

## Rapid Communication

# Improving the Health of Homeless Youth through Community-Based Sexual Health Promotion

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**Background:** Although Sexually Transmitted Infections (STIs) impact individuals of all ages, adolescents and those who are homeless, are at a particularly increased risk. The Centers for Disease Control and Prevention (CDC) estimated adolescents aged 15-24 years account for half of all new STIs in the US. Homeless youth are generally knowledgeable about transmission, prevention, and treatment of STIs, however, there are disparities regarding access and knowledge of free preventive and medical services. This pilot study explored the knowledge, attitudes and behaviors of homeless youth before and after the implementation of a sexual health education program.

**Methods:** The curriculum included four separate topic presentations in small group sessions of 7-15 participants at local community-based street outreach program related to reproductive anatomy, STIs, contraception, and an interactive reproductive physical exam simulation. This study used a retrospective pre/post survey to evaluate the impact.

**Results:** Fifteen individuals participated in at least one of the sessions. Participants who attended 3-4 of the sessions showed greater knowledge improvement than those who only attended 1-2 sessions. Basic knowledge was the same (e.g., will visit a medical care provider when needed, 100% both groups) but more advanced knowledge was greater for those who attended 3-4 sessions (Plan B usage, 43% (n=3/7) vs. 75% (n=3/4)).

**Conclusion:** By overcoming barriers regarding health disparities through education and collaboration, this study was able to empower at-risk youth to be proactive in their own sexual health.

**Keywords:** Homeless youth; Sexual health; Disparities; STIs, Health education

## Introduction

Although Sexually Transmitted Infections (STIs) impact individuals of all ages, adolescents and those who are homeless, are at a particularly increased risk. According to the Centers for Disease Control and Prevention (CDC), there are 20 million new cases of STIs each year in the United States. About half of these infections are in people between the ages of 15 and 24. This age group only accounts for about 25% of the sexually active population yet has a higher rate of STIs than other age categories [1].

Homeless youth are generally knowledgeable about transmission, prevention, and treatment of STIs, however, there are disparities regarding access and knowledge of free preventive and medical services [2,3,4]. A previous study by [4], reported homeless youth wanted to know about free medical services, birth control, free STI testing, where to go for treatment and testing, and information about Planned Parenthood services (a local nonprofit organization that provides sexual health care in the United States and globally). Homeless youth in this study reported high levels of knowledge about transmission, prevention, and treatment of STIs. Although, they reported the need for more specific information about condom use and availability of free condoms (all youth) and more information on pregnancy prevention (female participants). Additionally, homeless

youth reported they have barriers to seeking diagnosis and treatment for STIs including cost and not knowing where to go [4].

This study was based on existing gaps in the literature related to homeless youth and sexual health education. This pilot study explored the knowledge, attitudes and behaviors of homeless youth after the implementation of a sexual health education program based on previously reported gaps in health education for this population. The goal was to further understand how STI and sexual health education impacted the behaviors of homeless young adults.

## Methods

### Study design & sample

This research was an exploratory, pilot study using retrospective pre and post surveys that employed a group-based sexual health education program with a convenience sample from a local street outreach program. The first three sessions were held at the homeless youth shelter, and the fourth session was held at a clinical training facility that included medical examination rooms.

### Curriculum

Using existing, evidence-based literature, our team created a four-part curriculum to be presented in small group sessions. The

**Table 1:** Post-Survey Question Results (N=12).

Question	Sessions	
	1 or 2 n=7	3 or 4 n=4
<b>Attitudes</b>		
1. Getting a STI is a big deal	43%	75%
2. Young people who have had sex should get tested for STIs.	88%	100%
3. If used correctly ever time, condoms can prevent HIV and other STIs	34%	50%
4. Using contraceptives can lower the chance of pregnancy	75%	75%
<b>Behavioral Intentions</b>		
5. I understand how to protect myself from AIDS or other STIs.	88%	100%
6. I don't want to be pregnant (or get someone pregnant) right now.	63%	50%
7. I plan to visit a doctor if I have signs of a STI.	100%	100%
8. I would get a pap smear (or male genital exam), even if I am not having sex to make sure I am healthy.	50%	100%
<b>Self-Efficacy</b>		
9. If I decide to have sex, I will use a condom every time.	63%	50%
10. I know where to find help in my community if I need to see a doctor.	88%	75%
11. I know where to find a free condom if I need one in the future.	88%	100%
<b>Knowledge</b>		
12. I can't get pregnant (or get someone pregnant) having sex for the first time.	63%	75%
13. You cannot tell if someone has an STI just by looking at them.	50%	33%
14. STIs can result in infertility.	86%	75%
15. Emergency contraceptive pills (Plan B or the "morning after pill") can be taken up to 5 days after having unprotected vaginal sex to reduce the risk of pregnancy.	43%	75%
16. I understand my body, especially my private (reproductive) parts.	88%	100%
17. Painful urination is a common STI symptom.	50%	75%

team included a doctoral trained behavioral psychologist, a social worker, and three physician assistant students. The curriculum included four separate topic presentations: (1) Reproductive anatomy [5,6], (2) Sexually Transmitted Infections (STIs) [7,8,9,10,11], (3) Contraception and STI prevention [12,13,14,15,16,17] and (4) Medical examination simulation [18,19,20]. Each session included a hand out on the topic, a brief presentation, and a period of questions and answers in a small group setting.

### Participants

Homeless youth were invited to participate in the sexual health educational sessions by staff members. The group size ranged from 7-15 participants over the course of the project. Upon completion of the final group session, participants received a t-shirt as an incentive for participation. Participants also received \$5 gift cards as incentives for participating in-group sessions.

### Data collection & analysis

A short retrospective pre-post questionnaire was administered to each participant after the last session. The purpose of the questionnaire was to survey participants in order to provide demographic data and compare their knowledge prior to and after the sexual health education sessions about reproductive anatomy, Sexually Transmitted Infections (STIs), contraception, and an interactive reproductive physical exam simulation. Four demographic questions were included, and 17 attitude, knowledge and behavior

questions were included. The survey was modified from a previous sexual health curriculum evaluation tool [16]. Data were analyzed using descriptive statistics. The study was ethically approved by a University Institutional Review Board.

## Results

Overall, 15 individuals participated in at least one of the sessions and 12 participants responded to the survey at the final group education session. The number of participants fluctuated from 7-15 individuals at each session. The majority were female (70%, n=7), average age 20.3 years (SD=1.58), and 80% were Caucasian (n=8) while 20% were Hispanic/Latino (n=2). All participants were English speaking. Almost half of participants had completed some high school (44% n=4), an equal percentage completed high school (44%, n=4) and one individual had completed college.

Participants who attended three or four of the sessions showed greater knowledge improvement than those who only attended only one or two sessions (Table 1). Basic knowledge was the same (e.g., will visit a medical care provider when needed, 100% both groups) but more advanced knowledge was greater for those who attended three or four sessions (Plan B usage, 43% (n=3/7) vs. 75% (n=3/4)). Participants who attended more sessions had better sexual health attitudes (questions one through four), better behavioral intentions (three of four questions had higher ratings), and higher knowledge (four of six questions had higher ratings). However, participants who

attended more sessions reported a lower self-efficacy in relation to sexual health topics by rating higher on only one of the three self-efficacy questions (Table 1).

## Discussion

This pilot study examined the knowledge, attitudes and behaviors of homeless youth before and after the implementation of a sexual health educational program. Our primary goal was to educate at-risk homeless youth about STIs. The secondary goal was to provide information about accessing resources and services that are available in the community. For example, free or low cost STI testing/treatment and birth control methods. Homeless young adults are more likely to be sexually active, have multiple partners, engage in sex work, and report low rates of condom usage [2,3,4]. Preventing STIs can improve their long-term health. Results showed that participants in attendance for at least half of the sessions showed greater improvements in sexual health attitudes, behavioral intentions and sexual health knowledge. However, participants who attended more sessions reported a lower self-efficacy in relation to sexual health topics based on the survey responses. This could be based on the relationships formed between the health educators and participants during the group sessions and reflect an honest, but more vulnerable survey response. The vulnerable type of response would require a trusting relationship between participant and researchers.

While this pilot study had many strengths, it was not without limitations. Due to the nature of the organization and homeless status of participants, the participants in the group sessions were not always consistent from week to week. The participants also had varying levels of education and background that may have influenced their ability to understand some of the topics. The health education curriculum was broad and could be improved through tailoring it to specifically homeless male youth to increase the relevancy. The goal of the pilot study was to provide education and resources to fill a community need, but the four-part curriculum barely scratched the surface, as expanded programs are needed to meet the needs of the population. Additionally, the retrospective pre-post survey design was not effective for this population. Many participants seemed confused by the questions, as it asked for participants to report their knowledge, attitudes, and beliefs before the program started, at the end of the program. Splitting these ratings up and specifically giving them before the first session and again after the second session might avoid confusion among the participants and reduce biases. The survey questions could also be improved through continued piloting for understandability.

This pilot study explored the need for more knowledge related to sexual health and available resources for homeless youth including the development of an educational curriculum focused on improving sexual health behaviors, attitudes and beliefs, as well as promoting overall well-being for this population. While many homeless youth are generally knowledgeable about the transmission, prevention,

and treatment of STIs, they commonly lack access to community resources. This health education program was able to address this gap in knowledge by bringing awareness of those community resources and strategies to access those resources as part of the curriculum.

## Conclusion

This community-based sexual health education program could be used in similar settings to improve behaviors and promote sexual health knowledge for homeless youth, with an overarching goal to improve health outcomes for this vulnerable population. By overcoming barriers regarding health disparities through education and collaboration, this study was able to empower at-risk youth to be proactive in their own sexual health.

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