Background. Data on knowledge, attitudes, and practices to prevent HIV transmission are limited and effective strategies to improve such knowledge, change attitudes, and reduce risk behaviors are unknown among serodiscordant couples.

Methods. A quasi-experimental study was conducted among HIV-negative adult heterosexual partners of HIV-infected patients. The intervention was an educational program consisting of a 1-hour educational session on knowledge about HIV infection and transmission prevention, a condom use teaching session, group discussion and experience sharing, and free HIV testing. Self-administered survey was conducted pre- and post-intervention on the same day to assess effectiveness of the program in improving HIV knowledge and changing attitudes toward HIV prevention behaviors. Participants were invited to participate in the program again 6 months later to assess retention of the knowledge and positive attitudes and practices to prevent HIV.

Results. A total of 88 participants were enrolled. The median age was 39 years and 49 (56%) were male. The median number of correct answers to the 30 statements about HIV infection and transmission prevention was significantly higher after the program compared with before the program (28 vs. 21; P < 0.001). After the program, higher proportions of the participants would encourage treatment of their HIV-infected partners (77% vs. 58%), use pre-exposure prophylaxis (59% vs. 38%), and have a regular HIV blood test every 6 months (94% vs. 81%) and think that they and their partners can have a baby together safely with the current HIV transmission prevention strategies (48% vs. 17%) compared with before the program (all P < 0.05). Among the 35 participating couples, the educational program was shown to be effective in improving HIV knowledge, attitudes, and practices toward HIV prevention among the seronegative partners.

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1286. Evaluating Strategies to Reduce Risk of HIV Infection in the US Blood Supply
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Background. Due to risk of HIV transmission, the FDA recommends a ban on blood donation from men who have sex with men (MSM). Revised in 2015, the current restriction applies to men who have had sex with a man in the year before donation. Given advances in HIV testing and the option of risk-based screening, the current approach may no longer represent the optimal strategy for ensuring a safe blood supply.

Methods. Using a decision tree, we compared three strategies: (1) the current standard: a deferral for MSM followed by fourth-generation HIV antibody/antigen (Ab/Ag) and viral load (VL) testing of all donated units; (2) test-only: no deferral, with Ab/Ag and VL testing; (3) risk-based: defer all male donors who responded “yes” to less anal intercourse in the past 6 weeks, followed by Ab/Ag and VL testing. The primary outcome was the expected number of accepted HIV+ donations per million units of donated blood. Key input parameters include MSM prevalence (3.8%), HIV testing sensitivity for chronic (99.96%) and acute (75%) infection, and false negative rate of the current MSM deferral question and the risk-based screening question (2.6% for each). In sensitivity analyses, we assessed the impact of variation in these parameters.

Results. In the base case, the current strategy resulted in 5.39 HIV+ accepted blood donations per million units of donated blood, the testing only strategy resulted in 7.10 HIV+ accepted blood donations per million; and the risk-based strategy resulted in 2.54 HIV+ accepted blood donations per million. In sensitivity analyses, the risk-based strategy was superior across plausible ranges of HIV test sensitivity and MSM prevalence. The risk-based strategy was superior when the false negative rate generated by the risk-based screening question was <10.4%; at higher rates, the current strategy was superior. The current strategy was superior when the false negative rate generated by the risk-based screening question was <0.8% false negative rate; at higher rates, the testing only strategy was superior. The current strategy was superior when the MSM deferral question yielded <0.8% false negative rate; at higher rates, the risk-based strategy was superior. Compared with the current standard, a risk-based strategy could add 5 million low-risk MSM to the potential donor supply.

Conclusion. A risk-based screening question, combined with Ab/Ag and VL testing, may be more effective than the current strategy. The quality and ability of screening questions to accurately assess risk is key to any pre-donation screening strategy.

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1287. Seizing Opportunities for Intervention: Changing HIV Knowledge Among Men Who Have Sex With Men and Transgender Women Attending Trusted Community Centers in Nigeria
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Background. Knowledge of HIV risk factors and risk reduction strategies is essential for HIV prevention in key populations, including men who have sex with men (MSM) and transgender women (TGW). We described factors associated with HIV-related knowledge and evaluated the impact of counseling and care at trusted community health centers serving Nigerian MSM and TGW.

Methods. The TRUST/RV368 cohort recruits MSM and TGW via respondent driven sampling in Abuja and Lagos, Nigeria. Participants undergo a structured interview with five knowledge-testing questions at enrollment and after 9 and 15 months. Routine HIV/STI screening, free condoms/lubricants, and counseling about safer sex practice is provided. Multivariable Poisson regression with generalized estimating equations was used to calculate risk ratios (RR) and 95% confidence intervals (CIs) for factors associated with answering more knowledge questions correctly. Pearson’s chi-squared test was used to compare the proportion of participants answering each question correctly at enrollment and subsequent visits.

Results. From March 2013 to December 2017, 2,090 biological males were enrolled with median age 23 (interquartile range 20–27 years, including 234 (11.2%) with female gender identity. Of 1,691 participants with known HIV status, 836 (49.4%) were positive. The mean number of HIV knowledge questions correctly answered was 2.37, 2.98, and 3.09 at enrollment, 9, and 15 months, respectively. Participants demonstrated increased HIV knowledge after 9 (RR 1.15 [95% CI 1.03–1.28]) and 15 months (1.18 [1.05–1.32]). Factors associated with increased knowledge included HIV positivity (1.17 [1.11–1.23]), higher than senior secondary education when compared with less than senior secondary (1.24 [1.12–1.37]), and almost daily internet use when compared with never (1.17 [1.08–1.26]).

Conclusion. While HIV knowledge improved during enrollment in the cohort, it remained suboptimal. Multiple modalities may be needed to fully inform Nigerian MSM and TGW of risk reduction strategies. Interventions that involve internet access to deliver educational materials may be a useful adjunct to direct counseling at healthcare centers.

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1288. Adolescents’ Knowledge and Acceptance of Pre-exposure Prophylaxis (PrEP) in the Capital District Region of New York
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Background. In 2015, adolescents 13–24 years were disproportionately affected and accounted for 22% of new HIV infections in the United States. In New York State (NYS), the rate of adolescents (13-19 years) living with HIV infection is more than twice the national rate (44.4 vs. 19.4 per 100,000 population). As part of the ending the epidemic (EET) program, the NYS Department of Health spearheaded access to pre-exposure prophylaxis (PrEP) for high-risk individuals to keep them HIV negative. This study aims to test the hypothesis that adolescents at risk may not be utilizing PrEP and that there are barriers to adopting it.

Methods. A cross-sectional survey (Qualtrics) was conducted from Aug 2017 to May 2018 using a 13-item multiple choice and Likert scale validated questionnaire that takes ~5 minutes to complete. Descriptive and nonparametric tests (GraphPad Prism v5.04) were used to characterize knowledge and acceptance of PrEP among adolescents in Capital District NY after the initiation of the ETE program in NYS.

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Results. There were 97 respondents and 89 (92%) completed all questions. Most of the respondents identify themselves as female (36%), straight (27%), middle-aged adolescents 15–17 years (64%), African American (46%) and currently in high school (69%). Majority have seen a medical provider in the past 12 months (90%), at the doctor’s office (61%), and majority have never been offered HIV test (60%). Majority have not heard of a medicine that can prevent HIV infection (58%), most have not heard of PrEP (57%), and many do not know where to go to learn more about PrEP (56%). Most have not been offered PrEP (86%) and respondents were split in adopting PrEP (yes 49% vs. no 51%). The reasons for not agreeing to start PrEP are shown in Figure 1. Majority are interested in attending educational program on PrEP (57%). Adolescents are likely to adopt PrEP if they heard about it (P = 0.01), if they know where to go to learn about it (P = 0.02), and if someone offered it (P = 0.03).

Conclusion. Adolescent knowledge of PrEP may be suboptimal and presents barriers to adopting it. However, they are willing to accept PrEP if offered. This study demonstrates potential avenues for intervention and provider-initiated programs should be evaluated in scaling-up PrEP into adolescent health services.

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1289. Knowledge, Attitudes and Barriers of Pre-exposure Prophylaxis for HIV Infection Among Resident Physicians in Rural, Eastern North Carolina

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Background. North Carolina bears a high burden of HIV and was ranked number 8 for the number of new infections in 2015. In 2014, the Centers for Disease Control and Prevention (CDC) published updated practice guidelines recommending the use of pre-exposure prophylaxis (PrEP) with daily oral dosing of tenofovir/emtricitabine to help prevent HIV infection in high-risk individuals. However, the use of PrEP in the primary care setting remains low and in three primary care physicians is not aware of PrEP. The objective of our study was to evaluate PrEP knowledge among primary care resident physicians.

Methods. Sixty out 149 residents completed the online survey. 20% of residents had never heard of PrEP. 17% of residents did not feel comfortable discussing sexual preferences with their patients. 15% of residents thought prescribing would increase risky sexual behaviors and 12% would not prescribe PrEP to patients with multiple sexual partners. Among residents identified potential side effects of PrEP (e.g. increase in creatinine levels or decrease in mineral bone density) as a reason to not prescribe PrEP. One resident had ever prescribed PrEP. 83% of residents wanted more information on PrEP and 95% of residents would be willing to prescribe PrEP if educational workshops were offered.

Conclusion. PrEP is an underutilized tool among resident physicians in Eastern NC. We identified lack of knowledge of PrEP and concern for increased risky sexual behaviors as barriers to prescribing. Resident physicians require more education on PrEP in order to prescribe it to their patients.

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1290. A Model for “At-Distance” PreEP Navigation: Acceptability and Early Insights

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Background. HIV pre-exposure prophylaxis (PrEP) awareness and uptake among at-risk individuals remains suboptimal despite clear evidence of efficacy. Health navigators and peer educators have been employed to facilitate linkage and retention in many aspects of HIV prevention and care, including to improve PrEP utilization. Yet, the use of health navigators to improve PrEP utilization has not been well-explored in rural areas where unique challenges to HIV care have been well documented.

Little is known, too, about how telemedicine may strengthen these efforts. We assessed acceptability and evaluated a health navigation program that primarily engages clients through at-distance technology-based methods.

Methods. To guide the design and implementation of a pilot PrEP tele-navigation program, we conducted a survey at-at-risk clients contacted through social networks and at a state funded STD clinic in New Hampshire. Approximately one month after the launch of the navigation platform, we analyzed characteristics of client-navigator interactions. Feedback surveys were distributed to clients 3 months following engagement with the navigator.

Results. From July 2017 to April 2018, 139 individuals engaged the navigator program via email, text, chat, phone call, or in-person. Among the most common services provided were PrEP counseling (n = 63 or 45% of inquiries), referral to STI/HIV testing (22%), and risk reduction counseling (19%). Eight clients have been linked to PrEP care through client-navigator interactions. Almost three-quarters of services were offered via email, text, chat, phone call, or in-person. Among the most common services provided were PrEP counseling (n = 63 or 45% of inquiries), referral to STI/HIV testing (22%), and risk reduction counseling (19%). Eight clients have been linked to PrEP care through client-navigator interactions. Almost three-quarters of services were offered via email, text, chat, phone call, or in-person. Services were offered via email, text, chat, phone call, or in-person.

Conclusion. Our pilot program highlighted the diverse obstacles to PrEP utilization in at-risk rural clients, and suggests at-distance PrEP navigation and telemedicine can support improved PrEP utilization in the rural United States. Such a navigator program should be equipped to engage clients along the PrEP care continuum.

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