The Burden of Sexually Transmitted Infections among Men who have Sex with Men in Kisumu, Kenya

Nyanza Reproductive Health Society

Kenya

Otieno, Fredrick
Anza Mapema Study

• Longitudinal cohort study targeting 700 HIV+ and HIV- gay and bisexual men who have sex with men (GBMSM)

• Study site:
  – Kisumu, AM TM clinic and AM town clinic

• Quarterly visits for 12 months
  – HIV negative on PrEP, additional year of follow up
  – HIV positive, monthly follow up
Objectives

• Prevalence of HBV, HCV and STIs (HSV-2, Syphilis, Gonorrhoea and Chalmydia)
• STI Incidence
• Evaluate STI risk factors
• Determine if retaining men in AM reduces incident STIs as biomarker for risk behaviours
• Assess uptake and adherence to PrEP among subset of HIV- high risk MSM
Challenges

• Delays in IRB approvals
• Double enrolment
• Delays in laboratory results turn around time
• Migration
Successes

• Largest GBMSM cohort in region
• Rapid recruitment in one year
• Test and Treat
• Active peer network
• High retention rates
• Continuous engagement even with exited participants
Stakeholder Engagement

• Active Community Advisory Board (CAB)
• Active linkages with LGBTI groups in the area
• Membership of the MSM Research Consortium
• Participation in local and national TWG
  – Key populations
  – HIV Pre Exposure Prophylaxis
  – Sexually Transmitted Infections
Baseline Screening and Enrolment

- Screened: 1,012
  - Eligible: 756 (75%)
  - Ineligible: 248
    - Refused: 8
    - Enrolled: 713 (94%)
      - HIV Negative: 636 (89%)
      - HIV Positive: 77 (11%)
      - 11 Seroconverters
  - 44 withdrawn
## Baseline Risk Behaviours

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age (median, IQR)</td>
<td>23 (21-28)</td>
<td></td>
</tr>
<tr>
<td>Had sex for money in last 3 months</td>
<td>408</td>
<td>65.8</td>
</tr>
<tr>
<td>Always has transactional sex</td>
<td>48</td>
<td>7.7</td>
</tr>
<tr>
<td>Ever used condoms for AI last 3 mos</td>
<td>538</td>
<td>86.6</td>
</tr>
<tr>
<td>Always used condoms for AI in last 3 mos</td>
<td>244</td>
<td>39.3</td>
</tr>
<tr>
<td>Ever treated for STI</td>
<td>79</td>
<td>12.7</td>
</tr>
<tr>
<td>Ever tested for HIV in past year before study</td>
<td>517</td>
<td>83.4</td>
</tr>
<tr>
<td>Ever forced to have sex with a man</td>
<td>147</td>
<td>23.7</td>
</tr>
<tr>
<td>Hazardous/harmful alcohol consumption</td>
<td>311</td>
<td>50.2</td>
</tr>
<tr>
<td>Ever injected drugs in past year</td>
<td>40</td>
<td>6.4</td>
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</tbody>
</table>
Baseline HIV and STI Prevalence

<table>
<thead>
<tr>
<th>Condition</th>
<th>Prevalence (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIV</td>
<td>10.3</td>
</tr>
<tr>
<td>HSV-2</td>
<td>22.7</td>
</tr>
<tr>
<td>Syphilis</td>
<td>0.7</td>
</tr>
<tr>
<td>Urine CT</td>
<td>9.9</td>
</tr>
<tr>
<td>Rectal CT</td>
<td>2.7</td>
</tr>
<tr>
<td>Urine NG</td>
<td>3.8</td>
</tr>
<tr>
<td>Rectal NG</td>
<td>3.8</td>
</tr>
<tr>
<td>Hepatitis C</td>
<td>3.5</td>
</tr>
<tr>
<td>Hepatitis B</td>
<td>9.3</td>
</tr>
</tbody>
</table>
Policy and Programme Significance

- Change in STI guidelines
  - STI diagnosis and treatment among GBMSM
- PrEP policy
- Hepatitis B vaccination
- Hepatitis C magnitude
Acknowledgements

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