TB & HIV: Opportunities for Prevention & Intervention

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Special Thanks

- Arizona Department of Health Services
  - HIV Epidemiology Program
  - http://www.azdhs.gov/phs/hiv/reporting/
Presentation Goals

• During this presentation we will discuss:
  – Current HIV Prevalence and Incidence in Arizona
  – Risk behaviors related to HIV infection
  – Link between Tuberculosis and HIV
  – Opportunities for prevention and intervention in TB/HIV co-morbid patients
The HIV Epidemic in Arizona

• Approximately 700-800 new cases of HIV/AIDS each year
• 14,265 PLWHA in Arizona
  – 371.29/100,000 males
  – 60.41/100,000 females
• Estimated 1 of every 459 persons in Arizona is HIV+
## Disparities by Race/Ethnicity

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<tbody>
<tr>
<td></td>
<td>Cases</td>
<td>% Total</td>
<td>Rate Per 100,000</td>
<td>Cases</td>
<td>% Total</td>
<td>Rate Per 100,000</td>
</tr>
<tr>
<td>White non-Hispanic</td>
<td>8,146</td>
<td>57.60%</td>
<td>211.99</td>
<td>1,760</td>
<td>47.6</td>
<td>9.48</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>1,596</td>
<td>11.30%</td>
<td>638.43</td>
<td>431</td>
<td>11.7</td>
<td>38.54</td>
</tr>
<tr>
<td>Hispanic</td>
<td>3,561</td>
<td>25.20%</td>
<td>182.09</td>
<td>1252</td>
<td>33.8</td>
<td>14.05</td>
</tr>
<tr>
<td>A/PI/H non-Hispanic</td>
<td>166</td>
<td>1.20%</td>
<td>96.31</td>
<td>51</td>
<td>1.4</td>
<td>6.58</td>
</tr>
<tr>
<td>AI/AN non-Hispanic</td>
<td>445</td>
<td>3.10%</td>
<td>159.2</td>
<td>161</td>
<td>4.4</td>
<td>12.07</td>
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<tr>
<td>MR/Other non-Hispanic</td>
<td>228</td>
<td>1.60%</td>
<td>N/A</td>
<td>44</td>
<td>1.2</td>
<td>N/A</td>
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<tr>
<td>TOTAL</td>
<td>14142</td>
<td>100.00%</td>
<td>217.56</td>
<td>3699</td>
<td>100</td>
<td>12.05</td>
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## Transmission Category

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<tbody>
<tr>
<td></td>
<td>Cases</td>
<td>% State Total</td>
</tr>
<tr>
<td>MSM ¹</td>
<td>8,491</td>
<td>60.00%</td>
</tr>
<tr>
<td>IDU ²</td>
<td>1,573</td>
<td>11.10%</td>
</tr>
<tr>
<td>MSM/IDU ³</td>
<td>1,206</td>
<td>8.50%</td>
</tr>
<tr>
<td>Heterosexual</td>
<td>1,397</td>
<td>9.90%</td>
</tr>
<tr>
<td>O/H/TF/TPR ⁴</td>
<td>171</td>
<td>1.20%</td>
</tr>
<tr>
<td>No Reported Risk</td>
<td>1,304</td>
<td>9.30%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>14,142</td>
<td>100.00%</td>
</tr>
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</table>
TB/HIV by RISK

- **HIV Only**
  - Other/Unknown: 90%
  - High-risk Heterosexual: 5%
  - MSM: 15%
  - Any IDU: 15%

- **HIV/TB**
  - Other/Unknown: 90%
  - High-risk Heterosexual: 5%
  - MSM: 15%
  - Any IDU: 15%
TB/HIV by Race/Ethnicity
Opt-Out HIV Testing

• HIV testing in Arizona does not require additional written consent
• Routine HIV testing is better than risk-based HIV testing
• CDC recommends all patients in TB clinics be tested for HIV
• CDC recommends all HIV+ patients be screened for TB
Diagnoses Lag Time

- 23.2% received TB dx 1 month after HIV dx
- 60.5% received TB dx 3 months after HIV dx

Possible conclusions:

- Patient was co-infected at time of HIV dx but was not screened for TB until medical care initiated
- Patient was previously LTBI but progressed to active TB due to HIV infection
Screening Implications

• Recommendation
  – Screen all HIV+ individuals for TB
  – Screen all persons with TBI and LTBI for HIV

• Intervention Opportunities
  – Treatment regimens may change based on HIV tx
    – http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5302a6.htm
  – HIV+ persons have access to other services to improve health outcomes (RWPA, PCIP, etc.)
Public Health Approach

- MCDPH provides a comprehensive screening approach for STD, TB and HIV screening.

STD SERVICES

HIV SERVICES

TB CONTROL

IMMUNIZATION CLINIC
HIV Partner Services

- HIV & AIDS are reportable conditions in Arizona (ARS 36-621 and AAC R9-6-202)
- Partner Services follows up with each person reported to have an HIV infection to:
  - Conduct a needs assessment
  - Assist with accessing medical care and services
  - Conduct a contact investigation
Questions?

THANK YOU!