

# Kaiser Media Fellowship Program

STD Briefing  
Detroit, Michigan  
April 14, 2010

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# Outline

- Background
  - Syphilis Staging and Diagnostics
  - Rates vs. Counts
- Syphilis
  - History
  - Current Trends
  - National Perspective
- Chlamydia and Gonorrhea
  - National Perspective
  - Risk Groups
- Detroit STD Initiatives and Challenges

# Background

## ■ Other STDs

- Herpes, HPV, etc.

## ■ Syphilis Staging

### – Infectious vs. Late

- P&S are symptomatic cases infected within the last 6 months
- Higher priority for investigation
- Reflects recent epidemiology

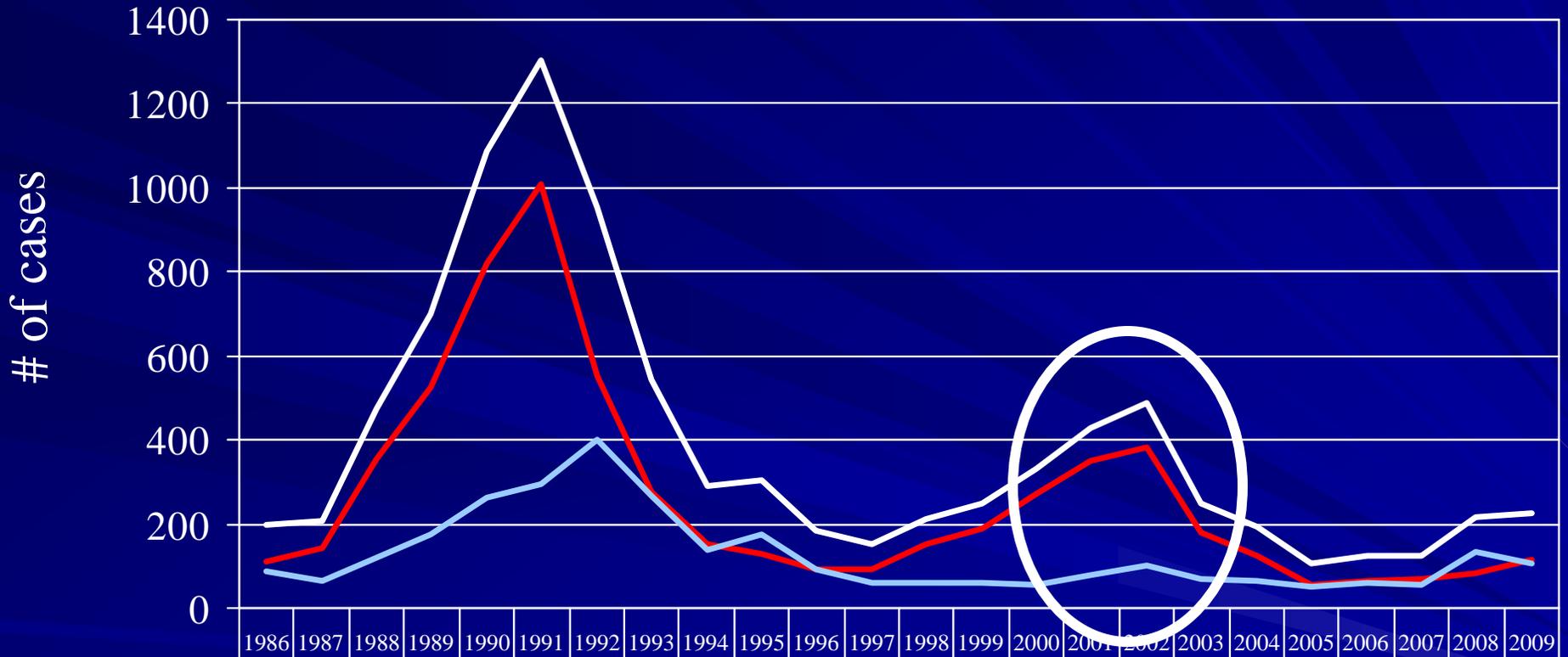
## ■ Counts vs. Rates

### – Counts are sums of data, not a calculation

### – Rates are a numerator and a denominator

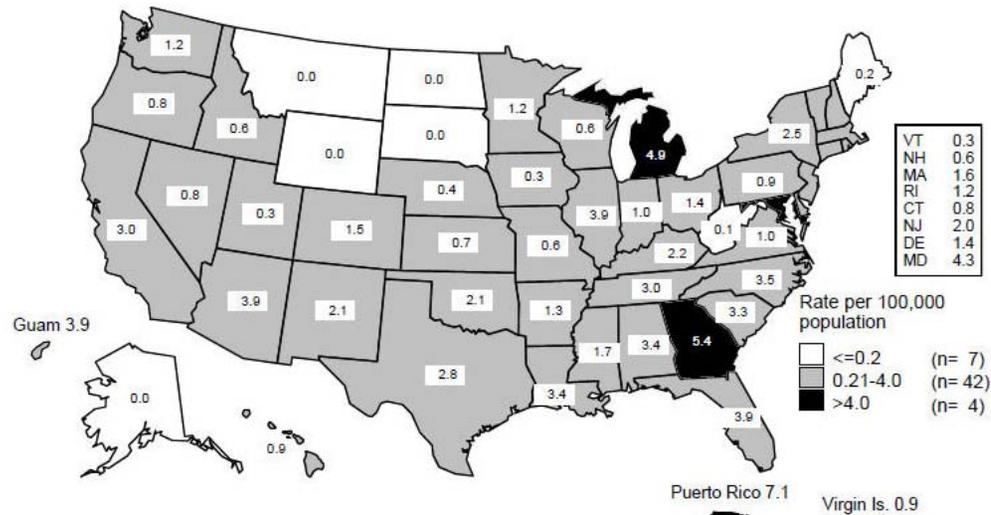
- Syphilis rate in rural zip codes are 5 per 100,000-i.e. 2 cases and 40,000 people
- Controls for population size or group

# P&S Syphilis by Region 1986-2009



	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
— Michigan	198	205	476	700	1086	1303	951	543	292	304	183	153	211	249	330	428	486	249	192	105	125	123	216	224
— Detroit	111	142	354	526	822	1008	552	277	153	130	92	94	152	189	274	351	384	179	126	54	63	68	82	116
— Outstate	87	63	122	174	264	295	399	266	139	174	91	59	59	60	56	77	102	70	66	51	62	55	134	108

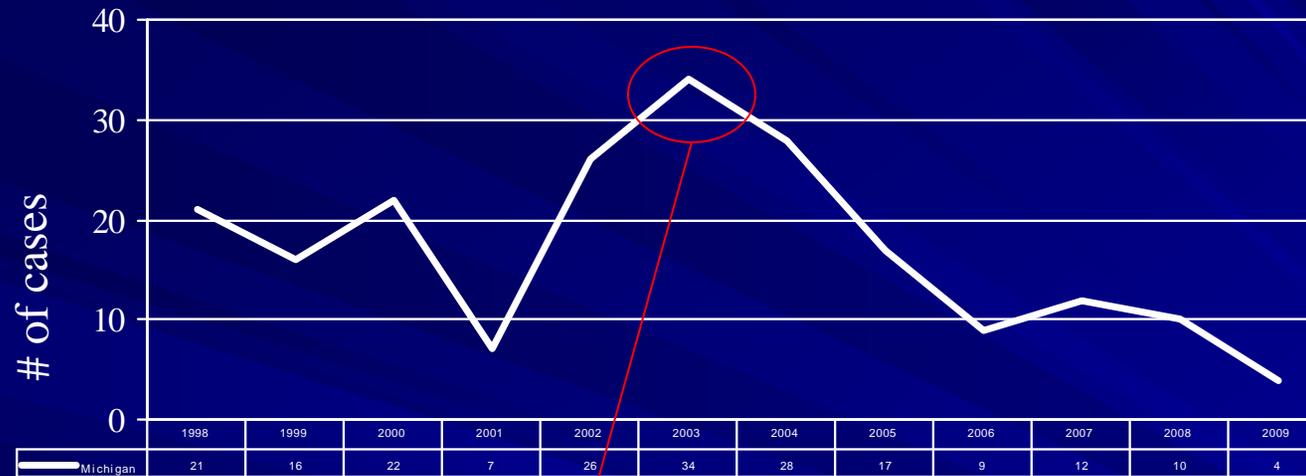
**Figure 8. Primary and secondary syphilis — Rates by state: United States and outlying areas, 2002**



Rank <sup>†</sup>	County/Independent City	Cases	Rate per 100,000 Population	Cumulative Percent
1	Wayne County, MI	438	21.3	6
2	Cook County, IL	408	7.6	12
3	Los Angeles County, CA	403	4.2	18
4	San Francisco County, CA	315	40.6	22
5	Fulton County, GA	257	31.5	26
6	New York County, NY	248	16.1	30
7	Dade County, FL	231	10.3	33
8	Dallas County, TX	191	8.6	36
9	Maricopa County, AZ	155	5.0	38
10	Broward County, FL	133	8.2	40
11	Baltimore (City), MD	121	18.6	42
12	Harris County, TX	112	3.3	43
13	Tarrant County, TX	106	7.3	45
14	Franklin County, OH	102	9.5	46
15	Montgomery County, AL	96	43.0	48
16	Shelby County, TN	89	9.9	49
17	Essex County, NJ	86	10.8	50

\*Accounting for 50% of reported primary and secondary syphilis cases

# Congenital Syphilis 1998-2009



**Table 42.** Congenital syphilis — Reported cases and rates in infants <1 year of age in selected cities, ranked by rates: United States, 2003

<i>Rank*</i>	<i>City†</i>	<i>Cases</i>	<i>Rate per 100,000 Live Births</i>
1	Detroit, MI	36	250.3
2	Newark, NJ	10	215.4
3	Miami, FL	9	69.6
4	Phoenix, AZ	17	67.5
5	Indianapolis, IN	9	63.4
6	Oakland, CA	4	61.7
7	Baltimore, MD	5	51.9
8	Houston, TX	21	46.6
9	Los Angeles, CA	28	44.2
10	San Diego, CA	8	43.3

The Detroit News **EXCLUSIVE REPORT**

A FAILURE OF PUBLIC HEALTH

# Syphilis outbreak rampant in Detroit

Despite warnings, health dept. slow to act

By Kimberly Hayes Taylor  
*The Detroit News*

**DETROIT** — Once or twice a week, a wave of sadness overcomes Dr. Eugene Cepeda when he treats a newborn with con-

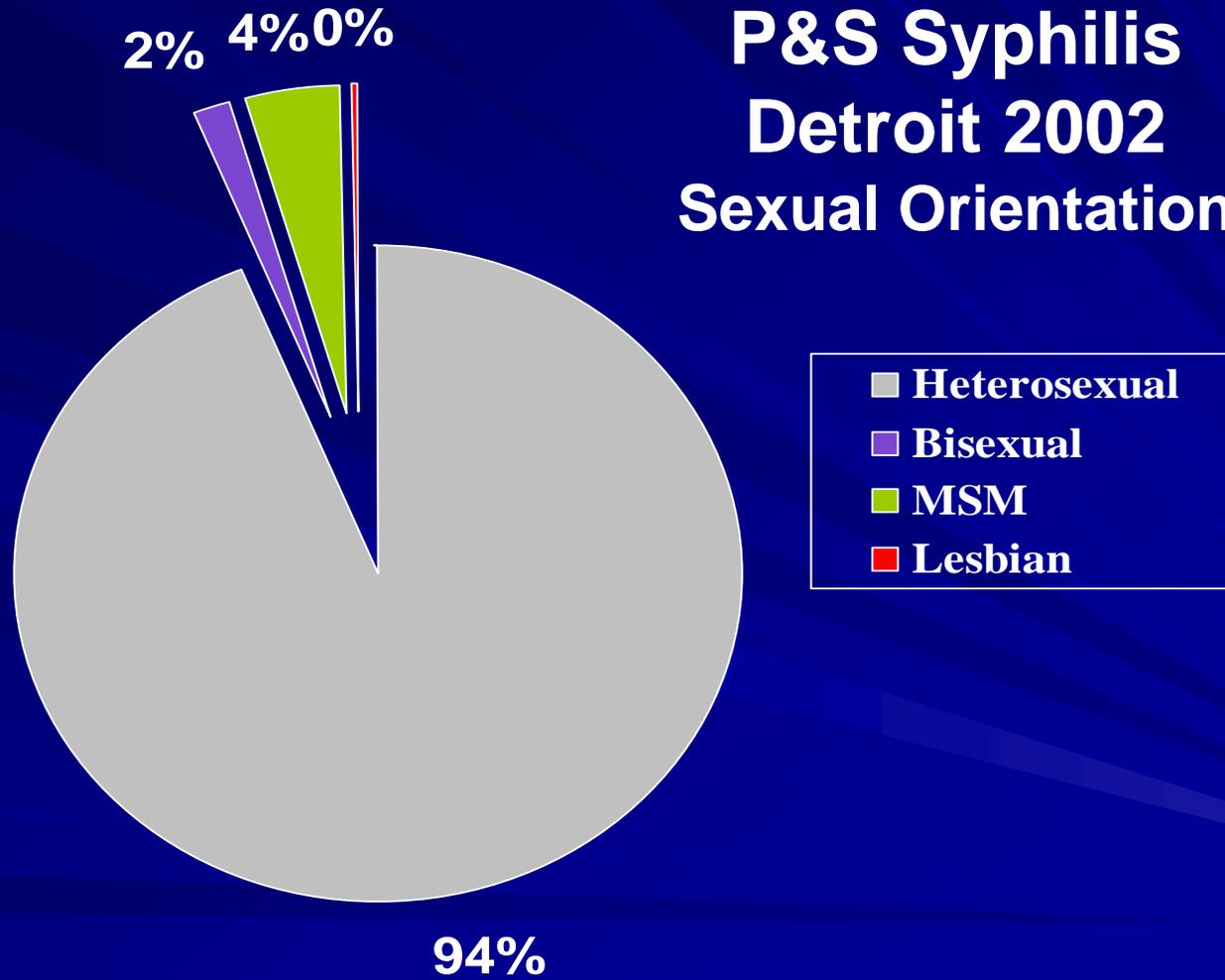


New cases grow from 94 in 1997, to 500 in '02

By Kimberly Hayes Taylor  
*The Detroit News*

**DETROIT** — Detroit expects to see a five-fold increase in reported syphilis cases this year, leading the nation in new diagnoses of the curable sexual

# P&S Syphilis Detroit 2002 Sexual Orientation



# Interventions

- CDC Assigned Rapid Response Team
- Case Management was refined
- DHD hired a Syphilis Elimination Coordinator
- Outreach to community Emergency Rooms
- MDCH Epidemiology stationing an epidemiologist on location

# P&S Syphilis 2000-2006



# Congenital Syphilis 1997-2009



# The Detroit News

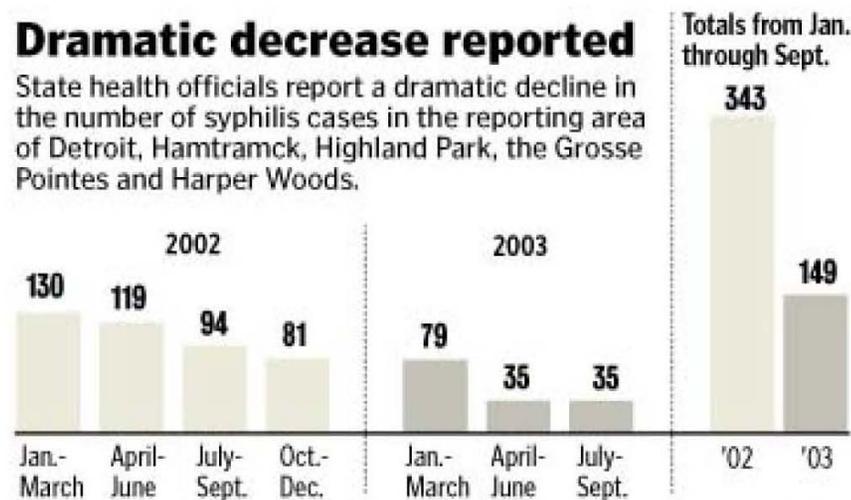
Metro Section Headline  
October 17<sup>th</sup>, 2003

## Syphilis cases plunge in Detroit

Health Dept. credits decline to intense awareness programs.

### Dramatic decrease reported

State health officials report a dramatic decline in the number of syphilis cases in the reporting area of Detroit, Hamtramck, Highland Park, the Grosse Pointes and Harper Woods.



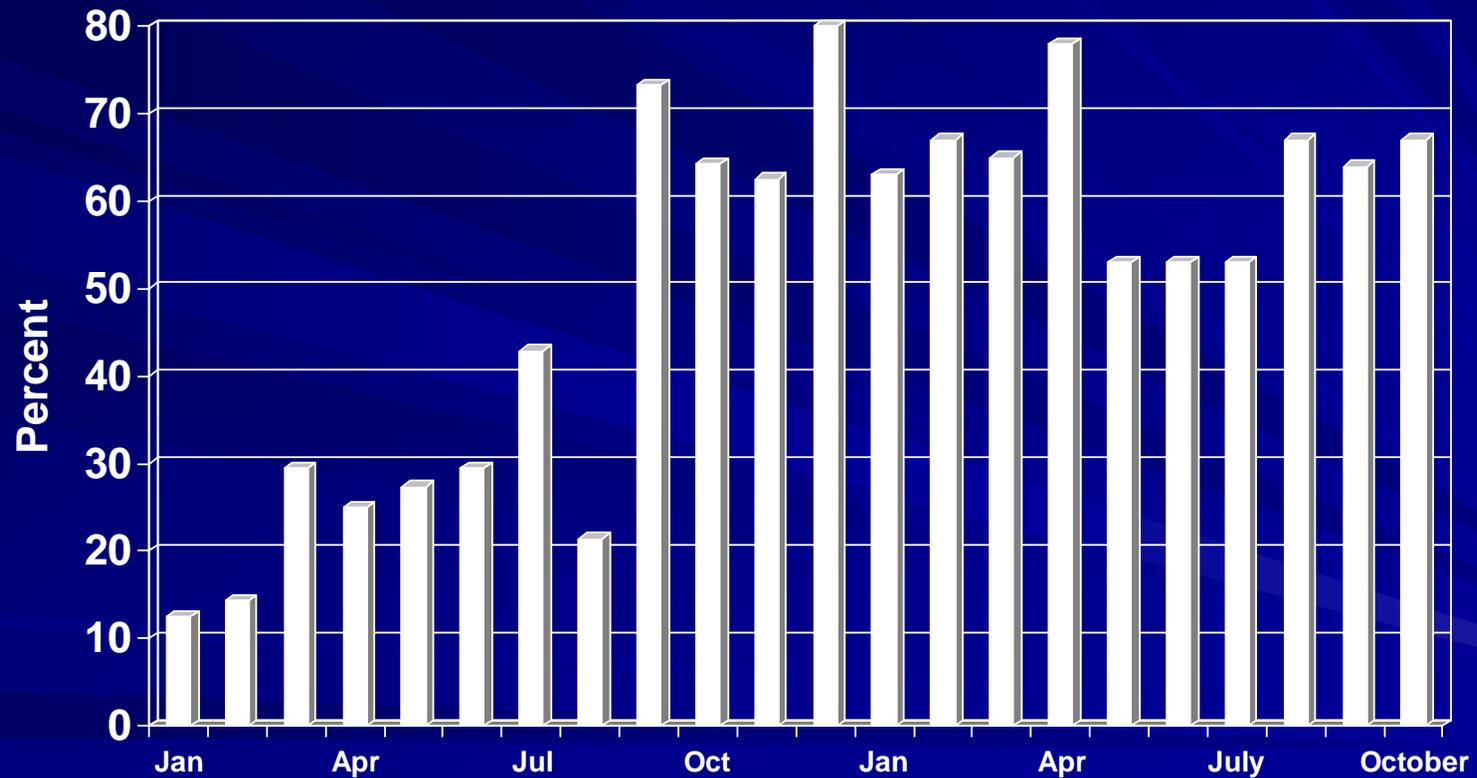
Source: Michigan Department of Community Health

The Detroit News

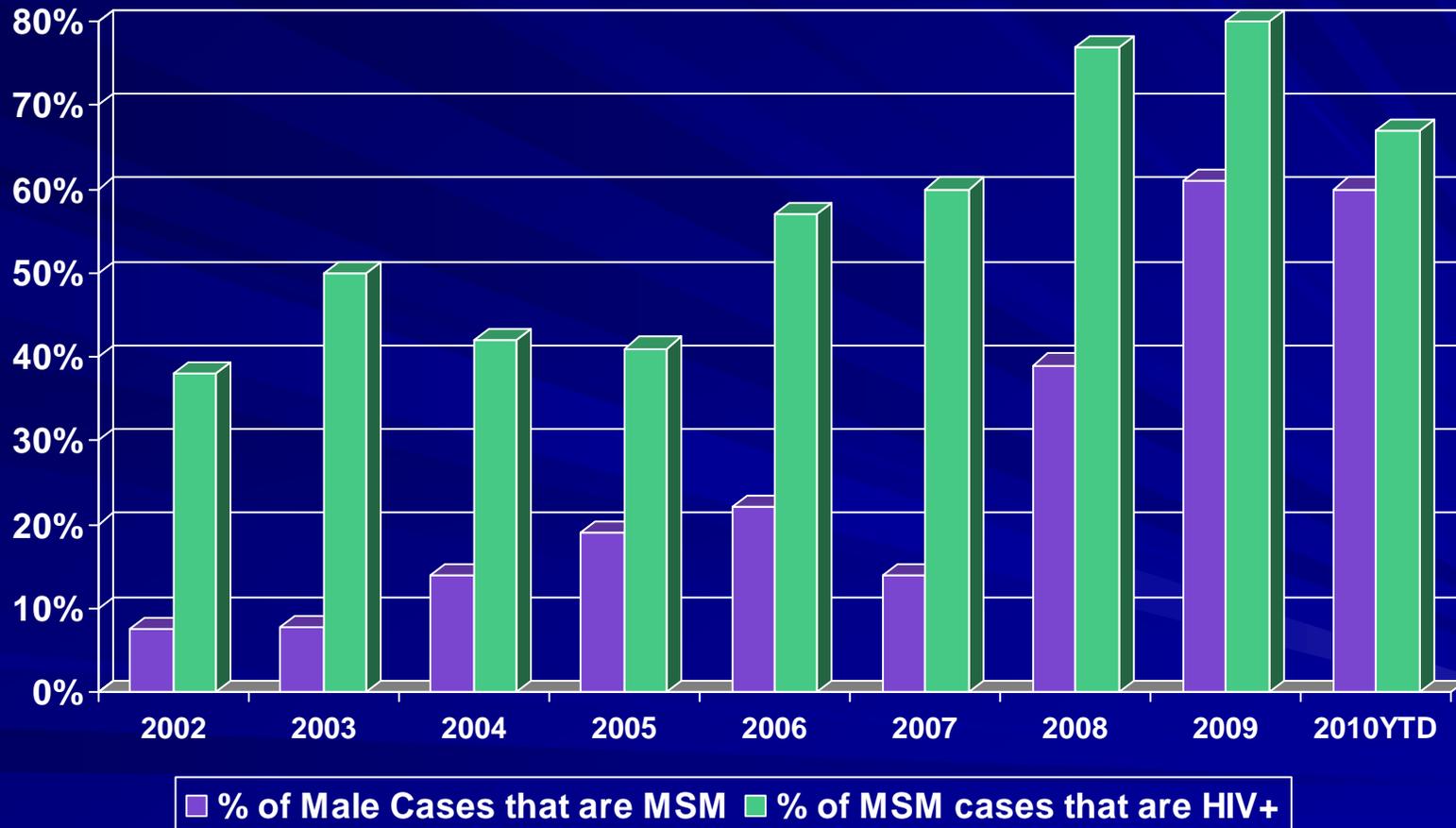
# P&S Syphilis 2006-2009



# Percent of Male Cases that are MSM by Month Detroit 2008-2009

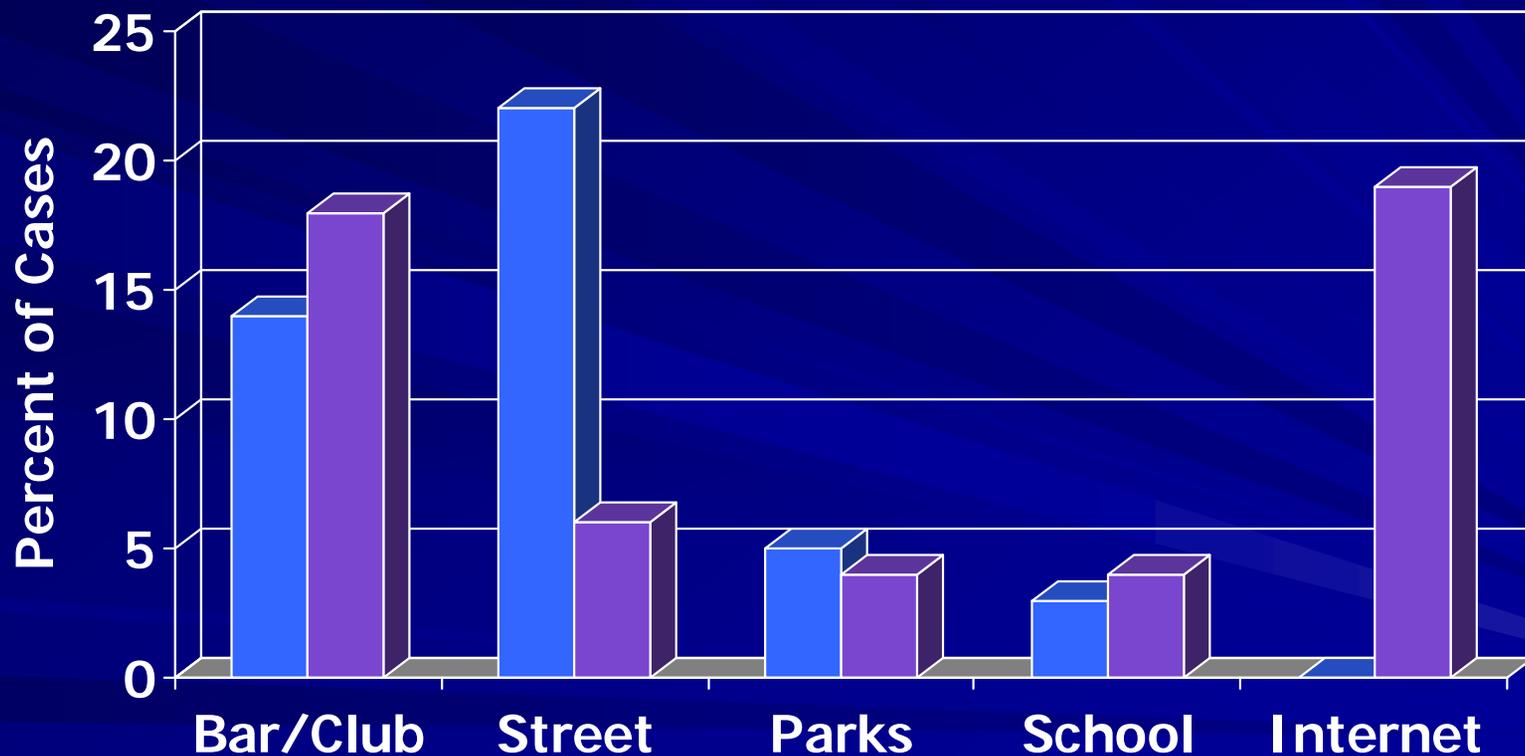


# Percent of Male Cases that are MSM and MSM/HIV+ Detroit, 2002-2009 YTD

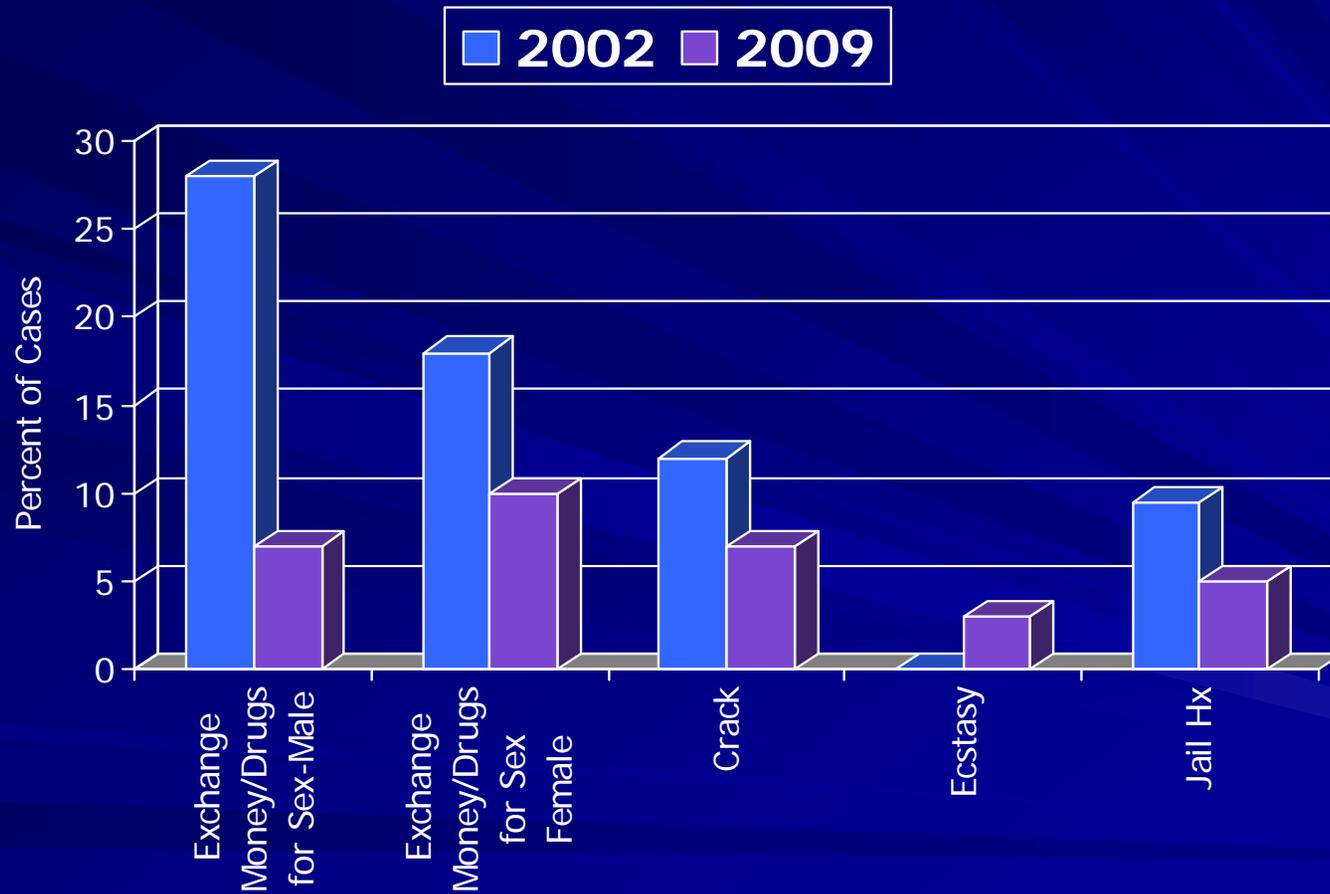


# Partner Meeting Venues Among Male Syphilis Cases By Outbreak Year

2002 Males 2009 Males



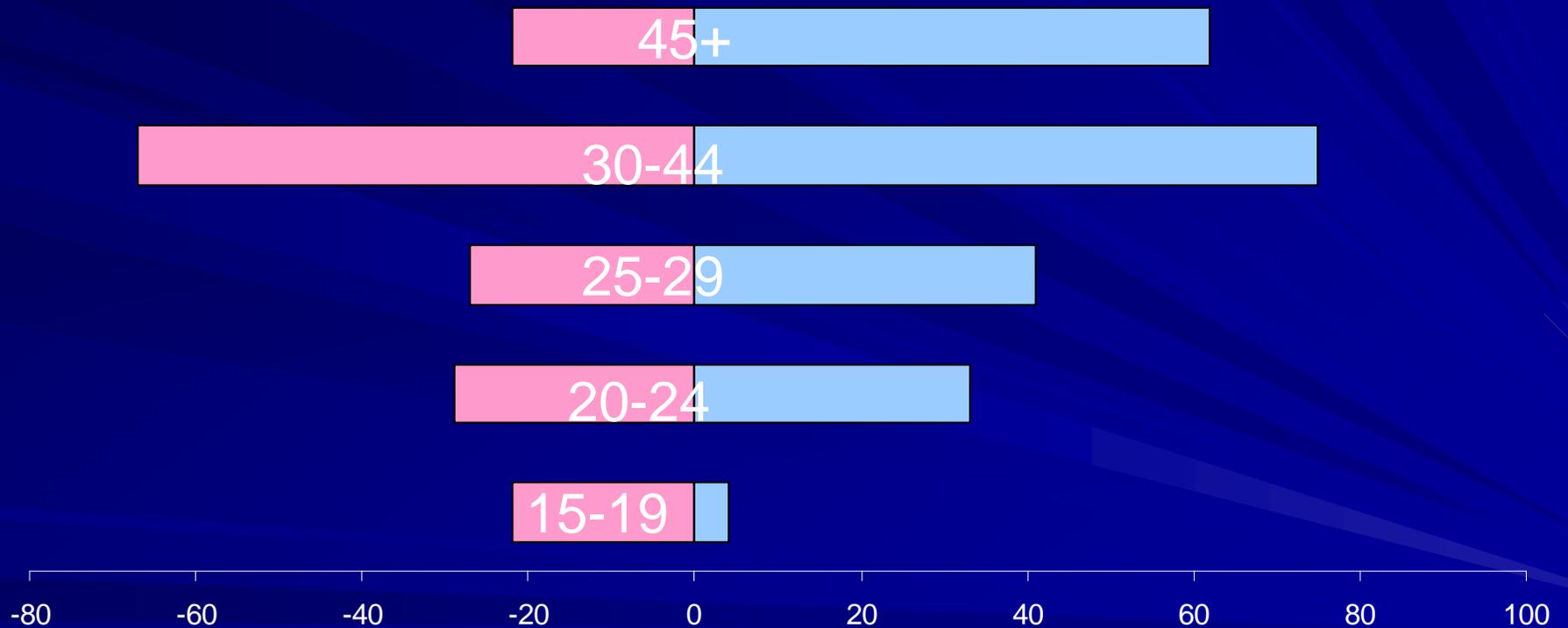
# Risk Factors



# P&S Syphilis Detroit 2002

## Total Number of Cases by Age Group and Sex

Females  
Males

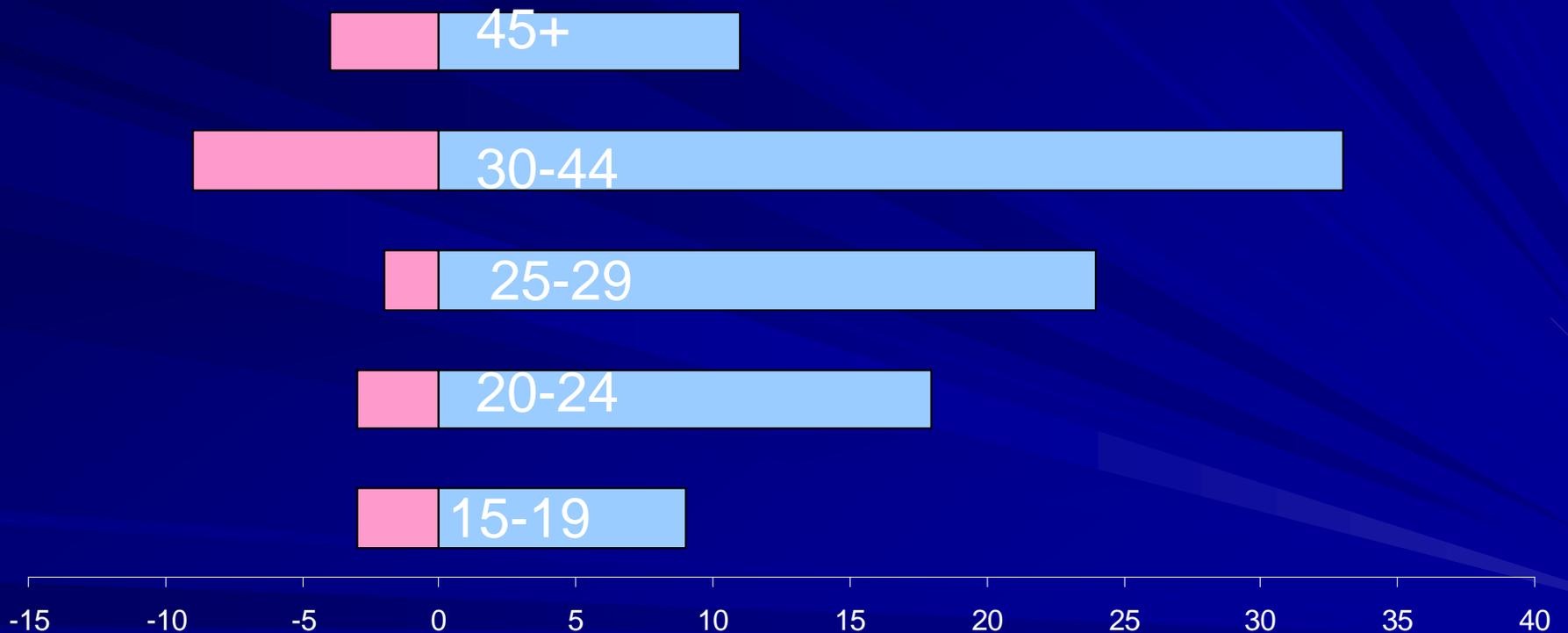


# P&S Syphilis Detroit 2009

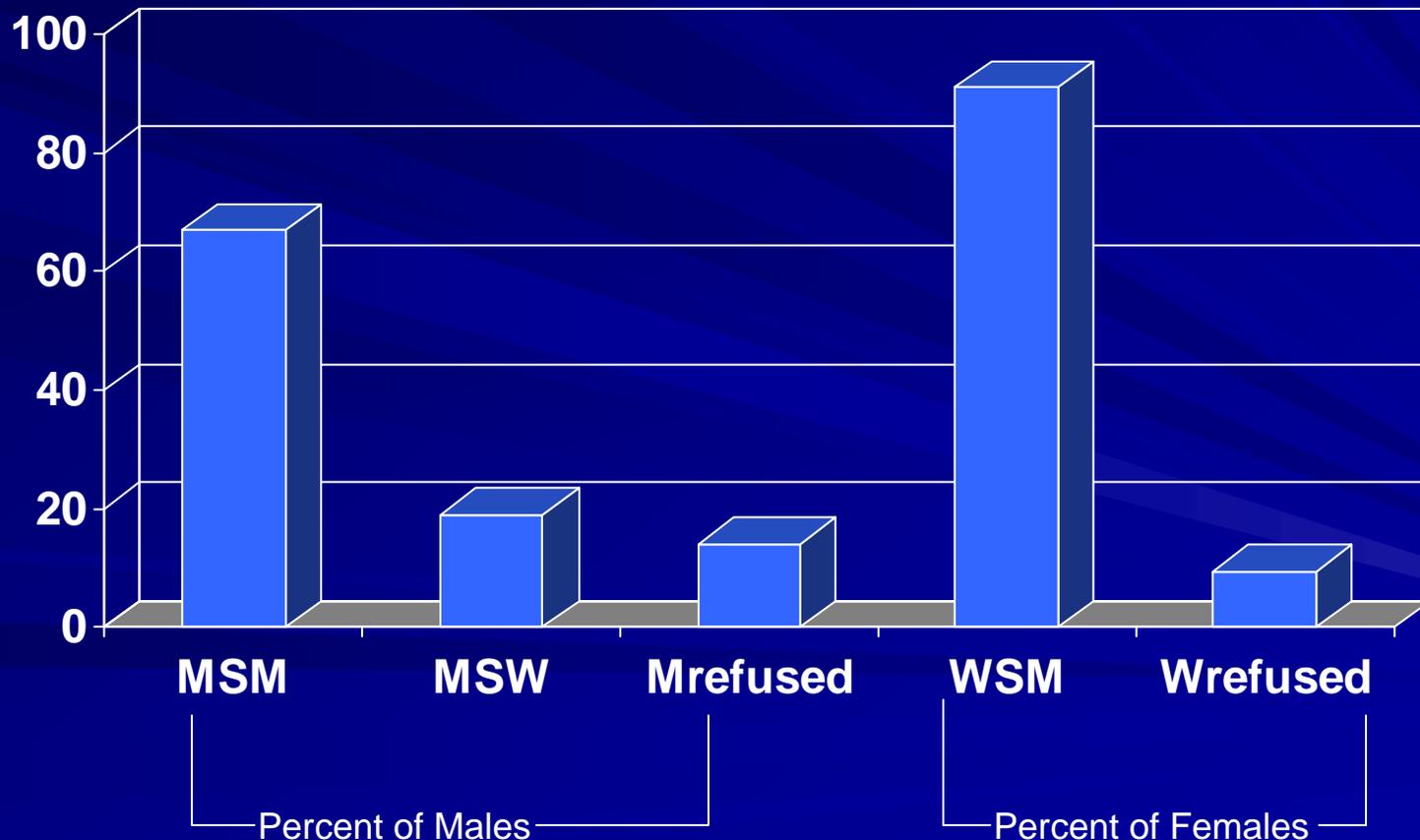
## Total Number of Cases by Age Group and Sex

Females

Males

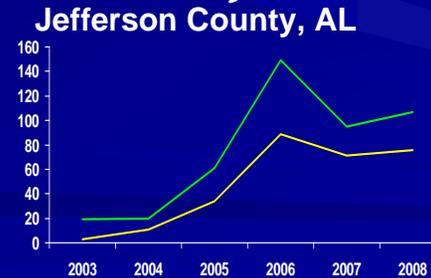
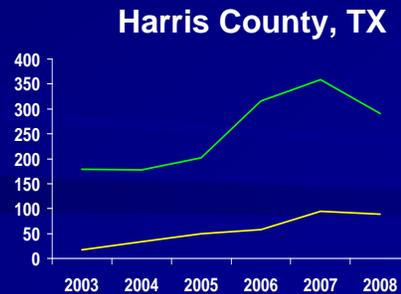
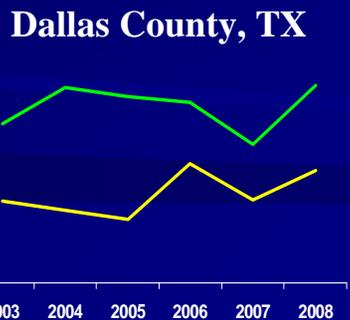
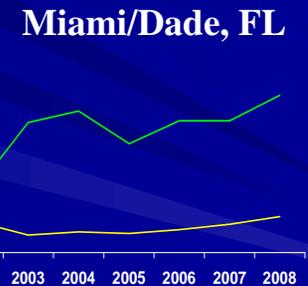
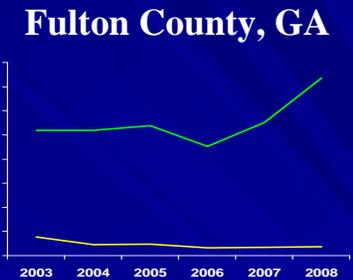
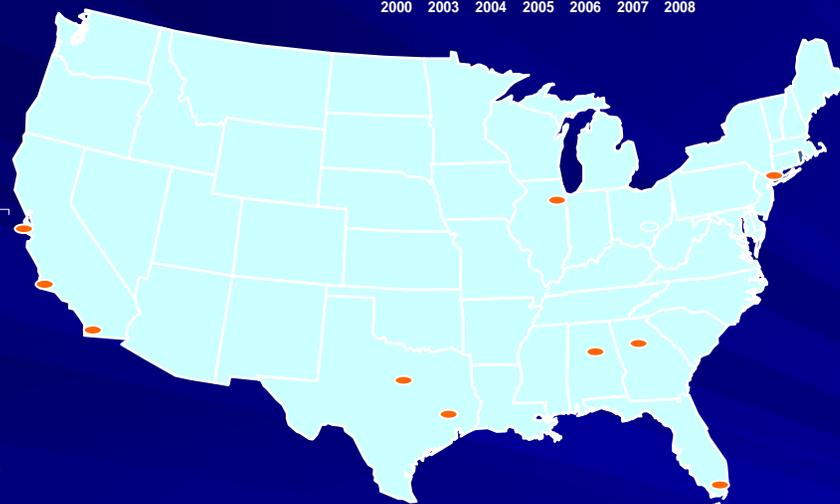
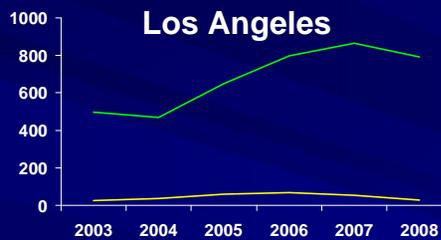
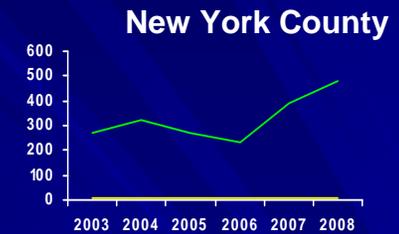
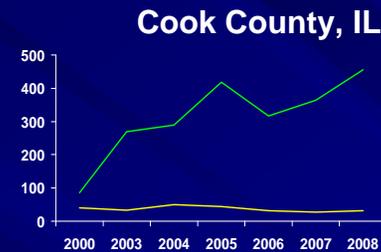
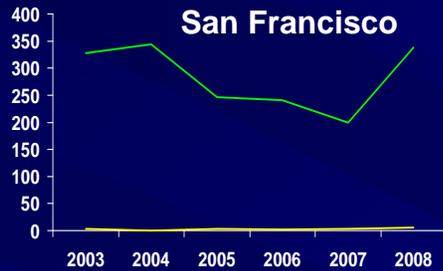


# P&S Syphilis Detroit-2009 Sex by Sexual Orientation



Source MDCH/DHD

# Primary and secondary syphilis cases, by sex, in 10 counties with largest number of cases, 2008



— Men — Women



# Gonorrhea and Chlamydia

Michigan Department  
of Community Health



Jennifer M. Granholm, Governor  
Janet Olszewski, Director

# Reported Cases by US County and/or Independent City

## Chlamydia Cases

- 1<sup>st</sup> LA County
- 2<sup>nd</sup> Cook County, IL
- 3<sup>rd</sup> Detroit City

## Chlamydia Rate

- 1<sup>st</sup> Memphis
- 2<sup>nd</sup> Virginia Beach/Norfolk
- 3<sup>rd</sup> Birmingham
- 4<sup>th</sup> Jacksonville, FL
- 5<sup>th</sup> Detroit MSA

## Gonorrhea Cases

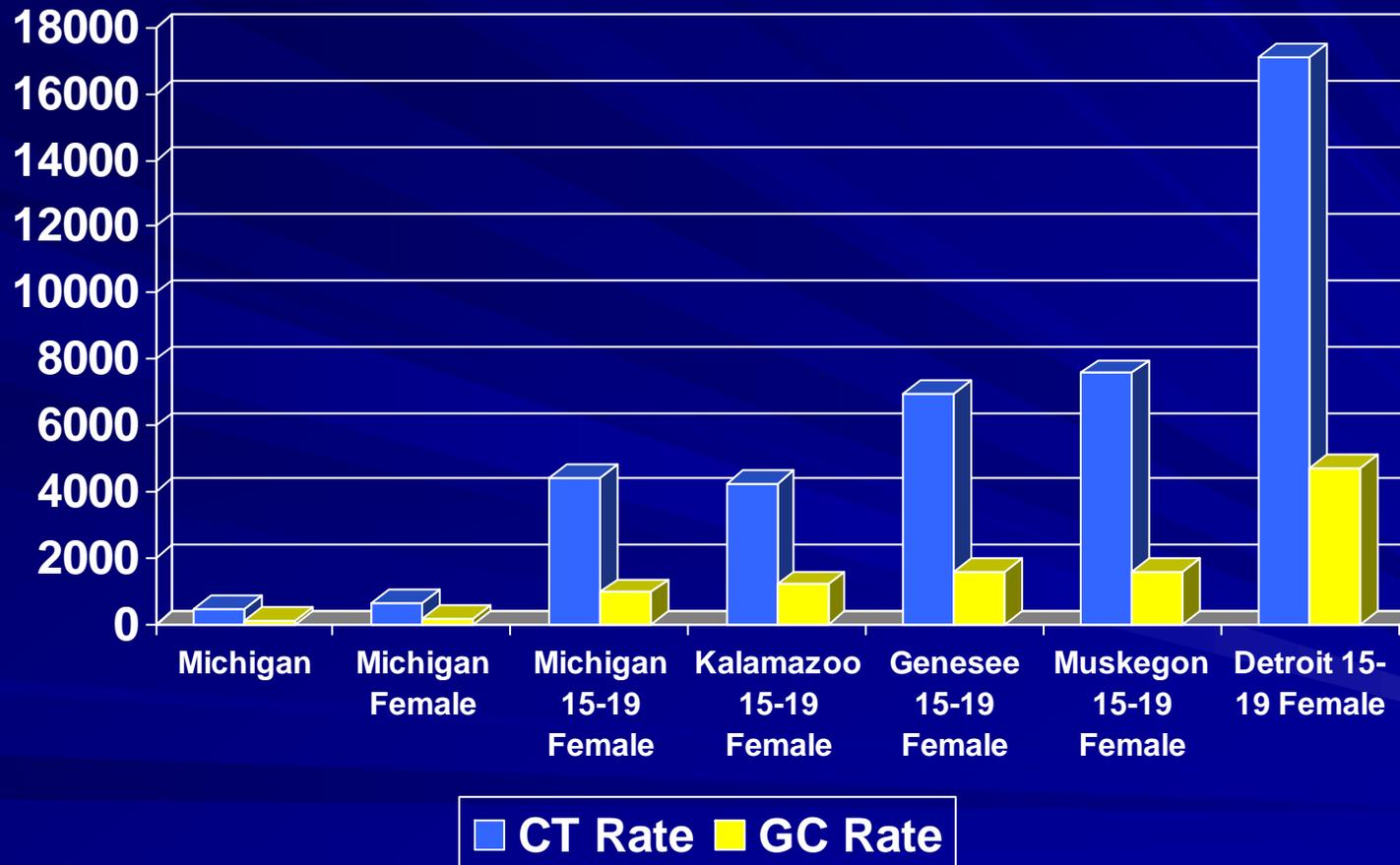
- 1<sup>st</sup> Cook County, IL
- 2<sup>nd</sup> Detroit City

## Gonorrhea Rate

- 1<sup>st</sup> Memphis
- 2<sup>nd</sup> Virginia Beach/Norfolk
- 3<sup>rd</sup> Birmingham
- 4<sup>th</sup> Indianapolis
- 5<sup>th</sup> Detroit MSA

# STD Rates

## Comparisons Among Women



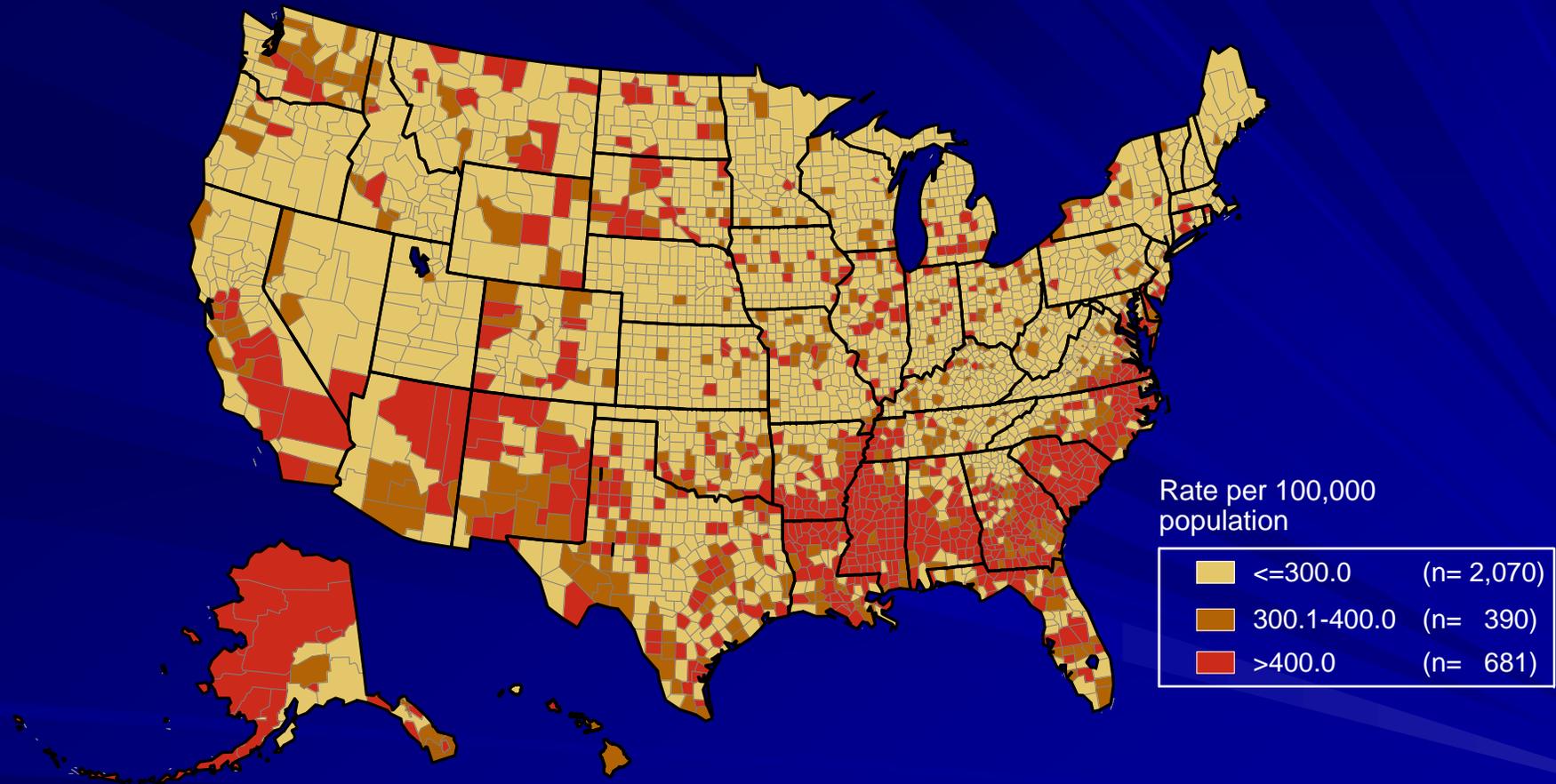
# Chlamydia by Region 1992-2009



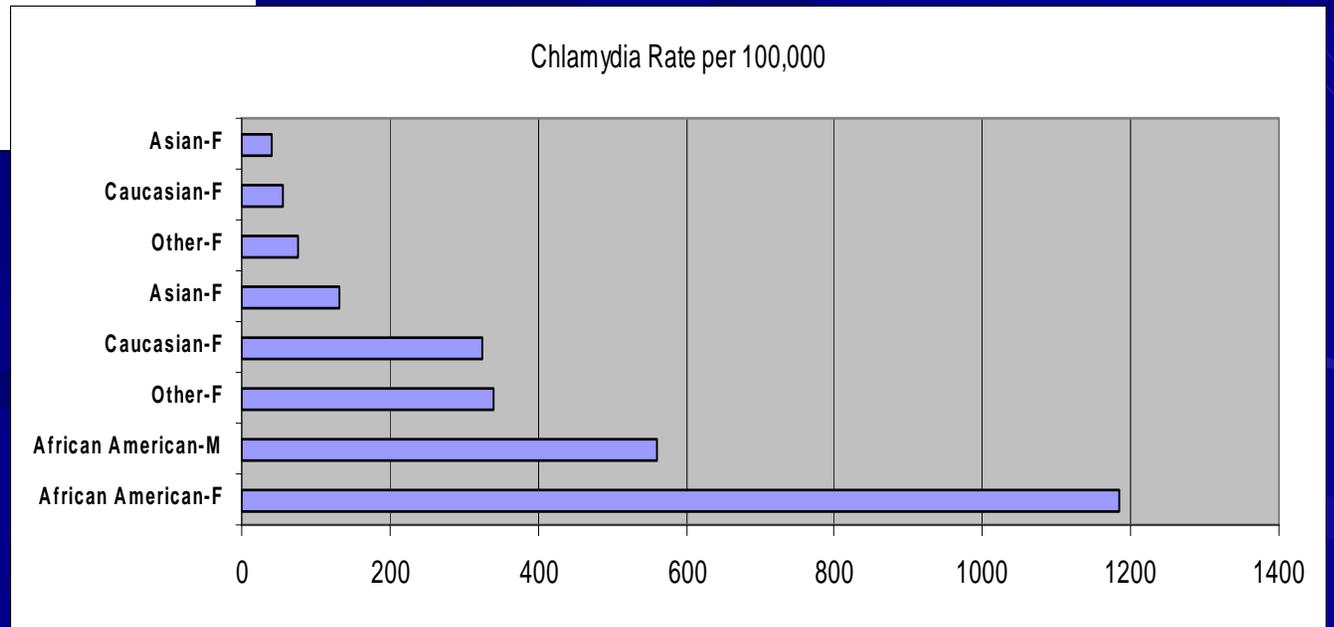
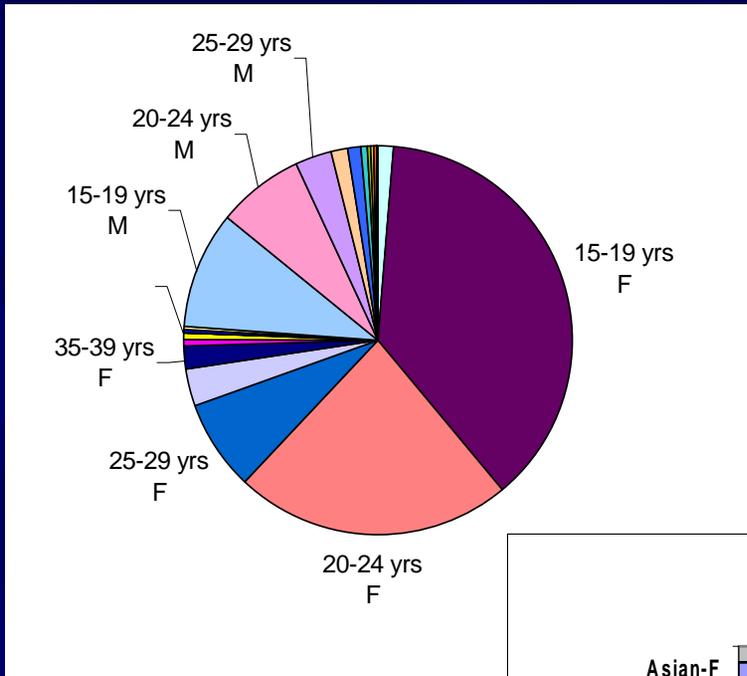
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
— Michigan	347	4779	17686	21666	19979	21553	22001	23107	26237	31090	32272	32590	41247	38729	38142	41291	46555	46299
— Detroit	45	193	4496	9026	7544	6810	7168	7754	9989	11552	11374	10423	12719	13425	11071	13657	17364	16208
— Outstate	302	4586	13190	12640	12435	14743	14833	15353	16248	19538	20898	22167	28528	25304	27071	27634	29191	30091



# Chlamydia — Rates by county: United States, 2008



# Chlamydia Demographic Distribution



# Infertility Prevention Project

- Screen young women in multiple venues
  - STD and Family Planning Clinics
  - School-Based and School-Linked health centers
  - Juvenile Detention Facilities
  - Colleges and Universities
  - Private physicians offices
- 16,279 cases diagnosed in 2009
- Of these, 75% females (12,232)
- Of these, 80% between 15-24 (9,736)

# Detroit Community Health Connection - Healthy Teen Community Care Center

- In 2009
  - Screened **879** adolescents
  - 144 CT+ (16.4%)
  - 36 GC+ (4.1%)
- This site tested less than 150 patients in 2007. MDCH identified them as serving high risk youth.
- Expanded to a routine screening site in 2008 with additional screening resources provided by the State



*Marie Shoulder-Williams,  
Nurse Practitioner*

...it takes a  
champion.

# Wayne County Juvenile Detention

- In 2009
  - Conducted 3,446 tests
  - 404 CT+ (11.7%)
  - 68 GC+ (1.9%)
- This single site identifies 15-20% of all males with CT between the ages of 10-19 in Detroit
- CT positivity among females 17.2%; exceeds the positivity rate of the city STD clinic
- Partnership with MDCH Surveillance team in Detroit has assured >90% treatment rate of infected youth



*Dr. Carla Scott,  
Medical Director,  
Wayne County Juvenile  
Detention*

...it takes a  
champion.

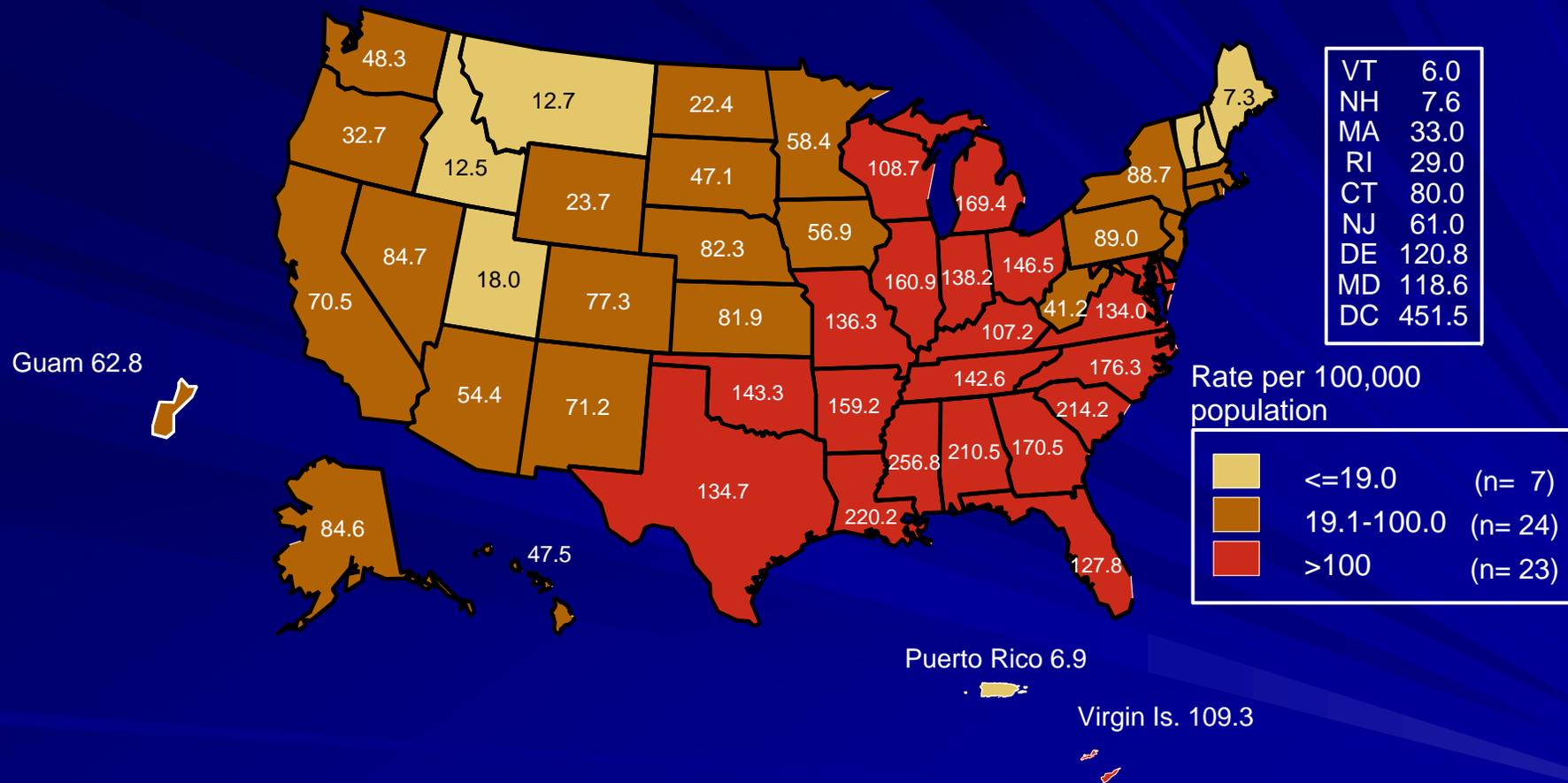


# Gonorrhea by Region 1986-2009



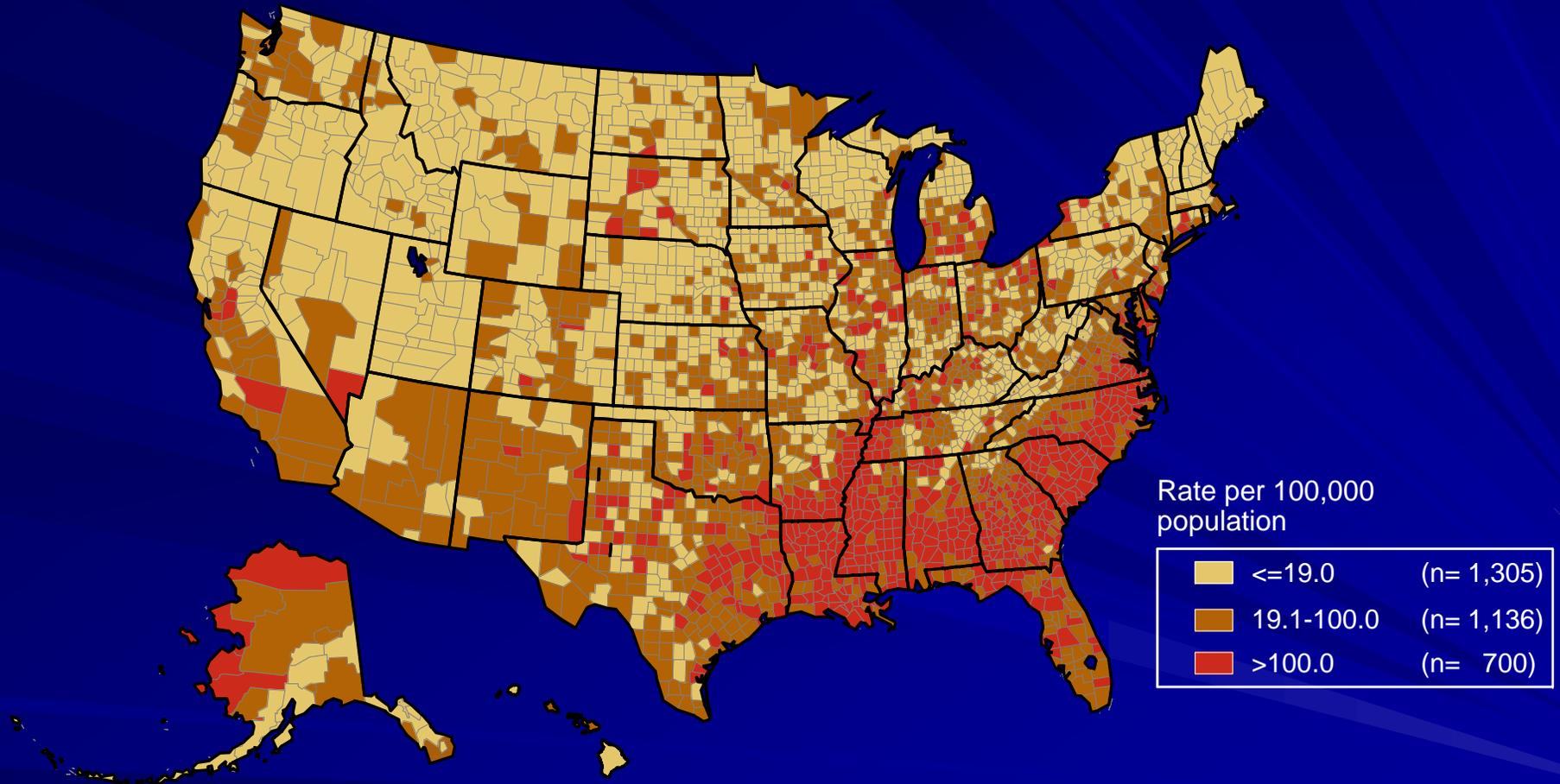
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Michigan	37780	37284	37444	33993	31232	26559	21467	18014	18215	18220	15244	15582	16319	15906	18182	17121	14770	13965	17376	17684	16591	17330	17905	14591
Detroit	17563	19166	20454	17440	15809	12647	10924	9275	8637	8553	7090	7381	8413	7900	9610	8220	6846	5535	6763	8363	6839	7912	8851	6833
Outstate	20217	18118	16990	16553	15423	13912	10543	8739	9578	9667	8154	8201	7906	8006	8572	8901	7924	8430	10613	9321	9752	9418	9054	7758

# Gonorrhea — Rates by state: United States and outlying areas, 2008

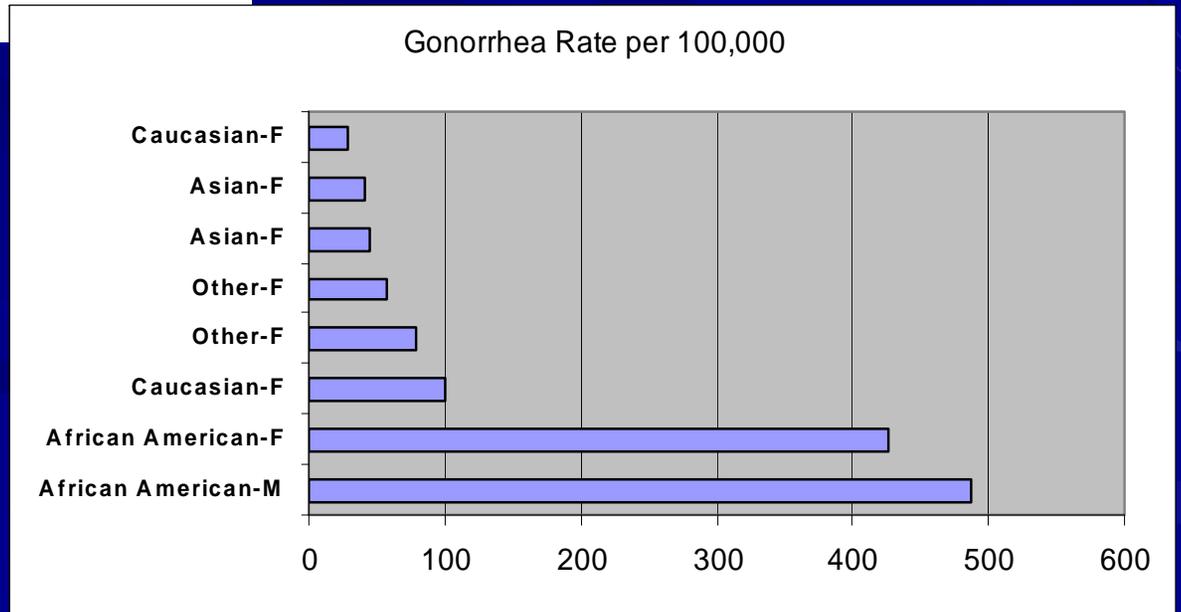
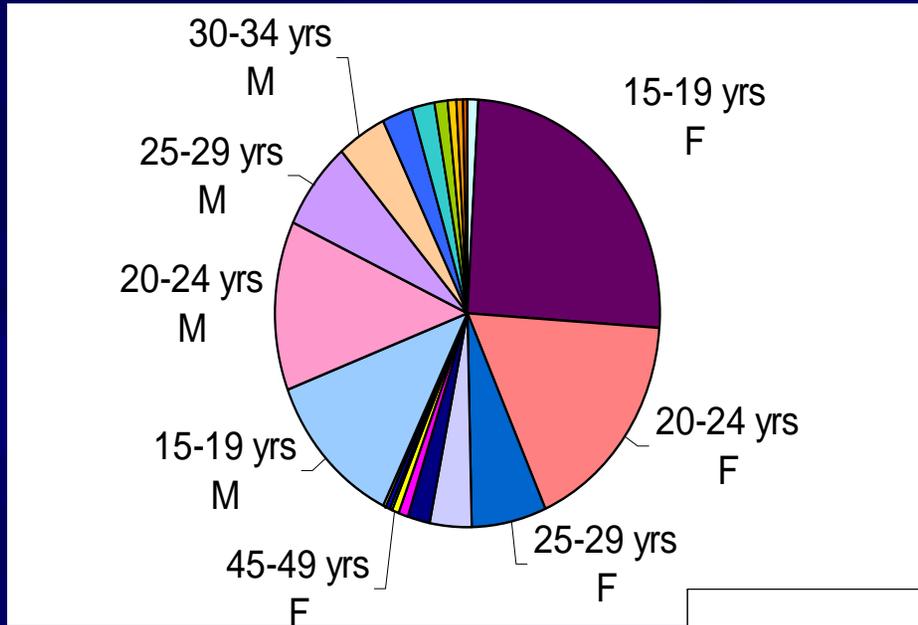


Note: The total rate of gonorrhea for the United States and outlying areas (Guam, Puerto Rico, and Virgin Islands) was 110.3 per 100,000 population.

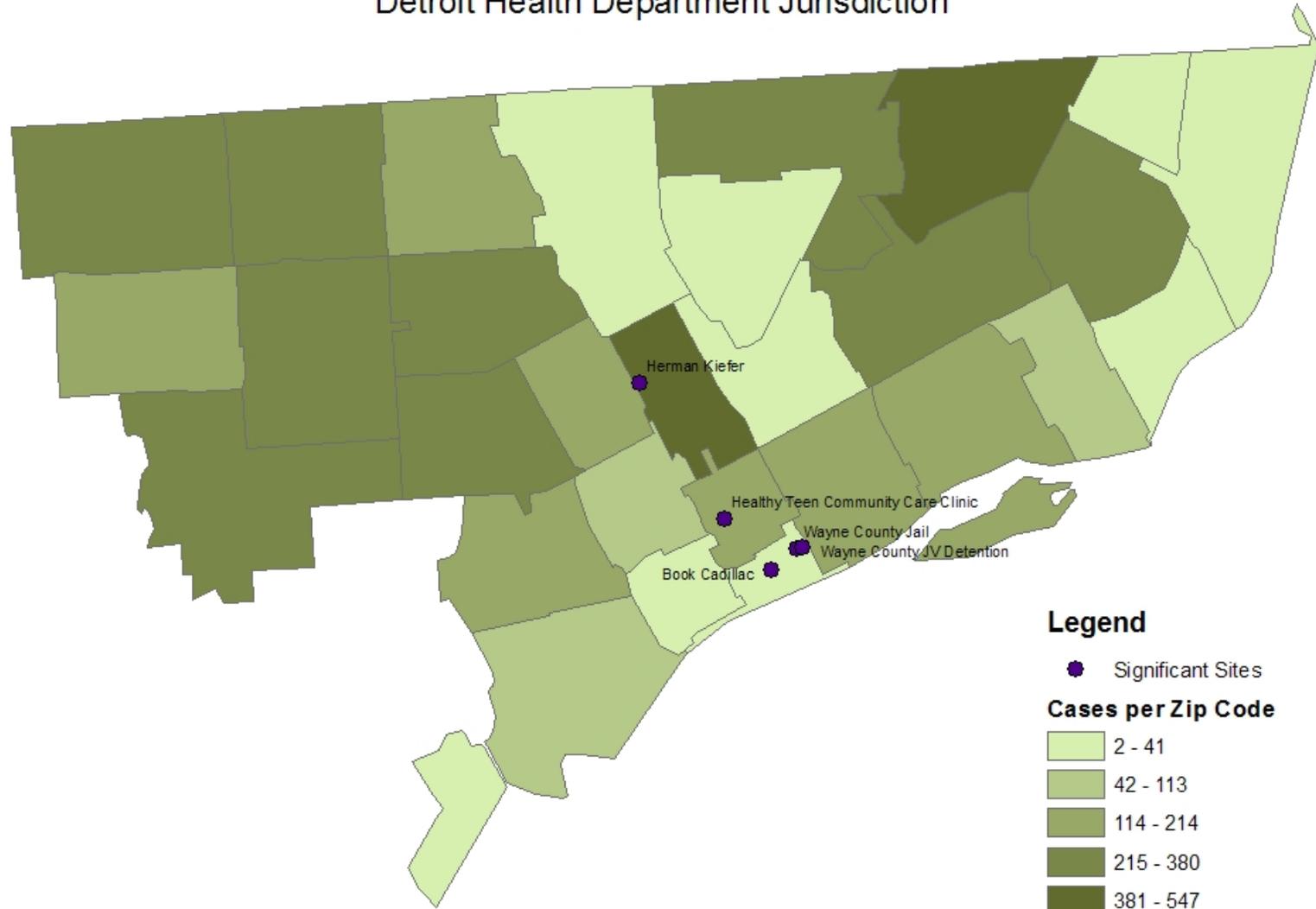
# Gonorrhea — Rates by county: United States, 2008



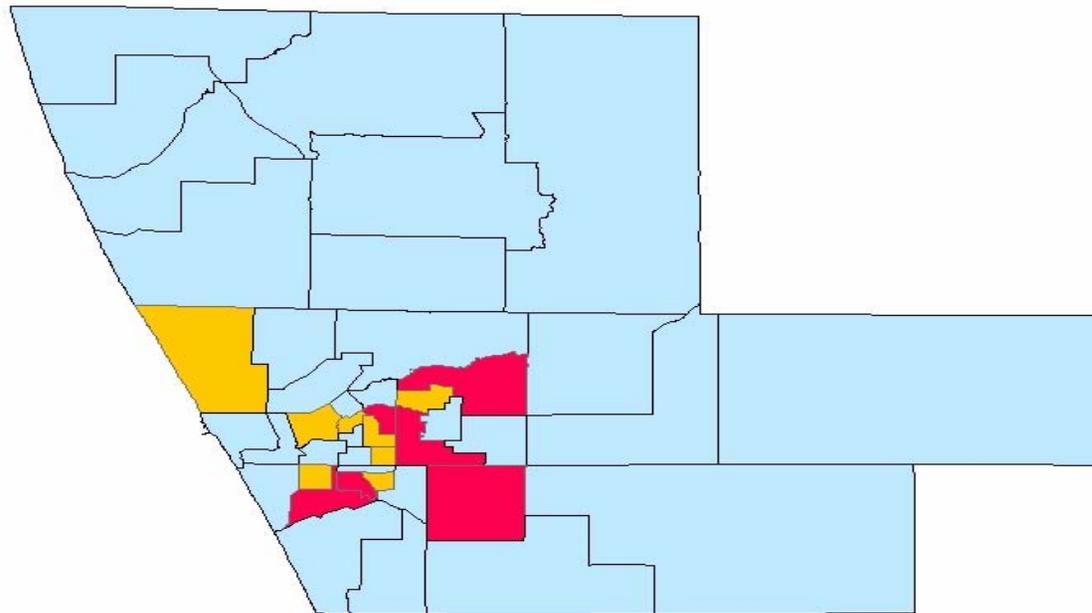
# Gonorrhea Demographic Distribution



## 2009 Gonorrhea Cases by Zip Code Detroit Health Department Jurisdiction

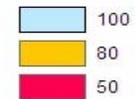


# ***Muskegon County Prelim 2009 Gonorrhea Core Analysis***

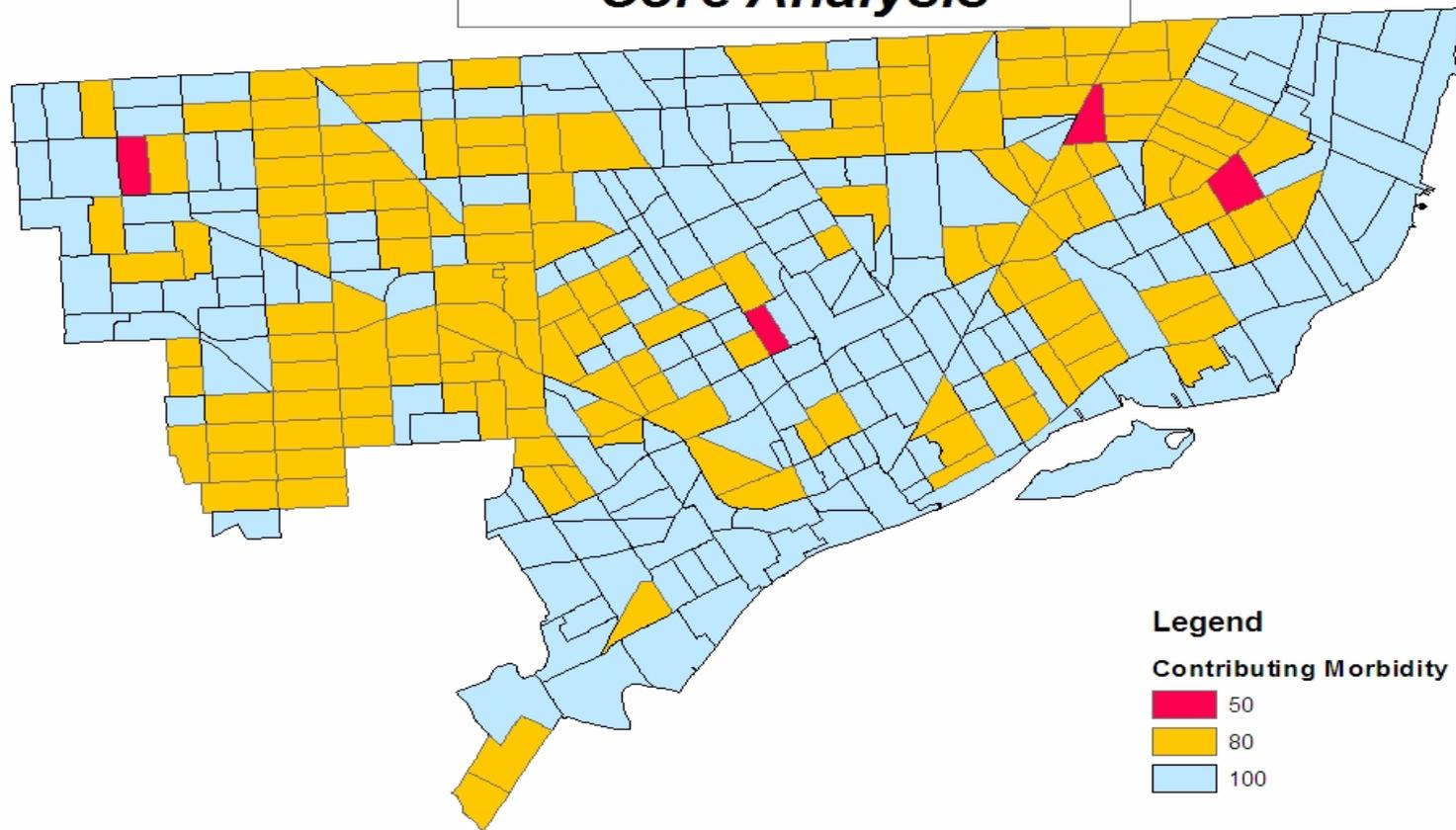


## **Legend**

Contributing Morbidity



***Detroit  
Prelim 2009 Gonorrhea  
Core Analysis***



# References and Fact Sheets



[www.michigan.gov/hivstd](http://www.michigan.gov/hivstd)

click on “sexually transmitted diseases” then “STD statistics”

[macomberk@michigan.gov](mailto:macomberk@michigan.gov)

517-335-9807

## Sexually Transmitted Diseases

Sexually Transmitted Diseases > [Syphilis Elimination Effort \(SEE\)](#) > State Profiles



## Syphilis Elimination Effort (SEE)

### State & Outlying Area Profiles

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

All profiles require either Adobe Acrobat or [Adobe Reader](#). 

- > Home
- > Dear Coordinators
- > National Plan
- > State Profiles
- > Publications
- > SEE Toolkit

# Program Purpose

The goals of the STD Program are:

- Prompt reporting of cases
- The provision of screening and treatment services for Detroit's citizens
- The application of interviewing and case finding activities to reduce complications and intervene in the spread of disease

# Detroit STD Initiatives

## ■ Define Target Populations

(Identify and treat disease)

- MSM, HIV+ clients, adolescents and young adults age 15-29
- High Morbidity Areas (HMA) as identified in epidemiologic analysis

## ■ Improve Access to Care

(Specialized clinicians and treatment given on site)

- Decrease waiting time for STD clients
- Assign fast track clinic number to priority patients
- Utilize satellite clinics



# Detroit STD Initiatives

- Provision of STD Information to External Partners
  - Utilize Health Officer to provide Dear Colleague letters regarding STD updates and medical alerts  
The STD program distributes annual Provider and CBO pamphlets
  - Continue annual laboratory visits to reinforce their responsibility for accurate, complete and timely reporting of STDs  
Educate private doctors about appropriate treatment of GC
  - Promote screening for chlamydia in the private medical community due to increased identification of asymptomatic infection and educate to use combo test to also screen for GC
  - Provide STD presentations in the community
  - Post syphilis flyers in other health department program areas
  - Post syphilis flyers in identified venues within HMA

# Detroit STD Initiatives

Coordinated by the STD Specialist

- **Youthville Adolescent Center**
  - School based clinic operated by Henry Ford Hospital
  - Routinized screening of all youth and young adults
  
- **Mini-Grant from National Chlamydia Coalition**
  - Partner with Molina (largest Medicaid provider in MI) to implement awareness and marketing campaign to increase chlamydia testing among female members age 16-26
  - Focus groups with Molina providers to ascertain barriers to screening
  
- **Chlamydia Evaluation Initiative**

(funded by CDC to assess chlamydia testing coverage in Detroit census tracts)

  - Working with major labs (DHWP, DMC, HFH, St. Johns)
  - Will overlay number of women screened with census data



# Detroit STD Initiatives

## ■ Improve Partner Management

- Distribute referral packets to private medical providers with tools to assist in partner management
- inSPOT- Soon to be launched a tool for clients with GC and CT to self notify their partners confidentially

## ■ Develop Partnerships and Collaborations with Community Organizations

- Ongoing partnerships with community based organizations to increase community awareness and planned interventions with targeted screenings for syphilis and HIV
- Provide treatment follow-up for GC and CT from Wayne County Jail and Wayne County Juvenile Detention Center
- Participate in the MSM Strategic Planning Initiative- partnership with cbo's and community members to develop programs to reduce rates of HIV & STD among MSM

# Advantage Health Center Waller Health Center On Cathedral Green

- Partner since 2000 to serve as a satellite clinic
- AHC is a federally qualified health center, incorporated in 1986
- AHC mission is to improve the health of the homeless population, in 2003 they expanded to include the uninsured and areas where there are not enough doctors available
- Screened for syphilis 1309, 283 referred from STD clinic and identified 2 cases of syphilis



# Motivational Family & Friends Circle

- Partner since 2002 to provide STD education and screen for syphilis
- MFFC was incorporated in June 1997
- MFFC mission is to strengthen Detroit families and communities by providing information and resources to overcome life challenges
- Screened for syphilis 457, educated 1431 and identified 2 cases of syphilis



# House of Infiniti

- Partner since 2005 to provide STD education and screen for syphilis
- HOI was incorporated in May 2003
- HOI mission is to educate, advocate, and promote the prevention of STD & HIV to LGBTQ youth and young adults of color in the City of Detroit
- Screened for syphilis 57, educated 1,087 and identified no case of syphilis



# Collaborations 2003 - 2009

Share same populations and goals

- HIV/AIDS Program - HIV Prevention and Care
- Horizon Project – Adolescents HIV Prevention and Care, LGBT
- Detroit Recovery Project – Substance Abuse Clients
- Community Health Awareness Group - HIV Prevention and Care, MSM
- AIDS Partnership Michigan - HIV Prevention and Care, MSM
- Ruth Ellis - Adolescents HIV Prevention and Care, LGBT
- Tranzformation – Transgender
- Michigan AIDS Coalition - HIV Prevention and Care, MSM



# Detroit Public Schools HIV Strategic Planning Group

- Collaborated since 2007 to engage, empower, and provide strategies through STD and HIV education to adolescents, parents and community members
- To improve awareness and prevent the occurrence of HIV, STD and teen pregnancy
- Educated over 700 adolescents and 100 parents



# Wayne State University

- Collaborated since 2001 to provide annual STD education and screening for syphilis and HIV to the incoming freshmen
- Educated 81 and screened 39 for syphilis and HIV, no case identified



# OUTREACHES

# Sandra Safe Sex



Michigan Department  
of Community Health



Jennifer M. Granholm, Governor  
Janet Olszewski, Director

# Outreach

- Targeted Latino community
- In 2008 – 20 total cases
- In 2009 – 5 total cases



# National HIV Testing Day

- Targeted community
- Educated and Screened for syphilis  
52 clients, identified 1 case



# High Morbidity Area Outreach

- Advertised & promoted outreach weeks prior with flyers
- Utilized fire station ladder area to screen
- Screened 55 clients for syphilis and 54 for HIV, identified 3 newly diagnosed HIV cases and 8 syphilis cases



# High Morbidity Area Outreach

- Follow-up the following week and screened 13 for Syphilis and HIV
- Set-up with private provider to treat 2 clients who returned for results
- From May 2007 – June 2008, identified 23 cases and 14 were connected



# High Morbidity Area Outreach

- Educated 105 and screened for syphilis 25 community members in a fitness club, identified no case



# Fraternity & Sorority Outreach

- Targeted young adult college students
- Educated 12 and screened for syphilis 12, no case identified



# EVENTS

# Hotter Than July

- Annual event to target LGBT community
- Educated 40 and screened for syphilis 19, identified 1 case



# Motor City Pridefest

- Annual event to target LGBT community
- Educated 50 and screened for syphilis 15, identified 1 case



# Veteran Stand Down

- Targeted veterans
- Educated 70 and screened for syphilis 16, and 3 for HIV, identified 1 case for syphilis



# National Condom Week

- Evening and weekend education and screening in bars and nightclubs
- Targeting MSM, high risk heterosexuals, and transgender communities
- Educated 325 and screened for syphilis 11 clients, no case identified



# Carz & Starz

- East vs West car show highlighting STD & HIV education and promoting screening
- Educated 100 and screened for syphilis 55 community members, no case identified
- STD Program has partnered to participate August 15, 2010 at Cobo Hall



# World AIDS Day

- Annual event targeting youth, mature adults and the LGBT community
- Educated 175 and screened for syphilis 43 community members, no case identified



# Detroit STD Challenges

- Resources are Limited
  - Level or shrinking Federal budget (about 7% decrease from 2005)
  - No client advocacy for STDs (Staff promote STD prevention efforts)
  - Fee for services in STD clinic
  
- Contact Elicitation Difficult
  - Community Health vs. Individual Health (Philosophy difference but reaching common ground by establishing partnerships and collaborations)
  
- Clients more Transient
  - Field Delivered Therapy (MI has recommended)
  
- Productivity of Target Screening
  - Activity is resource heavy – staff and supplies
  - Many outreaches result in no identified cases – 37 outreaches, 7 identified cases
  
- Ability to Reach High Risk Clients Where They are – screening prohibited

# Detroit STD Internet Initiatives

- Created Yahoo address to communicate confidentially to clients
- Developed a Facebook page to promote GYT (Get Yourself Tested) logo, provide STD education, updates and upcoming events

# Questions

