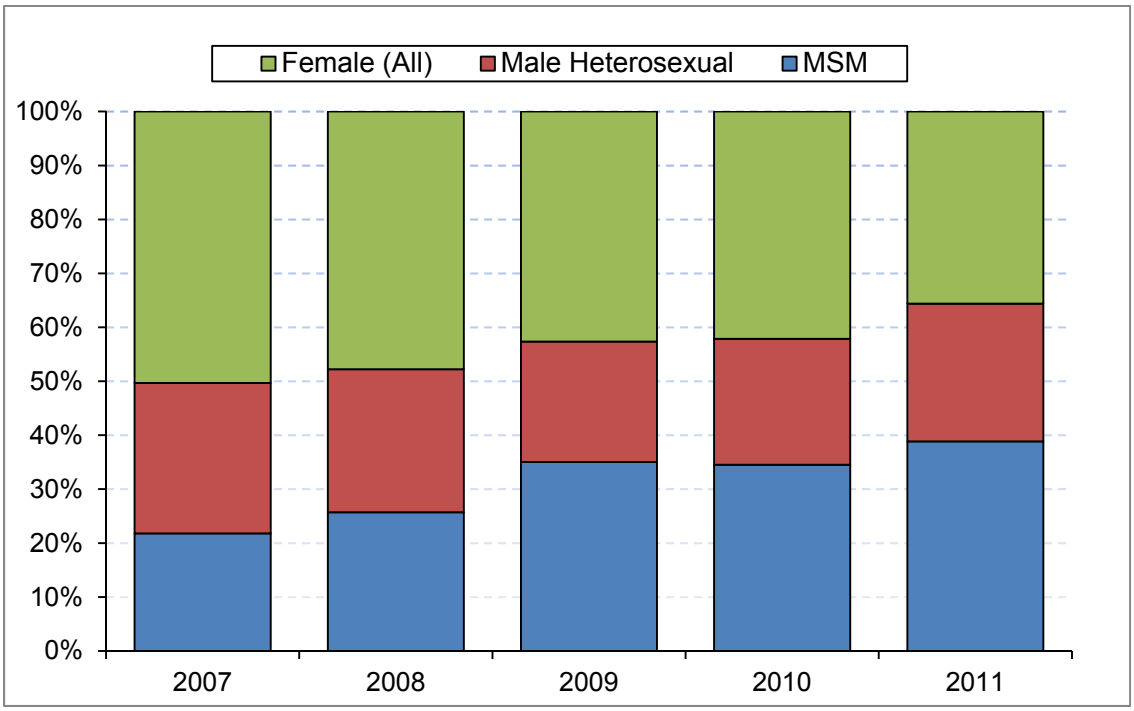

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Table 2 – Number of Sex Partners (Categorical) in the 3 Months Prior to GC Infection, CGSS, 2011

Analyses weighted due to sampling design [n's rounded to integers]

		Female (All)		MSM		Male Heterosexual		
	# Partners[1]	**n**	**%**	**n**	**%**	**n**	**%**	**Total**
State Totals	1 Partner	311	62.5%	66	12.2%	115	31.0%	34.8%
	2 Partners	132	26.6%	141	25.8%	135	36.3%	28.9%
	3-4 Partners	39	7.8%	148	27.1%	96	26.0%	20.0%
	5-9 Partners	13	2.6%	94	17.3%	16	4.5%	8.8%
	10+ Partners	2	0.6%	95	17.9%	9	2.7%	8.4%

		Female (All)		MSM		Male Heterosexual		
By Region	**# Partners[1]**	**n**	**%**	**n**	**%**	**n**	**%**	**Total**
Northern	1 Partner	52	68.3%	10	38.8%	20	59.8%	60.7%
	2 Partners	13	16.8%	6	23.7%	7	19.3%	18.7%
	3-4 Partners	9	11.6%	5	19.3%	4	11.9%	13.1%
	5-9 Partners	2	2.7%	5	18.2%	1	3.8%	5.8%
	10+ Partners	1	0.7%	0	0.0%	2	5.3%	2.1%
Bay Area	1 Partner	34	56.9%	7	14.4%	15	20.8%	31.1%
	2 Partners	15	25.2%	18	37.9%	33	47.2%	37.3%
	3-4 Partners	8	13.6%	7	13.6%	19	26.9%	18.9%
	5-9 Partners	2	4.2%	8	16.4%	3	4.0%	7.4%
	10+ Partners	0	0.1%	9	17.7%	1	1.2%	5.3%
San Francisco	1 Partner	2	29.4%	10	12.5%	4	50.0%	16.9%
	2 Partners	3	35.3%	14	16.7%	2	25.0%	18.9%
	3-4 Partners	1	11.8%	21	25.0%	2	25.0%	23.9%
	5-9 Partners	0	5.9%	18	22.0%	0	0.0%	20.5%
	10+ Partners	1	17.6%	20	23.8%	0	0.0%	23.2%
Central	1 Partner	27	65.4%	3	21.6%	18	44.8%	50.6%
	2 Partners	14	33.5%	6	46.7%	13	33.5%	35.3%
	3-4 Partners	0	0.8%	1	7.6%	6	15.0%	7.8%
	5-9 Partners	0	0.2%	0	1.5%	0	0.3%	0.4%
	10+ Partners	0	0.2%	3	22.6%	3	6.4%	5.9%
Southern	1 Partner	97	63.6%	13	11.1%	35	32.1%	37.9%
	2 Partners	42	27.3%	42	34.4%	36	33.3%	31.3%
	3-4 Partners	12	7.6%	37	30.3%	31	28.3%	20.7%
	5-9 Partners	2	1.4%	15	11.9%	4	3.3%	5.3%
	10+ Partners	0	0.1%	15	12.3%	3	3.0%	4.8%
Los Angeles	1 Partner	98	61.8%	23	9.1%	23	21.1%	27.6%
	2 Partners	46	29.1%	54	21.6%	43	39.5%	27.6%
	3-4 Partners	9	5.5%	77	30.7%	34	31.6%	23.2%
	5-9 Partners	6	3.6%	49	19.3%	9	7.9%	12.2%
	10+ Partners	0	0.0%	49	19.3%	0	0.0%	19.3%

[1] Excludes individuals who reported no sexual partners in the 3 months prior to their infection.

Table 3. Drug Class Received at Initial Treatment,[1,2] CGSS, 2011

Analyses weighted due to sampling design [n's rounded to integers]

		Female (All)		MSM		Male Heterosexual		
	Drug Class	**n**	**%**	**n**	**%**	**n**	**%**	**Total**
State Totals	IM recommended dual tx	240	53.5%	394	74.0%	214	61.8%	63.9%
	Oral recommended dual tx	34	7.5%	16	3.1%	16	4.6%	5.0%
	Ceph alone, Azithro (2g) alone, or insufficient dual tx	146	32.6%	101	19.0%	93	26.8%	25.6%
	Inadequate tx	28	6.4%	21	4.0%	23	6.8%	5.5%

		Female (All)		MSM		Male Heterosexual		
By Region	**Drug Class**	**n**	**%**	**n**	**%**	**n**	**%**	**Total**
Northern	IM recommended dual tx	37	54.9%	13	48.8%	28	72.6%	59.1%
	Oral recommended dual tx	10	14.7%	1	3.7%	0	0.8%	8.3%
	Ceph alone, Azithro (2g) alone, or insufficient dual tx	16	23.0%	11	40.3%	10	26.0%	27.3%
	Inadequate tx	5	7.3%	2	7.2%	0	0.6%	5.3%
Bay Area	IM recommended dual tx	41	71.9%	26	69.6%	43	65.4%	68.6%
	Oral recommended dual tx	5	9.2%	1	2.8%	3	3.8%	5.7%
	Ceph alone, Azithro (2g) alone, or insufficient dual tx	10	17.2%	9	25.2%	19	29.5%	23.9%
	Inadequate tx	1	1.7%	1	2.4%	1	1.3%	1.9%
San Francisco	IM recommended dual tx	7	63.6%	86	83.7%	4	66.7%	81.0%
	Oral recommended dual tx	0	0.0%	0	0.0%	0	0.0%	0.0%
	Ceph alone, Azithro (2g) alone, or insufficient dual tx	3	22.7%	9	9.2%	0	0.0%	9.9%
	Inadequate tx	2	13.6%	7	7.1%	2	33.3%	9.1%
Central	IM recommended dual tx	18	63.2%	4	39.5%	11	37.0%	47.9%
	Oral recommended dual tx	3	9.5%	3	23.7%	5	15.4%	14.1%
	Ceph alone, Azithro (2g) alone, or insufficient dual tx	8	26.8%	4	36.3%	11	35.7%	32.4%
	Inadequate tx	0	0.5%	0	0.6%	4	11.8%	5.6%
Southern	IM recommended dual tx	72	49.4%	98	84.7%	79	77.4%	68.3%
	Oral recommended dual tx	7	4.6%	3	2.3%	2	2.3%	3.3%
	Ceph alone, Azithro (2g) alone, or insufficient dual tx	56	38.0%	10	8.7%	16	16.0%	22.4%
	Inadequate tx	12	8.0%	5	4.2%	4	4.4%	5.7%
Los Angeles	IM recommended dual tx	64	46.7%	167	69.6%	48	47.1%	58.4%
	Oral recommended dual tx	9	6.7%	9	3.8%	6	5.9%	5.0%
	Ceph alone, Azithro (2g) alone, or insufficient dual tx	54	40.0%	58	24.1%	36	35.3%	31.0%
	Inadequate tx	9	6.7%	6	2.5%	12	11.8%	5.6%

[1] Recommended treatments are based on CDC STD Treatment Guidelines; recommended treatment is IM ceftriaxone >= 250mg PLUS azithromycin >=1g or doxycycline 100mg po bid >=7d; in addition, the oral cephalosporins cefixime 400mg or cefpodoxime 400 mg PLUS azithromycin >=1g or doxycycline 100mg po bid >= 7d are considered an appropriate alternative.

[2] Excludes cases that did not receive any treatment for gonorrhea.

Figure 2. Proportion of Cases Statewide that Received a Non-recommended Gonorrhea Treatment or no Treatment, by Setting of Diagnosis, CGSS, 2011

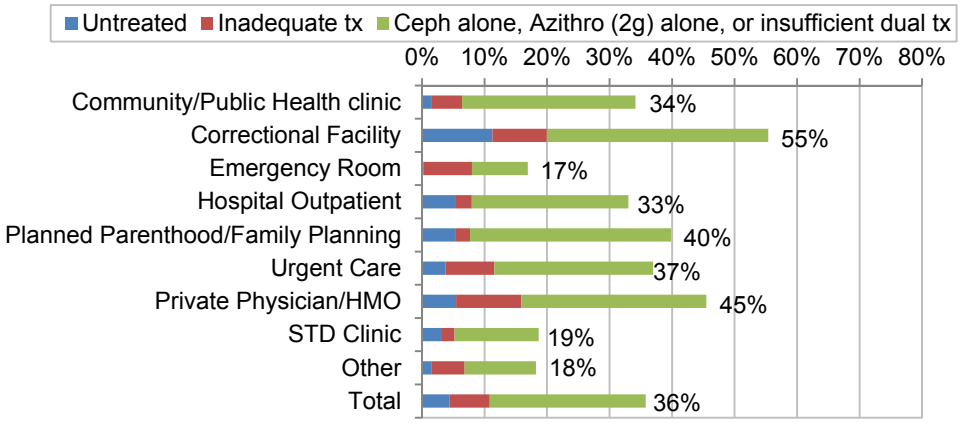

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Table 4. Methamphetamine Use in the 12 Months Prior to Infection, Risk Factors by Region and Gender of Sex Partners, CGSS, 2011
Analyses weighted due to sampling design [N's rounded to integers]

	Female (All)			MSM			Male Heterosexual			
	N	n	%	N	n	%	N	n	%	Overall %
State Totals	**499**	**15**	**3.1%**	**538**	**65**	**12.1%**	**367**	**20**	**5.6%**	**7.2%**
By Region										
Northern	74	5	6.5%	25	2	7.5%	34	4	12.2%	8.2%
Bay Area	60	3	4.3%	47	6	13.0%	70	3	4.7%	6.8%
San Francisco	8	1	11.8%	84	9	11.2%	8	1	12.5%	11.4%
Central	43	0	1.1%	13	2	13.4%	40	8	18.8%	10.2%
Southern	151	4	2.5%	119	12	9.9%	106	4	4.2%	5.3%
Los Angeles	163	3	1.8%	250	34	13.8%	109	0	0.0%	7.1%

Figure 3. Methamphetamine Use in the 12 Months Prior to Infection, CGSS, 2007-2011

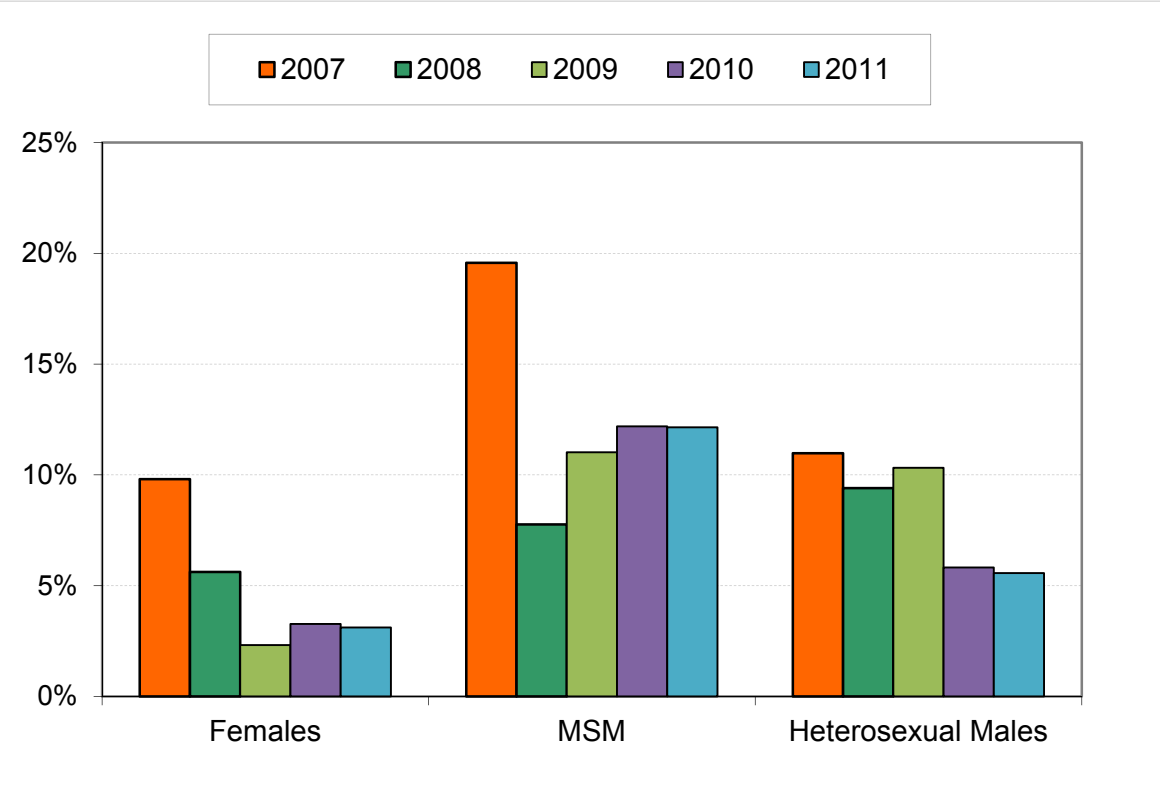

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Table 5. Sex Partner Methamphetamine Use in the 12 Months Prior to Infection Risk Factors by Region and Gender of Sex Partners, CGSS, 2011
Analyses weighted due to sampling design [N's rounded to integers]

	Female (All)			MSM			Male Heterosexual			
	N	n	%	N	n	%	N	n	%	Overall %
State Totals	**459**	**29**	**6.3%**	**356**	**81**	**22.8%**	**272**	**29**	**10.6%**	**12.8%**
By Region[1]										
Northern	68	6	8.8%	22	0	0.3%	23	3	11.0%	7.6%
Bay Area	57	5	8.4%	30	9	29.0%	47	9	20.0%	17.2%
Central	40	6	14.8%	11	2	16.2%	41	8	19.1%	16.9%
Southern	143	7	4.7%	97	22	22.3%	80	6	7.4%	10.7%
Los Angeles	152	6	3.8%	195	49	25.0%	80	3	3.6%	13.4%

[1] Data not available for San Francisco.

Table 6. Popper (Amyl Nitrate) Use in the 12 Months Prior to Infection Risk Factors by Region and Gender of Sex Partners, CGSS, 2011
Analyses weighted due to sampling design [N's rounded to integers]

	Female (All)			MSM			Male Heterosexual			
	N	n	%	N	n	%	N	n	%	Overall %
State Totals	**499**	**1**	**0.2%**	**538**	**109**	**20.2%**	**365**	**0**	**0.0%**	**7.8%**
By Region										
Northern	74	0	0.0%	25	4	14.7%	34	0	0.0%	2.8%
Bay Area	60	0	0.0%	47	9	18.8%	70	0	0.0%	5.0%
San Francisco	8	1	11.8%	84	24	28.6%	7	0	0.0%	25.0%
Central	43	0	0.0%	13	0	0.5%	40	0	0.0%	0.1%
Southern	151	0	0.0%	120	18	14.7%	104	0	0.0%	4.7%
Los Angeles	163	0	0.0%	250	54	21.8%	109	0	0.0%	10.4%

Figure 4. Popper Use in the 12 Months Prior to Infection, CGSS, 2007-2011

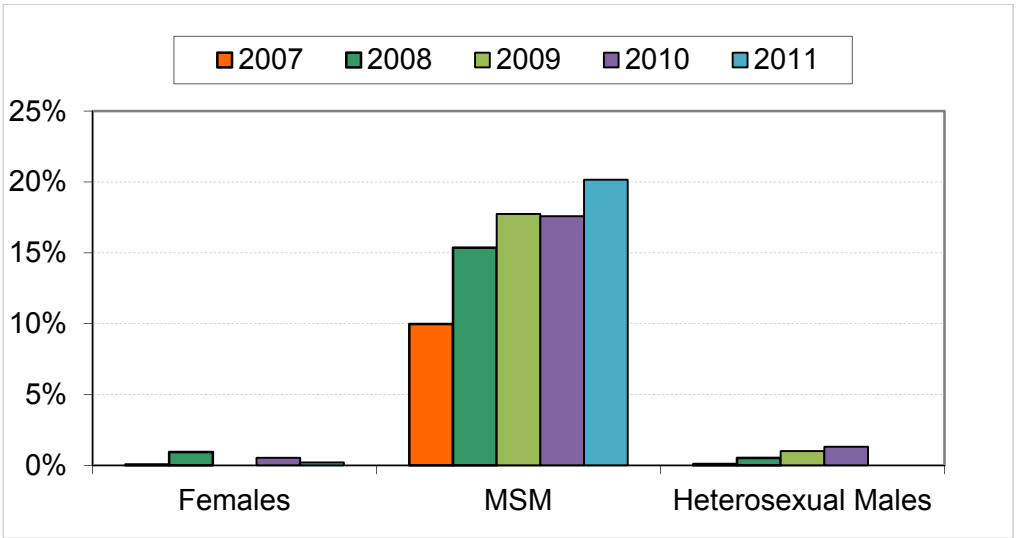

Table 7. Internet Used to Meet New or Anonymous Sex Partners, Risk Factors by Region and Gender of Sex Partners, CGSS, 2011
Analyses weighted due to sampling design [N's rounded to integers]

	Female (All)			MSM			Male Heterosexual			
	N	n	%	N	n	%	N	n	%	Overall %
State Totals	**196**	**18**	**9.2%**	**446**	**287**	**64.4%**	**224**	**25**	**11.1%**	**38.1%**
By Region										
Northern	35	3	9.1%	18	4	24.0%	17	3	20.2%	15.7%
Bay Area	22	1	5.7%	32	21	65.8%	44	5	11.8%	28.1%
San Francisco	2	1	40.0%	53	46	86.8%	3	0	14.3%	80.5%
Central	11	0	1.2%	13	10	82.8%	17	2	14.1%	32.1%
Southern	61	7	11.3%	106	65	60.8%	71	8	10.8%	33.3%
Los Angeles	66	6	8.7%	224	141	62.8%	72	6	8.0%	42.1%

Figure 5. Internet Used to Meet New Partners in the 12 Months Prior to Infection, by Sexual Orientation, CGSS, 2007-2011

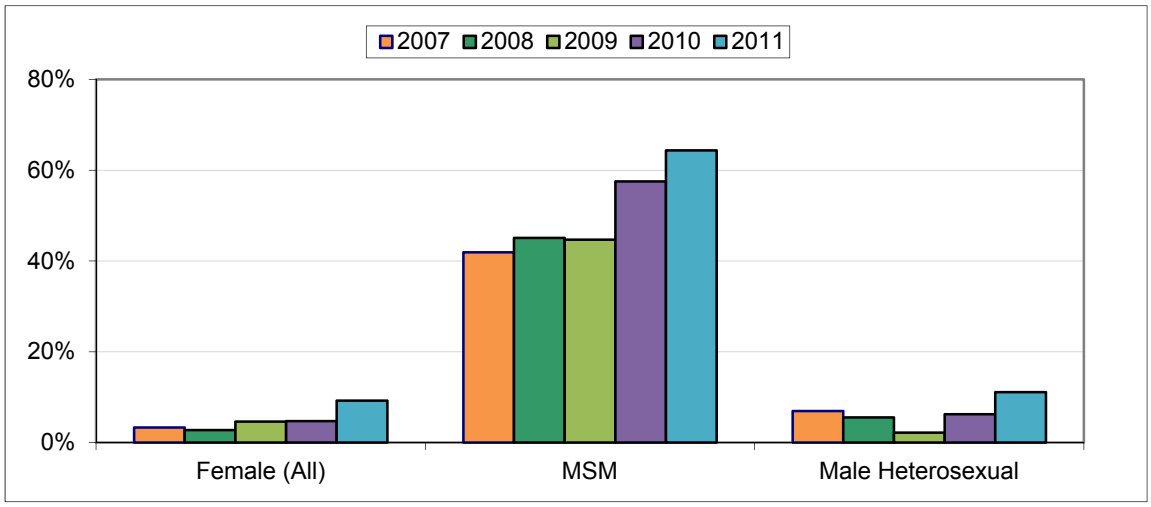

Table 8. Bathhouses/Spas/Sex Clubs[1] Used to Meet New or Anonymous Sex Partners, Risk Factors by Region and Gender of Sex Partners, CGSS, 2011
Analyses weighted due to sampling design [N's rounded to integers]

	Female (All)			MSM			Male Heterosexual			
	N	n	%	N	n	%	N	n	%	Overall %
State Totals	**194**	**2**	**0.9%**	**393**	**43**	**10.9%**	**220**	**2**	**0.9%**	**5.8%**
By Region[2]										
Northern	35	2	5.2%	18	0	0.0%	17	2	10.8%	5.2%
Bay Area	22	0	0.0%	32	7	23.3%	44	0	0.0%	7.6%
Central	11	0	0.0%	13	0	0.0%	17	0	0.0%	0.0%
Southern	61	0	0.0%	106	10	8.9%	71	0	0.1%	4.0%
Los Angeles	66	0	0.0%	224	26	11.5%	72	0	0.0%	7.1%

[1] Calculations for venues are restricted to individuals reporting new or anonymous partners.
[2] Data not available for San Francisco.

Table 9. Case Incarcerated in the 12 Months Prior to Infection, Risk Factors by Region and Gender of Sex Partners, CGSS, 2011
Analyses weighted due to sampling design [N's rounded to integers]

	Female (All)			MSM			Male Heterosexual			
	N	n	%	N	n	%	N	n	%	Overall %
State Totals	**496**	**39**	**7.8%**	**524**	**14**	**2.8%**	**361**	**75**	**20.8%**	**9.3%**
By Region										
Northern	75	9	12.0%	25	0	0.3%	34	15	44.4%	18.1%
Bay Area	58	6	10.7%	47	1	2.1%	69	20	28.7%	15.5%
San Francisco	6	0	0.0%	68	0	0.7%	3	0	16.7%	1.3%
Central	43	3	6.7%	13	0	1.0%	41	5	12.6%	8.4%
Southern	151	6	4.2%	122	4	3.4%	105	17	16.4%	7.4%
Los Angeles	163	14	8.8%	250	9	3.4%	109	17	15.8%	7.7%

Table 10. Sex Partner Incarcerated in the 12 Months Prior to Case's Infection, Risk Factors by Region and Gender of Sex Partners, CGSS, 2011
Analyses weighted due to sampling design [N's rounded to integers]

	Female (All)			MSM			Male Heterosexual			
	N	n	%	N	n	%	N	n	%	Overall %
State Totals	**469**	**102**	**21.8%**	**423**	**14**	**3.2%**	**310**	**16**	**5.1%**	**10.9%**
By Region										
Northern	70	34	49.0%	23	0	0.0%	27	0	1.1%	28.8%
Bay Area	53	17	32.0%	27	0	0.0%	49	2	3.4%	14.4%
San Francisco	6	1	16.7%	65	0	0.0%	3	0	0.0%	1.3%
Central	42	7	17.4%	9	0	0.7%	41	5	12.3%	13.5%
Southern	146	25	17.5%	103	8	7.6%	92	3	3.3%	10.7%
Los Angeles	152	17	11.3%	195	6	2.9%	98	6	5.9%	6.5%

Figure 6. Any Incarceration in the 12 Months Prior to Infection among Cases and their Sex Partners, CGSS, 2011

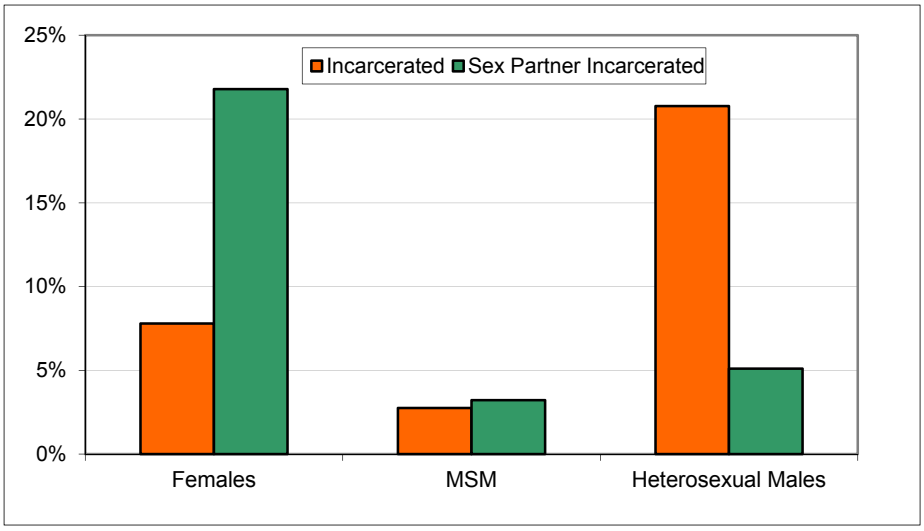

Table 11. Symptomatic Infection,
Clinical Factors by Region and Gender of Sex Partners, CGSS, 2011
Analyses weighted due to sampling design [N's rounded to integers]

	Female (All)			MSM			Male Heterosexual			
	N	n	%	N	n	%	N	n	%	Overall %
State Totals	**405**	**205**	**50.7%**	**484**	**283**	**58.4%**	**312**	**273**	**87.4%**	**63.3%**
By Region										
Northern	58	33	56.5%	24	22	91.8%	36	30	83.3%	71.9%
Bay Area	44	14	32.8%	31	19	61.7%	59	49	83.2%	61.8%
San Francisco	8	1	17.6%	87	25	28.6%	8	4	56.3%	29.8%
Central	24	11	46.4%	11	6	53.0%	25	23	89.6%	65.8%
Southern	133	77	57.5%	111	73	66.4%	98	89	91.3%	70.1%
Los Angeles	138	69	50.0%	221	138	62.3%	86	77	90.0%	63.9%

Figure 7. Distribution of Positive Test by Anatomic Site among MSM,
by Year, CGSS, 2007-2011

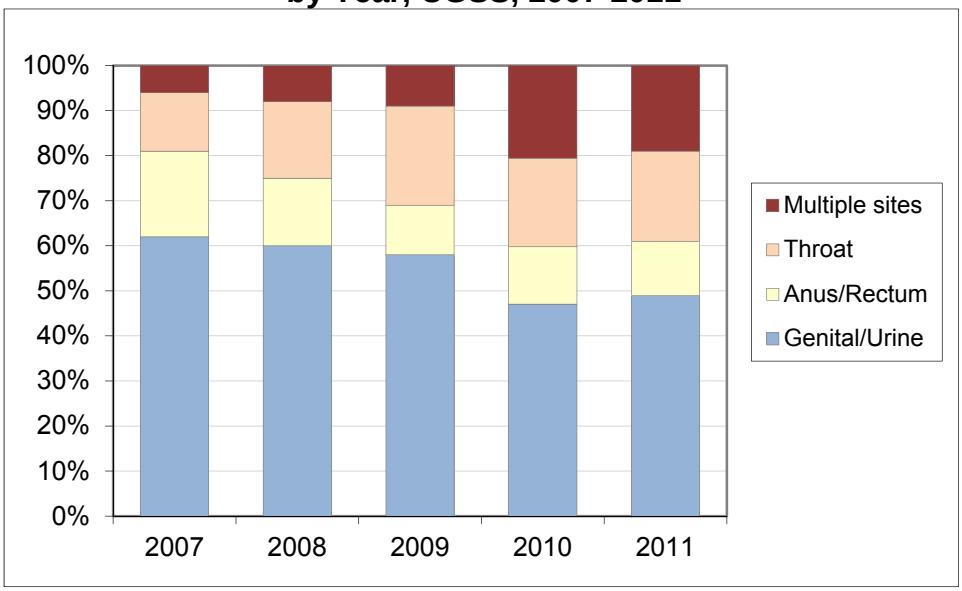

Table 12. Previous Gonorrhea Infection in the 12 Months Prior to Infection,
Risk Factors by Region and Gender of Sex Partners, CGSS, 2011
Analyses weighted due to sampling design [N's rounded to integers]

	Female (All)			MSM			Male Heterosexual			
	N	n	%	N	n	%	N	n	%	Overall %
StateTotals	**492**	**11**	**2.2%**	**525**	**62**	**11.8%**	**360**	**15**	**4.1%**	**6.3%**
By Region										
Northern	73	0	0.3%	25	2	7.2%	34	0	0.3%	1.6%
Bay Area	57	4	7.0%	48	7	15.6%	66	4	5.8%	8.9%
San Francisco	6	1	16.7%	74	11	15.5%	4	0	0.0%	14.8%
Central	40	0	0.3%	13	0	1.0%	37	0	0.0%	0.3%
Southern	152	2	1.6%	115	9	8.2%	110	5	4.7%	4.5%
Los Angeles	163	3	1.8%	250	32	12.6%	109	6	5.3%	7.7%

Table 13. Percent Who Know Their HIV Status,
Clinical Factors by Region and Gender of Sex Partners, CGSS, 2011
Analyses weighted due to sampling design [N's rounded to integers]

	Female (All)			MSM			Male Heterosexual			
	N	n	%	N	n	%	N	n	%	Overall %
State Totals	**495**	**395**	**79.7%**	**550**	**518**	**94.2%**	**368**	**294**	**79.8%**	**85.4%**
By Region										
Northern	73	59	80.5%	25	24	94.1%	34	30	87.0%	84.8%
Bay Area	60	49	82.1%	46	37	82.2%	71	55	78.1%	80.5%
San Francisco	8	8	100.0%	86	84	97.7%	7	6	80.0%	96.6%
Central	43	22	52.5%	13	10	73.5%	41	31	74.7%	64.8%
Southern	152	125	82.4%	122	113	93.3%	108	83	76.8%	84.3%
Los Angeles	161	132	82.1%	258	250	96.7%	106	89	83.8%	89.6%

Table 14. HIV Status (Percent HIV Positive, Self-Reported)[1]
Clinical Factors by Region and Gender of Sex Partners, CGSS, 2011
Analyses weighted due to sampling design [N's rounded to integers]

	Female (All)			MSM			Male Heterosexual			
	N	n	%	N	n	%	N	n	%	Overall %
State Totals	**395**	**1**	**0.2%**	**518**	**139**	**26.9%**	**294**	**3**	**1.1%**	**11.8%**
By Region										
Northern	59	0	0.0%	24	5	22.9%	30	2	6.1%	6.5%
Bay Area	49	0	0.2%	37	7	19.3%	55	0	0.3%	5.3%
San Francisco	8	0	6.2%	84	28	33.1%	6	0	0.0%	28.9%
Central	22	0	0.0%	10	3	28.8%	31	0	0.0%	4.4%
Southern	125	0	0.1%	113	24	21.2%	83	1	1.4%	7.9%
Los Angeles	132	0	0.0%	250	72	28.7%	89	0	0.0%	15.2%

[1] Among those with known HIV status.

Prepared by the California Department of Public Health