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
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

<table>
<thead>
<tr>
<th>Rank</th>
<th>City</th>
<th>Cases</th>
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<td>Baltimore, MD</td>
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<td>Houston, TX</td>
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<td>San Diego, CA</td>
<td>8</td>
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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 overtakes 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

- Heterosexual: 94%
- Bisexual: 2%
- MSM: 4%
- Lesbian: 0%
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

-83% Decrease between 2002 and 2006

<table>
<thead>
<tr>
<th>Year</th>
<th>Detroit</th>
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<tbody>
<tr>
<td>2000</td>
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<tr>
<td>2001</td>
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<td>2005</td>
<td>54</td>
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<tr>
<td>2006</td>
<td>63</td>
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</table>
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.

<table>
<thead>
<tr>
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</tr>
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</table>

Source: Michigan Department of Community Health

The Detroit News
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

Percent of Cases

Bar/Club  Street  Parks  School  Internet

2002 Males  2009 Males
Risk Factors

- Exchange Money/Drugs for Sex - Male
- Exchange Money/Drugs for Sex - Female
- Crack
- Ecstasy
- Jail Hx

Percent of Cases

- 2002
- 2009

2002 vs 2009 Comparison
P&S Syphilis
Detroit 2002
Total Number of Cases by Age Group and Sex

- 45+ Females: 20
- 30-44 Males: 70
- 25-29 Males: 40
- 20-24 Males: 30
- 15-19 Males: 20

Source MDCH/DHD
P&S Syphilis
Detroit 2009
Total Number of Cases by Age Group and Sex

Source: MDCH/DHD
P&S Syphilis
Detroit-2009
Sex by Sexual Orientation

Percent of Males

MSM
MSW
Mrefused

Percent of Females

WSM
Wrefused

Source MDCH/DHD
Gonorrhea and Chlamydia
### Reported Cases by US County and/or Independent City

<table>
<thead>
<tr>
<th>Chlamydia Cases</th>
<th>Gonorrhea Cases</th>
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<tbody>
<tr>
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<td>1&lt;sup&gt;st&lt;/sup&gt; Cook County, IL</td>
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<td>2&lt;sup&gt;nd&lt;/sup&gt; Cook County, IL</td>
<td>2&lt;sup&gt;nd&lt;/sup&gt; Detroit City</td>
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<tr>
<td>3&lt;sup&gt;rd&lt;/sup&gt; Detroit City</td>
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</table>

<table>
<thead>
<tr>
<th>Chlamydia Rate</th>
<th>Gonorrhea Rate</th>
</tr>
</thead>
<tbody>
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<td>1&lt;sup&gt;st&lt;/sup&gt; Memphis</td>
<td>1&lt;sup&gt;st&lt;/sup&gt; Memphis</td>
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<tr>
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<td>2&lt;sup&gt;nd&lt;/sup&gt; Virginia Beach/Norfolk</td>
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<tr>
<td>3&lt;sup&gt;rd&lt;/sup&gt; Birmingham</td>
<td>3&lt;sup&gt;rd&lt;/sup&gt; Birmingham</td>
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STD Rates Comparisons Among Women

CT Rate

GC Rate
Chlamydia by Region 1992-2009

<table>
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<tr>
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<td>2009</td>
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Note: The total rate of chlamydia for the United States and outlying areas (Guam, Puerto Rico, and Virgin Islands) was 398.5 per 100,000 population.
Chlamydia Demographic Distribution

- 15-19 yrs: F, M
- 20-24 yrs: F, M
- 25-29 yrs: F
- 35-39 yrs: F

Chlamydia Rate per 100,000

- African American-M
- Asian-F
- Caucasian-F
- Other-F
- Asian-F
- Caucasian-F
- Other-F
- African American-M
- African American-F
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)
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.
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.
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.

Rate per 100,000 population

- <=19.0 (n= 1,305)
- 19.1-100.0 (n= 1,136)
- >100.0 (n= 700)
Gonorrhea Demographic Distribution

Gonorrhea Rate per 100,000

- African American-M
- African American-F
- Caucasian-F
- Asian-F
- Asian-F
- Other-F
- Other-F
- Caucasian-F
- African American-F
- African American-M
Muskegon County Prelim 2009 Gonorrhea Core Analysis

Legend
Contributing Morbidity
- Light Blue: 100
- Yellow: 50
- Red: 50
References and Fact Sheets

www.michigan.gov/hivstd

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

macomberk@michigan.gov

517-335-9807
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
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