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Order online

Kit delivered to postal address

Provide self-sample

Post back to lab for processing

Reactive result?

YES

Phone call from service

Referral into HIV care

NO

SMS from service

HPE/THT service

Dried blood spot

4th generation test

Dean St at Home service

Oral fluid (swab) or Blood (400 μl)

3rd or 4th generation test
Study aim and methods

To evaluate the effectiveness of two National self-sampling services for HIV testing in comparison to HIV testing in GUM clinical services

Online orders made over 5 months (01-Nov-2013 to 31-Mar-2014) through two National services were analysed to determine:

• number of kits distributed, proportion returned and reactive
• age
• sexual orientation
• ethnicity
• geography of residence

This information was compared to clinic attendees receiving an HIV test in GUM clinical services, nationwide throughout 2013
Results orders, returns and reactive tests

<table>
<thead>
<tr>
<th>Service</th>
<th>Population</th>
<th>Sample type</th>
<th>Kits distributed (%)</th>
<th>Return rate (n)</th>
<th>Reactivity rate (n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Both Services</td>
<td>All</td>
<td>Either blood or oral fluid</td>
<td>12,485</td>
<td>52.8% (6,593)</td>
<td>1.4% (92)</td>
</tr>
<tr>
<td>HPE/THT</td>
<td>All</td>
<td>Dried blood spot</td>
<td>7,833</td>
<td>55.0% (4,309)</td>
<td>1.4% (56)</td>
</tr>
<tr>
<td>MSM</td>
<td></td>
<td></td>
<td>7,000 (89.4)</td>
<td>57.0% (3,988)</td>
<td>1.2% (45)</td>
</tr>
<tr>
<td>BA het</td>
<td></td>
<td></td>
<td>571 (7.3)</td>
<td>47.3% (270)</td>
<td>3.5% (9)</td>
</tr>
<tr>
<td>Dean Street at Home</td>
<td>All</td>
<td>Either blood or oral fluid*</td>
<td>4,652</td>
<td>49.1% (2,284)</td>
<td>1.6% (36)</td>
</tr>
<tr>
<td>Men</td>
<td></td>
<td></td>
<td>3,967 (85.3)</td>
<td>51.3% (2,036)</td>
<td>1.7% (34)</td>
</tr>
</tbody>
</table>

*The return rate was the same for both blood and oral fluid sample collection kits (49%)
Results

- Return rate of self-sampling kits increased with increasing age

![Graph showing return rate by age group](image-url)
Results  

geography of residence

Resident in London:

- 50% of GUM clinic users testing for HIV, 39% of Dean St at Home clients and 18% of HPE/THT service users

Self-sampling users were more evenly distributed nationwide

GUM 2013  
n=1,145,652

Dean St at Home  
n=4,652

HPE/THT  
n=7,833
Conclusion

The two self-sampling services successfully:

- **recruited** MSM and black African heterosexuals specifically; with distinct geographic distribution of clients compared to GUM services
- **diagnosed** MSM in a comparable proportion, and black African heterosexuals in a higher proportion than GUM services

A novel, effective, potentially cost-saving method of expanding HIV testing to individuals at high-risk of infection, who otherwise may not test in existing clinic-based settings

**Self-sampling facilitates the required expansion of HIV testing necessary for HIV prevention in England**
Acknowledgements

Service users

PHE HIV STI Department

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Dean Street at Home

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