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Assessing willingness to test for HIV among men who have sex with men using conjoint analysis, evidence for uptake of the FDA-approved at-home HIV test

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Men who have sex with men (MSM) in the USA, represent a vulnerable population with lower rates of HIV testing. There are various specific attributes of HIV testing that may impact willingness to test (WTT) for HIV. Identifying specific attributes influencing patients’ decisions around WTT for HIV is critical to ensure improved HIV testing uptake. This study examined WTT for HIV by using conjoint analysis, an innovative method for systematically estimating consumer preferences across discrete attributes. WTT for HIV was assessed across eight hypothetical HIV testing scenarios varying across seven dichotomous attributes: location (home vs. clinic), price (free vs. $50), sample collection (finger prick vs. blood), timeliness of results (immediate vs. 1–2 weeks), privacy (anonymous vs. confidential), results given (by phone vs. in-person), and type of counseling (brochure vs. in-person). Seventy-five MSM were recruited from a community-based organization providing HIV testing services in Los Angeles to participate in conjoint analysis. WTT for HIV score was based on a 100-point scale. Scores ranged from 32.2 to 80.3 for eight hypothetical HIV testing scenarios. Price of HIV testing (free vs. $50) had the highest impact on WTT (impact score = 31.4, SD = 29.2, p < 0.0001), followed by timeliness of results (immediate vs. 1–2 weeks) (impact score = 13.9, SD = 19.9, p ≤ 0.0001) and testing location (home vs. clinic) (impact score = 10.3, SD = 22.8, p = 0.0002). Impacts of other HIV testing attributes were not significant. Conjoint analysis method enabled direct assessment of HIV testing preferences and identified specific attributes that significantly impact WTT for HIV among MSM. This method provided empirical evidence to support the potential uptake of the newly FDA-approved over-the-counter HIV home test kit with immediate results, with cautionary note on the cost of the kit.

Keywords: HIV home test; MSM; testing preferences

Introduction

HIV continues to exact a tremendous toll on men who have sex with men (MSM) in the USA. Surveillance reports from the Center for Disease Control and Prevention (CDC) indicate that MSM continue to comprise the largest number of new HIV infections. In 2009, MSM accounted for 61% of new HIV infections in the USA and 79% of infections among all newly infected men. Compared with other groups, MSM accounted for the largest numbers of new HIV infections in 2009 (CDC, 2012).

HIV testing remains core to the clinical management of HIV infection (CDC, 2011); however, it now plays an important role in HIV prevention, reflected in recent constructs such as “treatment as prevention” (Cohen & Gay, 2010) and other biomedical approaches to HIV prevention (Cohen, Shaw, McMichael, & Haynes, 2011; Grant et al., 2010). For MSM, the individual benefits of routine HIV testing and early entry into treatment have been well documented (Antiretroviral Therapy Cohort Collaboration, 2008; CDC, 2006; Marks, Crepaz, & Janssen, 2006; Walensky, Freedberg, Weinstein, & Paltiel 2007). Increasing HIV testing among MSM remains central to reduce undiagnosed HIV infections and prevent new infections and decrease HIV-related morbidity (Chou, Huffman, Fu, Smits, & Korthuis, 2005; Frieden, Das-Douglas, Kellerman, & Henning, 2005). MSM who are unaware of their HIV infection may unknowingly continue to expose sex partners to HIV. In 2008, the CDC estimated that 44% of MSM were unaware of their HIV infection (CDC, 2012). CDC guidelines currently recommend HIV testing for sexually active MSM every three to six months as a means of preventing new infections (CDC, 2012). Unfortunately, data from the National HIV Behavioral Surveillance System indicate that only a small proportion of MSM adhere to the CDC recommended testing guidelines (CDC, 2011). Because persons often reduce their risk behaviors when they receive a diagnosis of HIV infection, and persons who do not know they are infected are estimated to

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account for more than half of sexually transmitted HIV infections (Marks et al., 2006), increasing the awareness of HIV infection through expanded testing and moving newly diagnosed MSM into care, will help reduce new HIV transmissions (CDC, 2011).

Prior research on HIV testing among MSM suggests that many reasons exist for the reduced willingness of MSM to get tested for HIV (Sharma, Sullivan, & Khosropur, 2011). The barriers to HIV testing among MSM may include: the fear of being diagnosed with HIV, denial of risk factors, clinic-related barriers, negative attitudes toward sex with HIV-positive men, and HIV related stigma, and the type of HIV testing being offered (Flowers, Knussen, Li, & McDaid, 2012; Greensides, Berkelman, Lansky, & Sullivan, 2003; Kellerman et al., 2002).

Identifying the specific attributes of the HIV test process that may influence willingness to test (WTT) for HIV among MSM is critical to ensuring the expanded uptake of HIV screening among this highly impacted population. Very specific attributes of the HIV testing procedure may impact WTT for HIV. For example, clinic-based testing may compromise one's privacy and contribute to HIV stigma (i.e., perceived as HIV-positive or engaging in behaviors that result in HIV acquisition); however, the results may be more immediate. Up until recently, current home-based testing would protect one’s privacy and prevent feelings of stigma; however, the results would not be available immediately (1–2 weeks). Different HIV testing scenarios have different attributes that individuals may value when deciding whether or not to test for HIV.

This study utilized an innovative methodology, conjoint analysis, to assess WTT for HIV among MSM. Conjoint analysis, which has been used extensively in market research (Marshall & Bradlow, 2002) and has recently begun to be applied in health research (e.g., preferences for HIV testing, HIV vaccine acceptability) (Lee, Newman, Comulada, Cunningham, & Duan, 2012; Phillips, Maddala, & Johnson, 2002), is a decompositional approach to assessing consumer preferences (Green, & Srinivasan, 1978). Conjoint analysis calculates the relative importance of different product attributes (1) indirectly, by asking respondents to make choices about products, which is closer to the decisions they actually make in the real world; (2) in the context of specified ranges; and (3) by deciding on trade-offs (e.g., How likely would you be willing to test for HIV if the test is given at home, the cost is free, sample is collected by blood, results available in 1–2 weeks, results will be confidential, results given by phone, and counseling available in person?).

In our application of conjoint analysis with HIV testing scenarios as the target products, we describe a given HIV testing scenario as a bundle of seven dichotomous attributes. If asked about each attribute separately, individuals might state that all the HIV testing attributes are important. For example, a series of questions on each dichotomous testing attribute might result in individuals choosing the optimal level of each HIV testing attribute (e.g., tested at home, free, immediate results, etc.). Conjoint analysis enables us to determine the relative value individuals place on each of the attributes that make up the HIV testing scenario. Beyond yielding practical information about the relative importance of various HIV testing attributes in individual decisions about getting tested for HIV, conjoint analysis enables us to determine which HIV testing profiles (i.e., combination of HIV testing attributes) may maximize MSM’s WTT for HIV. Through integrating data on the impact of the various testing attributes, one can derive the WTT score of each HIV testing scenario as rated by participants.

The Food and Drug Administration recently approved the OraQuick In-Home HIV Test (FDA, 2012), designed to allow consumers to collect an oral fluid sample by swabbing the upper and lower gums of the inside of their mouths, then place that sample into a developer vial, and obtain test results within 20 to 40 minutes (FDA, 2012). The goals of this study were to examine different attributes of HIV testing scenarios occurring in a gay-focused testing facility and identify specific attributes that have the highest impact in influencing WWT for HIV among MSM. In light of the recently FDA-approved at-home HIV test (FDA, 2012), the findings from this study could provide empirical evidence to support uptake of a home test among MSM.

Methods

Participants

From June 2011 to September 2011, 75 MSM aged 18 and over seeking HIV testing were recruited from the LA Gay & Lesbian Center (LAGLC) to participate in a one-time conjoint analysis exercise to gather information about their HIV testing preferences. Eligibility criteria included: at least 18 years of age, not an employee at the agency where the recruitment was taking place, and ability to read and understand English. Each participant was reimbursed US $20 upon completion of the conjoint analysis activity. Given the anonymous nature of the study, only their ethnicity and age range were collected. All the sessions were conducted by a trained facilitator in a
private office at LAGLC. The study was approved by the Institutional Review Board of the University of California, Los Angeles.

Assigning HIV testing attributes

Each hypothetical HIV testing scenario (conjoint) is a specific combination of seven dichotomous attributes. These attributes and values were determined based on existing research and data on current HIV testing methods (Greensides et al., 2003; Osmond et al., 2000; Phillips et al., 2002). The attribute profile for the eight HIV testing scenarios was generated using an 8-run Plackett–Burman design (Plackett & Burman, 1946), a fractional factorial design that allows efficient estimation for the main effects of the seven dichotomous attributes. Each row in Table 1 is an HIV testing scenario (numbered 1–8); each column is a testing attribute (e.g., location, price, and sample collection).

Conjoint scenario administration

Each participant was presented with eight different HIV testing scenarios described on laminated cards (see Table 1). Detailed instructions were given by the facilitator, and respondents were asked to compare the eight HIV testing scenarios and rate the HIV testing scenarios in terms of their WTT for HIV, recorded in five categories: "Highly likely," "Somewhat likely," "Neutral," "Somewhat unlikely," and "Highly unlikely." The facilitator individually recorded each respondent’s ratings for each of the eight testing scenarios. The conjoint administration lasted about 20–30 minutes for each participant.

Data analysis

The WWT for HIV is derived by averaging individual WTT for HIV scores across respondents. For example, the WTT for HIV for testing scenario 1 is the average of 75 respondents’ individual ratings of that testing scenario. Impact scores for each attribute on WWT for HIV, defined as amount determined by respondents regarding value that is associated with the HIV testing attributes at different levels, are estimated in two steps. In step 1, for each respondent, a multiple regression model is fit to their WTT for HIV scores $Y_i$ for the eight hypothetical HIV testing scenarios, $i = 1, \ldots, 8$, the seven HIV testing attributes $A_p, p = 1, \ldots, 7$, serve as independent variables in the model, categorized as preferred (1) or not preferred (0). The mathematical representation of the model is:

$$Y_i = \beta_0 + \sum \beta_p A_p + \epsilon_i,$$

where $\beta_0$ is a summation over the seven regression coefficients $\beta_p$ and attributes and $\epsilon_i$ is a residual error term. The regression coefficient for each HIV testing attribute (e.g., location) in the model is the impact score of the attribute on WTT for HIV for the individual respondent. Since all the independent variables are dichotomous, the mathematical representation of the impact score for each attribute simplifies to the net difference in mean WTT for HIV between the four hypothetical HIV testing scenarios with the preferred value and the four hypothetical HIV testing scenarios with the non-preferred value. For example, the impact of location is determined by taking the difference between the mean WTT for HIV of the four HIV testing scenarios with “home” as location and the mean WTT for HIV of the four HIV testing scenarios with “clinic” as the location. In step 2, we average the individual impact scores across respondents for each attribute; the average of these individual impact scores is the impact of that attribute (e.g., location) on overall WTT for HIV score. We use a one-sample t-test to determine the statistical significance of the impact of each attribute.

Table 1. Experimental design for conjoint analysis to assess WTT for HIV among API MSM in Los Angeles.

<table>
<thead>
<tr>
<th>HIV testing scenarios</th>
<th>Location</th>
<th>Price</th>
<th>Sample collection</th>
<th>Timeliness of results</th>
<th>Privacy</th>
<th>Results given</th>
<th>Counseling</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Clinic</td>
<td>Free</td>
<td>Blood</td>
<td>1–2 weeks</td>
<td>Confidential</td>
<td>By phone</td>
<td>Brochure with option to call</td>
</tr>
<tr>
<td>2</td>
<td>Home</td>
<td>Free</td>
<td>Blood</td>
<td>Immediate</td>
<td>Anonymous</td>
<td>By phone</td>
<td>Talk to a counselor</td>
</tr>
<tr>
<td>3</td>
<td>Clinic</td>
<td>$50</td>
<td>Blood</td>
<td>Immediate</td>
<td>Confidential</td>
<td>In person</td>
<td>Talk to a counselor</td>
</tr>
<tr>
<td>4</td>
<td>Home</td>
<td>$50</td>
<td>Blood</td>
<td>1–2 weeks</td>
<td>Anonymous</td>
<td>In person</td>
<td>Brochure with option to call</td>
</tr>
<tr>
<td>5</td>
<td>Clinic</td>
<td>Free</td>
<td>Prick finger</td>
<td>1–2 weeks</td>
<td>Anonymous</td>
<td>In person</td>
<td>Talk to a counselor</td>
</tr>
<tr>
<td>6</td>
<td>Home</td>
<td>Free</td>
<td>Prick finger</td>
<td>Immediate</td>
<td>Confidential</td>
<td>In person</td>
<td>Brochure with option to call</td>
</tr>
<tr>
<td>7</td>
<td>Clinic</td>
<td>$50</td>
<td>Prick finger</td>
<td>Immediate</td>
<td>Anonymous</td>
<td>By phone</td>
<td>Brochure with option to call</td>
</tr>
<tr>
<td>8</td>
<td>Home</td>
<td>$50</td>
<td>Prick finger</td>
<td>1–2 weeks</td>
<td>Confidential</td>
<td>By phone</td>
<td>Talk to a counselor</td>
</tr>
</tbody>
</table>
Results

Based on the demographics collected at the time of the conjoint administration, the ethnicity composition of our participants was as follows: 28 Caucasian (47.3%); 28 Latino (37.4%); 14 Asian (18.6%); and 5 African American (6.7%). The participants’ reported age range breakdown was as follows: 12 between 18–25 years (16%); 50 between 26–35 years (66.7%); and 13 greater than 35 (17.3%).

Table 2 summarizes the WTT for HIV score among 75 MSM in the study. On a 100-point scale, we found a broad range of WTT scores across the eight hypothetical HIV testing scenarios, ranging from 32.22 (SD = 34.8) to 80.3 (SD = 26.4), with the higher score indicating preferred testing scenarios. The HIV testing scenarios with the highest WTT score had the following attribute profile: test given at home, free, blood collection, results available immediately, anonymous, results can be given by phone, and counseling given in-person by a counselor. The HIV testing scenario with the lowest WTT score had the following attribute profile: test given at home, costs $50, blood collection, result available in 1–2 weeks, anonymous, results given in person, and counseling information on a brochure with an option to call.

Table 3 summarizes the impact of HIV testing attributes on WTT score. Out of the seven HIV testing attributes, only three attributes had a statistically significant impact on influencing MSM’s decision to get tested for HIV. Price had the biggest impact (impact score = 31.4, SD = 29.2, \( p < .0001 \)), followed by timeliness of results (impact score = 13.9, SD = 19.9, \( p \leq 0.0001 \)) and location (impact score = 10.3, SD = 22.8, \( p = .0002 \)). Impacts scores of other four attributes on WTT score were not statistically significant.

Discussion

Identifying attributes that may facilitate or impede uptake of HIV testing among MSM is critical for public health departments and community agencies seeking to expand testing efforts among an MSM population. We identified three factors that may impact WTT for HIV among MSM: price, timeliness of results and location. Based on our findings, a free HIV test administered at home with immediate results is the ideal candidate for increasing HIV testing among MSM, and suggests that potential uptake of the recently FDA-approved HIV home test.

A preference for immediate results from an HIV test, based on our conjoint analysis, is in line with the previous research examining HIV testing preferences of MSM. A recent study by Carballo-Dieguez and colleagues identified a willingness of MSM to use an over-the-counter rapid HIV test at home to test themselves and sex partners (Carballo-Dieguez, Frasca, Dolezal, & Balan, 2012). In addition, MacKellar and colleagues found a greater likelihood to use an over-the-counter rapid HIV testing among MSM that had never been previously tested (Mackellar et al., 2011). The immediacy of a rapid testing procedure reduces the likelihood of people not getting their results, particularly individuals who are HIV-positive.

The location where HIV testing occurs may diminish both WTT and frequency of testing among MSM. We identified a preference for home-based testing over a clinic setting. This preference was also observed in other MSM populations. For example, in Australia, MSM preferred home-based testing because it provided greater confidentiality, discretion, and privacy as compared to testing in a clinic setting (Chen et al., 2010). For MSM in the USA home-based testing may offer similar benefits, in addition to addressing other barriers such as geographic accessibility (i.e., distance to testing site). Leibowitz and

Table 2. Willingness to treat (WTT) for HIV scores among MSM in Los Angeles (n = 75).

<table>
<thead>
<tr>
<th>Attributes</th>
<th>Mean WTT score (SD)</th>
<th>Location</th>
<th>Price</th>
<th>Sample collection</th>
<th>Timeliness of results</th>
<th>Privacy</th>
<th>Results given</th>
<th>Counseling</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>80.33 (26.4)</td>
<td>Home</td>
<td>Free</td>
<td>Blood</td>
<td>Immediate</td>
<td>Anonymous</td>
<td>By phone</td>
<td>Talk to a counselor</td>
<td></td>
</tr>
<tr>
<td>79.33 (22.7)</td>
<td>Home</td>
<td>Free</td>
<td>Prick finger</td>
<td>Immediate</td>
<td>Confidential</td>
<td>By phone</td>
<td>Brochure with option to call</td>
<td></td>
</tr>
<tr>
<td>59.67 (33.6)</td>
<td>Clinic</td>
<td>Free</td>
<td>Blood</td>
<td>1–2 weeks</td>
<td>Confidential</td>
<td>By phone</td>
<td>Brochure with option to call</td>
<td></td>
</tr>
<tr>
<td>51.67 (35.7)</td>
<td>Clinic</td>
<td>Free</td>
<td>Prick finger</td>
<td>1–2 weeks</td>
<td>Anonymous</td>
<td>In person</td>
<td>Talk to a counselor</td>
<td></td>
</tr>
<tr>
<td>38.67 (31.9)</td>
<td>Clinic</td>
<td>$50</td>
<td>Blood</td>
<td>Immediate</td>
<td>Confidential</td>
<td>In person</td>
<td>Talk to a counselor</td>
<td></td>
</tr>
<tr>
<td>37.67 (32.5)</td>
<td>Clinic</td>
<td>$50</td>
<td>Prick finger</td>
<td>Immediate</td>
<td>Anonymous</td>
<td>By phone</td>
<td>Brochure with option to call</td>
<td></td>
</tr>
<tr>
<td>36.67 (36.1)</td>
<td>Home</td>
<td>$50</td>
<td>Prick finger</td>
<td>1–2 weeks</td>
<td>Confidential</td>
<td>By phone</td>
<td>Talk to a counselor</td>
<td></td>
</tr>
<tr>
<td>32.33 (34.8)</td>
<td>Home</td>
<td>$50</td>
<td>Blood</td>
<td>1–2 weeks</td>
<td>Anonymous</td>
<td>In person</td>
<td>Brochure with option to call</td>
<td></td>
</tr>
</tbody>
</table>

Note: SD, Standard deviation.
Using one-sample preferred value of each attribute. willingness test for HIV. A free consumer-controlled
preferred value of each attribute.

New HIV infections in local jurisdictions. Our findings indicate that cost is an important issue in deciding whether they'll get tested for HIV. It remains to be seen how much uptake the home test kit will have if the kit is perceived to be too expensive. Free HIV testing offered at publicly funded test sites has been a mainstay of public health efforts to identify and track new HIV infections in local jurisdictions. Our findings indicate that cost is an attribute impacting willingness test for HIV. A free consumer-controlled

Table 3. Impact of testing attributes on WTT for HIV among MSM in Los Angeles (n = 75).

<table>
<thead>
<tr>
<th>HIV testing attributes</th>
<th>Preferred value mean WTT(^a)</th>
<th>Non-preferred value mean WTT(^b)</th>
<th>Impact on WTT Mean (SD)(^c)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>67.75</td>
<td>36.33</td>
<td>31.42 (29.2)*</td>
</tr>
<tr>
<td>Timeliness of results</td>
<td>59.00</td>
<td>45.08</td>
<td>13.91 (19.9)*</td>
</tr>
<tr>
<td>Location</td>
<td>57.17</td>
<td>46.92</td>
<td>10.25 (22.8)*</td>
</tr>
<tr>
<td>Results given</td>
<td>53.58</td>
<td>50.50</td>
<td>3.08 (20.2)</td>
</tr>
<tr>
<td>Counseling</td>
<td>52.25</td>
<td>51.83</td>
<td>0.42 (18.0)</td>
</tr>
<tr>
<td>Sample collection</td>
<td>51.33</td>
<td>52.75</td>
<td>–1.42 (22.2)</td>
</tr>
<tr>
<td>Privacy</td>
<td>50.50</td>
<td>53.58</td>
<td>–3.08 (18.3)</td>
</tr>
</tbody>
</table>

Notes: \(^a\)Mean WTT score for the 4 testing scenarios with the preferred value of each attribute. \(^b\)Mean WTT score for the 4 testing scenarios with the non-preferred value of each attribute. \(^c\)Impact on WTT = difference in mean WTT score between 4 hypothetical testing scenarios with preferred value and the 4 hypothetical testing scenarios with non-preferred value. SD: Standard deviation.

As in other studies, several limitations must be noted when interpreting the results of this study. First, the small sample size of our study limits the generalizability of the findings to other MSM populations. In addition, given the fact that our participants were recruited from an agency providing HIV testing, our sample might be biased in favor of those more willing to get tested for HIV. However, given that our main objective was to examine participants’ preferences toward specific attributes that make up HIV testing scenarios, our sample recruited from a testing site may be acceptable. Second, omission of the oral swab as a means of sample collection in the hypothetical HIV testing scenarios limits our assessment of participants’ preferences toward oral swabs. At the time of the study, the agency had stopped using oral swab for HIV screening due to some incidents of false positives. Despite this limitation, the findings of our study pointing to participants’ preference toward being tested at home with more immediate test results, suggest that they would have preferred oral swab, compared to blood draw, if given that choice. Third, the lack of Spanish-speaking MSM in this study limits our generalizability to Spanish-speaking MSM. However, as a pilot study, it was not feasible to expand our study population beyond English-speaking MSM. Future studies should consider these limitations. Our study findings also underscore the need for future work to further examine the combination of other HIV testing attributes. For example, it would be worth examining factors like testing partners, using the test “on the go,” and the acceptable price range they are willing to pay.

Expanding new HIV testing methods that are more acceptable to MSM may lead to a decrease in delayed HIV diagnosis and quicker access to care and treatment which is associated with improved health outcomes and decrease in HIV transmission. It is imperative that HIV testing technologies are designed to support and facilitate frequent testing among MSM at risk for HIV infection. Past studies have suggested that it may be acceptable to include home HIV testing as part of HIV prevention interventions for MSM (Sharma et al., 2011), and the OraQuick
In-Home HIV Test may potentially serve as an important tool.

However, there are also some cautionary notes to consider. First, as suggested by our study finding, the cost of the kit may play a significant role in the uptake of the test. If it is not priced appropriately, the kit may not reach the actual population that needs it the most. In addition, the assumption that the home test kit could provide quicker positive test result in the privacy of one’s home and will lead to more timely linkage to care and treatment should be examined carefully. For instance, in lieu of an in-person counselor, Orasure Technologies, which makes the OraQuick test, has set up a toll-free 24/7 customer support center with bilingual reps (English-Spanish). Although they go through proper training to answer questions about HIV/AIDS, they are not certified counselors. Therefore, the option of talking to a counselor as part of the OraQuick kit may not be someone who can actually help link the individual into care and treatment. Third, another potential stumbling block is the “window period,” or the time it takes (usually 12 weeks) for the body to develop antibodies that the test detects after exposure to HIV. This could give some people a “false sense of safety” that they are HIV-negative when they are in fact HIV-positive.

Despite these cautionary factors to consider, our findings support the potential uptake of the recently FDA-approved HIV home test kit. The approval of the new at-home test kit may serve as an important tool to improve HIV testing among MSM.

Acknowledgements

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