How many attendees with STI related needs are offered and tested for HIV in sexual health services in England?

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Background

In 2018, over 1.3 million HIV tests were carried out in sexual health services in England. Despite this, there were many missed opportunities for HIV testing.

The BASHH standards recommend that 97% of attendances with STI-need should be offered an HIV test and 85% of attendances should have an HIV test recorded.

Data source: GUMCAD data
Background

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Objectives

1. Calculate the offer and uptake of testing in people attending SHS with STI-needs
2. Explore the association between HIV test offer and sexual orientation group of SHS attendees with STI-needs
Methods

• Data on all SHS attendance episodes in England in 2018 were obtained from the GUMCAD STI Surveillance system.

• The presence of any STI test, diagnosis or vaccination code was used as a proxy for STI-need.

• STI-need attendance episodes excluded:
  • Known to be living with HIV
  • Attending for reproductive reasons
  • HIV test coded as not appropriate

• The offer and acceptance of HIV testing was determined for each STI-need attendance episode.

• The association between the offer of HIV testing and potential confounders was determined using a stratified logistic regression.

The number of attendance episodes classified according to attendance type, by sexual orientation, all SHS, 2018

See Poster P152 for more information about attendance trends by attendance type

Data source: GUMCAD data
Results: The percentage of STI-need attendance episodes with offer of an HIV test and tested for HIV

213,003 missed opportunities to offer a test
64% of which were in Heterosexual women

Data source: GUMCAD service data
How many attendees with STI related needs are offered and tested for HIV in sexual health services in England?

Data source: GUMCAD service data
### Unadjusted Odds ratios for the offer of an HIV test, stratified by sexual orientation

<table>
<thead>
<tr>
<th>Ethnicity and Region of birth</th>
<th>Het Male</th>
<th>MSM</th>
<th>All women</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OR</td>
<td>p-value</td>
<td>OR</td>
</tr>
<tr>
<td>White</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not born in high prevalence country</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Born in high prevalence country</td>
<td>1.17</td>
<td>&lt;0.001</td>
<td>1.15</td>
</tr>
<tr>
<td>Black African</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not born in high prevalence country</td>
<td>0.85</td>
<td>&lt;0.001</td>
<td>0.88</td>
</tr>
<tr>
<td>Born in high prevalence country</td>
<td>1.15</td>
<td>&lt;0.001</td>
<td>1.19</td>
</tr>
<tr>
<td>All other ethnicities</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not born in high prevalence country</td>
<td>0.97</td>
<td>&lt;0.001</td>
<td>0.98</td>
</tr>
<tr>
<td>Born in high prevalence country</td>
<td>1.09</td>
<td>0.001</td>
<td>1.11</td>
</tr>
<tr>
<td>Age group</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Under 25</td>
<td>1.58</td>
<td>&lt;0.001</td>
<td>1.58</td>
</tr>
<tr>
<td>25+</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>History of an HIV test in the past year</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>1.65</td>
<td>&lt;0.001</td>
<td>1.50</td>
</tr>
<tr>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clinic service level</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specialist/Level 3</td>
<td>0.18</td>
<td>&lt;0.001</td>
<td>0.18</td>
</tr>
<tr>
<td>Non-Specialist/Level 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient region of residence</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>London</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Midlands and East of England</td>
<td>0.92</td>
<td>&lt;0.001</td>
<td>0.97</td>
</tr>
<tr>
<td>North of England</td>
<td>1.00</td>
<td>0.605</td>
<td>1.04</td>
</tr>
<tr>
<td>South of England</td>
<td>0.73</td>
<td>&lt;0.001</td>
<td>0.76</td>
</tr>
<tr>
<td>Other UK</td>
<td>0.99</td>
<td>0.777</td>
<td>1.05</td>
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<tr>
<td>Not UK</td>
<td>1.99</td>
<td>0.001</td>
<td>2.19</td>
</tr>
</tbody>
</table>
Unadjusted odds ratio for the offer of an HIV test stratified by sexual orientation

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Het Men
MSM
All Women

Unadjusted - Odds

0.6  0.8  1.0  1.2  1.4  1.6  1.8
Unadjusted and Adjusted odds ratio for the offer of an HIV test stratified by sexual orientation

- **Het Men**
  - Unadjusted - Odds: OR 1.30, P-value <0.001
  - Adjusted - Odds: OR 0.97, P-value = 0.009

- **MSM**
  - Unadjusted - Odds: OR 0.87, P-value <0.001

- **All Women**
  - Unadjusted - Odds: OR 0.87, P-value <0.001
  - Adjusted - Odds: OR 0.87, P-value <0.001

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Limitations

• Possible overestimation of attendance episodes with STI-related needs, e.g.
  • Contraceptive patients receiving STI screening tests
  • Patients receiving vaccinations
  • Patients returning for follow-up STI treatment

Discussion

• There were 213,003 STI-need attendance episodes in 2018 with an missed opportunity of testing, of which over 60% were in women.

• Most clinics met the standard in 2018 for testing at least 85% of STI-need attendance episodes by MSM.

• Only small proportion of clinics met the standards for Heterosexual men, Heterosexual women and WSW.

• After adjustment for confounders, women in particular are less likely to be offered an HIV test.

• Clinics should review their testing practice for all attendees particularly women.
Acknowledgements

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Any Questions?