Sexual risk behaviors and HIV risk among Americans aged 50 years or older: a review

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Abstract: Although HIV-related sexual risk behaviors have been studied extensively in adolescents and young adults, there is limited information about these behaviors among older Americans, which make up a growing segment of the US population and an understudied population. This review of the literature dealing with sexual behaviors that increase the risk of becoming HIV-infected found a low prevalence of condom use among older adults, even when not in a long-term relationship with a single partner. A seminal study by Schick et al published in 2010 reported that the prevalence of condom use at last intercourse was highest among those aged 50–59 years (24.3%; 95% confidence interval, 15.6–35.8) and declined with age, with a 17.1% prevalence among those aged 60–69 years (17.1%; 95% confidence interval, 7.3–34.2). Studies have shown that older Americans may underestimate their risk of becoming HIV-infected. Substance use also increases the risk for sexual risk behaviors, and studies have indicated that the prevalence of substance use among older adults has increased in the past decade. As is the case with younger adults, the prevalence of HIV infections is elevated among ethnic minorities, drug users (eg, injection drug users), and men who have sex with men. When infected, older adults are likely to be diagnosed with HIV-related medical disorders later in the course of illness compared with their younger counterparts. Physicians are less likely to discuss sexual risk behaviors with older adults and to test them for HIV compared with younger adults. Thus, it is important to educate clinicians about sexual risk behaviors in the older age group and to design preventive interventions specifically designed for older adults.

Keywords: HIV/AIDS, older adults, aging, sexual risk behaviors, condom use

Introduction

The literature dealing with HIV-related sexual risk behaviors in US populations has focused predominantly on adolescents and young adults. However, American adults are living longer and healthier lives, and many spend greater portions of their lives as sexually active individuals.1 In 2013, an estimated 4.2 million people aged 50 years and older were HIV-infected according to UNAIDS 2013 HIV estimates.2 The aim of this review is to provide an update of the literature dealing with sexual risk behaviors of Americans aged 50 years or older to inform research and prevention efforts targeting this population. Although we refer to Americans aged 50 years or older in the title of this article, there are a variety of definitions of older adults in the literature, with some studies focusing on older (eg, aged 65 years or older) and others focusing on younger (eg, aged 50 years or older) cohorts. This review is limited to research published in the last 10 years (2004–2014).

Sexual problems in older adults may be understood as the outcome of a complex system of biological, psychological, and cultural factors.3 Although sexual activity declines...
with age, a substantial proportion of older Americans remain sexually active after age 65 years. According to a survey of a probability sample of 3,005 US adults aged 57–85 years, 83.7%, 67.0%, and 38.5% of men aged 57–64, 65–74, and 75–85 years, respectively; and 61.6%, 39.5%, and 16.7% of women aged 57–64, 65–74, and 75–85 years, respectively, reported sexual activity with a partner in the previous 12 months. In this survey, women were less likely to have a spouse or intimate partner than men (eg, among those aged 75–85 years, 78% and 40% of men and women, respectively, reported having a spousal or other intimate relationship). Several factors may explain this sex discrepancy, including age differentials (on average, men are married to younger women), differential remarriage patterns, the shorter lifespan of men compared with women, and a differential level of interest (eg, older men are more likely to remain interested and to engage in sexual activity than older women).

The US Centers for Disease Control and Prevention (CDC) estimates that in 2011, there were 3,951 new HIV cases in the United States among adults aged 50–54 years, 2,312 cases among those aged 55–59 years, 1,229 cases among those aged 60–64 years, and 948 cases among those aged 65 years and older (Figure 1).

As shown in Table 1, reproduced from data provided by the CDC, rates of diagnoses of new HIV infections (per 100,000 among US adults aged 50 years and older) in 2010 were highest among blacks/African Americans (41.6) and lowest among Asians (2.6), with other races/ethnicities having rates ranging from 3.1 (Native Hawaiian/Pacific Islander) to 15.4 (Hispanic/Latino) compared with 3.9 among whites.

Some studies suggest that older Americans are more likely to receive a late HIV diagnosis compared with their younger counterparts, and the same pattern has been noted in the United Kingdom, thus limiting their exposure to early treatment and increasing the likelihood of greater morbidity. Thus, the United States faces an important public health problem, including a rising number of older HIV-infected adults and an increasing number of HIV infections among some older population groups, such as blacks, Hispanics, recreational drug users, and men who have sex with men (MSM). Further, older men may remain sexually active longer, using erectile dysfunction medications. A study indicated that 17% of men aged 50 years or older used erectile medication during their most recent sexual event.

Methods

The following terms were used to search the literature using Ovid MEDLINE® (a software package we used because it is available to Columbia University faculty and students and is also available in many US universities; Figure 2): “Unsafe Sex” and “All Aged (65 and older).” The latter term was used because it is included in the software package, but this search term does not exclude publications focusing on various age ranges (eg, “50 or older” or “55 or older”), as long as those aged 65 years and older are included. In addition to using the terms mentioned here, we used the following inclusion criteria: published in English and published in the last
Table 1  Diagnoses of HIV infection among adults aged 50 years and older by age at diagnosis (years) and race ethnicity

| Characteristic                          | 2007 No | Estimated* No | 2008 No | Estimated* No | 2009 No | Estimated* No | 2010 No | Estimated* No |
|----------------------------------------|---------|---------------|---------|---------------|---------|---------------|---------|---------------|
|                                        | Rate    |               | Rate    |               | Rate    |               | Rate    |               |
| Age at diagnosis, years                |         |               |         |               |         |               |         |               |
| 50–54                                  | 3,583   | 3,708         | 18.6    | 3,372         | 3,558   | 17.5          | 3,276   | 3,568         |
|                                        |         |               |         |               |         |               |         |               |
| 55–59                                  | 1,996   | 2,062         | 11.9    | 1,998         | 2,106   | 12.0          | 1,924   | 2,091         |
|                                        |         |               |         |               |         |               |         |               |
| 60–64                                  | 952     | 982           | 7.2     | 991           | 1,040   | 7.3           | 890     | 961           |
|                                        |         |               |         |               |         |               |         |               |
| 65–69                                  | 502     | 519           | 5.1     | 479           | 508     | 4.7           | 425     | 462           |
|                                        |         |               |         |               |         |               |         |               |
| 70–74                                  | 205     | 212           | 2.6     | 173           | 181     | 2.2           | 193     | 210           |
|                                        |         |               |         |               |         |               |         |               |
| 75–79                                  | 97      | 100           | 1.4     | 86            | 90      | 1.3           | 83      | 90            |
|                                        |         |               |         |               |         |               |         |               |
| 80–84                                  | 27      | 28            | 0.5     | 25            | 26      | 0.5           | 28      | 30            |
|                                        |         |               |         |               |         |               |         |               |
| ≥85 Renoshoke October 2014.4                                                                  
| Race/ethnicity                          |         |               |         |               |         |               |         |               |
| American Indian/Alaska Native           | 30      | 31            | 5.8     | 34            | 35      | 6.4           | 24      | 25            |
| Asian                                  | 79      | 82            | 2.8     | 71            | 74      | 2.4           | 72      | 80            |
| Black/African American                  | 3,426   | 3,542         | 43.6    | 3,503         | 3,696   | 44.0          | 3,244   | 3,519         |
| Hispanic/Latino§                        | 1,154   | 1,200         | 17.0    | 989           | 1,052   | 14.1          | 1,036   | 1,141         |
| Native Hawaiian/other                   | 11      | 11            | 18.8    | 6             | 6       | 9.6           | 9       | 9             |
| Pacific Islander                        | 2,547   | 2,625         | 3.9     | 2,418         | 2,536   | 3.7           | 2,333   | 2,526         |
| White                                  | 124     | 129           | 22.0    | 114           | 123     | 20.0          | 104     | 115           |
| Multiple races                          | 26      | 28            | 0.5     | 25            | 26      | 0.5           | 28      | 30            |
| Total§                                 | 7,371   | 7,620         | 8.8     | 7,135         | 7,523   | 8.4           | 6,822   | 7,415         |

Notes: *Estimated numbers resulted from statistical adjustment that accounted for reporting delays and missing risk factor information, but not for incomplete reporting; #rates are per 100,000 population; ‡Hispanics/Latinos can be of any race. Because column totals for estimated numbers were calculated independent of the values for the subpopulations, the values in each column may not sum to the column total. Adapted from Table 1a from the Centers for Disease Control and Prevention. Diagnoses of HIV infection among adults aged 50 years and older in the United States and dependent areas, 2007–2010. Hiv Surveillance Supplemental Report 2013. Atlanta, GA: Centers for Disease Control and Prevention; 2013. Available from: http://www.cdc.gov/hiv/pdf/statistics_2010_Hiv_Surveillance_Report_vol_18_no_3.pdf. Accessed October 27, 2014.
10 years. Finally, we manually excluded publications focusing on non-US samples. The search strategy is described in detail in Figure 2. With the exception of the manual exclusion of publications focusing on non-US samples, the search strategy is reproducible by readers with access to Ovid MEDLINE® and other software packages that use similar search terms. Among the 1,335 papers dealing with unsafe sex and published in English in the last 10 years, only 129 focused on older individuals; of them, 76 focused on studies of older American adults. Because more than half of these papers dealt marginally, if at all, with sexual risk behaviors among older American adults, references from these papers were selectively explored, leading to the review of additional publications, including a few published more than 10 years ago.

Results

We present results of the literature review focusing on five distinct themes: sex, ethnicity, and health status as they relate to the risk of becoming HIV-infected among older adults; sexual behavior of older adults with emphasis on condom use because of the pivotal role of condom use in the prevention of HIV infections; sexual risk behaviors of older American women; sexual risk behaviors of older MSM, also discussed separately because of the high incidence of HIV/AIDS among MSM; substance use/abuse among older adults, with special attention to the association with high-risk sexual behaviors; and HIV-infected older adults.

To provide context, we also discuss the correlates of high-risk sexual behaviors in the general population (ie, regardless of age). Prominent among these correlates is race/ethnicity. Estimates of HIV prevalence have shown that blacks are overrepresented among HIV-positive Americans in general and among MSM in particular, and this is true among older Americans as well.11–14 Sex and sexual orientation are also associated with HIV acquisition, with a high prevalence in the United States among males in general and MSM in particular.12,14

Sex, ethnicity, and health

The distribution of prevalent HIV-infected cases in the United States is skewed, with males accounting for 80% of incident cases in 2010.15 MSM are at increased risk of becoming HIV-infected compared with the general US population.13,15 There are large ethnic disparities in HIV incidence and prevalence in the United States. For example, according to the CDC, the rates of HIV infection (per 100,000 population) in 2012 were 58.3 for blacks/African Americans, 18.5 for Hispanics/Latinos, 17.3 for persons of multiple races, and 6.7 for whites.16 Similar patterns in sex and racial/ethnic disparities have been reported among older Americans.13

There are striking differences in HIV transmission categories between males and females (Figure 3).6,7 According to a CDC analysis of transmission routes among older Americans, the vast majority of females (82%) and a smaller proportion of males (23%) became infected through heterosexual contact in 2010. Male-to-male sexual contact accounted for more than half of the infections (60%) among men. As shown in Figure 3, most of the remaining cases were related to injection drug use.

Health appears to have a complex relation to the risk of becoming HIV-infected and to disease progression among those infected. Using self-reported general population data (limited to adults aged 50 years or older), Schick et al classified individuals’ health status as “good” or “poor.”7 Compared with those in good health, older Americans in poor health appear more likely to engage in solo masturbation and frottage sexual practices not associated with an elevated risk of becoming HIV-infected. However, among those HIV-infected, poor health complicates the treatment of older adults. As they age, HIV-infected adults are likely to be affected by illnesses that are common among older US adults in the general population, but these illnesses seem to be more prevalent among those HIV-infected than is expected for their age.17 These disorders may include cardiovascular, renal, and hepatic illnesses, osteopenia, and endocrine and metabolic abnormalities, which in turn may further affect their prognosis.18,19 For example, an increasing number of older HIV-infected persons have non-AIDS-defining cancers, such as anal, lung, colorectal, and liver cancers, leading some to conclude that the strongest, but not the sole, epidemiological predictor of non-AIDS-defining cancers is age.20 Brooks et al have identified three sets of factors that contribute to heightened risk for disease progression in this age group:17 viral replication and attendant inflammation, complications of treatment with protease inhibitors and other antiretroviral agents, and host-related factors such as concurrent infections (eg, hepatitis B) and lifestyle factors (eg, alcohol use and misuse). A detailed examination of the evidence supporting the role of these factors is beyond the scope of this review, but knowing that older Americans living with HIV have a disproportionately high prevalence of coexisting medical disorders is important for planning for the care of this vulnerable group. Older adults are more likely to remain in treatment than their younger counterparts, and
adherence to antiretroviral therapy is better in older than in younger populations.18,21

Sexual behavior and condom use among older adults
Selected publications dealing with unsafe sexual behaviors among older adults are summarized in Table 2. Using data from the National Survey of Sexual Health and Behavior, Schick et al examined the prevalence of condom use during the last sexual event among Americans aged 50 years or older who met one or more of the following criteria:1 reported engaging in penile–vaginal intercourse within the past year, defined their relationship status as single, reported that their most recent sexual partner was not their primary sexual partner, or reported that their current relationship was recent (ie, less than 1 year). In this group (age 50+ years), about 20% of men and 24% of women reported condom use during the last sexual event.1 The prevalence of condom use at last intercourse was highest among those aged 50–59 years (24.3%; 95% confidence interval, 15.6%–35.8%) and declined with age, with a 17.1% prevalence among those aged 60–69 years (17.1%; 95% confidence interval, 7.3%–34.2%). Cooperman et al also reported a high prevalence of unsafe sex among older adults;22 although his study was limited to men (Table 2). Older Americans often view HIV-related sexual risk as affecting the young and sexual minority groups, thus underestimating their own risk;23 a perception that may be influenced by the way HIV is portrayed in the media. In addition, physicians often do not discuss sexual behavior with older patients. Data from a survey of 3,005 US adults aged 57–85 years indicated that just 38% of men and 22% of women reported having discussed sex with a physician since the age of 50 years.4 Furthermore, according to a systematic chart review, physicians are less likely to ask older patients about their sexual history than young adult patients,24 perhaps because they perceive older patients to be at low risk for sexually transmitted diseases or because of discomfort.

Sexual risk behaviors of older women
Although both older men and women may experience partner loss, women older than 50 years are more likely to be single (26.8 vs 41.3%).1 About 1 in 20 single men and women older than 50 years date one or more persons.1 Sizable proportions of older American women are starting new relationships and are exposed to new sexual partners,25 thus, they are at risk of becoming HIV-infected through unprotected sex with new sexual partners. Nevertheless, the literature addressing women is relatively sparse,25 and many healthcare providers do not view older women as an at-risk group, and therefore are less likely to test them for HIV infection.26 The strongest predictor of past HIV testing among older women was recalling that a provider ever recommended HIV testing.27 Biologically, male-to-female transmission is more likely than female-to-male transmission of the HIV virus,28 thus
putting women at increased risk regardless of age. In addition, immune changes in the cervix of healthy postmenopausal women may increase their risk of becoming HIV-infected, an intriguing possibility that remains under investigation.29 Older women often do not ask male partners about their risk behaviors,26,30 thus avoiding potential conflicts with their sexual partners.26 Furthermore, their male partners may not disclose their unprotected sex with men or their injection drug use.30–32 After menopause, when women no longer need to use birth control to prevent unwanted pregnancies, the need to use condoms may not be perceived to be as essential as it was before menopause.33

**Men who have sex with men**

Numerous surveys have generated findings about HIV incidence and risk factors for unsafe sex among older MSM.34–39 MSM make up about 2% of the US population but accounted for 59% of new HIV infections in 2009.40 Sexual risk behaviors among MSM may decline with age.41,42 The CDC reports a relatively modest incidence (new infections) among MSM aged 55 years or older (4%, 3%, 4%, and 4% of incident infections among MSM in the United States in 2007, 2008, 2009, and 2010, respectively).43 However, because MSM are often infected earlier in life, the prevalence of HIV infections in older MSM (≥50 years) was as high as 25% in 21 US cities in 2008.44 The high prevalence of HIV among MSM may result from an earlier sexual debut, longer cumulative lifetime periods of new partner acquisition, and more concurrent partnerships, among MSM compared with men who have sex with women.40 Several investigators have studied correlates of unsafe sexual behaviors among MSM. A study of sexual behavior

| Author          | Population                          | Data source                     | Main findings                                                                                                                                                                                                 |
|-----------------|-------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cooperman et al, (2007)35 | Men aged 49–80 years, N=624         | Cross-sectional survey          | In the preceding 6 months, 75% of men (N=624, including 268 HIV-negative and 356 HIV-positive men) reported sexual activity with one or more partners. Overall, more than half of respondents reported risky sexual behaviors (multiple partners, inconsistent condom use, and trading sex for money or drugs). Risky sexual behaviors were more common among HIV-negative compared with HIV-positive men; for example, 57% of HIV-positive vs 18.1% of HIV-negative men “always” used condoms (P<0.01), although about 25% of both groups had multiple sexual partners in the preceding 6 months. |
| Illa et al, (2008)66 | Sexually active HIV-positive adults aged 45 years and older, N=210 | Cross-sectional survey          | Subjects were receiving HIV-related clinical care in Miami, Florida. “Sexually active” was defined as having engaged in vaginal or anal intercourse in the last 12 months. Of the 210 individuals surveyed, 125 were men and 85 were women, respectively. The sample was largely heterosexual. Almost 21% of participants reported not using condoms consistently, and 33% had multiple sexual partners during the preceding 6 months. Negative mood and perceived HIV stigma were associated with inconsistent condom use. |
| Lovejoy et al, (2008)67 | HIV-positive depressed adults aged 50+ years, N=290 | Cross-sectional survey, three metropolitan areas | Of the 290 individuals surveyed, 62% were abstinent (no sexual episodes in the preceding 3 months). Although most men who have sex with men (64%) and heterosexual women (79%) were abstinent, only 28% of heterosexual men were abstinent. Among those not abstinent, 53% of heterosexual men reported regular condom use compared with 23% and 13% among men who have sex with men and heterosexual women, respectively. |
| Onen et al, (2010)48 | HIV-positive adults receiving HIV-related clinical care, N=541 | Cross-sectional survey          | Although reports of any recent sexual activity decreased with age, from 56.4% among those aged 18–35 years (N=165) to 27.3% among older individuals (N=128) (P<0.001), condom use practices did not differ significantly by age, with 88.0% and 82.4% of those aged 18–35 years and older individuals (N≥50 years), respectively, reporting condom use at the last sexual episode. |
| Schick et al, (2010)49 | US men and women aged 50+ years, N=1,973 | National Survey of Sexual Health and Behavior, conducted in 2009 | 1. About 20%–30% of both men and women remained sexually active well into their 80s. 2. Condom use rates among those who are single and sexually active, having more than one sexual partner in the last year, were low across age groups and decreased with age: 24.3% of those aged 50–59 years and 17.1% of those aged 60–69 years reported using a condom at the most recent sexual event in the past year; lower proportions were reported by those aged 70 years and older. |
| Jacobs et al, (2013)50 | Community-based sample of HIV-negative men who have sex with men, aged 40–81 years, N=420 | Cross-sectional survey          | About a third of the men who reported recent receptive anal intercourse, and about 40% of those who reported engaging in insertive anal intercourse, did not use a condom in the last 6 months. The majority had multiple partners, and one-third had met a new partner in the past 6 months. Two noteworthy findings: men aged 40–59 years were more likely to engage in unprotected insertive anal intercourse than their older counterparts (aged 60 years and older), and men who discussed their HIV serostatus with partners were more likely to use condoms than those who did not. |
in midlife and older HIV-negative MSM (N=420) found that erection difficulties, practicing safe sex only with outside partners (ie, not with one’s primary partner), and recreational drug use were associated with unprotected receptive anal intercourse. Younger age, not telling partners about one’s HIV status, finding partners in backrooms or sex clubs, and erection difficulties were associated with unprotected insertive anal intercourse. Similar to studies of younger MSM, studies focusing on older MSM have implicated substance use, and prominently alcohol, as a risk factor for unprotected anal intercourse. This risk may be more elevated when erectile dysfunction medications are combined with recreational drugs, and especially with “poppers,” a slang term given to alkyl nitrites, a group of substances inhaled for recreational purposes. Some studies have examined the sexual practices of MSM who access Web sites that connect MSM seeking sex with men. MSM seeking partners through these sites may disproportionately engage in risky sexual behaviors, including unprotected anal intercourse.

**Substance use and high-risk sexual behaviors**

Substance use among older American adults has increased in recent years. The growing number of older Americans and their increased life expectancy have contributed to a steadily rising number of older adults with a substance use disorder. Unsurprisingly, the number of older adults seeking substance abuse treatment has increased. Among US adults aged 50 years and older, about 60% used alcohol in the past year, and 5% of men and 1.4% of women met criteria for an alcohol use disorder, 3% used illicit drugs, and 1–2% used prescription drugs for nonmedical purposes. Using population-based data, Han et al estimated that the number of Americans aged 50 years or older with a substance use disorder is projected to double from 2.8 million (annual average) in 2002–2006 to 5.7 million in 2020. Studies of drug and alcohol users have consistently shown that individuals with a substance use disorder are more likely to engage in high-risk sexual behaviors than nondrug users. Injection drug users are at high risk of becoming HIV-infected regardless of age. The injection drug user population in the United States is aging. Using data from the National Household Survey on Drug Abuse, Armstrong estimated that from 1979 through 2002, the mean age of survey participants who ever injected drugs increased from 26 to 42 years. As they age, injection drug users experience increases in the prevalence of HIV infection; they are often diagnosed with multiple illnesses, including non-AIDS-defining chronic conditions. Noninjection drug users are also at increased risk of becoming HIV-infected and infect others through unprotected sex. The association between crack cocaine use and heightened sexual transmission risk is well documented, and both alcohol and illicit substances are often associated with sexual risk behaviors among older Americans.

**HIV-infected older adults**

HIV-infected older Americans often engage in high-risk sexual behaviors (Table 2). Negative mood states and perceived HIV stigma were correlates of inconsistent condom use among urban sexually active HIV-positive adults aged 45 years and older. In a study of HIV-positive depressed adults in three US metropolitan areas, among those sexually active, heterosexual men were more likely to report regular condom use (53%) compared with MSM (23%) and women (13%). There are differences in the timing of diagnosis and in the response to antiretroviral therapy in older adults compared with their younger counterparts. Older individuals may be diagnosed late in the course of disease. Using data from the North American Cohort Collaboration on Research and Design, Althoff et al reported that the proportion of individuals aged 50 years and older first presenting for care (among all individuals aged 18 years and older) increased from 17% in 1997 to 27% in 2007; that CD4 counts at first presentation for HIV care in the United States and Canada among those aged 50 years and older was consistently lower compared with those of younger adults (<50 years), with counts of 266 cells/mm³ and 336 cells/mm³, among older and younger participants, respectively, in 2007 (low CD4 counts are indicative of a compromised immune system and reflect advanced disease); and that the proportion of individuals who had an AIDS-defining diagnosis at or shortly before the first CD4 count was highest among older individuals (<50 years, 10%; ≥50 years, 13%; P<0.01).

**Discussion**

American adults are living longer. Although the likelihood of having a steady sexual partner declines with age, and more so among women than among men, many older Americans remain sexually active in their later years. The availability of medications to treat erectile dysfunction has prolonged the sexual activity of older men and their sexual partners. Although MSM are at highest risk of becoming infected, an increasing number of heterosexual older adults (including women and minority groups) become HIV-infected in middle age and late life. Nevertheless, studies focusing on this age group are relatively sparse.
This review of the literature found a low prevalence of condom use by older Americans, with about 20% of men and 24% of women aged 50+ years who are not in a long-term relationship with only one partner reporting condom use during the last sexual event. Older heterosexual adults tend to perceive young people and sexual minority groups (eg, MSM) as being at risk for HIV infection, and they may underestimate their own HIV risk. Thus, their perception of risk may explain in part the low prevalence of condom use. Physicians’ perception of sexual risk in older patients may also play a role, leading physicians to ask less frequently about sexual behavior and recommend HIV testing less often when dealing with older compared with younger patients. Thus, older individuals are often diagnosed late, when the disease is more advanced than among newly diagnosed young adults.

Recommendations

First, there is a need to tailor HIV prevention efforts targeting older adults, consisting of brief interventions targeting at-risk or high-risk older adults, as well as educational programs targeting their health providers. These efforts could include prevention trials specifically targeting older adults as a way of dealing with the discomfort many older adults feel when discussing sexual risk behaviors in the presence of young people. In addition, testing older adults for HIV might lead to earlier diagnosis and follows CDC recommendations advocating routine voluntary HIV screening.

Second, as older adults often see their primary care doctors at least annually, and health care settings are ideal for low-cost psychoeducational interventions, opportunities to intervene in these settings abound. These interventions may include providing written psychoeducational materials, similar to the pamphlets targeting diabetes care or hypertension that patients often read while in physicians’ waiting rooms, thus doing away with AIDS exceptionalism by dealing with it as clinical providers deal with other illnesses.

Third, as older individuals are likely to engage in unprotected sex when under the influence of alcohol or recreational drugs (as do their younger counterparts), clinicians should inquire about alcohol and drug use in this age group, and specifically about use preceding or during sexual activity.

Fourth, clinicians need pay special attention to recently divorced or widowed older women who are interested in new relationships, as they may not be aware of their vulnerability, and they should be mindful of the heightened vulnerability of minority women.

Last, prevention efforts should target older MSM separately, as they may not feel comfortable sharing their concerns with older heterosexual adults or with younger MSM. Because the prevalence of HIV infection is high among older MSM, condom use is an essential tool to prevent transmission of the virus from HIV-positive to HIV-negative MSM.

Acknowledgment

This work is made possible by research support from the US National Institutes of Health (R33DA027503, R01MD007658, R01DA019623, and R01DA019901).

Disclosure

The authors report no conflicts of interest in this work.

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