HIV-Related Stigma by Healthcare Providers in the United States: A Systematic Review

Angelica Geter, DrPH, MPH, Adrienne R. Herron, PhD, MA, and Madeline Y. Sutton, MD, MPH

Abstract

Reducing HIV-related stigma may enhance the quality of HIV prevention and care services and is a national prevention goal. The objective of this systematic review was to identify studies of HIV-related stigma among healthcare providers. For studies published between 2010 and 2017, we: (1) searched databases using our keywords, (2) excluded nonpeer reviewed studies, (3) limited the findings to the provider perspective and studies conducted in the United States, (4) extracted and summarized the data, and (5) conducted a contextual review to identify common themes. Of 619 studies retrieved, 6 were included, with 3 themes identified: (1) attitudes, beliefs, and behaviors ($n=6$), (2) quality of patient care ($n=3$), and (3) education and training ($n=2$). Factors associated with HIV-related stigma varied by gender, race, provider category, and clinical setting. Providers with limited recent HIV-stigma training were more likely to exhibit stigmatizing behaviors toward patients. Developing provider-centered stigma-reduction interventions may help advance national HIV prevention and care goals.

Keywords: HIV-related stigma, HIV-related discrimination, healthcare providers, persons living with HIV, persons at risk for HIV

Introduction

MORE THAN THREE DECADES have passed since HIV was identified in the United States, and more than 1.2 million people in the United States are living with HIV infection.¹ Although surveillance data show an annual decline in HIV diagnoses from 2010 to 2014, more than 39,000 new cases of HIV are diagnosed each year in the United States.² Advances in antiretroviral therapies have prolonged the lives of persons living with HIV (PLWH) and reduced their chances of transmitting HIV to their sexual partners. For persons at high risk for HIV and PLWH, the development of biomedical preventive therapies such as pre-exposure prophylaxis (PrEP), treatment as prevention, and other evidence-based interventions have decreased their likelihood of acquiring or transmitting the disease.³ Despite this progress in public health innovations to address the spread of HIV, factors that prevent or limit patients' access to HIV services remain.

National strategies to prevent new HIV infections and ensure that PLWH are linked to and retained in care have

identified HIV-related stigma as a primary barrier to seeking HIV services.⁴ Patients seeking preventive services and PLWH seeking treatment services have encountered HIV-related stigma from healthcare providers in both traditional (clinical) and nontraditional (community-based) settings. The experience of HIV-related stigma has been associated with decreased HIV testing, condom use, PrEP uptake, medication adherence, linkage to care, and retention in care, which are all essential components of the HIV care continuum.⁵ Although patients' perspectives of HIV-related stigma have been studied,^{6–8} evidence regarding providers' perspectives is limited.⁹

National HIV screening recommendations place healthcare providers at the helm in the fight against HIV. Healthcare providers lead patients through the HIV care continuum with the goal of ensuring high quality prevention and care and reduced morbidity and mortality for patients. However, stigmatizing attitudes, beliefs, and behaviors toward vulnerable populations and PLWH can impede progress in identifying undiagnosed persons with HIV, linking patients to quality care, prescribing HIV treatment, and increasing the

Division of HIV/AIDS Prevention, Centers for Disease Control and Prevention, Atlanta, Georgia.

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number of PLWH who are virally suppressed.⁷ Research on this topic could inform the development of interventions to reduce HIV-related stigma as a barrier to care. Therefore, the purpose of this systematic review was to examine HIV-related stigma by healthcare providers in the United States, to inform the development of stigma-reduction interventions for healthcare providers.

Materials and Methods

Studies were identified through a systematic search of PubMed, PsycINFO, OVID/Medline, and ProQuest. We searched for studies that focused on HIV and healthcare providers, published between January 2010 and July 2017. The following standardized search terms were used across all databases: “HIV,” “HIV-related stigma,” “stigma,” “social stigma,” “discrimination,” “social discrimination,” “health personnel,” and “healthcare providers.” Duplicate search results were removed, and unpublished dissertations, editorials, commentaries, and studies conducted outside of the United States were excluded from the review. We reviewed titles and abstracts of the search results to determine if the articles addressed the provider perspective of HIV-related stigma. Then, we limited the results to the following key words: (1) HIV, (2) stigma, (3) discrimination, and (4) healthcare providers. A full-text review was conducted on published quantitative and qualitative research studies that met the a priori inclusion criteria. Two trained reviewers (A.G. and A.R.H.) independently abstracted information from eligible studies. Each of the reviewers summarized these data in a table that highlighted the author names, year, location, study design, sample size, demographics, age, and major findings (Table 1).

Results

Results from the systematic review are presented (Fig. 1). Six of 619 articles, unique to provider perspectives of HIV-related stigma, met the inclusion criteria and were included in the final review. Study sample sizes ranged from 14 to 651 providers. The studies were located across the United States and Puerto Rico. Healthcare settings for the articles included HIV clinics, healthcare centers, correctional facilities, community based organizations, and primary care clinics. Three overarching themes were identified related to HIV-related stigma by healthcare providers: (1) attitudes, beliefs, and behaviors, (2) quality of patient care, and (3) education and training.

Attitudes, beliefs, and behaviors

Six articles discussed provider attitudes, beliefs, and behaviors associated with HIV-related stigma, including homophobia, transphobia, and racism.^{9–14} The frequency of HIV-related stigma among providers varied by setting and provider category. In three studies, researchers identified at least one stigmatizing attitude toward PLWH or persons at risk for HIV.^{10–12} Factors associated with stigmatizing behaviors, attitudes, or beliefs varied by gender, race, religion, provider category (e.g., nurses, nurse practitioners, and primary care physicians), and clinical setting^{9–14} and were primarily among white, male, primary care physicians and providers with limited or no HIV-stigma training in the past

12 months.^{10–12} Some findings suggest that patients are often stigmatized as being poor, having a high number of sexual partners in their lifetime,¹⁰ and frequently engaging in other risky sexual behavior.^{10,14} Providers also believed that these stigmatizing beliefs and behaviors were based on historically negative portrayals of persons at risk for HIV, PLWH,¹⁰ and persons who seek HIV prevention and care services.¹⁴ HIV-related stigma exhibited by providers was less likely among those who worked in settings where policies focused on HIV-related stigma were reinforced.¹²

Quality of patient care

Three studies examined how provider stigma toward PLWH or persons at risk for HIV could affect patient care.^{10–12} Provider fear of acquiring HIV through occupational exposure led to reduced quality of care, refusal of care, and anxiety when providing services to PLWH.¹⁰ This fear was higher among providers with limited awareness of or access to post-exposure prophylaxis within their healthcare setting or clinic.¹² Moreover, patient-provider discordance in the prioritization of addressing HIV-related stigma over other healthcare needs led to reduced quality of care or patient satisfaction.¹¹

Education and training

Two articles examined education and training of health professionals.^{10,12} Davtyan et al.¹⁰ identified that limited opportunities for clinical education and practice for non-HIV specialty doctors facilitated provider HIV-related stigma. Stringer et al.¹² found lower rates of stigmatizing attitudes among healthcare providers who received HIV stigma training in the past 12 months.

Discussion

Reducing HIV-related stigma to combat new HIV infections and increase linkage and retention is a national HIV prevention goal.⁴ We identified six articles that assessed social and structural factors contributing to HIV-related stigma from the healthcare provider perspective. Three overarching themes contributed to, or were affected by, HIV-related stigma by healthcare providers: (1) attitudes, beliefs, and behaviors, (2) quality of patient care, and (3) education and training.

This review is unique, because it summarizes literature with a focus solely on healthcare providers. Another recently published review included mostly articles that assessed patients' perspectives of healthcare providers and HIV-related stigma.⁸ The small sample of studies underscores the need for more research from the healthcare provider perspective to help inform prevention interventions. These findings also suggest a relationship between stigma by healthcare providers and diminished quality of care, factors that could hinder progress in reaching national HIV prevention goals.

Our review showed that stigma can be manifested through inadvertent behaviors and ideologies, such as homophobia, transphobia, racism, and negative views of persons who inject drugs, and can create uncomfortable environments and act as a barrier to HIV prevention, treatment, and care.^{10,14} Less stigmatizing attitudes by providers⁷ can help to reduce social and structural barriers to HIV care across the

TABLE 1. SYSTEMATIC REVIEW FINDINGS OF SOCIAL AND STRUCTURAL BARRIERS AND FACILITATORS CONTRIBUTING TO HIV-RELATED STIGMA AMONG HEALTHCARE PROVIDERS

<i>First author</i>	<i>Study design^a</i>	<i>Location</i>	<i>Sample size</i>	<i>Healthcare setting</i>	<i>Health provider category (%)</i>	<i>Social and system level barriers and facilitators of provider HIV-related stigma</i>
Belenko et al. ⁹	Primary, survey data collection	National, United States	218	Jails and prisons	Correctional administration (16%) Correctional security staff (4%) Medical staff (42%) Substance abuse counseling staff (11%) Community-based organization HIV service providers (15%) Other (12%)	Attitudes, beliefs, and behaviors <ul style="list-style-type: none"> • Higher levels of perceived stigma among corrections in treatment staff compared to community staff [$F_{(1,156)} = 9.46, p < 0.01$] • Blame, shame, and judgment were correlated with staff support of prejudice and discrimination policies ($r = 0.57, p < 0.001$)
Davtyan et al. ¹⁰	Primary, qualitative semistructured interviews	Western, United States	27	University-based Healthcare Center	Physicians (63%) Nurses (33%) Medical assistant (4%)	Attitudes, beliefs, and behaviors <ul style="list-style-type: none"> • Historical negative depictions and perceptions of PLWH • Homophobia, transphobia, racism, and negative views of intravenous drug users • Inadvertent behaviors Quality of patient care <ul style="list-style-type: none"> • Fear of occupational exposure to HIV led to reduced quality of patient care Education and training <ul style="list-style-type: none"> • Lack of knowledge of HIV transmission, prevention, and care • Fear of HIV transmission when administering care • Lack of provider training in care services for PLWH • Reduced opportunities for clinical education and practice for nonspecialists
Fredericksen et al. ¹¹	Primary, mixed methods	National, United States	74	HIV Clinics	Attending physicians (77%) Fellows (14%) Nurses (7%) Other (8%)	Attitudes, beliefs, and behaviors <ul style="list-style-type: none"> • Providers exhibited at least one stigmatizing attitude toward PLWH or persons at risk for HIV Quality of patient care <ul style="list-style-type: none"> • Providers did not rank stigma as priority in the HIV care and treatment

(continued)

TABLE 1. (CONTINUED)

<i>First author</i>	<i>Study design^a</i>	<i>Location</i>	<i>Sample size</i>	<i>Healthcare setting</i>	<i>Health provider category (%)</i>	<i>Social and system level barriers and facilitators of provider HIV-related stigma</i>
Stringer et al. ¹²	Primary, survey data collection	Southeastern, United States	651	Urban Health Centers, Primary Care Clinics, HIV/STI Clinics	Clinicians and clinical support staff (39%) Social/community workers (31%) Administrative staff (21%) Other (8%) Unreported (1%)	Attitudes, beliefs, and behaviors <ul style="list-style-type: none"> • Majority of providers endorsed at least one stigmatizing attitude toward PLWH • Stigma varied by clinical setting • Concerning policy-level predictors, those working in a facility in which policies regarding HIV-related stigma are enforced reported lower levels of HIV-related stigmatizing attitudes • Male white providers and those who work in HIV/sexually transmitted infection clinics were significantly more likely to hold stigmatizing attitudes toward PLWH Quality of patient care <ul style="list-style-type: none"> • Healthcare providers with limited access to post-exposure prophylaxis within their work setting exhibited higher levels of HIV-related stigma Education and training <ul style="list-style-type: none"> • Healthcare providers with training in HIV stigma in the past 12 months had lower rates of stigmatizing attitudes
Varas-Diaz et al. ¹³	Primary, mixed methods	Puerto Rico	Stage I = 80 Stage II = 421	Public health institutions, community based organizations, and academic programs	Stage I: Health professionals (50%), Health professionals in training (50%); Stage II: Health professionals in training (100%)	Attitudes, beliefs, and behaviors <ul style="list-style-type: none"> • Provider narratives show clearly that religious values can result in ambivalence when interacting with PLWH • Religious beliefs are intertwined with overall conceptualizations of health, illness, and service provision for PLWH in this setting • Providers who identified that religion was important to them showed the highest levels of HIV/AIDS stigma
Walcott et al. ¹⁴	Primary, qualitative interviews and focus groups	Southern, United States	14	HIV clinics and residential facilities	Directors; Social workers; Managers; Chaplain; HIV peer educators (23%)	Attitudes, beliefs, and behaviors <ul style="list-style-type: none"> • Perception of substandard care in public HIV treatment and care facilities • Perception of substandard care in public health departments • Perception of potential unwanted disclosure in facilities designated for HIV treatment and care

^aPrimary refers to primary data collection.
PLWH, persons living with HIV.

FIG. 1. Selection process for systematic review of the literature, HIV-related stigma, and healthcare providers, 2010–2017.

*The literature search included the following databases: PubMed, PsycINFO, Embase, OVID/Medline, ProQuest and Google Scholar; **Multiple themes were identified in each article.

continuum. Interventions that increase introspection, cultural awareness, and sensitivity of providers can help decrease biases and support improved care outcomes for PLWH and people at risk of HIV infection.^{15,16} Online assessments, such as the Teach Tolerance survey, “Test Yourself for Hidden Bias,”¹⁷ allow providers to privately examine themselves for implicit biases and then begin the process of understanding their personal context even as they try to improve as providers. In addition, hiring a diversified workforce, reorganizing the staff structure to effectively meet the needs of the care setting, and training for providers help to facilitate care approaches that are comprehensive and sensitive to a broad range of people.¹⁸

Policies, like opt-out testing, help to reduce stigma by normalizing HIV testing and by removing risk-based screening practices; this can help to positively impact public health by reducing testing barriers and increasing the numbers of persons who are routinely tested for HIV infection.¹⁰ However, even with universal HIV testing strategies, stigma-based challenges to HIV testing and care often remain, due to concerns with negative treatment by some providers and office staff and privacy and confidentiality concerns. Healthcare providers have an “ethical obligation to provide optimum confidential care to all individuals without judgment about their gender identity, sexual orientation, or life

choices and behaviors,”¹⁹ but too often that obligation does not translate to the direct patient care setting. If we are to successfully reach national HIV prevention goals, reducing stigma (real and perceived by patients) by healthcare providers is vital.

There may also be lessons to be learned directly from patients who present for HIV care. In some clinical settings, offering patients the opportunity to provide feedback not only helps patients feel heard and supported but also provides healthcare providers and administrators with quality improvement data that can constructively inform processes and strengthen patient care.²⁰ Using innovative strategies to identify and collect feedback from patients who are not in clinical HIV care (e.g., participants of community-based programs that actively engage PLWH and persons who are vulnerable for HIV) could also be very informative. These innovations should be based on collective and timely data from patients and new trainings implemented and designed by public health professionals, health educators, and other health providers. Moreover, policies and procedures, collaboratively developed by healthcare providers, public health professionals, and legislators, should be implemented. Once found to be effective, these new trainings, policies, and procedures for providers could potentially increase access to HIV care and services and improve the initiation and

adherence to behavioral and biomedical interventions among patients.⁸

HIV-related stigma continues to be a prevalent issue for PLWH and people who are vulnerable for HIV. Their encounters with HIV-related stigma range from providers who take extreme precautionary measures during routine examinations to use of stigmatizing language, to denial of services and treatment.¹¹ Better understanding of the ways in which healthcare provider stigma may influence HIV care can inform prevention interventions and policies in various healthcare settings.¹⁴ Understanding and addressing healthcare provider stigma will potentially have an effect on HIV engagement and care by allowing patients to feel more supported during their HIV diagnoses and lifetime of HIV-related medical interactions.

Given the disproportionate burden of HIV-related stigma in the United States, the development of interventions²¹ that decrease healthcare provider stigma, increase healthcare provider awareness of stigma, and establish the presence of clinical policies to address HIV-related stigma are warranted. These efforts would bring us closer to reaching national HIV prevention goals to reduce stigma and establish competent and responsive HIV treatment and care.⁴

Limitations

This review has limitations. First, three of six (50%) studies included small sample sizes ($n < 100$ persons); larger samples of providers will be needed for future studies to provide more robust analyses and may be more generalizable. Second, social desirability and personal bias may have played a role in provider responses. The use of computer-assisted quantitative surveys may offer additional privacy and decrease this type of bias. Third, factors such as geographic location (cosmopolitan vs. insular) may play a role in the perspective of healthcare providers and access to care for HIV-positive patients, especially those who reside in the southern United States, an area in which the context of institutionalized racism and discrimination may create additional barriers to care. When developing surveys and measuring HIV disparities, particularly when addressing disparities among populations who have experienced ongoing marginalization (e.g., African Americans, Hispanics/Latinos, and other persons of color, especially those who reside in the Southern United States), it is essential to acknowledge and measure the effects of racism and discrimination and how those factors could impact their risk for HIV and utilization of HIV prevention, treatment, and care services. This context should be considered, and potential biases accounted for, as surveys are being developed and implemented with providers in the United States. Fourth, the authors only assessed peer-reviewed articles published in the last 8 years. This time frame was chosen in an effort to isolate more recent healthcare provider studies relating to biomedical interventions such as PrEP and to assess more up-to-date literature. Finally, the data are limited to studies conducted in the United States and do not include lessons learned from countries with limited resources, yet innovative approaches to addressing HIV-related stigma were exhibited by healthcare providers.²²

Author Disclosure Statement

No competing financial interests exist.

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Address correspondence to:
 Angelica Geter, DrPH, MPH
 Division of HIV/AIDS Prevention
 Centers for Disease Control and Prevention
 1600 Clifton Road NE MS E-45
 Atlanta, GA 30333

E-mail: hyt7@cdc.gov