Current HIV/AIDS Situation in Taiwan

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Annual New HIV and AIDS Diagnoses:
Taiwan, 1984-2012

- Cumulative HIV cases: 24,239
- Cumulative AIDS cases: 9,725
- Cumulative HIV/AIDS deaths: 3,771

Estimated HIV prevalence: 0.21% in 2012
HIV Diagnoses by Sex and Transmission
Category: Taiwan, 1984-2012

Male
- Men Who Have Sex with Men: 54.2%
- Heterosexual Contact: 18.4%
- Injecting Drug Users: 0.3%
- Vertical Transmission: 0.1%
- Hemophiliacs and Blood Recipient: 1.2%
- Undetermined: 25.8%

Female
- Men Who Have Sex with Men: 46.3%
- Heterosexual Contact: 51.0%
- Injecting Drug Users: 0.8%
- Vertical Transmission: 0.6%
- Hemophiliacs and Blood Recipient: 1.2%
- Undetermined: 0.4%

N= 22,532
\[ \sigma : \varphi = 13.1 : 1 \] (average)

HIV Diagnoses by Sex and Transmission
Category: Taiwan, 2008-2012

Male
- Men Who Have Sex with Men: 75.5%
- Heterosexual Contact: 8.6%
- Injecting Drug Users: 1.1%
- Vertical Transmission: 0.0%
- Hemophiliacs and Blood Recipient: 0.0%
- Undetermined: 14.7%

Female
- Men Who Have Sex with Men: 31.6%
- Heterosexual Contact: 64.8%
- Injecting Drug Users: 0.5%
- Vertical Transmission: 2.5%
- Hemophiliacs and Blood Recipient: 0.5%
- Undetermined: 0.0%

N= 9,004
\[ \sigma : \varphi = 25 : 1 \] (average)

N= 364
Mean Age of New HIV Diagnoses:
Taiwan, 2008-2013

New Female HIV Diagnoses by Age Group:
Taiwan, 1984-2012
New Male HIV Diagnoses by Age Group: Taiwan, 1984-2012

Prevalence Rate of Diagnosed HIV Infection by Region: Taiwan, 2012 (per million persons)
AIDS Control Strategies in Taiwan

- **Prevention**: Prevent new infection
  - Health education
  - Safeguard blood supply
  - Harm reduction program
  - Provision of condom & lubricant at saunas and hotels
  - Prevention of mother-to-child transmission (PMTCT)

- **Detection**: Early case finding
  - Voluntary counseling and testing
  - Active surveillance
  - Case reporting and management

- **Care for the infected**
  - Free medical care with HAART

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Public Awareness

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Harm Reduction Program

Needle-Syringe Program Stations

<table>
<thead>
<tr>
<th>Month</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nov. 2005</td>
<td>76</td>
</tr>
<tr>
<td>Jul. 2006</td>
<td>427</td>
</tr>
<tr>
<td>Oct. 2008</td>
<td>1,103</td>
</tr>
<tr>
<td>Dec. 2011</td>
<td>1,303</td>
</tr>
<tr>
<td>Mar. 2013</td>
<td>1,364</td>
</tr>
</tbody>
</table>

- 300,000 needles/month
- Reclaimed rate: 91%

On treatment case No.
- 12,000/day

Methadone Maintenance Treatment Clinics

Program Evaluation: Transmission Rate (IDU)

Transmission Rate = New Reported case number / Accumulative alive case number
Recent HIV Infection Rate among IDU

**Prevention of Mother to Child Transmission 2005~**

- HIV testing is offered at 1\textsuperscript{st} prenatal checkup during 1\textsuperscript{st} trimester or during any prenatal checkup.
- For high risk pregnant women (e.g. those with history of STI, sex workers, IDUs), repeat Screening in the 3\textsuperscript{rd} trimester is recommended.
- ARV prophylaxis is recommended for the HIV(+) mother (intravenous injection during labor) and newborn (from birth till 6 weeks of age).
- Follow up till 18 months of age.
Prevention of Mother to Child Transmission

<table>
<thead>
<tr>
<th>Year</th>
<th>No. of screen</th>
<th>Coverage</th>
<th>HIV(+)</th>
<th>Positive rate (per 100,000)</th>
<th>HIV baby</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>235,791</td>
<td>-</td>
<td>27</td>
<td>11.45</td>
<td>5</td>
</tr>
<tr>
<td>2006</td>
<td>199,428</td>
<td>95%</td>
<td>31</td>
<td>15.54</td>
<td>4</td>
</tr>
<tr>
<td>2007</td>
<td>206,165</td>
<td>98%</td>
<td>7</td>
<td>3.39</td>
<td>0</td>
</tr>
<tr>
<td>2008</td>
<td>200,148</td>
<td>99%</td>
<td>6</td>
<td>2.99</td>
<td>1</td>
</tr>
<tr>
<td>2009</td>
<td>186,624</td>
<td>99%</td>
<td>3</td>
<td>1.60</td>
<td>0</td>
</tr>
<tr>
<td>2010</td>
<td>187,729</td>
<td>99%</td>
<td>3</td>
<td>1.59</td>
<td>0</td>
</tr>
<tr>
<td>2011</td>
<td>221,788</td>
<td>99%</td>
<td>2</td>
<td>0.90</td>
<td>0</td>
</tr>
<tr>
<td>2012</td>
<td>226,230</td>
<td>99%</td>
<td>6</td>
<td>2.65</td>
<td>0</td>
</tr>
</tbody>
</table>

Prevention Strategies for MSM

- Set up LGBT health centers
- Develop culture appropriate educational materials
- Set up consultation hotline
- Install condom vending machines at gathering venues
- Utilization of social media
  - Establish web-based platform for opinion leaders to advocate awareness
  - Set up FB fan page
- Work with NGOs to outreach
Care and Treatment

- Free medical care
  - Provide AZT since 1988
  - Provide HAART since 1997
  - Recommend initiation of ARV if CD4 count <350 cells/mm³

- 52 designated HIV/AIDS hospitals
- Case management
  - Conduct partner notification & services
  - Provide counseling
  - Enhance adherence
  - Coordinate social support

We speculated 29,000 PLWH as of 2012
### HIV Drug Resistance Early Warning Indicators

<table>
<thead>
<tr>
<th>EWI</th>
<th>Measure</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>EWI-1</td>
<td>On-time pill pick-up (2012 Tx cohort)</td>
<td>90%</td>
</tr>
<tr>
<td>EWI-2</td>
<td>Retention in care (2011 Tx cohort)</td>
<td>85.1%</td>
</tr>
<tr>
<td>EWI-3</td>
<td>Pharmacy stock-outs</td>
<td>100%</td>
</tr>
<tr>
<td>EWI-4</td>
<td>Dispensing practices (2012 Tx cohort)</td>
<td>0%</td>
</tr>
<tr>
<td>EWI-5</td>
<td>Viral load suppression at 12 months</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2009</td>
<td>87.2%</td>
</tr>
<tr>
<td></td>
<td>2010</td>
<td>88.1%</td>
</tr>
<tr>
<td></td>
<td>2011</td>
<td>89.4%</td>
</tr>
</tbody>
</table>

### Outcome of Care and Treatment

![Graph showing the outcome of care and treatment](image)
Program Evaluation: Transmission Rate (Heterosexual)

Transmission Rate = New Reported case number / Accumulative alive case number

Program Evaluation: Transmission Rate (MSM)

Transmission Rate = New Reported case number / Accumulative alive case number