Article



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Intersectional internalized stigma among Black gay and bisexual men: A longitudinal analysis spanning HIV/sexually transmitted infection diagnosis

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Abstract

Internalized stigma undermines health among people diagnosed with HIV and other sexually transmitted infections (STI), yet limited research has examined how internalized stigma develops. Black gay and bisexual men (n=151) reported their race and sexual orientation internalized stigma once before HIV/STI diagnosis and their HIV/STI internalized stigma monthly for I year after HIV/STI diagnosis. Multilevel analyses demonstrated that race and sexual orientation internalized stigma before diagnosis were associated with greater HIV/STI internalized stigma after diagnosis. More research is needed to understand how internalized stigma develops, including within the context of other identities and broader environmental characteristics to inform intervention efforts.

Keywords

African American, HIV, LGBTQ, sexually transmitted infection, stigma

Introduction

Internalized stigma undermines mental, behavioral, and physical health outcomes among people living with a wide range of socially devalued identities (Herek et al., 2009; Lee et al., 2002; Livingston and Boyd, 2010; Mak et al., 2007). Internalized stigma involves endorsing negative beliefs and feelings about people living with a stigmatized identity and applying those beliefs and feelings to the self (Earnshaw and Chaudoir, 2009; Link, 1987). Both people living with HIV and other sexually transmitted infections (STIs), such as gonorrhea, chlamydia, and syphilis, internalize stigma associated with HIV/STI (East et al., 2011; Lee et al., 2002; Newton and Mccabe, 2008). HIV internalized stigma is associated with greater depressive symptoms, longer medical care gaps, and lower likelihoods of medication

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initiation and adherence (Earnshaw et al., 2013c; Logie et al., 2018; Turan et al., 2016). Although internalized stigma is less studied in the context of other STIs, evidence suggests that STI stigma similarly undermines mental health and treatment-seeking behavior (Hood and Friedman, 2011; Lichtenstein, 2003).

Research that identifies risk factors for HIV/ STI internalized stigma can inform intervention efforts to address HIV/STI internalized stigma and ultimately enhance health outcomes among people diagnosed with HIV/STI. The weeks and months after an HIV/STI diagnosis are often critical windows for engagement in care and initiation of treatment (Workowski and Bolan, 2015), and emerging evidence suggests that HIV/STI internalized stigma is heightened immediately after acquiring an HIV/STI diagnosis (Eaton et al., 2018; Tsai et al., 2013). Yet, few studies have focused on internalized stigma among people who have recently been diagnosed with HIV/STI. This study is guided by intersectionality theory, which highlights that people live with multiple interconnected identities representing both marginalization and privilege (Cole, 2009; Crenshaw, 1991; hooks, 1990; Jones and McEwen, 2000; Rosenthal, 2016), and examines the extent to which internalized stigma associated with identities before HIV/STI diagnosis (i.e. race, sexual orientation) are associated with HIV/STI internalized stigma in the year following HIV/STI diagnosis. This study focuses on Black gay and bisexual men, as well as other men who have sex with men, which is the group most affected by HIV and other STIs in the United States (Centers for Disease Control and Prevention, 2017a, 2017b).

Stigmatized identity development

Most Black gay and bisexual men living with HIV/STI are diagnosed during adolescence and/or adulthood, and therefore gain the stigmatized identity of HIV/STI during their lives. For example, 98 percent of individuals newly diagnosed with HIV in the United States in 2016 acquired HIV through sexual contact and/ or drug use during adolescence or adulthood, and only 2 percent were born with HIV (Centers for Disease Control and Prevention, 2017a). Similarly, people living with many other stigmatized health conditions and identities (e.g. cancer, substance use disorder, tuberculosis, incarceration, sex work) gain their stigmatized identity after birth. Early stigma theory acknowledged variability in the course of stigma, including that the nature of stigma may change over time (Jones et al., 1984). Yet, limited research to date has been conducted on the process of developing an identity associated with a stigmatized health condition such as HIV/STI.

Theory and research from the literatures on racial and sexual orientation identity development provide insight into how stigma becomes internalized. Much of this work suggests that racial and sexual orientation identity occurs in stages, with individuals at greater risk of internalizing stigma at the beginning stages (Cass, 1984; Vandiver, 2001; Worrell et al., 2001). Individuals absorb stigma from the world around them, including stereotypes (i.e. group-based beliefs) and prejudice (i.e. negative feelings and attitudes) about their stigmatized identity. Knowledge of stereotypes and awareness of prejudice may come from media representations such as television shows; comments from others such as family, friends, and co-workers; as well as other sources (Quinn and Earnshaw, 2011). Early on in the formation of a stigmatized identity, individuals apply stereotypes and prejudice to the self and others with the stigmatized identity (Cass, 1984; Vandiver, 2001; Worrell et al., 2001). With time, individuals may move through additional stages of identity formation involving the development of more positive self-perceptions and the reduction of internalized stigma. There is some evidence to suggest that this process may generalize to developing a stigmatized identity associated with a health condition. For example, Black gay and bisexual men who endorse greater prejudice toward people living with HIV/STI before their HIV/STI diagnosis report greater HIV/STI internalized stigma after their HIV/STI diagnosis (Eaton et al., 2018).

The process of gaining a new stigmatized identity additionally occurs in the context of an individual's existing identities, and these existing identities may further influence the development of the stigmatized identity (Jones and McEwen, 2000).

Intersectionality of identities

Intersectionality theory emphasizes that people live with multiple interconnected identities representing both marginalization and privilege (Cole, 2009; Crenshaw, 1991; hooks, 1990; Jones and McEwen, 2000; Rosenthal, 2016). The interconnectedness means that each identity depends on and reflects the other identities, making it impossible to understand one identity without understanding how it relates to other identities (Jones and McEwen, 2000). Prior to being diagnosed with HIV/STI, Black gay and bisexual men have typically formed an identity incorporating their race and sexual orientation, and may have internalized stigma associated with these identities. Indeed, previous research suggests that some Black adolescents and young adults internalize racism (Williams and Williams-Morris, 2000), and that some young lesbian, gay, bisexual, and queer youth internalize sexual orientation stigma (Balaji et al., 2012; Meyer, 2003). Due to the interconnectedness of identities, the development of HIV/STI internalized stigma may be shaped, or influenced, by existing race and/or sexual orientation internalized stigma. Indeed, among Black gay and bisexual men who have been living with HIV, research suggests that experiences of race, sexual orientation, and HIV stigma are interrelated (Bowleg, 2013).

Hypotheses

To date, little known research has examined the process of how stigmatized identities develop after they are gained, including how HIV/STI internalized stigma develops after diagnosis. Guided by intersectionality theory, we hypothesize that race and sexual orientation internalized stigma pre-diagnosis are associated with HIV/STI internalized stigma post-diagnosis. We collapsed across HIV/STI diagnoses given theory and research suggesting that stigma has similar effects across stigmatized health conditions (Earnshaw et al., 2013a; Van Brakel, 2006), but explored whether the effects of race and sexual orientation stigma on HIV/STI internalized stigma were moderated by HIV versus STI diagnosis.

Methods

Procedures and participants

Participants were recruited from a longitudinal study of HIV/STI testing in the Atlanta, GA metropolitan area between April 2014 and February 2016. Participants of this parent study were recruited using online advertisements (e.g. dating apps, Craigslist, BGClive.com) and infield recruitment at gay-identified bars, clubs, parks, and sex parties. In total, 351 Black gay and bisexual men were tested for HIV and 271 were tested for STI (i.e. gonorrhea, chlamydia, syphilis) at four time points over the course of 1 year. Of these, 48 participants were newly diagnosed with HIV and 103 were newly diagnosed with gonorrhea, chlamydia, and/or syphilis. Participants who tested positive for HIV or STI were invited to participate in this study, wherein they were followed for 1 year postdiagnosis. Participants completed 14 assessments in total using audio computer-assisted self-interview software (ACASI), with one occurring pre-diagnosis, one occurring one week post-diagnosis, and 12 occurring each month post-diagnosis for 1 year. Participants were compensated US\$45 for their first assessment, including the pre-diagnosis assessment and HIV/STI testing, and US\$25 for each follow-up assessment.

Participants who tested positive for HIV/STI were paired with a project staff member, who helped them to identify and coordinate HIV/STI-related healthcare with a local health department, clinic, or private practice provider that best suited the needs of the participant. Project staff therefore coordinated linkage to

participants' initial treatment appointment. All participants provided written informed consent and all study procedures received ethics approval from the University of Connecticut Institutional Review Board (Protocol #H16-130).

Materials

At the baseline assessment, which occurred prediagnosis, participants self-reported socio-demographic information, depressive symptoms, and internalized race and sexual orientation stigma. Depressive symptoms were controlled for given previous research that suggests that depressive symptoms may play a role in leading to internalized stigma (Pantelic et al., 2015; Takada et al., 2014; Tsai et al., 2013). After the baseline assessment, HIV/STI testing was conducted. During follow-up assessments, which occurred postdiagnosis, participants self-reported internalized HIV/STI stigma.

Socio-demographics and depressive symptoms. Participants reported their age, education, income, and sexual orientation. In regression analyses, education was dichotomized to represent some college or more (1) versus high school degree or less (0), and dichotomized to represent income was >US\$21,000 annually (1) versus. Two dummy variables were used to represent sexual orientation, including bisexual (1) versus all other sexual orientations (0) and heterosexual (1) versus all other sexual orientations (0). Depressive symptoms were measured using the Center for Epidemiologic Studies Short Depression Scale (CESD-10; Andresen et al., 1994). Participants responded to 10 items regarding the frequency with which they experienced several symptoms within the past week, such as "In the past week, I was bothered by things that don't usually bother me." Responses were measured on a 4-point scale ranging from less than 1 day (0) to 5-7days (3). The scale had adequate internal reliability (Cronbach's alpha=0.81), and was summed to create a composite score. A cutoff for screening positive on depressive symptomology was created (score >10).

Internalized race stigma. Internalized race stigma was measured using items adapted from the Nadanolitization Scale (Taylor and Grundy, 1996). Participants responded to six items describing their feelings about their race, such as "I sometimes struggle with negative feelings about my race" and "I am proud of my race." Responses were measured on a 6-point scale ranging from strongly disagree (1) to strongly agree (6). Positively worded items were reversescored so that higher scores indicated greater internalized stigma. Preliminary analyses suggested that the scale had poor internal reliability. The positively worded items were deleted from the scale, resulting in a three-item measure with acceptable internal reliability (Cronbach's alpha = 0.70). These items were averaged to create a composite score.

Internalized sexual orientation stigma. Internalized sexual orientation stigma was measured using items adapted from the Revised Internalized Homophobia Scale (Herek et al., 2009). Participants responded to four items describing their feelings about being attracted to men, such as "I try not to be attracted to men in general." Responses were measured on a 6-point scale ranging from strongly disagree (1) to strongly agree (6). The scale had acceptable internal reliability (Cronbach's alpha=0.80), and items were averaged to create a composite score.

Internalized HIV/STI stigma. Internalized HIV/ STI stigma was measured using items from the HIV Stigma Mechanisms Scale (Earnshaw et al., 2013c), which were adapted for the target population based on formative work. Participants responded to four items describing their feelings about screening positive for HIV or another STI. Responses were measured on a sixpoint scale ranging from strongly disagree (1) to strongly agree (6). One positively worded item was reverse-scored so that higher scores indicated greater internalized stigma ("Screening positive for HIV (an STI) doesn't really bother me"). Preliminary analyses suggested that the internal reliability could be strengthened by deleting this positively worded item. The resulting three-item measure had acceptable internal reliability (Cronbach's alpha=0.68), and items were averaged to create a composite score. Items included: "Screening positive for HIV (an STI) makes me feel like I'm a bad person," "I feel I'm not as good as others because I screened positive for HIV (an STI)," and "I feel ashamed of having screened positive for HIV (an STI)."

Data analyses

All analyses were conducted in IBM SPSS Statistics version 24.0. Participant baseline characteristics, including socio-demographics, HIV/STI diagnosis, depressive symptoms, and race and sexual orientation internalized stigma were analyzed using descriptive analyses. Next, multilevel models (i.e. general linear mixed models) were conducted wherein repeated assessments were nested within participants (Hoffman, 2015). First, the effect of time (i.e. weeks since diagnosis) was modeled to describe within-person change in HIV/STI internalized stigma over the first year post-diagnosis. In addition, a scatterplot of the association between time and HIV/STI internalized stigma with a fitted LOESS curve was created to visualize changes in HIV/STI internalized stigma scores over the first year post-diagnosis. Second, race internalized stigma, sexual orientation internalized stigma, and HIV/STI diagnosis were examined as time-invariant predictors of HIV/ STI internalized stigma in three separate multilevel models. Each model included one of these variables (race internalized stigma, sexual orientation internalized stigma, or HIV/STI diagnosis) as a predictor of the intercept of HIV/STI internalized stigma (i.e. HIV/STI internalized stigma 1 week after diagnosis) as well as moderators of the linear and quadratic effects (i.e. time squared) of time. Third, control variables were added and a multivariable analysis was performed including all variables as predictors that were significantly associated with HIV/STI internalized stigma in previous analyses.

Finally, a moderation analysis was conducted to explore possible interactions between HIV/STI diagnosis, race internalized stigma, and/or sexual orientation internalized stigma. Continuous variables were centered for these analyses, and

products were created to represent interactions.

Results

Participant characteristics at baseline are included in Table 1. The 151 participants ranged in age from 18 to 53 years (M(SD) = 26.45(6.39)). Most participants (70.2%) had some college education or more, including a college degree and some graduate education. Approximately half (47.7%) of participants earned less than US\$10,000 per year, and 15.8 percent earned greater than US\$31,000 per year. Regarding sexual orientation, 40.4 percent of participants identified as gay or homosexual, 39.1 percent identified as bisexual, 12.6 percent identified as heterosexual, and 7.3 percent identified as same gender loving. Most participants (68.2%) were diagnosed with an STI other than HIV, with the remainder (31.8%) diagnosed with HIV. Average depressive symptoms were 8.64 (SD=6.19), and 31.3 percent (n=47) of participants met the cutoff for depressive symptomatology. Average race internalized stigma was 2.07 (SD=1.29) and average sexual orientation stigma was 2.66 (SD=1.45), indicating low internalized stigma among participants overall.

The effect of time was modeled to describe within-person change in HIV/STI internalized stigma over the first year post-diagnosis. The best-fitting model included the effects of time and time squared, with the intercept included as a random effect. The intercept indicated that participants scored an average of 2.65 (standard error (SE)=0.11; p < 0.01) on HIV/STI internalized stigma 1 week after diagnosis. The effect of time (B(SE) = -0.03(0.01), p < 0.01)and time squared (B(SE) = 0.01(0.01), p < 0.01)were statistically significant, demonstrating that HIV/STI internalized stigma proceeded to decrease over the first year post-diagnosis and that this decrease decelerated over time. The scatterplot of the association between time and

	M (SD)	% (n)
Socio-demographic characteristics		
Age	26.45 (6.39)	
Education		
High-school degree or less		29.8 (45)
Some college		47.7 (72)
College degree or more		22.5 (34)
Income		
<us\$10,000< td=""><td></td><td>47.7 (72)</td></us\$10,000<>		47.7 (72)
US\$11,000-30,000		36.4 (55)
>US\$31,000		15.8 (24)
Sexual orientation		
Gay/homosexual		40.4 (61)
Bisexual		39.1 (59)
Heterosexual		12.6 (19)
Same gender loving		7.3 (11)
Diagnosis		
STI		68.2 (103)
HIV		31.8 (48)
Depressive symptoms	8.64 (6.19)	
Intersecting internalized stigma	· · ·	
Race	2.07 (1.29)	
Sexual orientation	2.66 (1.45)	

Table 1. Participant characteristics at baseline (n = 151).

Percentages may not total to 100 due to missing data; age ranged 18–53; depressive symptoms ranged 0–27; internalized race and sexual orientation stigma ranged 1–6.

HIV/STI internalized stigma over the first year after diagnosis including the LOESS curve is included in Figure 1.

Race internalized stigma, sexual orientation internalized stigma, and HIV/STI diagnosis were included as time-invariant predictors of HIV/STI internalized stigma in three separate multilevel models. Race internalized stigma (B(SE) = 0.33(0.08), p < 0.01) and sexual orientation internalized stigma (B(SE)=0.17(0.07)), p < 0.01) were statistically significant predictors of the intercept of HIV/STI internalized stigma, indicating that participants who had higher race or sexual orientation internalized stigma before HIV/STI diagnosis had higher HIV/STI internalized stigma immediately after diagnosis. HIV/STI diagnosis did not predict the intercept of HIV/STI internalized stigma, suggesting that participants with HIV and STI diagnoses had similar levels of HIV/STI internalized stigma

immediately after HIV/STI diagnosis. Neither race internalized stigma, sexual orientation internalized stigma, nor HIV/STI diagnosis moderated the linear or quadratic effects of time on HIV/STI internalized stigma, indicating that the rate of change in HIV/STI internalized stigma over the first year post-diagnosis was not affected by these characteristics.

A multivariable model was conducted including all statistically significant predictors of HIV/ STI internalized stigma (Table 2). Education (B(SE) = -0.52(0.22), p=0.02) and depressive symptomatology (B(SE) = 0.33(0.08), p < 0.01)were the only participant characteristics at baseline that were associated with HIV/STI internalized stigma, and so were included in the analysis. In the multivariable model, the linear and quadratic effects of time remained associated with HIV/STI internalized stigma. In addition, race and sexual orientation internalized stigma

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Figure 1. Scatterplot of association between time and HIV/STI internalized stigma in first year after diagnosis, with fitted LOESS curve.

	В	SE	þ value
Intercept	2.66	0.20	< 0.01
Time	-0.03	0.01	<0.01
Time*Time	0.01	0.01	<0.01
Race internalized stigma	0.21	0.07	<0.01
Sexual orientation internalized stigma	0.11	0.06	0.05
Education	-0.33	0.17	0.06
Depressive symptomatology	0.03	0.01	0.05

 Table 2. Predictors of HIV/STI internalized stigma in first year after diagnosis.

Race internalized stigma and sexual orientation internalized stigma were centered. Education (0 = high school or less, I = some college or more) and depressive symptomatology (0 = no depressive symptomatology, I = depressive symptomatology) were dummy coded. Other socio-demographic characteristics and HIV/STI diagnosis were not associated with HIV/STI internalized stigma in preliminary analyses.

remained associated with HIV/STI internalized stigma. Depressive symptomatology was associated with HIV/STI internalized stigma, indicating that participants who had depressive symptomatology before HIV/STI diagnosis reported more HIV/STI internalized stigma after diagnosis. Education became marginally statistically significantly associated with HIV/STI internalized stigma after controlling for the effects of the other variables.

The moderation analysis included the same variables as the multivariable analysis, as well



Figure 2. Interaction between effect of race and sexual orientation internalized stigma on HIV/STI internalized stigma in first year after diagnosis.

as two-way interactions between race internalized stigma with sexual orientation internalized stigma, race internalized stigma with HIV/STI diagnosis, and sexual orientation internalized stigma with HIV/STI diagnosis, and a three-way interaction between race internalized stigma, sexual orientation internalized stigma, and HIV/STI diagnosis. The two-way interaction between race internalized stigma with sexual orientation internalized stigma approaching statistical significance was (B(SE) = -0.09(0.05), p = 0.08). All other interaction terms were nonstatistically significant (ps > 0.38). Figure 2 includes a graph of the interaction of the effect of race and sexual orientation internalized stigma on HIV/STI internalized stigma. Post hoc tests were performed to test the association between race internalized stigma and HIV/STI internalized stigma among participants with below average (i.e. below the mean) and above average (i.e. above the mean) sexual orientation internalized stigma. Among participants with below average sexual orientation internalized stigma, greater race internalized stigma was associated with greater HIV/STI internalized stigma (B(SE) = 0.33(0.09), p < 0.001). Yet, among participants with above average sexual orientation internalized stigma, race internalized

stigma was not associated with greater HIV/ STI internalized stigma (B(SE) = 0.10(0.09), p = 0.28).

Discussion

To date, research on the process of how internalized stigma associated with a health condition develops is very limited. No known quantitative studies have examined the extent to which internalized stigma associated with identities existing before HIV/STI diagnosis is associated with HIV/STI internalized stigma after HIV/STI diagnosis. Previous research guided by intersectionality theory suggests that experiences of race, sexual orientation, and HIV stigma are interrelated among Black gay and bisexual men who have been living with HIV (Bowleg, 2013). Results of this study extend this research and suggest that internalized stigma associated with race, sexual orientation, and HIV/STI stigma are interconnected across the span of HIV/STI diagnosis. More specifically, Black gay and bisexual men who internalized more race and sexual orientation stigma before HIV/STI diagnosis internalized more HIV/STI stigma after HIV/STI diagnosis. These associations were not moderated by HIV/STI diagnosis, suggesting that effects were similar for Black gay and bisexual

men diagnosed with HIV versus another STI. Moreover, a marginally significant interaction was found between race and sexual orientation stigma, indicating that the association between race internalized stigma and HIV/STI internalized stigma may be stronger among participants with lower sexual orientation stigma. This may be due to a ceiling effect, wherein race internalized stigma has a smaller effect on HIV/STI internalized stigma among individuals who have internalized sexual orientation to a greater extent. This result should be interpreted with caution, however, given that the interaction was only approaching statistical significance. Future research is needed to replicate this finding and explore its meaning.

This work contributes to understanding of the process of stigmatized identity development. Past theory and research has suggested that internalized stigma stems largely from absorbing stigma, including stereotypes and prejudice, from the world surrounding individuals (Cass, 1984; Quinn and Earnshaw, 2011; Vandiver, 2001; Worrell et al., 2001). Individuals may learn about HIV/STI stereotypes from and observe HIV/STI prejudice in negative media representations of people living with HIV/STI, negative comments from other individuals about people living with HIV/STI, and other sources long before they are diagnosed with HIV/STI. These stereotypes and prejudice may become the foundations of internalized stigma once HIV/STI has been diagnosed. Indeed, recent research has confirmed that Black gay and bisexual men who endorse greater prejudice toward people living with HIV/STI before they are diagnosed with HIV/STI internalize greater HIV/STI stigma after they are diagnosed (Eaton et al., 2018).

Yet, these results highlight an additional risk factor for internalized stigma among people newly diagnosed with HIV/STI: internalized stigma associated with other identities. This is consistent with intersectionality theory, which suggests that people's identities are interconnected and therefore may shape, or influence, each other. Thus, individuals' experiences of stigma associated with pre-existing identities may shape their experiences of stigma associated with new identities. Greater research employing an intersectionality lens is needed to understand how new identities associated with health conditions develop in the context of pre-existing stigidentities matized including race. sexual orientation, and others. This is particularly important given that the time immediately after gaining a health condition may be a vulnerable period. For example, as shown in this study and others, internalized stigma appears to be heightened immediately after being diagnosed with HIV/STI (Tsai et al., 2013). Moreover, the time immediately after being diagnosed with a health condition is often a critical window for engagement in care and initiation of treatment.

Strengths, limitations, and future directions

This study drew on prospective, longitudinal data spanning immediately before and the first year following HIV/STI diagnosis. It is the first known study to quantitatively examine the extent to which internalized stigma associated with identities before HIV/STI diagnosis is associated with HIV/STI internalized stigma after HIV/STI diagnosis. Yet, a relatively small sample of Black gay and bisexual men in the Atlanta, GA metropolitan area of the United States was included in this study. Future research is needed to determine the extent to which findings generalize to more diverse samples and geographic locations. We collapsed across HIV and several other STIs and examined internalized stigma among Black gay and bisexual men diagnosed with HIV or another STI. This is consistent with theory and previous research suggesting that stigma has similar effects across stigmatized health conditions (Earnshaw et al., 2013b; Van Brakel, 2006). Moreover, results of this study suggest that diagnosis of HIV versus STI did not moderate the associations between race and/or sexual orientation internalized stigma with HIV/STI internalized stigma. There are several similarities in stigma associated with HIV and other STIs (e.g. both are perceived to be controllable, gained during one's lifetime, and concealable). Yet, there are also key differences in stigma associated with HIV versus other STIs that may be curable or not perceived to be as great of a threat to others. Future researchers may continue to examine similarities and differences in internalized stigma among Black gay and bisexual men newly diagnosed with HIV versus other STIs.

Future research may continue to examine other risk factors for HIV/STI internalized stigma among Black gay and bisexual men and other people living with HIV/STI, including internalized stigma associated with other identities (e.g. drug use, sex work, incarceration) to build a more comprehensive understanding of risk factors for internalizing HIV/STI stigma. Research may also explore the magnitude, or importance, of the new stigmatized identity, and how this relates to wellbeing. Such research can contribute to greater understanding of the process of stigmatized identity development.

Conclusions and implications

This study suggests that internalized stigma prior to HIV/STI diagnosis is associated with HIV/ STI internalized stigma after diagnosis among Black gay and bisexual men. Interventions that address internalized stigma among Black gay and bisexual men may therefore prevent, or attenuate, HIV/STI internalized stigma among Black gay and bisexual men who are diagnosed with HIV/STI during their lifetime. Given that the majority of Black gay and bisexual men living with HIV are diagnosed between 13 and 34 years old (Centers for Disease Control and Prevention, 2017a), and STIs show similar trends, interventions to address other forms of internalized stigma should be introduced during childhood and adolescence. Some evidence suggests that interventions that foster pride, empowerment, and self-esteem may reduce internalized stigma (Corrigan et al., 2013; Earnshaw et al., 2013a). It may be possible to deliver these interventions within familial settings, by involving parents, and schools, by involving teachers and other school staff (Earnshaw et al., 2013a;

Earnshaw et al., 2018). Clinicians may also play a role in screening youth for internalized stigma and its negative consequences (e.g. depressive symptoms), and referring them to mental healthcare. Cognitive-behavioral stress management appears to be effective for addressing stigma among young adults experiencing sexual minority stigma and may be adapted for youth (Pachankis et al., 2015). It is critical to address race and sexual orientation internalized stigma among young Black gay and bisexual men to promote their wellbeing across the lifespan.

In addition, intersectionality theory emphasizes that social processes are intertwined with individual-level processes. Thus, stigma, which is a social process (Link & Phelan, 2001), is intertwined with individuals' experiences of internalized stigma. It is therefore critical to develop strategies to eliminate stigma associated with HIV/STI, race, and sexual orientation at the social level to prevent individuals from internalizing stigma associated with HIV/STI, race, and sexual orientation.

Declaration of Conflicting Interests

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