



# Revolutionizing HIV Prevention among Cisgender Women

## High-tech solutions with personalized support to improve clinical outcomes

### Harnessing large language models to bring shared decision-making counseling for HIV Prevention

A new study funded by the Gillings Gift aims to develop scalable models for promoting PrEP use among cisgender women to prevent HIV. Previous research has highlighted the benefits of shared-decision making in healthcare, but not how to effectively scale these approaches for broader impact. This project will leverage advanced language models to create the ShesPrEPared chatbot, offering tailored PrEP counseling and decision support. By integrating high-tech solutions with personalized support, the project seeks to improve clinical outcomes and extend the reach and efficiency of HIV prevention efforts both locally and globally.

#### Aim One: Developing the ShesPrEPared Chatbot

The first aim of the proposal is to develop a chatbot called ShesPrEPared, which will provide counseling for pre-exposure prophylaxis (PrEP) to help prevent HIV. This chatbot will be created using a large language model specifically trained for PrEP counseling. Public health and computer science teams will collaborate on this initiative, ensuring that the chatbot is user-friendly, accurate, and responsive.

#### Aim Two: Testing ShesPrEPared Chatbot

Usability testing will be conducted to refine the ShesPrEPared chatbot with patients from wake County clinics. Testing feedback and patient interviews will serve to assess and improve the chatbot's functionality and salience. This input will be used to make necessary improvements to ensure the chatbot meets user expectations.

#### Aim Three: Conducting a Feasibility Pilot

A feasibility pilot will be conducted to evaluate the ShesPrEPared chatbot in a clinical setting. Twenty women from Wake County clinics will use the chatbot, and their experiences will be collected through questionnaires and in-depth interviews. Healthcare providers will gain insights into the tool's feasibility and acceptability of this approach in clinical practice. This comprehensive approach will provide information on the feasibility and acceptability of using the ShesPrEPared chatbot in a clinical setting for future improvement and evaluation.

#### Leadership



**PI:** Lauren Hill, PhD, is an assistant professor in the Department of Health Behavior at the UNC Gillings School of Global Public Health. Her research focuses on developing and evaluating behavioral interventions to address multilevel determinants of HIV/AIDS risk and treatment outcomes globally and locally. Her work aims to increase the reach and effectiveness of these interventions to improve health outcomes.

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#### Impact!

Discovering the potential of integrating advanced language models with personalized counseling can revolutionize HIV prevention for cisgender women. This groundbreaking study, a first of its kind, will leverage the ShesPrEPared chatbot to provide accessible and user-friendly PrEP counseling. This innovative approach will create a scalable model for delivering shared decision-making counseling, both locally and globally.

#### Goal

Develop and evaluate the ShesPrEPared chatbot to enhance HIV prevention among cisgender women and create a scalable model for shared decision-making in healthcare.

#### Partners

UNC at Chapel Hill  
Department of  
Computer Science,  
UNC at Chapel Hill  
School of Medicine,  
Wake County  
Health & Human  
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Welcome to the ShesPrEPared  
HIV Prevention Decider Tool!



She's PrEPared  
DECISION AID