

Homophobia in Registered Nurses: Impact on LGB Youth

Christopher W. Blackwell
Ermalynn M. Kiehl

ABSTRACT. This study examined registered nurses' overall attitudes and homophobia towards gays and lesbians in the workplace. Homophobia scores, represented by the Attitudes Toward Lesbians and Gay Men (ATLG) Scale, was the dependent variable. Overall homophobia scores were assessed among a randomized stratified sample of registered nurses licensed in the State of Florida who were educated at the diploma, associate, bachelors, masters, and doctorate levels. Statistical analyses were conducted using structural equation modeling and one-way analysis of variance.

KEYWORDS. Attitudes, discrimination, education, day, homophobia, homosexual, LGB youth, lesbian, nursing, registered nurse, workplace

There have been numerous critical inquires assessing differences between registered nurses educated at various educational levels. However, there is a great lack of study assessing differences between educational levels of registered nurses and attitudes towards societal issues, dilemmas, and controversies. Research suggests there are significant differences in several characteristics of nurses educated at the diploma, associate,

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bachelors, masters, and doctoral levels, calaureate and diploma levels, for instance of cost-containment issues compared to clinical practice (Robinson & Miller, 1999).

Research also finds differences in education of professionalism among nurses (Williamson, 2007). Thinking, field dependent-independent thinking and self-esteem have also been correlated (Saint Clair, 1994). Stirring much controversy, one study (Aiken, Clarke, Cheung, et al., 2003) stated a correlation with increased education and decreased patient mortality.

This study examines registered nurses' attitudes toward gays and lesbians in the workplace. Our results and registered nurses working in the community. Homophobia has been defined as attitudes toward persons (Smith, 2007). Using the Attitudes Toward Lesbians and Gay Men (ATLG) Scale, overall homophobia scores were assessed among nurses educated at the diploma, associate, bachelors, masters, and doctorate levels. Statistical analyses were conducted using structural equation modeling and one-way analysis of variance.

LITERATURE REVIEW

This literature review concentrated on research on homophobia in healthcare and nursing; correlation between education; the role of school nurses in healthcare assessment, and abuse of lesbian, gay, bisexual students; and the Attitudes Toward Lesbians and Gay Men Scale. There are very little data examining the amount of prevalence of discrimination in the healthcare sector. If discrimination, there is a lack of research on how to deal with homophobia within the workplace.

Although some studies examine physical and psychological belief patterns (Lock, 1998; Muller & Schatz, Lock, & Nemrow, 1997; Olsen & Mendenhall, Palley, & Skipper, 1999), none of these studies examined registered nurses. Burke and White (2001) examined the well-being of lesbian, gay, and bisexual

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bachelors, masters, and doctoral levels. Nurses educated at the bac-
calaureate and diploma levels, for instance, tend to be more conscious
of cost-containment issues compared to associate degree nurses during
clinical practice (Robinson & Miller, 1995).

Research also finds differences in educational levels and self-perceptions
of professionalism among nurses (Williams, 1995). Differences in critical
thinking, field dependent-independent thinking, adaptive style flexibility,
and self-esteem have also been correlated with educational levels of nurses
(Saint Clair, 1994). Stirring much controversy within the nursing profes-
sion, one study (Aiken, Clarke, Cheung, Sloane, & Silber, 2003) demon-
strated a correlation with increased educational preparation of nurses and
decreased patient mortality.

This study examines registered nurses' overall attitudes and homophobia
toward gays and lesbians in the workplace. We posit an analogy between
our results and registered nurses working with youth in schools and in the
community. Homophobia has been defined as the fear or dislike of gay
persons (Smith, 2007). Using the Attitudes Toward Lesbians and Gay Men
(ATLG) Scale, overall homophobia scores were assessed among nurses
educated at the diploma, associate, bachelor, masters, and doctorate levels.
Statistical analyses were conducted using structural equation modeling and
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LITERATURE REVIEW

This literature review concentrated on critical inquires assessing homo-
phobia in healthcare and nursing; correlations between homophobia and
education; the role of school nurses in helping to decrease violence, ha-
rassment, and abuse of lesbian, gay, bisexual, and transgender (LGBT)
students; and the Attitudes Toward Lesbians and Gay Men (ATLG) Scale.
There are very little data examining the amount of homophobia and preva-
lence of discrimination in the healthcare setting and when examining such
discrimination, there is a lack of research studying the responsiveness to
deal with homophobia within the workplace (Saunders, 2001).

Although some studies examine physician attitudes and discrimina-
tory belief patterns (Lock, 1998; Muller & White, 1997; O'Hanlan, Cabaj,
Schatz, Lock, & Nemrow, 1997; Olsen & Mann, 1997; Tellez, Ramos, Um-
land, Palley, & Skipper, 1999), none of these pertain to the homophobia of
registered nurses. Burke and White (2001) conducted research examining
the well-being of lesbian, gay, and bisexual medical doctors, discussing

correlations between well-being and workplace-related discrimination issues; nurses were not included in their sample.

While the work of Douglas, Kalman, and Kalman (1985) investigated some homophobia in nursing and medicine, more specifically, the researchers made correlations between homophobia and the treatment of AIDS patients. Only one article (Stephany, 1992), a qualitative study, examined the author's personal work experiences as a lesbian nurse.

Despite the dearth of data on homophobia in nurses, social science researchers that have extensively studied the relationship between education level and homophobia (Battle & Lemelle, 2002; Berkman & Zinberg, 1997; Herek, 2000, 2002; Herek & Capitanio, 1995; Hoffmann & Bakken, 2001; Lewis, 2003). These researchers reported a negative correlation between these two variables; thus, the more education heterosexuals obtain, the less homophobic they are (Battle & Lemelle, 2002; Berkman & Zinberg, 1997; Ellis, Kitzinger, & Wilkinson, 2002; Herek, 2000, 2002; Herek & Capitanio, 1995; Hoffmann & Bakken, 2001; Lewis, 2003). However, the exact role education plays in affecting a heterosexual's homophobia is unclear.

Lower degrees of education have been claimed as an etiologic source for increased homophobia among the African American community (Lewis, 2003). African Americans are two-thirds less likely than Caucasians to be college graduates. Education appears to positively correlate to a greater acceptance of differences in others, more liberal sexual outlooks, and an increase in the amount of interactions people have with gay men and lesbians. Therefore, it is speculated that African Americans should tend to be less accepting of homosexuals (Lewis). Scores on the ATLG Scale decrease as respondent educational level increases; thus, education is negatively correlated with homophobia (Herek, 2002).

Attempting to define at exactly what level of education differences in homophobia begins, college education appears to serve as a division point as research indicates that heterosexuals with a college degree hold significantly more favorable attitudes and less prejudice about homosexuals than do those with less education (Herek & Capitanio, 1995). Perhaps education itself isn't significant without educational experiences rich in sexual orientation issues, which has been correlated with lower degrees of homophobia (Hoffmann & Bakken, 2001). However, research on social workers hasn't been able to support this correlation (Berkman & Zinberg, 1997). Very little scholarly inquiry has been conducted assessing the role of school nurses in helping to decrease violence, harassment, and abuse of LGB youth. Data suggest gay and lesbian students, for example,

face the denial of their existence by school settings, and institutionalized discrimination against homosexuality, and institutionalized discrimination (Treadway & Yoakam, 1992). Discrimination on college campuses for LGBT students also has been studied. An assessment of campus climate for these students found that more than one-third (36%) of all LGBT students experienced harassment within the past year, and 15% of physical violence directed toward them because of their sexual orientation or gender identity (Hoffmann & Bakken, 2001). Perhaps of even greater significance, 41% of respondents felt their college/university was not addressing issues of harassment and gender identity.

Importance of actions of school professionals in addressing activity in school settings is found in the work of Hoffmann & Bakken (2001) that educators who received additional training in addressing adolescent homosexuality were more likely to teach students about homosexuality and to intervene on behalf of homosexual students. This additional training led to referrals of gay and lesbian students to counselors.

School nurses believe they do not possess the skills to accurately assess and to treat gay youth (Bakken & Hoffmann, 2001). They recommend school nurses increase their confidence in working with LGB students by augmenting their knowledge of this youth subculture, acquiring communication skills with them and increasing cultural competence (Hoffmann & Bakken, 2001). (2003) suggests that school nurses should "be able to identify gay, bisexual, and questioning students during the intake process"; school nurses can also play a unique role in providing a referral and ensuring a student's confidentiality.

METHODOLOGY

Instrument

This study employed the Attitudes Toward Lesbians and Gay Men (ATLG) Scale (Herek, 1984, 1987a, 1987b, 1988) to assess heterosexuals' affective responses to homosexuality (Davis et al., 1998). Consisting of two subscales, the ATLG Scale response to statements concerning lesbians and

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against homosexuality, and institutionalized heterosexism (Rankin, 2003;
Treadway & Yoakam, 1992). Discriminatory climates on university and
college campuses for LGBT students also exist. A 2003 comprehensive
assessment of campus climate for these students by Rankin (2003) found
more than one-third (36%) of all LGBT undergraduate students have
experienced harassment within the past year; 20% also expressed a fear
of physical violence directed toward them; and half (51%) concealed
their sexual orientation or gender identity to avoid intimidation by others.
Perhaps of even greater significance, 41% of study participants stated their
college/university was not addressing issues related to sexual orientation
and gender identity.
Importance of actions of school professionals in preventing homoneg-
ativity in school settings is found in the work of Ramfedi (1993), finding
that educators who received additional training on HIV/AIDS prevention
and adolescent homosexuality were more likely to use more strategies to
teach students about homosexuality and to improve the school environment
for homosexual students. This additional training also translated to more
referrals of gay and lesbian students to community resources.
School nurses believe they do not possess the necessary skills to compe-
tently assess and to treat gay youth (Baker & Cavender, 2003). Scholars
recommend school nurses increase their competency in providing services
to LGTB students by augmenting their knowledge, sensitivity, and aware-
ness of this youth subculture, acquiring communication skills to relate to
them and increasing cultural competence (Baker & Cavender). Benton
(2003) suggests that school nurses should act as advocates for lesbian,
gay, bisexual, and questioning students during the process of "coming
out"; school nurses can also play a unique role in agency and community
referral and ensuring a student's confidentiality.
METHODOLOGY
Instrument
This study employed the Attitudes Toward Lesbian and Gay Men
(ATLG) Scale (Herek, 1984, 1987a, 1987b, 1988, 1994). The scale gauges
heterosexuals' affective responses to homosexuality, gay men, and lesbians
(Davis et al., 1998). Consisting of two subscales (one assessing affective
response to statements concerning lesbians and the other to gay men), this

20-question survey instrument is designed as either a 4-point or 5-point Likert scale using labels from strongly disagree to strongly agree (Davis et al.). Scoring is evaluated by summing numerical values (1 = *strongly disagree*, 5 = *strongly agree*) across items for each subscale. Reverse scoring is used for some items; reverse scoring is corrected in the statistical analyses. The possible range of scores varies depending on the response of study participants. With the 5-point response scale used in this inquiry, total scale scores could range from 20 (extremely positive attitudes) to 100 (extremely negative attitudes).

The ATLG has been shown reliable with alpha levels $\geq .80$ (Herek, 1987a, 1987b, 1988, 1994; Herek & Glunt, 1991, 1993). Shorter forms of the ATLG have also shown reliable with alpha scores of .70 (Herek, 1994; Herek & Capitanio, 1996). To examine validity, higher scores were correlated with high religiosity, lack of personal contact with gay men and lesbians, an adherence to traditional sex-role attitudes, belief in a traditional family ideology, and high levels of dogmatism (Greene & Herek, 1994; Herek, 1994; Herek & Capitanio, 1995, 1996; Herek & Glunt, 1993).

These higher scores were also correlated with AIDS-related stigma (Herek & Glunt, 1991). Discriminate validity was supported through two studies completed by Herek in 1988 and 1994. Affiliates with a gay and lesbian organization and supporters of a local gay rights initiative scored significantly lower (at the extreme positive end) on the ATLG while community residents opposing the initiative scored much at the extreme negative end.

In addition to the ATLG, a demographic data collection sheet to gather information about the participants' age, gender, race/ethnicity, education level, belief in the "free choice" model of homosexuality, exposure to homosexuals through friends and/or family associations, and attitudes towards workplace nondiscrimination policies protective of gays and lesbians was used.

Data Collection

Research proposals were submitted for approval to the Institutional Review Board at one metropolitan university. To collect data in a random fashion, a mathematical approach was used to obtain the sample. Using the electronic database of registered nurses through the State of Florida Department of Health Board of Nursing, potential participants were selected by selecting every third name in the database under each letter of the alphabet until 20 names were selected per letter yielding a total of 520 potential

subjects. Only individuals with mailing addresses were included. If an individual living outside the state was selected, the next name was selected; every 20th name was selected using the newly selected individual as a starting point. Where the sample of 20 couldn't be arrived at, a registered nurse, the deficient amount was made up by selecting a name from the end of the alphabet forward. There were 165 eligible, livable and 165 of the remaining 480 (34%) were selected.

The study packet included directions for completing the 20-page questionnaire (including the demographic data collection sheet, the ATLG Scale), and a postage-paid envelope. The packet explained in the directions included in the packet that upon return of the survey indicated informed consent. In the event of disclosure of a homosexual or bisexual orientation during the study, data analysis indicated this was not the case. Eventually removed from the structural equation model.

The respondents' identities were kept anonymous. Names were used during the data collection or analysis. Respondents could withdraw from the study at any time without penalty. All data were read only by the researcher. Confidentiality was protected by locking the questionnaires in a research office.

Treatment of the Data

Data were analyzed through the use of descriptive and comparative statistics. Descriptive statistics were used to report trends in the data while frequency distributions were used to report the dispersion of responses. To determine relationships between the independent variable of education and dependent variables, analysis of variance (ANOVA) and structural equation modeling were used. Confirmatory factor analysis was used to test the consistency of the ATLG Scale.

RESULTS

Demographics

Table 1 illustrates the demographic distribution of the initial respondent was a Caucasian heterosexual

is designed as either a 4-point or 5-point strongly disagree to strongly agree (Davis summing numerical values (1 = strongly across items for each subscale. Reverse score reverse scoring is corrected in the statistical 5-point response scale used in this inquiry, from 20 (extremely positive attitudes) to 100

reliable with alpha levels $\geq .80$ (Herek, Glick & Glunt, 1991, 1993). Shorter forms reliable with alpha scores of .70 (Herek, Glick & Glunt, 1994). To examine validity, higher scores were lack of personal contact with gay men and nonal sex-role attitudes, belief in a traditional of dogmatism (Greene & Herek, 1994; Glick, 1995, 1996; Herek & Glunt, 1993). Also correlated with AIDS-related stigma estimate validity was supported through two 1988 and 1994. Affiliates with a gay and members of a local gay rights initiative scored extreme positive end) on the ATLG while the initiative scored much at the extreme

demographic data collection sheet to gather participants' age, gender, race/ethnicity, education level, model of homosexuality, exposure to and/or family associations, and attitudes toward policies protective of gays and lesbians submitted for approval to the Institutional Review Board at a random sample. Using the list of Florida De-registered nurses through the State of Florida Department of Health, potential participants were selected from the database under each letter of the alphabet yielding a total of 520 potential

subjects. Only individuals with mailing addresses within the United States were included. If an individual living outside the United States was selected, the next name was selected; every third name was then selected using the newly selected individual as a starting point. In alphabet letters where the sample of 20 couldn't be arrived at by selecting every third registered nurse, the deficient amount was made up by sampling every third name from the end of the alphabet forward. Forty were returned as undeliverable and 165 of the remaining 480 (34%) were included in the study. The study packet included directions for completing the study, a two-page questionnaire (including the demographic data collection sheet and the ATLG Scale), and a postage-paid envelope for return of the survey. As explained in the directions included in the study packet, completion and return of the survey indicated informed consent for participation. Although disclosure of a homosexual or bisexual orientation was exclusionary for the study, data analysis indicated this was a nonsignificant variable and eventually removed from the structural equation model used for this study. The respondents' identities were kept anonymous; no identifiers were used during the data collection or analyses. Participants could choose to withdraw from the study at any time without consequence. Individual raw data were read only by the researcher. Confidentiality was maintained by locking the questionnaires in a research office.

Treatment of the Data

Data were analyzed through the use of descriptive, correlational, and comparative statistics. Descriptive statistics were used for an examination of aggregate sample data; measures of central tendency were utilized to report trends in the data while frequency distributions indicated the dispersion of responses. To determine relationships among the independent variable of education and dependent variable of homophobia, one-way analysis of variance (ANOVA) and structural equation modeling (SEM) were used. Confirmatory factor analysis was used to support the internal consistency of the ATLG Scale.

RESULTS

Demographics

Table 1 illustrates the demographic distribution of the sample. The typical respondent was a Caucasian heterosexual female, between the ages of

TABLE 1. Frequencies of demographic responses*

	Variable	Sample Composite
Gender <i>n</i> = 163	Male	11 (7%)
	Female	152 (92%)
Age <i>n</i> = 162	20-29	13 (8%)
	30-39	28 (17%)
	40-49	55 (33%)
	50-59	40 (24%)
	>60	26 (16%)
Race <i>n</i> = 163	Caucasian	131 (79%)
	African American	8 (4.8%)
	Hispanic	5 (3%)
	Asian	16 (10%)
	Other	3 (2%)
Education <i>n</i> = 162	Diploma	17 (10%)
	Associate	64 (39%)
	BSN	57 (35%)
	MSN	21 (13%)
	Doctorate	3 (2%)

*Due to missing data, variable categories do not sum to total sample size ($N = 165$).

40 and 49 years, with an Associate Degree in Nursing. With regard to religiosity, the majority were moderate Christian, attending church weekly. Seventy-three percent of participants have at least one friend or family member who is a gay man or lesbian and 62% indicated they would support a nondiscrimination policy in their workplace that protects gay men and lesbians.

Validation of the ATLG Scale

The ATLG scores of this study's sample ranged from 20 to 100. Seventy-eight percent of respondents had an overall ATLG score of 60 (midrange) or less while the remainder (22%) had scores greater than 60 (higher level of homophobia).

Validation of the research instrument used in this study was completed with the use of confirmatory factor analysis. Specifically, the standardized regression weights of each of the 20 ATLG items were correlated with the

overall construct of homophobia. Analysis indicated that 16 of the 20 items were stable and the indices had a factor loading value $\geq .7$.

Thus, the regression values indicate that the construct is relevant. The only ATLG items with regression weights, each item's critical ratio ≥ 1.96 are significant at the .05 level. Each item's contribution to the overall model, with critical ratio ≥ 1.96 and a Cronbach's alpha for the ATLG Scale was .77; validity with a Cronbach's alpha score $\geq .7$ (Garson, 2000). The ATLG for this study was also supported by

Age Ethnicity, and Nursing Education with Homophobia

Significance was found with age and ethnicity. A one-way ANOVA indicated a statistically significant difference ($F = 5.3, p \leq .05$, between mean ATLG scores of the sample. Tukey's post hoc analysis indicated significant ($p \leq .05$) differences between the age groups 20-29 and 40-49. Statistically significant differences were also found in the mean ATLG scores between ethnicities. Of individuals identifying their race/ethnicity, Caucasians had the lowest mean ATLG score at 42; African Americans had a mean ATLG score of 52 and Asians had a mean ATLG score of 52 and individuals who indicated their race/ethnicity as other had a mean ATLG score of 26. Tukey's post hoc analysis indicated that there were significant differences between the mean ATLG scores between the ethnicities ($p \geq .05$).

Differences in mean ATLG scores between education in the sample were not statistically significant ($p \geq .05$). Nurses who indicated an education level of Associate Degree in Nursing had a mean ATLG score of 46 compared to 42 for those with a Bachelor of Science in Nursing. Nurses who indicated the highest level of education in Nursing (BSN) had a mean ATLG score of 42. Those with a Master of Science in Nursing had a mean ATLG of 38 and those at the doctoral level had the highest mean ATLG score of 38.

es of demographic responses*

Sample Composite	
11 (7%)	
152 (92%)	
13 (8%)	
28 (17%)	
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26 (16%)	
131 (79%)	
8 (4.8%)	
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overall construct of homophobia. Analysis of the regression of the indices
 indicated that 16 of the 20 items were statistically significant. All but five
 of the indices had a factor loading value $\geq .71$ at $p = .05$.

Thus, the regression values indicate that the influence of these indices
 on the construct is relevant. The only ATLG items with a regression weight
 $\leq .71$ were item numbers 1, 2, 4, 13, and 17. In addition to analysis of the
 regression weights, each item's critical ratio value was also analyzed to
 support validity. According to Garson (2005), in random sample variables
 with standard normal distributions, estimates with critical ratios more than
 1.96 are significant at the .05 level. Each item on the ATLG was significant
 in the overall model, with critical ratio values > 1.96 . The Cronbach's
 alpha for the ATLG Scale was .77; validity for an instrument is supported
 with a Cronbach's alpha score $\geq .7$ (Garson). Thus, the validity of the
 ATLG for this study was also supported by the Cronbach's alpha value.

Age Ethnicity, and Nursing Education as Correlates

with Homophobia

Significance was found with age and ethnicity but not education. One-
 way ANOVA indicated a statistically significant difference, $F(5, 157) =$
 $5.3, p \leq .05$, between mean ATLG scores between the various age groups
 of the sample. Tukey's post hoc analysis indicated statistically significant
 $(p \leq .05)$ differences between the age groups 20-29 and 30-39 and 30-39,
 and 40-49. Statistically significant differences, $F(5, 158) = 3.4, p \leq .05$,
 were also found in the mean ATLG score of the sample's various eth-
 nicities. Of individuals identifying their race/ethnicity, Caucasians scored
 lowest on the ATLG at 42; African Americans highest at 61. Hispanics and
 Asians had a mean ATLG score of 52 and 54, respectively. Finally, those
 individuals who indicated their race/ethnicity as "other" had a mean ATLG
 of 26. Tukey's post hoc analysis indicated that individual differences in the
 mean ATLG scores between the ethnicities were not statistically significant
 $(p \geq .05)$.

Differences in mean ATLG scores between the different levels of ed-
 ucation in the sample were not statistically significant, $F(6, 156) = 1.7$,
 $p \geq .05$. Nurses who indicated an education at the diploma level had a
 mean ATLG score of 46 compared to 42 for those with an associate degree.
 Nurses who indicated the highest level of education as the Bachelor of Sci-
 ence in Nursing (BSN) had a mean ATLG of 48. Nurses with a Master of
 Science in Nursing had a mean ATLG of 37 while the 3 nurses educated
 at the doctoral level had the highest mean ATLG score of 60.

TABLE 2. Comparison: Goodness of fit of original and reconfigured SEM

Measurement	Original Model	Reconfigured Model
Chi-Square	1162	635
Probability	0.000	0.000
Comparative Fit Index	.80	.88
Tucker-Lewis Index	.77	.86
RMSEA	0.91	.89
CMIN/(Degrees of Freedom)	2.35	2.30
Squared Multiple Correlations	.52	.55

While the differences between the levels of homophobia among the various educational levels of the nurses were insignificant, overall, levels of education were not positive correlates to the overall homophobia scores of the sample. Using structural equation modeling (SEM), the endogenous variable of education was postulated as a predictor of the exogenous variable of homophobia. With a critical ratio value of .41 (< 1.96), education was a nonsignificant endogenous variable. In addition to the critical ratio value, goodness of fit criteria are also assessed in conducting SEM. Variables deemed insignificant statistically are removed from the model, thus strengthening fitness criteria (including chi-square, probability, comparative fit index, Tucker-Lewis index, root mean square error of approximation [RMSEA], computed minimum sample discrepancy (CMIN)/degrees of freedom, and squared multiple correlations). Removal of the insignificant endogenous variables of this study, including education, greatly improved the goodness of fit of the SEM (Table 2).

The overall chi-square for the model significantly decreased from 1162 to 635, indicating a strengthening of the goodness of fit. The comparative fit index increased significantly from .80 to .88 while the Tucker-Lewis Index significantly increased from .77 to .86, both indicating an increase in the goodness of fit with the reconfigured model. The root mean squared error of approximation dropped .2 from .91 to .89. CMIN/ (degrees of freedom) decreased from 2.35 to 2.30, indicating an overall better goodness of fit of the reconfigured model compared to the original model. The squared multiple correlations value also increased slightly from .52 to .55, indicating a strengthening of the model's measurement of the construct.

In summary, the goodness of fit measurements significantly improved after reconfiguration of the structural equation model to include only those variables that were statistically significant predictors of homophobia. Other

variables predictive of homophobia in this study were race/ethnicity, personal belief regarding interpersonal contact with gay and lesbian individuals, and support for anti-discrimination policy.

Support Workplace Nondiscrimination with Homophobia

The hypothesis for this study predicted a positive correlation between support for a nondiscrimination policy and support for gay and lesbians in the workplace and homophobia. The structural equation modeling (SEM) was used to test the model of the study (support or nonsupport of a nondiscrimination policy) of gay men and lesbians in the workplace. The model and were correlated with the level of homophobia, which was then correlated with the 20-item homophobia scale.

Next, using a critical ratio (CR) significance test, the independent variable was assessed for statistical significance. A critical ratio value of -4.01 , support for a nondiscrimination policy for gays and lesbians was a significant negative predictor. With a critical ratio value of 3.23, nonsupport for a nondiscrimination policy protective of gays and lesbians was a significant predictor among the nurses.

DISCUSSION

Homophobia exists in nursing (Blackwell, Rön Dahl, Innala, & Carlsson, 2004). While the literature highlights the significance of the relationships between independent variables and dependent variables, perhaps it is time to focus on findings in research that largely conflict with the current findings. It is also useful to examine the role of education that people can play, given the proper values, knowledge, and skills.

Homophobia and Level of Education:

As noted earlier, published data largely support a positive relationship between homophobia and education level. In this study, the findings of this sample were not statistically significant.

ness of fit of original and reconfigured SEM

	Original Model	Reconfigured Model
1162	0.000	0.000
635	.88	.88
	.77	.86
	0.91	.89
	2.35	2.30
	.52	.55

in the levels of homophobia among the var-
nurses were insignificant, overall, levels of
correlates to the overall homophobia scores
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(Table 2).

the model significantly decreased from 1162
ing of the goodness of fit. The comparative
y from .80 to .88 while the Tucker-Lewis
from .77 to .86, both indicating an increase
reconfigured model. The root mean squared
ed .2 from .91 to .89. CMIN/(degrees of
o 2.30, indicating an overall better goodness
del compared to the original model. The
value also increased slightly from .52 to .55,
ne model's measurement of the construct.
of fit measurements significantly improved
structural equation model to include only those
significant predictors of homophobia. Other

variables predictive of homophobia in this sample of nurses included age,
race/ethnicity, personal belief regarding controllability of homosexuality,
interpersonal contact with gay and lesbian persons, and support of a nondis-
crimination policy.

Support Workplace Nondiscrimination Policies as a Correlate with Homophobia

The hypothesis for this study predicted that there would be a negative
correlation between support for a nondiscrimination policy protecting gays
and lesbians in the workplace and homophobia. To test this hypothesis,
structural equation modeling (SEM) was used. The independent variables
of the study (support or nonsupport of a nondiscrimination policy protective
of gay men and lesbians in the workplace) were placed on the left side of
the model and were correlated with the latent construct of homophobia,
which was then correlated with the 20-item ATLG scale.
Next, using a critical ratio (CR) significance level of > 1.96 , each inde-
pendent variable was assessed for statistical significance. With a critical
ratio value of -4.01 , support for a nondiscrimination policy protective of
gays and lesbians was a significant negative correlate with homophobia.
With a critical ratio value of 3.23, nonsupport of a nondiscrimination policy
protective of gays and lesbians was a significant predictor of homophobia
among the nurses.

DISCUSSION

Homophobia exists in nursing (Blackwell, 2005; Christensen, 2005;
Röndahl, Inala, & Carlsson, 2004). While most notable research tends to
highlight the significance of the relationships between independent vari-
ables and dependent variables, perhaps it is also significant to highlight
findings in research that largely conflict with established and expected pre-
dictors. It is also useful to examine the role that nurses working with young
people can play, given the proper values, knowledge, and resources.

Homophobia and Level of Education: Alternative Explanations

As noted earlier, published data largely support a negative correlation be-
tween homophobia and education level. In contrast, the educational levels
of this sample were not statistically significant predictors of homophobia

among registered nurses. There could be a multiplicity of reasons explaining the lack of correlation. Salient to this discussion is the survey instrument, which is a limitation of this study.

There is a great deal of difference and debate regarding path to entry-level nursing practice and the education of nurses (Kenny, Carter, Martin, & Williams, 2004). It is possible that participants were unable to strongly identify with one of the options (Diploma, Associate, BSN, MSN, Doctoral) presented in the survey instrument. For example, a nurse who has been educated with an associate degree education might pursue a Bachelors or Masters degree outside of nursing. This presents ambiguity among the survey options; although the nurse was educated at the associate level, he or she went on to earn a baccalaureate degree outside of nursing, which was not an option on the survey instrument.

Similarly, a nurse educated at the diploma level, who eventually went to graduate school and received a Masters degree in health administration or public health, would have had difficulty in the survey choices provided. Participants may have been forced-into an answer option that didn't represent their highest level of education. Thus, the finding of nonsignificant differences between homophobia scores and education may have been a Type 2 error.

However, beyond the limitations of the study instruments there may be important differences between which variables predict homophobia in the general heterosexual population and nurses in general. It is widely supported that interpersonal contact with gays and lesbians is a strong negative correlate with homophobia (Berkman & Zinberg, 1997; Douglas et al., 1985; Finlay & Walther, 2003; Herek, 1988, 2000, 2002; Herek & Capitano, 1995; Hoffmann & Bakken, 2001; LaMar & Kite, 1998; Landen & Innala, 2002; Lewis, 2003; Plugge-Foust & Strickland, 2001). Perhaps nurses' homophobia is influenced more significantly by their interactions with gay men and lesbians compared to educational experience.

Although not a statistically significant predictor of homophobia in this study, gender composition of nurses is of significance to this discussion. Only 11 male nurses were included in this study, with all of them returning surveys. There is a societal misperception that nursing is a feminine career choice or that nursing is a profession that is gender specific (Clifford, 2005). One might hypothesize that male nurses overstate their homophobia due to societal stigma of being a male nurse working in a female-dominated industry. Or, this stigma may lead to irrational thought process among male nurses. Perhaps knowing the existence of a social stigma placed on male nurses alters their rationality of male gender

roles. Male nurses may irrationally be associated with nursing as feminine, effeminate, and homosexuality further perpetuate the social stigma. The process has been positively correlated with education (Plugge-Foust & Strickland, 2001).

Nurses practice in a variety of settings, with diverse cultural backgrounds (Coffman, 2004). Because of the diversity and backgrounds of nurses and lesbians has been negatively correlated with education and the increased exposure to and greater amount of contact with clients, including gay and lesbian clients, there is more homophobia than education. In addition to the scope of this discussion, in this study, interaction with gay and lesbians was a strong predictor of homophobia.

Heterosexuals who are more tolerant of diversity tend to be more open to interaction with individuals from more diverse backgrounds (Coffman, 2004). They are more supportive of human rights initiatives (Coffman, 2002). Like the correlation between education and homophobia, increased personal interaction with diverse individuals tend to lessen discriminatory beliefs and attitudes toward minority cultures (Mahoney, 2005). Given the diverse student population, the quantity of interaction with diverse minority individuals throughout the educational process may impact that more education had on reducing homophobia.

Another explanation or contributor to the findings found in this study between homophobia and education is the inclusion of topics in nursing curriculum. For example, Abrams and Leppa (2001) argue for the inclusion of cultural diversity in nursing education that includes sexual orientation. Perhaps an across-the-board emphasis on the provision of culturally competent care through the nursing curricula has resulted in nonsignificant differences from educational background. Campinha-Bacote (2002) argues that nursing education is on a "progressive path" toward increasing the cultural competence of nurses through

Role of the Nursing Profession in Workplaces

To the degree to which interpersonal contact and intercultural interactions, and/or curriculum content address homophobia among school nurses in this

roles. Male nurses may irrationally believe that because society may associate nursing as feminine, effeminate behaviors often associated with homosexuality further perpetuate the social stigma. Irrational thought process has been positively correlated with male gender and homophobia (Plugge-Foust & Strickland, 2001).

Nurses practice in a variety of settings, treating clients from many diverse backgrounds (Coffman, 2004). Because interpersonal contact with gays and lesbians has been negatively correlated with homophobia, perhaps the increased exposure to and greater amount of interaction with diverse clients, including gay and lesbian clients, tends to be more of a predictor of homophobia than education. In addition, although extraneous to the scope of this discussion, in this study, interpersonal contact with gays and lesbians was a strong predictor of homophobia with a critical ratio of 3.61. Heterosexuals who are more tolerant of culturally diverse individuals tend to be more open to interaction with homosexuals and also tend to be more supportive of human rights initiatives (Ellis, Kitzinger, & Wilkinson, 2002). Like the correlation between interaction with homosexuals and homophobia, increased personal interactions with minority groups, in general, tend to lessen discriminatory beliefs and attitudes of majority cultures on minority cultures (Mahoney, 2005). Given the diversity of the nursing student population, the quantity of interactions between majority and minority individuals throughout the education process may have lessened the impact that more education had on reducing homophobia.

Another explanation or contributor to the lack of significant relationship found in this study between homophobia and education levels is that the inclusion of topics in nursing curriculum pertaining to sexual orientation. For example, Abrams and Leppa (2001) authored an approach to infusing cultural diversity in nursing education that was inclusive of issues regarding sexual orientation. Perhaps an across-the-board increased concentration on the provision of culturally competent care to homosexual clients in nursing curricula has resulted in nonsignificant differences in homophobia derived from educational background. Campinha-Bacote (2006) noted the belief that nursing education is on a "progressive course" (p. 244) towards increasing the cultural competence of nurses through paradigm shifts in curricula.

To the degree to which interpersonal contact with homosexual persons, intercultural interactions, and/or curriculum inclusion have impacted homophobia among school nurses in this sample is not known. However,

Role of the Nursing Profession in Working with LGBT Youth

clearly nurses can play an important role in addressing issues faced by LGBT questioning (Q) youth, in part, because of their traditional role as a trusted caregiver. While such adolescents tackle many of the same growth and development issues as other adolescents and have the similar health education needs and safety and health concerns, they also confront homophobia as they incorporate identities that are generally invisible, stigmatized, or marginalized (Adams, 1997; Bakker & Cavender, 2003). Four out of five LGBTQ students, for instance, report being verbally harassed because of their sexual orientation—while 83% of LGBT students note that faculty and staff never or only rarely intervene when they are present and homophobic remarks are made; they are 40% more likely to skip school out of fear for their safety (gay, lesbian, straight education network (GLSEN), 2003). In their 2004 *State of the States* report by (GLSEN) (2004), 42 states received failing grades. The vast majority of students did not have legal protections against anti-LGBTQ bullying and harassment.

Given the additional problems facing LGBTQ youth such as increased drug and alcohol use, sexually transmitted infections and pregnancy risks, depression, and suicide, school nurses can play a unique role in the lives of these students (Benton, 2003; Russell & Joyner, 2001). School nurses are in a particularly good position to provide support for these youth since they often work individually with a young person in the confidentiality of their office or a hospital room. If these nurses have both low levels of homophobia and are knowledgeable about issues facing these young people, they can provide much needed services even within institutions or locations where no protections exist.

Although it has been the role of school nurses to identify at-risk students, it should also be expected that they be prepared to provide health care for the subculture of LGBT youth. The National Association of School Nurses adopted a position statement on Sexual Orientation and Gender Identity/Expression in 1994, which was revised in 2003. The policy states:

[A]ll students, regardless of sexual orientation, gender expression, and gender identity are entitled to equal opportunities in the educational system. The school nurse needs to be aware of students who are lesbian, gay, bisexual, transgender and questioning; sensitive to their needs; knowledgeable about the health needs of this group of students; and effective in interventions to reduce risk factors. The school nurse should be actively involved in fostering a safe environment, demonstrating an understanding of the issues and modeling respect for diversity (p. 2).

However, nurses report that they do not have the resources needed to identify and to address the needs of these youth (Cavender, 2003). School nurses need to be more knowledgeable about the subculture and be more sensitive and required to relate appropriately to this group of youth. A review of the *Journal of School Nursing* from 1990 to 2003 in the 39 issues and 390+ articles, only 3 articles were devoted to LGBTQ youth. Clearly, there needs to be more research, program development, and implementation.

It is suggested (GLSEN, 2002) that every school should have one clearly identifiable person who understands the needs of these youth. Benton (2003) found that school nurses' preparedness and ability toward these youth. Thus, it would seem that a school nurse would be the ideal person to provide support. Low degrees of homophobia, have knowledge about these youth, assume a proactive role can also play an important role. In hospitals, for example, pediatric nurses use their clinical skills to identify clients who might be at risk for health or other health issues related to their sexual orientation. Recognition of high risk clients can lead to early intervention also enhance the opportunity for the nurse to provide support among adolescents encountering unique difficulties.

Although the level of education does not guarantee a low level of homophobia among nurses, it is imperative that nurses be culturally diverse students and continue to receive education on sexual orientation remain an essential part of their education providing culturally competent care.

NOTE

1. The ATLG Scale was developed in 1988 and is a part of *Sexually-Related Measures* (Davis, Yarber, D'Augelli, & Grossman, 1998). Herek (1984, 1987a, 1988, 1994) has completed reliability and construct validity studies.

REFERENCES

Abrams, M., & Leppa, C. (2001). Beyond culture: The impact of gender, class, and sexual orientation. *Journal of Nursing*

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However, nurses report that they do not have the knowledge or skills needed to identify and to address the needs of this group (Bakker & Caverder, 2003). School nurses need to be aware of, sensitive to, and knowledgeable about the subculture and possess communication skills required to relate appropriately to this group of young people. Yet, a review of the *Journal of School Nursing* from 2000-2006 revealed that in the 39 issues and 390+ articles, only 3 articles addressed issues related to LGBTQ youth. Clearly, there needs to be a greater focus on nursing research, program development, and implementation.

It is suggested (GLSEN, 2002) that every school should have at least one clearly identifiable person who understands the needs of LGBT youth. Benton (2003) found that school nurses' perceived a professional responsibility toward these youth. Thus, it would seem logical that a nonhomophobic school nurse would be the ideal person to fill this role. Nurses who have low degrees of homophobia, have knowledge about LGBT issues and assume a proactive role can also play an important role outside of the school. In hospitals, for example, pediatric nurses can employ their assessment skills to identify clients who might be at risk for psychosocial disturbances or other health issues related to their sexual orientation or gender identity. Recognition of high risk clients can lead to faster intervention and can also enhance the opportunity for the nurse to provide wellness education among adolescents encountering unique developmental experiences. Although the level of education does not appear to correlate with homophobia among nurses, it is imperative that nursing curricula embrace culturally diverse students and continue to ensure that issues regarding sexual orientation remain an essential part of the training of nurses in providing culturally competent care.

NOTE

- 1. The ATLG Scale was developed in 1988 and can be obtained from the *Handbook of Sexually-Related Measures* (Davis, Yarber, Davis, Bauseman, Scheer, & Davis, 1998). Herek (1984, 1987a, 1988, 1994) has completed factor analyses, item analyses, and construct validity studies.

REFERENCES

Abrams, M., & Leppa, C. (2001). Beyond cultural competence: Teaching about race, gender, class, and sexual orientation. *Journal of Nursing Education*, 40(6), 270-275.

- Adams, R. (1997). Preventing verbal harassment and violence toward gay and lesbian students. *Journal of School Nursing, 13*(3), 24–28.
- Aiken, L., Clarke, S., Cheung, R., Sloane, D., & Silber, J. (2003). Relationship between patient mortality and nurses' level of education. *Journal of the American Medical Association, 291*(11), 1617–1623.
- Bakker, L., & Cavender, A. (2003). Promoting culturally competent care for gay youth. *Journal of School Nursing, 19*(2), 65–72.
- Battle, J., & Lemelle, A. (2002). Gender differences in African American attitudes toward gay males. *The Western Journal of Black Studies, 26*(3), 134–139.
- Benton, J. (2003). Making schools safer and healthier for lesbian, gay, bisexual, and questioning students. *Journal of School Nursing, 19*(5), 251–259.
- Berkman, C., & Zinberg, G. (1997). Homophobia and heterosexism in social workers. *Social Work, 42*(4), 319–332.
- Blackwell, C. (2005). *Registered nurses' attitudes toward the protection of gays and lesbians in the workplace: An examination of homophobia and discriminatory beliefs* (Doctoral dissertation, University of Central Florida). *Dissertation Abstracts International, 66*(01), 1186. (UMI No. 3087465)
- Burke, B., & White, J. (2001). Wellbeing of gay, lesbian, and bisexual doctors. *British Medical Journal, 322*, 422–425.
- Campinha-Bacote, J. (2006). Cultural competence in nursing education: How are we doing 20 years later? *Journal of Nursing Education, 45*(7), 243–247.
- Christensen, M. (2005). Homophobia in nursing: A concept analysis. *Nursing Forum, 40*(2), 60.
- Clifford, J. (2005). Nursing shortage looms: Healthcare leaders grapple with workforce issues. *Prospective, 2*(3), 2.
- Coffman, M. (2004). Cultural caring in nursing practice: A meta-synthesis of qualitative research. *Journal of Cultural Diversity, 11*(3), 100–109.
- Davis, C., Yarber, W., Bauserman, R., Schreer, G., & Davis, S. (Eds.). (1998). *Sexuality-related measures: A compendium*. Thousand Oaks, CA: Sage.
- Douglas, C., Kalman, C., & Kalman, T. (1985). Homophobia among physicians and nurses: An empirical study. *Hospital & Community Psychiatry, 36*(12), 1309–1311.
- Ellis, S., Kitzinger, C., & Wilkinson, S. (2002). Attitudes towards lesbians and gay men and support for human rights among psychology students. *Journal of Homosexuality, 44*(1), 121–138.
- Finlay, B., & Walther, C. (2003). The relation of religious affiliation, service attendance, and other factors to homophobic attitudes among university students. *Review of Religious Research, 44*(4), 370–393.
- Garson, G. (2005). *Structural equation modeling example using WinAMOS*. Retrieved April 11, 2005, from <http://www2.chass.ncsu.edu/garson/pa765/semAMOS1.htm>
- GLSEN. (2002). *Sexual minority youth in the heartland: Issues and methods for youth-serving professionals*. Retrieved October 31, 2006, from <http://www.glsen.org/cgi-bin/iowa/all/library/record/972.html>
- GLSEN. (2003). *National school climate survey*. Retrieved October 31, 2006, from www.glsen.org
- GLSEN. (2004). *State of the States Report is the safe schools policies*. Retrieved October 31, 2006, from <http://www.glsen.org/cgi-bin/iowa/all/library/record/1687.html>
- Greene, B., & Herek, G. (Eds.). (1994). *Lesbian and gay clinical applications: Psychological perspectives on practice*. Thousand Oaks, CA: Sage.
- Herek, G. (1984). Attitudes toward lesbians and gay men. *Journal of Homosexuality, 10*(1/2), 1–21.
- Herek, G. (1987a). Can functions be measured? A new approach to attitudes. *Social Psychology Quarterly, 50*(1), 1–16.
- Herek, G. (1987b). Religious orientation and prejudicial attitudes. *Personality and Social Psychology Bulletin, 13*(1), 1–10.
- Herek, G. (1988). Heterosexuals' attitudes toward gay men: An empirical research with the ATLG scale. *The Journal of Sex Research, 25*(3), 228–240.
- Herek, G. (1994). Assessing heterosexuals' attitudes toward gay men. In B. Greene & G. Herek (Eds.), *Lesbian and gay psychological applications: Psychological perspectives on practice* (pp. 228–240). Thousand Oaks, CA: Sage.
- Herek, G. (2000). The psychology of sexual prejudice. *Science, 9*(1), 19–22.
- Herek, G. (2002). Heterosexuals' attitudes toward bisexuals in the United States. *Journal of Sex Research, 29*(4), 264–274.
- Herek, G., & Capitanio, J. (1995). Black heterosexuals' attitudes toward gay men in the United States. *The Journal of Sex Research, 22*(4), 311–324.
- Herek, G., & Capitanio, J. (1996). "Some of my best friends are gay": Stigma, prejudice, and heterosexuals' attitudes toward gay men. *Social Psychology Bulletin, 22*(4), 412–424.
- Herek, G., & Glunt, E. (1991). AIDS-related attitudes toward gay men: Conceptualization. *The Journal of Sex Research, 28*(1), 1–10.
- Herek, G., & Glunt, E. (1993). Interpersonal contact with gay men: Results from a national survey. *The Journal of Sex Research, 20*(1), 1–10.
- Hoffman, A., & Bakken, L. (2001). Are educational interventions for rural nursing practice enhanced knowledge for rural nursing practice. *Nursing Research, 46*(4), 67–71.
- LaMar, L., & Kite, M. (1998). Sex differences in attitudes toward gay men: A multidimensional perspective. *The Journal of Sex Research, 25*(3), 228–240.
- Landen, M., & Innala, S. (2002). The effect of a biological perspective on attitudes toward homosexual persons. A Swedish national sample study. *Journal of Homosexuality, 42*(2), 181–186.
- Lewis, G. (2003). Black-white differences in attitudes toward gay men. *Public Opinion Quarterly, 67*, 89–78.
- Lock, J. (1998). Strategies for reducing homophobia among nurses. *Journal of the Gay and Lesbian Medical Association, 2*(4), 167–171.

harassment and violence toward gay and lesbian
 13(3), 24-28.
 oane, D., & Silber, J. (2003). Relationship between
 of education. *Journal of the American Medical Asso-*
 Promoting culturally competent care for gay youth.
 5-72.
 der differences in African American attitudes toward
Black Studies, 26(3), 134-139.
 ter and healthier for lesbian, gay, bisexual, and ques-
Nursing, 19(5), 251-259.
 Homophobia and heterosexism in social workers.
 's attitudes toward the protection of gays and lesbians
 of homophobia and discriminatory beliefs (Doctoral
 Florida). *Dissertation Abstracts International*, 66(01),
 being of gay, lesbian, and bisexual doctors. *British
 competence in nursing education: How are we doing
 Education*, 45(7), 243-247.
 in nursing: A concept analysis. *Nursing Forum*, (40)2,
 rooms: Healthcare leaders grapple with workforce
 in nursing practice: A meta-synthesis of qualitative
Personality and Individual Differences, 11(3), 100-109.
 Schreier, G., & Davis, S. (Eds.). (1998). *Sexuality-*
 Thousand Oaks, CA: Sage.
 (1985). Homophobia among physicians and nurses:
Community Psychiatry, 36(12), 1309-1311.
 (2002). Attitudes toward lesbians and gay men and
 psychology students. *Journal of Homosexuality*, 44(1),
 relation of religious affiliation, service attendance,
 tudes among university students. *Review of Religious
 modeling example using WinAMOS*. Retrieved April
 csu.edu/garson/pa765/semAMOS1.htm
 with in the heartland: Issues and methods for youth-
 October 31, 2006, from <http://www.glsen.org/cgi->

GLSEN. (2004). *State of the States Report is the first objective analysis of statewide
 safe schools policies*. Retrieved October 31, 2006, from <http://www.glsen.org/cgi->
 bin/iowa/all/library/record/1687.html
 Greene, B., & Herek, G. (Eds.). (1994). *Lesbian and gay psychology: theory, research, and
 clinical applications: Psychological perspectives on lesbian and gay issues* (1st ed.).
 Thousand Oaks, CA: Sage.
 Herek, G. (1984). Attitudes toward lesbians and gay men: A factor analytic study. *Journal
 of Homosexuality*, 10(1/2), 1-21.
 Herek, G. (1987a). Can functions be measured? A new perspective on the functional
 approach to attitudes. *Social Psychology Quarterly*, 50, 285-303.
 Herek, G. (1987b). Religious orientation and prejudice: A comparison of racial and sexual
 attitudes. *Personality and Social Psychology Bulletin*, 13(1), 34-44.
 Herek, G. (1988). Heterosexuals' attitudes toward lesbians and gay men: A review of
 empirical research with the ATLG scale. *The Journal of Sex Research*, 25, 451-477.
 Herek, G. (1994). Assessing heterosexuals' attitudes toward lesbians and gay men. In B.
 Greene & G. Herek (Eds.), *Lesbian and gay psychology: Theory, research, and clinical
 applications: Psychological perspectives on lesbian and gay issues* (1st ed., pp. 206-
 228). Thousand Oaks, CA: Sage.
 Herek, G. (2000). The psychology of sexual prejudice. *Current Directions in Psychological
 Science*, 9(1), 19-22.
 Herek, G. (2002). Heterosexuals' attitudes toward bisexual men and women in the United
 States. *Journal of Sex Research*, 29(4), 264-274.
 Herek, G., & Capitaino, J. (1995). Black heterosexuals' attitudes toward lesbians and gay
 men in the United States. *The Journal of Sex Research*, 32(2), 95-105.
 Herek, G., & Capitaino, J. (1996). "Some of my best friends": Intergroup contact, conceal-
 able stigma, and heterosexuals' attitudes toward gay men and lesbians. *Personality and
 Social Psychology Bulletin*, 22(4), 412-424.
 Herek, G., & Gium, E. (1991). AIDS-related attitudes in the United States: A preliminary
 conceptualization. *The Journal of Sex Research*, 28(1), 99-123.
 Herek, G., & Gium, E. (1993). Interpersonal contact and heterosexuals' attitudes toward
 gay men: Results from a national survey. *The Journal of Sex Research*, 30(3), 239-244.
 Hoffman, A., & Bakken, L. (2001). Are educational and life experiences related to homo-
 phobia? *Educational Research Quarterly*, 24(4), 67-82.
 Kenny, A., Carter, L., Martin, S., & Williams, S. (2004). Why 4 years when 3 will do?
 Enhanced knowledge for rural nursing practice. *Nursing Inquiry*, 11(2), 108-116.
 LaMar, L., & Kite, M. (1998). Sex differences in attitudes toward gay men and lesbians: A
 multidimensional perspective. *The Journal of Sex Research*, 35(2), 189-196.
 Landen, M., & Inama, S. (2002). The effect of a biological explanation on attitudes towards
 homosexual persons: A Swedish national sample study. *Nordic Journal of Psychiatry*,
 56, 181-186.
 Lewis, G. (2003). Black-white differences in attitudes toward homosexuality and gay rights.
Public Opinion Quarterly, 67, 89-78.
 Lock, J. (1998). Strategies for reducing homophobia during medical training. *Journal of
 the Gay and Lesbian Medical Association*, 2(4), 167-174.

- Mahoney, J. (2005). *Prejudice, discrimination, and racism, sexism, ethicism*. Retrieved August 20, 2005, from <http://www.people.vcu.edu/~jmahoney/lec05net.htm>
- Muller, M., & White, J. (1997). Medical student attitudes toward homosexuality: Evaluation of a second-year curriculum. *Journal of the Gay and Lesbian Medical Association, 1*(3), 155-160.
- National Association of School Nurses. (2003). *Position statement: Sexual orientation and gender identity/expression*. Retrieved December 20, 2007, from <http://www.nasn.org/Default.aspx?tabid=247>
- O'Hanlan, K., Cabaj, R., Schatz, B., Lock, J., & Newrow, P. (1997). A review of the consequences of homophobia with suggestion of resolution. *Journal of the Gay and Lesbian Medical Association, 1*(1), 25-40.
- Olsen, C., & Mann, B. (1997). Medical student attitudes on homosexuality and implications for health care. *Journal of the Gay and Lesbian Medical Association, 1*(3), 149-154.
- Plugge-Foust, C., & Strickland, G. (2001). Homophobia, irrationality, and Christian ideology: Does a relationship exist? *Journal of Sex Education and Therapy, 25*(4), 240-244.
- Ramfedi, G. (1993). The impact of training on school professionals' knowledge, beliefs, and behaviors regarding HIV/AIDS and adolescent homosexuality. *Journal of School Health, 63*(3), 153-157.
- Rankin, S. (2003). Campus climate for gay, lesbian, bisexual, and transgender people: A national perspective. *Diversity Digest, 7*(1/2), 21-23.
- Robinson, B., & Miller, M. (1995). Nurses' educational preparation and attitudes towards cost-containment. *AORN, 62*(3), 404-410.
- Röndahl, G., Innala, S., & Carlsson, M. (2004). Nurses' attitudes towards lesbians and gay men. *Journal of Advanced Nursing, 47*(4), 386-392.
- Russell, S., & Joyner, K. (2001). Adolescent sexual orientation and suicide risk: Evidence from a national study. *American Journal of Public Health, 91*(1), 1276-1281.
- Saint Clair, A. (1994). *The effect of undergraduate nursing education program type on the achievement of critical thinking, field dependent-independent thinking, adaptive style flexibility, and self-esteem* (Doctoral dissertation, University of Connecticut.) *Dissertation Abstracts International, 56*(04), 1921. (UMI No. 9525686)
- Saunders, D. (2001). Commentary: The medical profession should face up to its own homophobia. *British Medical Journal, 322*(7283), 424-425.
- Smith, B. (2007). *Working more effectively in advising: Understanding multicultural dimensions of gay, lesbian, bisexual, and transgender identities*. Retrieved December 17, 2007, from <http://www.nacada.ksu.edu/Clearinghouse/AdvisingIssues/GLBT-Definitions.htm>
- Stephany, T. (1992). Nursing as a lesbian. *Sexuality and Disability, 10*(2), 119-124.
- Tellez, C., Ramos, M., Umland, B., Palley, T., & Skipper, B. (1999). Attitudes of physicians in New Mexico toward gay men and lesbians. *Journal of the Gay and Lesbian Medical Association, 3*(3), 83-90.
- Treadway, L., & Yoakam, J. (1992). Creating a safer school environment for lesbian and gay students. *Journal of School Health, 62*(7), 352-357.
- Williams, M. (1995). *A comparison of self perceptions of professionalism of graduates of diploma, associate degree, and articulated BSN/RN programs* (Doctoral Dissertation, University of Connecticut). *Dissertation Abstracts International, 56*(06), 3131. (UMI No. 9535925)

PROFESSIONAL DEVELOPMENT WITH LGBT Y

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TRAINING MA

1. *Ending Anti-Gay Bias in Schools: training-of-* provides educators and activists with a resource to conduct antibias workshops in their local communities, handouts, and surveys. The training is des Lunchbox but offers a variety of strategies and any training program. Phone: 1-800-247-6553; <http://www.library/record/580.html> . . . Adult
2. *"Not Round Here: Affirming Diversity, Challenge Providers Training Manual: This rich, w* ton Penley Miller & Mahamati of Outlink, a Equal Opportunity Commission (Australia), http://www.hreoc.gov.au/pdf/human_rights/Not_Round_Here.pdf Rights and Equal Opportunity Commission 2000 quote from the kit without any obligation to seek knowledge the Commission, as long as the source format)
3. *"The GLSEN Lunchbox: A Comprehensive Training Manual: Bias in Schools": A comprehensive training p* menu of exercises and activities aimed at providing knowledge, skills, and tools necessary to build to develop more inclusive school environments. <http://www.atlasbooks.com/glsen/ordercur.htm> .
4. *"Guide to Leading Introductory Workshops on Homophobia from the Campaign to End Homophobia. Includes* and activities so that someone with little experience can lead introductory workshops on homophobia. T as a form of oppression. P. O. Box 382401, Ca bszoloath@aol.com; Web site: <http://www.endhomophobia.org>