STD/HIV/TB Section
Updates
All Provider Meeting 2016

Krissie Guerard, MS
STD/HIV/TB Section Manager
Minnesota Department of Health
Overview

• Funding
• Statewide HIV Strategy Update
• New RFP Coming
• Prioritizing Populations
## Funding

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<tbody>
<tr>
<td>STD</td>
<td>1,079,000</td>
<td>1,076,960</td>
<td>1,018,827</td>
<td>1,058,626</td>
<td>1,089,197</td>
<td>1,115,774</td>
<td>1,115,774</td>
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<tr>
<td>HIV Prevention</td>
<td>3,228,833</td>
<td>2,909,482</td>
<td>2,563,000</td>
<td>2,380,175</td>
<td>2,078,704</td>
<td>1,877,115</td>
<td>1,877,115</td>
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<tr>
<td>HIV Surveillance</td>
<td>490,016</td>
<td>479,978</td>
<td>433,570</td>
<td>419,320</td>
<td>419,320</td>
<td>433,606</td>
<td>419,320</td>
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<tr>
<td>TB</td>
<td>953,180</td>
<td>1,014,544</td>
<td>913,457</td>
<td>898,227</td>
<td>919,787</td>
<td>963,392</td>
<td>963,392</td>
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Statewide HIV Strategy Update

• Alvine Laure Ekame – Started in August as the Statewide Strategy Planner
• Looking at other jurisdictional plans and research
• Meeting with the government agencies
• Developed time line
• Developing an RFP for facilitator at community meetings
• Recruiting Advisory Board Members (2 groups – core group and large group)
• Spring/Summer – Meeting with community members and developing goals
• Fall/Winter – Draft Strategy Completed
RFP Coming in 2017!!!

- HIV grants extended one year through 2017
  - New grant released in 2017 incorporating both HIV Prevention and Surveillance
- RFP release sometime in late spring/early summer 2017
- Funding to begin in 2018
Prioritization of Populations for HIV Prevention Request for Proposals

• 2 Tracks:
  • 7-County Metro Area:
    • HIV Testing
    • Syringe Exchange (Includes HIV/HCV Testing)
    • Prevention with HIV-Positives
  • Greater Minnesota:
    • HIV Testing
    • Syringe Exchange (Includes HIV/HCV Testing)
    • Prevention with HIV-Positives
Prioritization of Populations for HIV Prevention Request for Proposals

CDC Guidelines for Targeted HIV Prevention

- Review CTR Data
- Review HIV Surveillance Data
- Review Continuum of Care

eHARS
7-County Metro Area Populations

• HIV Testing:
  1) MSM (158.1 per 100,000)
     • Black (20.8% of Metro MSM, 3.8 rate)
     • Hispanic (10.1% of Metro MSM, 1.6 rate)
     • White (61.9% of Metro MSM, 0.8 rate)
  2) Black Women (34.8 per 100,000)
     • African-American (95% in Metro)
     • African-Born (89% in Metro)
  3) Transgender (13.8 per 100,000)

• Syringe Exchange
  • MSM/IDU, 77% of all IDU in Metro

• Prevention with HIV-Positives
  • All populations

Source: eHARS HIV Surveillance System 2013-2015

Greater Minnesota Populations

17% of new HIV cases, need to target

• HIV Testing:
  • All MSM (51% of all new HIV)

• Syringe Exchange:
  • All IDU (50% IDU, 50% MSM/IDU)

• Prevention with HIV-Positives
  • All populations

Source: eHARS HIV Surveillance System
2013-2015

HIV Continuum of Care in Minnesota and National HIV/AIDS Strategy 2020

Jared Shenk, MPH
HIV Care and Prevention Epidemiologist
Minnesota Department of Health

All Provider Meeting
December 13, 2016
What will we cover today?

- Most recent Minnesota HIV Continuum of Care
- National HIV/AIDS Strategy indicators related to continuum of care
- Viral Suppression in Minnesota
- Integrating Prevention and Care
- Questions
Definitions we will use today

• **Persons Living with Diagnosed HIV/AIDS (PLWH)**
  Defined as persons diagnosed with HIV infection (regardless of stage at diagnosis) through year-end 2014, who were alive at year-end 2015

• **Linkage to Care**
  Calculated as the percentage of persons linked to care within 3 months after initial HIV diagnosis during 2014. **Linkage to care is based on the number of persons diagnosed in 2014 and is therefore shown in a different color than the other bars with a different denominator.**

• **Retention in Care**
  Calculated as the percentage of persons who had ≥1 CD4 or viral load test results reported to MDH during 2015 among those diagnosed with HIV through year-end 2014 and alive at year-end 2015

• **Viral Suppression**
  Calculated as the percentage of persons who had suppressed viral load (≤200 copies/mL) at most recent test during 2015, among those diagnosed with HIV through year-end 2014 and alive at year-end 2015
United States HIV Continuum of Care

HIV Care Continuum Shows Where Improvements are Needed

In the US, 1.2 million people are living with HIV. Of those:

- Diagnosed: 86%
- Engaged in Care: 40%
- Prescribed ART*: 37%
- Virally Suppressed: 30%

Sources: CDC National HIV Surveillance System and Medical Monitoring Project, 2011.

*Antiretroviral therapy

Source: https://www.aids.gov/federal-resources/policies/care-continuum/
Minnesota HIV Continuum of Care

Percentage of persons with HIV engaged in selected stages of the continuum of care

- **1100 undiagnosed**
- **7808 Persons living with HIV and undiagnosed estimate**
- **100%**
- **7808 Persons living with diagnosed HIV (PLWH)**
- **7908**
- **244/309 Linkage to Care**
- **70% of PLWH**
- **270/309**
- **87% in 90 days Retention in Care**
- **76% of retained †**
- **5476/7808**
- **53% of PLWH**
- **4144/7808**

**New HIV Diagnoses in 2014**
- **5476/7808 70% of PLWH**

**Total 8908**

- **a Defined as persons undiagnosed [1100 (640-1500 95% CI)] and persons diagnosed (7808) 13 or older with HIV infection at year-end 2014, still alive at year-end 2015**
- **b Defined as persons diagnosed 13 or older with HIV infection at year-end 2014, still alive at year-end 2015**
- **c Calculated as percentage of persons linked to care within 30- and 90-days of HIV diagnosis during 2014, shown as a different color because of a different denominator**
- **d Calculated as percentage of persons who had ≥1 CD4 or viral load test results reported to MDH during 2015 among those diagnosed through year-end 2014, still alive at year-end 2015**
- **e Calculated as percentage of persons who had suppressed viral load (≤200 copies/mL) at most recent reported test in 2015 among those diagnosed through year-end 2014, still alive at year-end 2015**
- **† Calculated as number of persons who had suppressed viral load (≤200 copies/mL) at most recent reported test in 2015 among those retained in care (4144/5476)**
### National HIV/AIDS Strategy Outcomes

#### THE OUTCOMES BY 2020

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Details</th>
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<tbody>
<tr>
<td>Increase the percentage of people living with HIV <strong>who know their serostatus</strong> to at least 90 percent.</td>
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<tr>
<td>Reduce the <strong>number of new diagnoses</strong> by at least 25 percent.</td>
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<tr>
<td>Reduce the percentage of young gay and bisexual men who have <strong>engaged in HIV-risk behaviors</strong> by at least 10 percent.</td>
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<tr>
<td>Increase the percentage of newly diagnosed persons <strong>linked to HIV medical care</strong> within one month of their HIV diagnosis to at least 85 percent.</td>
<td></td>
</tr>
<tr>
<td>Increase the percentage of persons with diagnosed HIV infection who are <strong>retained in HIV medical care</strong> to at least 90 percent.</td>
<td></td>
</tr>
<tr>
<td>Increase the percentage of persons with diagnosed HIV infection who are <strong>virally suppressed</strong> to at least 80 percent.</td>
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</table>
Where do we need to be by 2020 to meet the goal?

Where we need to be: 90% who know serostatus

- 8018/8908 diagnosed with HIV infection and estimated living with HIV in the state

Where we are: 90% who know serostatus

- 7808 diagnosed as of 2015

Increase the percentage of people living with HIV who know their serostatus to at least 90 percent.
Where do we need to be by 2020 to meet the goal?

Where we are:
320 average new HIV diagnoses per year 2005-2014

Where we need to be:
75% 240 new HIV diagnoses

80 fewer HIV diagnoses

Reduce the number of new diagnoses by at least 25 percent.
Increase the percentage of newly diagnosed persons linked to HIV medical care within one month of their HIV diagnosis to at least **85 percent**.

Where do we need to be by 2020 to meet the goal?

- **85% linked to care**

Where we need to be:
- **263/309 cases linked within 30 days**

Where we are:
- **79% 244/309 cases linked within 30 days in 2014**

19 more people linked within 30 days.
Increase the percentage of persons with diagnosed HIV infection who are **retained in HIV medical care** to at least **90 percent**.

Where do we need to be by 2020 to meet the goal?

**Where we need to be**

- **90% retained in care**
  - **7027/7808 retained in care**

**1551 additional people retained in care**

**Where we are**

- **90% retained in care**
  - **70% 5476/7808 retained in care in 2015**
Increase the percentage of persons with diagnosed HIV infection who are **virally suppressed** to at least **80 percent**.

Where do we need to be by 2020 to meet the goal?

- **Where we need to be**:
  - 80% virally suppressed
  - 6246/7808 virally suppressed

- **Where we are**:
  - 80% virally suppressed in 2015
  - 4144/7808 virally suppressed

- **2102 additional people** virally suppressed
What would an ideal continuum look like?

Percentage of persons with HIV engaged in selected stages of the continuum of care

- **PLWH**: 100%
- **Linkage to Care**: 19 more people
- **Retention in Care**: 1551 more people
- **Viral Suppression**: 2102 more people

This is where we need to work.
Another thing to keep in mind

Percentage of persons with HIV engaged in selected stages of the continuum of care

- **PLWH**: 7808
- **Linkage to Care**: Target: 263, 19 more people
- **Retention in Care**: Target: 7027, 1551 more people
- **Viral Suppression**: Target: 6246, 2102 more people

If we retain more people in care, we also have to make sure they are virally suppressed!
What is going on with viral suppression in Minnesota?

Viral Suppression Percentages by Year

- 2013: 61%
- 2014: 62%
- 2015: 63%
- 2016: 53%

10% decrease between 2015 and 2016
Viral Suppression in Continuum of Care

- Virally suppressed: 53% (4144)
- Not virally suppressed: 47% (3664)
- Not in care: 30% (2336)
- In care/not virally suppressed: 7% (558)
- CD4/no VL: 10% (770)
Persons Out of Care

Percentages of people out of care in 2015 (2336), as of January 1, 2015, when was their last lab?

- 27% (631 people) for 1 year
- 9% (210 people) for 2 years
- 6% (147 people) for 3 years
- 58% (1348 people) for >3 years
Of those in care but not virally suppressed (558), distribution of viral load results:

- 13% (70 persons) with viral load between 201-500
- 34% (192 persons) with viral load between 501-10,000
- 53% (294 persons) with viral load > 10,000
Could it be that we’re actually doing worse with viral suppression?

Thankfully, no!

Percentage of total diagnoses, in care, viral load reported, not virally suppressed

<table>
<thead>
<tr>
<th>Year</th>
<th>Percentage</th>
<th>Count</th>
</tr>
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<tbody>
<tr>
<td>2012</td>
<td>11%</td>
<td>782</td>
</tr>
<tr>
<td>2013</td>
<td>9%</td>
<td>637</td>
</tr>
<tr>
<td>2014</td>
<td>7%</td>
<td>566</td>
</tr>
<tr>
<td>2015</td>
<td>7%</td>
<td>558</td>
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So what about people with CD4/no viral loads?

Percentage of people with CD4 but no viral load reported to MDH

- In care 2015: 10%
- In care 2014: 2%
- In care 2013: 1%
- In care 2012: 1%

This 5-fold increase is a major factor in the 10% drop in viral suppression between 2015 and 2016.
Let’s break it down: 2014 v. 2015

- **2014**
  - Virally suppressed: 63%
  - Not virally suppressed: 37%
  - Not in care: 28%
  - CD4/no VL: 2%
  - In care/not virally suppressed: 7%

- **2015**
  - Virally suppressed: 53%
  - Not virally suppressed: 47%
  - Not in care: 30%
  - CD4/no VL: 10%
  - In care/not virally suppressed: 7%

Here is the difference.
What if all CD4s had Viral Loads Reported?

Percentage of persons with HIV engaged in selected stages of the continuum of care

PLWH: 100%
Linkage to Care: 19 more people
Retention in Care: 1551 more people
Viral Suppression: Number of additional people would go down ↓

These people may be virally suppressed but misclassified.
What is MDH doing about this?

• Further analyses to determine how much of drop in viral suppression is attributable to decreased viral load reporting
• Identifying which clinical systems are not consistently reporting viral loads
• Working with these clinical systems to increase reporting, requirement by state statute
• Evaluating prevalence database:
  • CDC updates to coding programs
  • Matches with vital records
  • National CDC database matches
  • eHARS to CAREWare

Take-home point: MDH is reliant on reported data, so if that is incomplete, our continuum of care will not accurately represent HIV in Minnesota
Integration of HIV Care and Prevention
### Reviewing the Continuum of Care

Percentage of persons with HIV engaged in selected stages of the continuum of care

<table>
<thead>
<tr>
<th>Stage</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>1100 undiagnosed</strong></td>
<td>- Number of persons with HIV who were undiagnosed at the end of 2014.</td>
</tr>
<tr>
<td><strong>100%</strong></td>
<td>- Percentage of all persons diagnosed with HIV who were linked to care.</td>
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<td><strong>New HIV Diagnoses in 2014</strong></td>
<td>- 244/309 (79%) within 30 days Linkage to Care.</td>
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<td>- 270/309 (87%) within 90 days Linkage to Care.</td>
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<td><strong>7808 persons living with diagnosed HIV (PLWH)</strong></td>
<td>- 70% retention in care.</td>
</tr>
<tr>
<td><strong>Retention in Care</strong></td>
<td>- 53% viral suppression.</td>
</tr>
<tr>
<td><strong>Viral Suppression</strong></td>
<td>- 76% of retained persons had suppressed viral load.</td>
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</table>

**Definitions:**

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High Impact HIV Prevention Based on Surveillance Data

• Gay and bisexual men
• African Americans
• Latinos
• Injection Drug Users
• Transgender individuals

Projects for the next year

• Continued analysis of the continuum of care
• Data to Care Technical Assistance project
• eHARS to CAREWare project
• Re-Engagement in Care at both MDH and Hennepin County
• HIV Prevention RFP
Questions?

Jared Shenk

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