

# Social media secret Facebook groups for HIV pre-exposure prophylaxis awareness among female sex workers in Cameroon

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| <b>Submission date</b><br>01/04/2023   | <b>Recruitment status</b><br>No longer recruiting        | <input type="checkbox"/> Prospectively registered               |
| <b>Registration date</b><br>24/04/2023 | <b>Overall study status</b><br>Completed                 | <input type="checkbox"/> Protocol                               |
| <b>Last Edited</b><br>17/04/2023       | <b>Condition category</b><br>Infections and Infestations | <input type="checkbox"/> Statistical analysis plan              |
|  |  | <input checked="" type="checkbox"/> Results                     |
|  |  | <input checked="" type="checkbox"/> Individual participant data |

## Plain English summary of protocol

### Background and study aims

Female sex workers in Cameroon are at high risk of HIV infection and have low pre-exposure prophylaxis (PrEP) uptake and retention. This research leverages the increased use of social media among female sex workers in Cameroon to explore novel tools that could support ongoing HIV prevention efforts. The aim of this study is to evaluate the feasibility and acceptability of an intervention promoting health care literacy around HIV, PrEP, and stigma reduction using private social media groups that complemented existing HIV prevention services among female sex workers in Cameroon.

### Who can participate?

Participants that self-identified as female sex workers, were members of the New Life Club, 18 years old or older, HIV negative, fluent in Pidgin English and owners of an Android phone with internet access. The study enrolled a total of 60 participants (40 in the intervention group and 20 in the control group) and was completed in March 2021.

### What does the study involve?

The intervention was 12 HIV and sexual health videos developed by the study team and tailored to female sex workers, which were released over 8 weeks through a secret Facebook group platform. Outcomes were measured using in-person surveys that were administered before, after the intervention, and three months later.

### What are the possible benefits and risks of participating?

The study intervention complemented existing HIV services by providing new information on PrEP, post-exposure prophylaxis, and sex work-related stigma through a safe space for online interaction with other female sex workers. Successful measures were taken to prevent the release of participants' personal information.

### Where is the study run from?

University of Alabama at Birmingham (USA)

When is the study starting and how long is it expected to run for?  
October 2018 to May 2021

Who is funding the study?  
Center for AIDS Research, University of Alabama at Birmingham (USA)

Who is the main contact?  
Dr Laia J Vazquez Guillamet  
laiavgll@gmail.com

## Contact information

**Type(s)**  
Scientific

**Contact name**  
Dr Laia J Vazquez Guillamet

**ORCID ID**  
<https://orcid.org/0000-0002-2649-3910>

**Contact details**  
Calle del Rossellón 132, 7th fl  
Barcelona  
Spain  
08036  
+34 93 227 1806  
laia.vazquez@isglobal.org

## Additional identifiers

## Study information

**Scientific Title**  
Randomized pilot study with cross-over model to assess the feasibility, acceptability, and potential of an intervention using secret Facebook groups to complement existing HIV prevention strategies among female sex workers in Cameroon

**Study objectives**  
The purpose of this pilot study was to evaluate the feasibility and acceptability of a widely available social media group with privacy features promoting health care literacy among female sex workers in Cameroon, and its potential impact on reported interest in PrEP, confidence in PrEP knowledge, condom use, social cohesion, and stigma related to sex work, HIV and PrEP.

**Ethics approval required**  
Old ethics approval format

**Ethics approval(s)**  
1. Approved 06/09/2019, Cameroon Baptist Convention Health Board (CBCHB) Institutional Review Board (IRB) (Baptist Centre, Nkwen, PO Box 1 Bamenda, Northwest Region; Tel: not

available; cbchbirb@gmail.com), ref: IRB2019-16

2. Approved 05/07/2021, Institutional Review Board of the University of Alabama at Birmingham (Office of the Institutional Review Board for Human Use, 470 Administration Building, 701 20th Street South, Birmingham, AL 35294-0104, USA; +1 (0)205 934 3789; irb@uab.edu), ref: IRB-300004333

## **Study design**

Single-center group randomized cross over pilot study

## **Primary study design**

Interventional

## **Study type(s)**

Prevention

## **Health condition(s) or problem(s) studied**

Prevention of HIV infection among female sex workers in the anglophone region of Cameroon

## **Interventions**

The intervention was 12 HIV and sexual health videos tailored to female sex workers and recorded in Pidgin English that were released over 8 weeks through a secret Facebook group platform. The first video introduced the project and explained the behavioral norms of the secret Facebook group. The other videos specifically talked about HIV, pre-exposure prophylaxis (PrEP), post-exposure prophylaxis (PEP), condom use, sex work information from around the globe, and sex work-related stigma. The content was developed by the study team and recorded by the New Life Club coordinators in Pidgin English. In-person surveys were administered before, after the intervention, and three months later. The study survey was designed by the study team after a careful review of the existing literature, adapting validated and non-validated questionnaires used in prior studies (Hanoeman, 2017; Hargreaves, 2013; Lippman, 2010; Vazquez, 2019). The survey was piloted on a small number of NLC members; it lasted on average 10 minutes and was administered in-person by the study coordinators in a private environment.

## **Intervention Type**

Behavioural

## **Primary outcome(s)**

1. Project feasibility: measured as project retention (number of surveys completed at 3 and 6 months)
2. Confidence in PrEP knowledge: measured using the answer to the question "How is your knowledge about PrEP? (Very poor, Poor, Fair, Good, Excellent) measured before, after the intervention, and three months later

## **Key secondary outcome(s)**

Surveys were administered before, after the intervention, and 3 months later:

1. Project acceptability: measured using the answer to the question "Would you recommend this project to a coworker?" (Strongly disagree, Disagree, Undecided, Agree, Strongly agree)
2. Interest in PrEP: measured using the answer to the question 'Are you interested in taking PrEP?' (Strongly disagree, Disagree, Undecided, Agree, Strongly agree)
3. Condom use: measured using the answer to the question "How often do you use condoms? (Never, Less than half of the time, Half of the time, More than half of the time, Always)
4. PrEP-associated stigma: measured using the answer to the question "If you were taking PrEP

- would it cause you shame? (Strongly disagree, Disagree, Undecided, Agree, Strongly agree)
5. Sex work associated stigma: measured using the answer to the question “Does your work cause you to feel bad about yourself?” (Strongly disagree, Disagree, Undecided, Agree, Strongly agree)
6. HIV-associated stigma: measured using the answer to the question “If you were taking PrEP, would you be worried about others mistaking you as HIV positive?” (Strongly disagree, Disagree, Undecided, Agree, Strongly agree)
7. Social cohesion: measured using the answer to the question: “Can you count on other sex workers if you need to talk about your problems? (Strongly disagree, Disagree, Undecided, Agree, Strongly agree)

**Completion date**

25/05/2021

## Eligibility

**Key inclusion criteria**

1. Self-identified as female sex worker,
2. Member of the organization New Life Club
3. 18 years old and older
4. HIV negative (documented within 3 months prior to enrollment)
5. Fluency in Pidgin English (the local primary language used widely)

The New Life Club (NLC) program is an initiative from the Cameroon Baptist Convention Health Board, hosted the study intervention. The NLC is a faith-based non-governmental organization with the purpose of assisting female sex workers in the Anglophone regions of Cameroon by promoting health resources and services.

**Participant type(s)**

Healthy volunteer

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

Female

**Total final enrolment**

60

**Key exclusion criteria**

1. Not owner of an android phone with internet access
2. Insufficient literacy level to interact in the group-chat

**Date of first enrolment**

01/10/2020

**Date of final enrolment**

23/10/2020

## Locations

**Countries of recruitment**

Cameroon

**Study participating centre****New Life Club**

CBC Health Services Complex

Buea Road Mutengene

Mutengene

Cameroon

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## Sponsor information

**Organisation**

University of Alabama at Birmingham

**ROR**

<https://ror.org/008s83205>

**Organisation**

Cameroon Baptist Convention Health Services

**ROR**

<https://ror.org/025fpk195>

## Funder(s)

**Funder type**

University/education

**Funder Name**

Center for AIDS Research, University of Alabama at Birmingham

### Alternative Name(s)

Center for AIDS Research, University of Alabama at Birmingham, University of Alabama at Birmingham Center for AIDS Research, UAB Center for AIDS Research, Center for AIDS Research, CFAR at University of Alabama at Birmingham, CFAR, UAB CFAR

### Funding Body Type

Government organisation

### Funding Body Subtype

Research institutes and centers

### Location

United States of America

## Results and Publications

### Individual participant data (IPD) sharing plan

The datasets generated during this study are stored in a publicly available repository: <https://doi.org/10.6084/m9.figshare.20220102.v2>

### IPD sharing plan summary

Stored in publicly available repository

### Study outputs

| Output type                      | Details | Date created | Date added | Peer reviewed? | Patient-facing? |
|----------------------------------|---------|--------------|------------|----------------|-----------------|
| <a href="#">Abstract results</a> |         | 04/12/2021   | 03/04/2023 | No             | No              |
| <a href="#">Dataset</a>          |         | 03/07/2022   | 17/04/2023 | No             | No              |