“90-90-90” and Behavioral Surveillance Indicators

H. Fisher Raymond
## Populations, sources and Indicators

<table>
<thead>
<tr>
<th>Population / Source / Year(s)</th>
<th>Indicator(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDU / NHBS / 2012</td>
<td>90-90-90&lt;br&gt;PrEP</td>
</tr>
<tr>
<td>Trans women / TEACH1 / 2010&lt;br&gt;TEACH2 / 2013</td>
<td>90-90-90&lt;br&gt;PrEP</td>
</tr>
<tr>
<td>HRH / NHBS / 2013</td>
<td>90-90-90&lt;br&gt;PrEP</td>
</tr>
</tbody>
</table>
HIV negative MSM: PrEP, pure serosorting, condom use, UAI partners and STIs

Graph showing trends from 2004 to 2014:
- 100% Condom Use
- Serosorting
- PrEP Use
- Syphilis
- GC
- 3-5 CLAI Partners

Key points:
- 2004:
  - 100% Condom Use: 23.5%
  - Serosorting: 2.5%
  - PrEP Use: 0%
  - Syphilis: 0%
  - GC: 0%
  - 3-5 CLAI Partners: 0%
- 2011:
  - 100% Condom Use: 30.5%
  - Serosorting: 29.6%
  - PrEP Use: 1.4%
  - Syphilis: 0%
  - GC: 0%
  - 3-5 CLAI Partners: 3%
- 2014:
  - 100% Condom Use: 35.2%
  - Serosorting: 18.2%
  - PrEP Use: 11.9%
  - Syphilis: 9.6%
  - GC: 3%
  - 3-5 CLAI Partners: 7.2%
Figure 1. 90-90-90 indicators by race / ethnicity, MSM, San Francisco, 2014.
<table>
<thead>
<tr>
<th></th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ever used PrEP</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>502</td>
<td>99.6</td>
</tr>
<tr>
<td>Yes</td>
<td>2</td>
<td>0.4</td>
</tr>
<tr>
<td><strong>Heard of PrEP</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>388</td>
<td>77.0</td>
</tr>
<tr>
<td>Yes</td>
<td>116</td>
<td>23.0</td>
</tr>
<tr>
<td><strong>Eligible for PrEP</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>222</td>
<td>44.1</td>
</tr>
<tr>
<td>Yes</td>
<td>282</td>
<td>56.0</td>
</tr>
</tbody>
</table>
IDU: “90-90-90”

- Diagnosed: 56.1%
- Seen Doc: 91.9%
- Current Meds: 73.5%
- Virally Suppressed: NA
Trans women: PrEP

- 30.2% of HIV-negative eligible for PrEP using MSM/ IDU guidelines
- 13.7% heard of PrEP
- 0.4% would be willing to use PrEP
- 0% were using PrEP

Wilson et al. 2015 PLoS One
Trans women: 90-90-90

- Diagnosed: 86.9%
- Currently on ARVs: 83.6%
- Virally Suppressed: 63.9%
HRH: PrEP

0%
HRH: 90-90-90

0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

Diagnosed  Currently on ARVs  Virally Supressed

0 0 0