Mental Health Correlates of Perceived Discrimination Among Lesbian, Gay, and Bisexual Adults in the United States

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Quite recently, inclusion in general population–based surveys of both screening and diagnostic assessments for common mental health disorders and direct or proxy measures of sexual orientation has led to findings of somewhat elevated prevalence of psychiatric morbidity in lesbian, gay, and bisexual respondents as compared with their heterosexual counterparts. For example, several studies have documented greater risk for suicide attempts among adolescents and young adults who report same-sex sexual partners or a minority sexual orientation. Evidence also indicates a greater risk for specific psychiatric disorders, although perhaps differentially for men and women. In the 1996 National Household Survey on Drug Abuse, men with 1-year histories of sex with other men were more likely than exclusively heterosexual women to meet criteria for major depression and panic attacks. In contrast, women in the same survey with similar same-sex sexual histories were more likely than exclusively heterosexual women to meet criteria for drug and alcohol dependence.

Although the reasons for this elevated risk are unknown, anxiety, mood, and substance abuse disorders are thought to be sensitive to the effects of social factors. A growing body of research on social inequality and mental health outcomes premises that certain social statuses, such as race/ethnicity, sex, and socioeconomic status, influence likelihood of exposure to deleterious experiences that may affect acquisition of social and personal resources, such as mastery, self-esteem, and social support. In particular, experiences with discrimination and stigmatization have been shown to lead to greater vulnerability to depressive distress and anxiety and perhaps to higher rates of some psychiatric disorders.

For lesbians and gay men, in particular, some studies have shown that they may be exposed to higher levels of unpredictable, episodic, and day-to-day social stress than are others because of the stigmatization of homosexuality in American culture. Furthermore, evidence indicates that these experiences, when they do occur, are associated with affective distress. But, to date, most of this work has relied on convenience-based samples, often without heterosexual control groups, resulting in some ambiguity about whether lesbians and gay men do experience discrimination more frequently than do heterosexual women and men. In addition, it is unclear whether the greater risk for discriminatory experiences, if it does exist, can account for the observed excess of psychiatric morbidity seen among lesbians and gay men.

In this study, we examined the prevalence of discriminatory experiences and their association with indicators of psychiatric morbidity among individuals of differing sexual orientations in the MacArthur Foundation National Survey of Midlife Development in the United States (MIDUS), a population-based survey of Americans conducted in 1995. In doing so, we minimized problems with sampling bias and absent heterosexual control groups that tend to permeate convenience-based surveys of lesbians and gay men, in which the respondents are commonly recruited either through their participation in lesbian- or gay-identified activities or through social networks accessible to researchers.

METHODS

Sample and Procedures
The MIDUS drew respondents, aged 25 to 74 years, from the noninstitutionalized English-speaking US population via a random-digit-dialed telephone sampling frame of the contiguous United States. One randomly selected eligible individual from each household was interviewed over the telephone and then mailed a questionnaire to self-administer and return. Oversampling of both men and older respondents increased representation of those individuals more difficult to reach.

A telephone interview was successfully completed in 70% of the households containing an eligible respondent (N=3485). Of those interviewed, 87% (n=3032) returned a completed questionnaire, resulting in an overall estimated response rate of 60.8%. A
single item in the questionnaire ascertained sexual orientation: “How would you describe your sexual orientation? Would you say you are heterosexual (sexually attracted only to the opposite sex), homosexual (sexually attracted only to your own sex), or bisexual (sexually attracted to both men and women)?” In the final sample, the majority labeled themselves heterosexual (n = 2,844) and a minority identified as homosexual (n = 41) or bisexual (n = 32). Those who did not answer this question (n = 115) were dropped from the present study. Although the basis for their nonresponse was indeterminable, analyses of nonresponse to questions assessing possible homosexuality in the General Social Survey found that nonresponse was associated with low general cooperativeness with the survey rather than attitudes toward homosexuality.39

**Study Measures**

**Perceived discrimination.** In the questionnaire, respondents’ experiences with discrimination were measured in 4 domains: (1) lifetime occurrences of discriminatory experiences, (2) frequency of day-to-day discrimination, (3) reasons for the discrimination, and (4) general effects of discrimination. For lifetime occurrences, 11 types of possible experiences were listed, and respondents were asked to indicate for each how many times they had been discriminated against “because of such things as your race, ethnicity, gender, age, religion, physical appearance, sexual orientation, or other characteristics.” These experiences included items related to school (discouraged from continuing education, denied a scholarship), work (not hired or promoted, fired), receiving financial and other services (denied a bank loan, prescribed, wrongfully acted afraid of the respondent or as if the respondent was dishonest, not smart, or not as good as they were. For each, respondents chose 1 of 4 descriptors (“never,” “rarely,” “sometimes,” “often”). Because we were interested in the prevalence of relatively common experiences with discrimination and because previous research has shown that men and women tend to vary in the extent to which they use the “sometimes” and “often” adjectives with this measure,13 we recoded the 9 items into 2 categories (“never” or “rarely” vs “sometimes” or “often”). Those who indicated any occurrence of discrimination were asked to select 1 or more of 10 possible causal reasons for the discrimination. These included age, sex, race, ethnicity or nationality, religion, height or weight, other physical appearance characteristics, physical disability, sexual orientation, or any other reason. We collapsed responses into 3 categories: due to sexual orientation alone, not due to sexual orientation, and due to a combination of sexual orientation and other reasons.

Finally, the perceived effects of discrimination were assessed by 2 questions measuring the extent to which discrimination had “interfered with having a full and productive life” and had made life “harder.” Respondents could choose 1 of 4 answers (“not at all,” “a little,” “some,” and “a lot”). We recoded responses to both questions into 2 categories: not at all vs any effect. Those who had not experienced discrimination did not answer the 2 questions and were coded as unaffected by discrimination.

**Mental health indicators.** The MIDUS measured 5 stress-sensitive psychiatric disorders. Three were assessed in the interview by the administration of modules from the Composite International Diagnostic Interview Short Form.10 These modules rendered diagnoses based on Diagnostic and Statistical Manual of Mental Disorders, Third Edition, Revised criteria41 for 1-year prevalence of major depression, generalized anxiety disorder, and panic disorder. The Composite International Diagnostic Interview Short Form, a structured diagnostic screening interview administered by trained interviewers, has been shown42-44 to provide reliable and valid diagnostic information when used in population-based surveys such as the MIDUS.

Two other disorders, alcohol and drug dependence, were assessed in the questionnaire by responses to the 6 questions asked separately for both alcohol and drugs. All respondents answered alcohol-related questions, but only those who indicated using any of 10 categories of illicit drugs or nonprescribed medications in the prior 12 months answered the drug-related questions. The 6 symptoms were assessed with a 12-month time frame and included (1) using substances in larger amounts or for longer periods than intended, (2) being under the influence of substances or recovering from use while engaged in social obligations, (3) experiencing emotional or physical problems from substance use, (4) having an irresistible urge to use, (5) spending a great deal of time using or getting over use, and (6) developing tolerance to substance effects. Positive diagnoses were made if the respondent reported 3 or more symptoms, consistent with modified Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition criteria.45 This diagnostic screening method has been shown elsewhere to have excellent reliability and validity for identifying individuals with substance use disorders in similar population-based surveys.46

We classified respondents into 2 groups: those who met criteria for any of the 5 disorders measured vs those who did not. Respondents also rated their current mental health with 1 of 5 descriptors. We recoded these responses into 2 categories (“poor or fair” vs “good, very good, or excellent”). Nonspecific current psychologic distress was assessed by 6 items in the questionnaire answered on a 5-point Likert-like scale ranging from “never” to “all of the time.” Respondents indicated the frequency in the past 30 days with which they had felt “so sad nothing could cheer you up,” “nervous,” “restless or fidgety,” “hopeless,” or “worthless” or that “everything was an effort.” Given that previous analyses of this measure in the MIDUS showed that the 6 items reflected a single major underlying dimension,33 we summed the individual items. Respondents scoring at the 83rd percentile or above (equivalent to 2 SDs if the scores were normally distributed) were classified as experiencing high current psychologic distress.
**Demographics.** Respondents also provided demographic information, including age, level of educational attainment, race/ethnicity, personal income, and marital or cohabitation status. The interview defined cohabitation for respondents as “living with someone in a steady, marriage-like relationship.” For analytic purposes, we combined married and cohabiting respondents. In addition, respondents indicated if they had received treatment for HIV or AIDS in the prior 12 months.

**Statistical Analysis**

The MIDUS data set, including trimmed weights that adjust for selection probability, nonresponse, and poststratification, is publicly available. Design and data collection methods for MIDUS, as well as the weighting methodologies, are described on the MIDUS Web page (http://midmac.med.harvard.edu.research.html). We used the weighted data set, combining those individuals who reported homosexual or bisexual sexual orientations in the interest of improving power to detect statistical differences.\textsuperscript{1,4,7,18} Logistic regression methods, employing the Taylor series linearization approach to estimating sampling variance,\textsuperscript{18} were used to estimate the associations of sexual orientation and mental health indicators with perceived discrimination. Several demographic factors were treated as possible confounders of the associations between sexual orientation, perceptions of discrimination, and mental health indicators. These factors were sex, age, race/ethnicity, educational attainment, personal income, and relationship status, all of which have been shown in previous work to be variously associated with the constructs of interest.\textsuperscript{1,3,4,47–55}

We report odds ratios (ORs) with 95% confidence intervals (CIs), adjusting for possible demographic confounding other than that due to sexual orientation. Because of the robust association between race/ethnicity and perceptions of discrimination,\textsuperscript{11} we repeated analyses with only non-Hispanic White respondents to more closely control for this possible source of confounding. The small number of racial/ethnic minority homosexual or bisexual respondents in the MIDUS precluded exploration of possible sexual orientation effects within the racial/ethnic minority subsample. In some instances, we also report results from unadjusted comparisons by a $\chi^2$ test between those of differing sexual orientation. All statistical significance was evaluated with .05-level 2-sided tests when appropriate. Both weighted point estimates and their SEs, in parentheses, are reported in the text.

**RESULTS**

**Demographic Characteristics and Mental Health Indicators**

Overall, 2.5% (SE = 0.3) of the sample reported a homosexual or bisexual sexual orientation, including 2.9% (SE = 0.5) of the men and 2.2% (SE = 0.5) of the women. Homosexual and bisexual respondents were significantly younger than heterosexual individuals ($\chi^2 = 13.94, P < .01$) and less likely to be married or cohabiting ($\chi^2 = 9.39, P < .01$) but did not differ significantly in their racial/ethnic backgrounds, level of education, or personal income (Table 1). Approximately 7.0% (SE = 4.0) of the homosexual and bisexual men reported being treated for HIV or AIDS in the year before interviews, but this did not differ significantly from the rate in heterosexual men (0.4%, SE = 0.2). No homosexual or bisexual women reported HIV or AIDS treatment.

Across measures, homosexual and bisexual individuals showed some elevation in psychiatric morbidity compared with heterosexual respondents, although differences in 2 instances fell short of statistical significance (see Table 1). Homosexual and bisexual respondents were significantly more likely than heterosexual respondents to have at least 1 of the 5 psychiatric disorders assessed in the

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**TABLE 1—Characteristics of the MIDUS Sample, by Sexual Orientation**

<table>
<thead>
<tr>
<th></th>
<th>Homosexual or Bisexual (Weighted n = 73)</th>
<th>Heterosexual (Weighted n = 2844)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>49.9 (6.7)</td>
<td>56.4 (1.0)</td>
</tr>
<tr>
<td>Age, y*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25–34</td>
<td>43.9 (6.8)</td>
<td>26.0 (1.0)</td>
</tr>
<tr>
<td>35–44</td>
<td>33.6 (6.5)</td>
<td>27.7 (1.0)</td>
</tr>
<tr>
<td>45–74</td>
<td>22.6 (4.7)</td>
<td>46.3 (1.0)</td>
</tr>
<tr>
<td>Non-Hispanic White</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Some high school</td>
<td>20.7 (5.8)</td>
<td>14.3 (0.8)</td>
</tr>
<tr>
<td>High school</td>
<td>25.9 (6.6)</td>
<td>36.5 (1.1)</td>
</tr>
<tr>
<td>Some college</td>
<td>28.7 (5.8)</td>
<td>25.7 (0.9)</td>
</tr>
<tr>
<td>College degree</td>
<td>24.7 (5.1)</td>
<td>23.5 (0.8)</td>
</tr>
<tr>
<td>Personal income, $</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0–18,999</td>
<td>42.5 (6.8)</td>
<td>52.0 (1.1)</td>
</tr>
<tr>
<td>19,000–34,999</td>
<td>39.3 (6.6)</td>
<td>25.5 (0.9)</td>
</tr>
<tr>
<td>$\geq$35,000</td>
<td>18.1 (4.6)</td>
<td>22.5 (0.8)</td>
</tr>
<tr>
<td>Married or cohabiting*</td>
<td>54.0 (6.6)</td>
<td>75.2 (0.9)</td>
</tr>
<tr>
<td>Treated for HIV or AIDS in past y</td>
<td>3.5 (2.0)</td>
<td>0.3 (0.1)</td>
</tr>
<tr>
<td>Mental health indicators</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any psychiatric disorder\textsuperscript{a} in past y*</td>
<td>41.8 (6.6)</td>
<td>21.2 (0.9)</td>
</tr>
<tr>
<td>Rates own mental health as “fair” or “poor”</td>
<td>17.3 (4.8)</td>
<td>9.6 (0.7)</td>
</tr>
<tr>
<td>High current psychologic distress\textsuperscript{b}</td>
<td>26.0 (5.6)</td>
<td>16.8 (0.8)</td>
</tr>
</tbody>
</table>

Note. Actual sample size is 32 lesbian or bisexual women, 41 gay or bisexual men, 1,462 heterosexual women, and 1,382 heterosexual men. Weighted estimates shown. MIDUS = MacArthur Foundation National Survey of Midlife Development in the United States.

\textsuperscript{a}Includes major depression, generalized anxiety disorder, panic disorder, alcohol dependence, and drug dependence.

\textsuperscript{b}Level of psychologic distress at 83rd percentile or above for the total sample.

\*P < .05.
MIDUS interview after adjustment for possible demographic confounding (adjusted OR = 2.18; 95% CI=1.24, 3.84, P=.007). Furthermore, the trend (P=.07) was toward a greater odds for them to report a “poor” or “fair” current state of mental health in comparison with heterosexual women and men (adjusted OR=1.90; 95% CI=0.96, 3.79). But no statistically significant difference was found between the 2 groups in the prevalence of high levels of current psychologic distress (adjusted OR=1.56; 95% CI=0.84, 2.86, P=.15).

Prevalence of Perceived Discrimination

After standardization to the age and racial/ethnic structure of the MIDUS sample, approximately 76% (SE=5.6) of the homosexual and bisexual individuals reported any personal experience of discrimination. In comparison, 65% (SE=1.0) of the heterosexual women and men indicated that they had experienced discrimination (adjusted OR=2.00; 95% CI=1.04, 3.83). Perceived reasons for the occurrence of this discrimination varied between the 2 groups. Among homosexual and bisexual respondents who had experienced discrimination, 25% (SE=5.5) reported that sexual orientation alone had been the basis for their being discriminated against. An additional 17% (SE=5.5) reported a mixture of sexual orientation and other status-based reasons, whereas 56% (SE=7.0) attributed their lifetime experiences with discrimination to causes other than sexual orientation. In contrast, 98% (SE=0.5) of the heterosexual women and men who experienced discrimination attributed it to causes other than sexual orientation. Overall, homosexual and bisexual respondents were significantly more likely than heterosexual respondents to report sexual orientation as a reason for discrimination, whether singly or in conjunction with other factors (adjusted OR=33.33; 95% CI=14.28, 100.00).

Reports of lifetime experiences with discrimination-based events also varied by sexual orientation. Overall, homosexual and bisexual women and men were significantly more likely than heterosexual respondents to report the occurrence of at least 1 of the 11 types of discriminatory experiences measured in the MIDUS (see Table 2). Although significantly more homosexual and bisexual respondents reported being fired unfairly from a job because of discrimination than did heterosexual respondents, the greater frequency of reporting any discriminatory event appeared to reflect the summary effect of small, non–statistically significant increases in risk across much of the spectrum assessed. Restricting comparisons to only White respondents did not appreciably change the findings. Homosexual and bisexual individuals were still more likely than heterosexual respondents to report at least 1 lifetime discriminatory event (adjusted OR=2.20; 95% CI=1.23, 3.94).

Day-to-day experiences with discrimination also varied by sexual orientation (see Table 3). Across a wide range of behaviors indicating discriminatory treatment, homosexual and bisexual women and men were significantly more likely than heterosexual respondents to report their relatively frequent occurrence. These differences between the 2 groups changed little when different cutpoints for classification of occurrence of discrimination were used (e.g., never vs any). Furthermore, restricting comparisons to only White respondents had no appreciable effect on study findings. White homosexual and bisexual respondents were still more likely than

| TABLE 2—Lifetime Experiences of Discrimination, by Sexual Orientation and Sex: Age- and Race/Ethnicity-Adjusted Prevalences and Partial Results of Multivariate Logistic Regression Analyses Examining Effects of Sexual Orientation |
|-----------------------------------------------|-----------------------------------------------|
| Type of Discrimination                       | Homosexual or Bisexual (%) (95% CI)                |
|                                              | Women (Weighted n = 37) | Men (Weighted n = 37) | Heterosexual (%) (Weighted n = 1604) | Men (Weighted n = 1239) | Sexual Orientation Effect* (95% CI) |
| Not hired for a job                          | 38.8 (9.0) | 22.5 (7.0) | 16.5 (1.1) | 18.5 (1.2) | 1.43 (0.73, 2.82) |
| Not given a job promotion                    | 33.7 (8.7) | 16.9 (7.2) | 14.1 (1.0) | 13.4 (1.1) | 1.54 (0.74, 3.19) |
| Fired from job                               | 17.2 (7.8) | 19.5 (6.8) | 5.5 (0.7) | 5.9 (0.8) | 4.30* (1.98, 9.36) |
| Discouraged by teacher from continuing education | 15.7 (6.7) | 3.8 (2.7) | 10.9 (0.9) | 6.6 (0.7) | 0.92 (0.40, 2.11) |
| Denied a scholarship                         | 5.8 (3.9) | 7.2 (3.2) | 3.2 (0.5) | 3.7 (0.6) | 2.62 (0.78, 8.77) |
| Prevented from renting or buying a home      | 0.0 (0.0) | 6.6 (4.0) | 3.8 (0.6) | 5.2 (0.7) | 0.68 (0.19, 2.34) |
| Denied a bank loan                           | 8.0 (4.8) | 0.0 (0.0) | 6.4 (0.7) | 8.9 (0.9) | 0.62 (0.13, 2.95) |
| Forced out from neighborhood by neighbors    | 0.0 (0.0) | 6.6 (3.6) | 2.2 (0.4) | 2.1 (0.4) | 1.88 (0.54, 6.47) |
| Denied or given inferior medical care        | 7.0 (5.5) | 3.1 (2.2) | 3.3 (0.5) | 3.7 (0.6) | 1.82 (0.45, 7.35) |
| Denied or given inferior services (e.g., by plumber, mechanic) | 14.4 (7.4) | 4.1 (2.9) | 12.6 (1.0) | 6.3 (0.8) | 0.72 (0.22, 2.32) |
| Harassed by the police                        | 4.7 (4.4) | 17.9 (5.3) | 3.1 (0.5) | 11.8 (1.0) | 2.01 (0.83, 4.86) |
| Any of the above                             | 58.0 (8.6) | 50.8 (8.7) | 36.2 (1.4) | 33.6 (1.4) | 1.82* (1.05, 3.16) |

*Odds ratios (ORs) and 95% confidence intervals (CIs) after adjustment for the effects of age, race/ethnicity, sex, educational attainment, income, and marital or cohabiting status.

**P < .05.
White heterosexual individuals to report at least 1 discriminatory behavior, occurring at least sometimes on a day-to-day basis (adjusted OR = 2.66; 95% CI = 1.52, 4.65).

Correlates of Perceived Discrimination

In general, many respondents in the MIDUS viewed discrimination as having had harmful effects on their lives, although homosexual and bisexual respondents reported this more frequently than did others. Specifically, homosexual and bisexual individuals (62.5%, SE = 9.2, of women; 41.0%, SE = 6.1, of men) were more likely than heterosexual respondents (23.1%, SE = 1.2, of women; 20.6%, SE = 1.1, of men) to report that discrimination had made life harder (adjusted OR = 5.50; 95% CI = 3.08, 9.81). Furthermore, homosexual and bisexual respondents (55.2%, SE = 9.4, of women; 34.3%, SE = 6.0, of men) were more likely than heterosexual individuals (20.5%, SE = 1.2, of women; 18.2%, SE = 1.1, of men) to indicate that discrimination had interfered with having a full and productive life (adjusted OR = 5.13; 95% CI = 2.91, 9.05). These differences remained even after comparisons were restricted to White respondents for reports of both making life harder (adjusted OR = 5.64; 95% CI = 3.17, 10.03) and interfering with life (adjusted OR = 4.92; 95% CI = 2.77, 8.73).

Without considering the possible influence of sexual orientation, we found that positive reports of both experiencing any lifetime discriminatory event and experiencing any day-to-day discriminatory behavior increased the odds that an individual would indicate that discrimination had interfered with his or her life (event occurrence: adjusted OR = 7.57; 95% CI = 5.82, 9.86; day-to-day discrimination: adjusted OR = 8.01; 95% CI = 6.23, 10.30) when effects were estimated separately. Both experiencing discriminatory events and experiencing day-to-day behaviors were also associated with perceptions that discrimination had made life harder (adjusted OR = 8.71; 95% CI = 6.78, 11.18; adjusted OR = 8.50; 95% CI = 6.67, 10.84, respectively). Restricting analyses to homosexual and bisexual women and men resulted in essentially identical findings, with reports of lifetime events or day-to-day discrimination increasing the odds of reporting that discrimination had interfered with life (event occurrence: adjusted OR = 6.98; 95% CI = 1.83, 26.65; day-to-day discrimination: OR = 16.43; 95% CI = 3.91, 69.04) or had made life harder (adjusted OR = 5.57; 95% CI = 1.52, 20.46; adjusted OR = 7.46; 95% CI = 1.69, 33.04, respectively).

Perceived discrimination also was positively associated with the 3 indices of mental health status. The odds of having any psychiatric disorder were significantly increased in individuals reporting any lifetime discriminatory event (adjusted OR = 1.60; 95% CI = 1.29, 1.99) or any day-to-day experiences with discrimination (adjusted OR = 2.13; 95% CI = 1.69, 2.68), after adjustment for possible demographic confounding other than that due to sexual orientation. Similarly, self-rated “fair” or “poor” current mental health was positively associated with reporting any lifetime discriminatory event (adjusted OR = 1.81; 95% CI = 1.34, 2.45) or any day-to-day experiences with discrimination (adjusted OR = 1.87; 95% CI = 1.34, 2.59), after adjustment for demographic confounding other than that due to sexual orientation. Finally, the odds of having high current psychologic distress were related to positive reports of experiencing any lifetime events (adjusted OR = 1.78; 95% CI = 1.40, 2.26) or any day-to-day behaviors (adjusted OR = 2.46; 95% CI = 1.91, 3.17). In all 3 instances, the relation between sexual orientation and each mental health indicator was attenuated by including the possible moderating effects of lifetime events and day-to-day behaviors in the logistic regression model. This included the presence of any psychiatric disorder (reduced from adjusted OR = 2.18 to adjusted OR = 1.83; 95% CI = 0.97, 3.42, P = .06), negative ratings of cur-

### TABLE 3—Perceived Day-to-Day Discrimination Experienced “Sometimes” or “Often,” by Sexual Orientation and Sex: Age- and Race/Ethnicity-Adjusted Prevalences and Partial Results of Multivariate Logistic Regression Analyses

<table>
<thead>
<tr>
<th>Discriminatory Behaviors</th>
<th>Homosexual or Bisexual</th>
<th>Heterosexual</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Women (Weighted n = 37)</td>
<td>Men (Weighted n = 37)</td>
</tr>
<tr>
<td></td>
<td>% (SE)</td>
<td>% (SE)</td>
</tr>
<tr>
<td>People act as if they think you are not as good as they are</td>
<td>38.1 (8.6)</td>
<td>23.3 (5.5)</td>
</tr>
<tr>
<td>People act as if they think you are not smart</td>
<td>24.7 (6.6)</td>
<td>5.5 (3.2)</td>
</tr>
<tr>
<td>Treated with less respect than other people</td>
<td>29.3 (8.3)</td>
<td>21.2 (6.7)</td>
</tr>
<tr>
<td>Treated with less courtesy than other people</td>
<td>27.8 (8.2)</td>
<td>30.1 (7.2)</td>
</tr>
<tr>
<td>People act as if they are afraid of you</td>
<td>22.2 (7.6)</td>
<td>23.2 (6.5)</td>
</tr>
<tr>
<td>Get poorer service than others do at restaurants or stores</td>
<td>27.0 (8.0)</td>
<td>4.7 (2.7)</td>
</tr>
<tr>
<td>People act as if they think you are dishonest</td>
<td>0.0 (0.0)</td>
<td>12.9 (5.7)</td>
</tr>
<tr>
<td>You are called names or insulted</td>
<td>20.1 (7.9)</td>
<td>16.1 (5.0)</td>
</tr>
<tr>
<td>You are threatened or harassed</td>
<td>15.3 (7.5)</td>
<td>10.7 (4.8)</td>
</tr>
<tr>
<td>Any of the above</td>
<td>42.1 (9.1)</td>
<td>44.0 (8.1)</td>
</tr>
</tbody>
</table>

*Odds ratios (ORs) and 95% confidence intervals (CIs) adjusted for age, race/ethnicity, sex, educational attainment, income, and marital or cohabiting status.

P < .05.
DISCUSSION

Although the experience of discrimination in America is relatively common, our findings and those of others clearly indicate that lesbian, gay, and bisexual persons are still more likely than heterosexual individuals to report experiencing discrimination across several domains, whether discrimination is measured in discrete lifetime events, such as being fired from a job, or in day-to-day interactions with others who treat them poorly. Indeed, more than three quarters of the lesbian, gay, and bisexual women and men reported having experienced discrimination, after adjustment for other known demographic correlates such as age, race/ethnicity, education, marital status, and income. Sexual orientation itself was commonly, but not invariably, perceived as the basis for this discrimination. As with other Americans, lesbian, gay, and bisexual individuals believed that discrimination has had negative consequences for their quality of life. Perhaps because of the greater burden of perceived discrimination, lesbian, gay, and bisexual persons were more likely than heterosexual women and men to report that discrimination had made life more difficult for them and that they had interfered with their leading a full and productive life.

Growing evidence suggests that the experience of discrimination can result in negative psychologic and physiologic changes, underscoring its possible role as a morbidity risk factor. Our findings are consistent with this view; we found a relatively robust association between experiences of discrimination and indicators of psychiatric morbidity. Is it possible that widespread and pernicious experiences with discrimination lie at the heart of the somewhat greater prevalence of psychiatric morbidity among lesbians and gay men found in recent studies? This possibility has long been suspected, but to date, there has been little direct empirical evidence for this view apart from surveys of individuals sampled with unknown selection probability from the visible lesbian and gay community. In this regard, results from the current population-based study show that controlling for differences in levels of discrimination experiences between lesbian, gay, and bisexual persons and heterosexual individuals greatly attenuates the association between sexual orientation and prevalence of stress-sensitive psychiatric disorders and other indicators of mental health difficulties. These findings support the perspective that discrimination has harmful mental health effects for sexual minorities.

The current study, understandably, was unable to answer some questions about the association between mental health, perceived discrimination, and the minority status of sexual orientation because of several study limitations. An important issue is the lack of power resulting from the very small numbers of sexual minorities identified in the survey, which limits precision of study estimates. Other factors, such as response bias, including the possible confounding of propensity to disclose sexual orientation with a lower threshold for disclosing both psychiatric symptoms and negative discrimination experiences, may have influenced our findings in unpredictable ways. For example, the lesbian, gay, and bisexual individuals in the study who did not disclose this status may differ in their experiences of discrimination from those who did. Finally, the cross-sectional nature of the MIDUS precludes drawing causal inferences. Psychiatric morbidity may, in fact, generate a tendency to perceive higher levels of discrimination or may disrupt social functioning, resulting in more negative experiences.

Nevertheless, our findings support the perspective that social stigma of homosexuality may have important mental health consequences. Further research identifying the mediating or moderating role of discrimination and stress in negative mental health outcomes is clearly needed. On the one hand, multiple social statuses, such as sex, age, race/ethnicity, education, and income, may influence additively or synergistically specific psychiatric vulnerabilities among sexual minorities in ways that are not yet understood. For example, increasing evidence indicates that adolescence and young adulthood are times of excessive risk for suicide attempts among lesbian, gay, and bisexual youths. On the other hand, recent population-based studies investigating the mental health status of adult gay men, lesbians, and bisexual persons typically find that most do not have any of the psychiatric disorders assessed in the protocols, despite presumably high rates of experiencing social discrimination, as documented here. The set of conditions that function protectively to generate resiliency in the face of this is not known. Gay men and lesbians may vary in their exposure to discrimination because of several factors, including voluntary disclosure or participation in gay and lesbian culture, or other reasons over which they have less personal control, such as stereotypically gay appearance or employment. The mechanisms by which exposure occurs may have implications for mental health consequences.

As with race/ethnicity, the discrimination and stigma accompanying sexual orientation are rooted in political, economic, and ideologic structures. Public health efforts to improve the mental health of lesbian, gay, and bisexual women and men may profit from consideration of both social and individual risk factors in attempts to understand the basis for an increasingly apparent excess risk for psychiatric morbidity in this population. Furthermore, to the extent that social factors, such as discrimination against gay individuals, function as important risk factors for psychiatric morbidity, interventions to either prevent or treat stress-sensitive disorders may need to be differently tailored to this population.
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References


American Public Health Association

Call for Proposals: 2002 Continuing Education Institutes

The planning process for the 2002 Continuing Education Institutes (CEI) is under way. CEIs are intensive educational activities held on the day(s) prior to the opening of APHA’s annual meeting. This notice marks the official Call for CEI Proposals for the 130th Annual Meeting, being held in Philadelphia, Pa, November 9–14, 2002.

The APHA Education Board and Educational Services Department staff are committed to providing a forum to disseminate important information and explore emerging issues related to, and that have an impact on, public health practice, research, and policy.

The theme of the 2002 meeting is Putting the Public Back in Public Health. APHA welcomes proposals that present either basic concepts in a special subject area or advanced material in a current or emerging public health issue or practice that may or may not relate directly to the meeting’s theme.

In its selection of CEIs, APHA attempts to strike a balance among offerings that appeal as broadly possible to membership and Annual Meeting registrants, topics that demand longer or more intensive learner contact than afforded by regular scientific sessions, and methodologies that enhance the learning experience.

Format for CEIs. A CEI may be a half-day, full-day, or 2-day activity. Various teaching methods, such as lecture format, dialogue, skill practice, and case study, may be utilized when they contribute directly to the attainment of learning objectives. APHA encourages methods that render the CEI as interactive for the learner as possible. Opportunity for informal exchange among participants and faculty is also highly encouraged.

Review of Proposals. All CEIs receive competitive review by a CEI Review Panel that evaluates proposals in light of the following 6 elements:

• Topic area—Relevance to current or emerging issues in public health or to the meeting’s theme
• Purpose/need—Defined target audience, assessment of target audience’s need for the information or education and the topic’s value to that audience
• Goal/objective—Clearly stated goals and learning objectives expressed in measurable terms
• Content—Abstract of event content that is aligned with goals and learning objectives
• Methodology—Educational format appropriate for topic and goal attainment, with emphasis placed on engaging learners.
• Expertise—Faculty or presenters who possess knowledge and expertise in the topic area

Continuing Education. As a provider and sponsor of continuing education (CE) in a variety of professional disciplines, APHA is committed to affording learners the possibility of obtaining CE credit/units/contact hours for their specific profession through participation in CEIs. APHA therefore expects faculty of selected CEI proposals to willingly adhere to accrediting body obligations.

Proposal Packets. On November 27th, CEI Proposal Packets will become available. For a faxed copy, call APHA’s Fax-on-Demand at (703) 336-5552 and request document number #700; for a downloadable copy from APHA’s continuing education Web page, go to www.apha.org/education. For specific questions, please contact Valerie Okrend at (202) 777-2521 or valerie.okrend@apha.org.

Deadline for Proposal Submission: February 1, 2002.