MTN-003D

An Exploratory Study of Potential Sources of Efficacy Dilution in the VOICE Trial

Microbicide Trials Network

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A Non-IND Study

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<th>Description</th>
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<tbody>
<tr>
<td>ACASI</td>
<td>Audio Computer-Assisted Self-Interviewing</td>
</tr>
<tr>
<td>AIDS</td>
<td>Acquired Immunodeficiency Syndrome</td>
</tr>
<tr>
<td>BRWG</td>
<td>Behavioral Research Working Group</td>
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<tr>
<td>CAPRISA</td>
<td>Centre for the AIDS Programme of Research in South Africa</td>
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<tr>
<td>CAB</td>
<td>community advisory board</td>
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<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
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<tr>
<td>CORE</td>
<td>Coordinating and Operations Center</td>
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<tr>
<td>CRF</td>
<td>case report form</td>
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<td>CRS</td>
<td>clinical research site</td>
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<td>CWG</td>
<td>Community Working Group</td>
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<td>DAIDS</td>
<td>Division of AIDS</td>
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<tr>
<td>DSMB</td>
<td>Data Safety Monitoring Board</td>
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<tr>
<td>EC</td>
<td>Executive Committee</td>
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<tr>
<td>FGD</td>
<td>Focus Group Discussion</td>
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<tr>
<td>FTC</td>
<td>emtricitabine</td>
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<tr>
<td>FTC/TDF</td>
<td>emtricitabine/tenofovir disoproxil fumarate</td>
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<tr>
<td>FTP</td>
<td>File Transfer Protocol</td>
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<td>GCP</td>
<td>Good Clinical Practices</td>
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<td>HIV</td>
<td>human immunodeficiency virus</td>
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<td>ICF</td>
<td>Informed Consent Form</td>
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<tr>
<td>IDI</td>
<td>in-depth interview</td>
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<td>IND</td>
<td>investigational new drug</td>
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<td>IoR</td>
<td>Investigator of Record</td>
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<td>IRB</td>
<td>Institutional Review Board</td>
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<td>IT</td>
<td>information technology</td>
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<td>MTN</td>
<td>Microbicide Trials Network</td>
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<tr>
<td>MO</td>
<td>Medical Officer</td>
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<tr>
<td>NIH</td>
<td>National Institutes of Health</td>
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<td>National Institute of Mental Health</td>
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<tr>
<td>OHRP</td>
<td>Office for Human Research Protections</td>
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<tr>
<td>PBMC</td>
<td>Peripheral Blood Mononuclear Cell</td>
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<td>PrEP</td>
<td>pre-exposure prophylaxis</td>
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<td>PRO</td>
<td>Protocol Registration Office</td>
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<td>QA</td>
<td>quality assurance</td>
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<td>QC</td>
<td>quality control</td>
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<td>RE</td>
<td>regulatory entity</td>
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<tr>
<td>RSC</td>
<td>Regulatory Support Center</td>
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<td>RTI</td>
<td>Research Triangle Institute</td>
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<td>SDMC</td>
<td>Statistical Data Management Center</td>
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<td>SMC</td>
<td>Study Monitoring Committee</td>
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<td>SOP</td>
<td>Standard Operating Procedure</td>
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<tr>
<td>SSP</td>
<td>study specific procedures</td>
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<tr>
<td>TDF</td>
<td>tenofovir disoproxil fumarate</td>
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<td>US</td>
<td>United States</td>
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VOICE  Vaginal and Oral Interventions to Control the Epidemic
WRHI  Wits Reproductive Health and HIV Institute
MTN-003D

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INVESTIGATOR SIGNATURE FORM

MTN-003D

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Version 2.0

May 29, 2013

A Study of the Microbicide Trials Network

Funding Agencies:
Division of AIDS, US National Institute of Allergy and Infectious Diseases
US Eunice Kennedy Shriver National Institute of
Child Health and Human Development
US National Institute of Mental Health
US National Institutes of Health

I, the Investigator of Record (IoR), agree to conduct this study in full accordance with the provisions of this protocol. I agree to maintain all study documentation for a minimum of three years after submission of the site’s final Financial Status Report to the US Division of Acquired Immunodeficiency Syndrome (DAIDS), unless otherwise specified by DAIDS or the Microbicide Trials Network (MTN) Coordinating and Operations Center. Publication of the results of this study will be governed by MTN policies. Any presentation, abstract, or manuscript will be submitted to the MTN Manuscript Review Committee, DAIDS, NIMH and other entities for review prior to submission, as required by the MTN Publication Policy.

I have read and understand the information in this protocol and will ensure that all associates, colleagues, and employees assisting in the conduct of the study are informed about the obligations incurred by their contribution to the study.

____________________________
Name of Investigator of Record

____________________________   ______________________________
Signature of Investigator of Record    Date
MTN-003D

An Exploratory Study of Potential Sources of Efficacy Dilution in the VOICE Trial

PROTOCOL SUMMARY

Protocol Chair: Ariane van der Straten, PhD, MPH

Protocol Co-Chairs: Barbara Mensch, PhD; Elizabeth Montgomery, PhD

Sample Size: Stage 1: 88 Participants
              Stage 2: Approximately 108-144 Participants

Study Population: Former VOICE participants at selected MTN-003D sites

Study Sites: VOICE site(s) in sub-Saharan Africa as designated by the MTN Executive Committee

Study Design: Exploratory sub-study of VOICE using qualitative in-depth interviews (IDIs) and focus group discussions (FGDs).

Study Duration: Stage 1: Approximately two months for recruitment and follow-up at each site
                Stage 2: Approximately seven months for recruitment and follow-up at each site

Primary Objectives:

- To explore larger contextual issues and specific aspects of the VOICE trial that positively and negatively affected participants’ actual and reported product use.

- To explore the reasons, motivations and context of engaging in receptive anal intercourse (and rectal use of gel among VOICE participants in the gel group).

Secondary Objective:

- To explore participants’ risk perceptions and motivations to participate in VOICE and the association of these factors with product use or non-use in a prevention trial setting.
1 KEY ROLES

1.1 Protocol Identification

Protocol Title: An Exploratory Study of Potential Sources of Efficacy Dilution in the VOICE Trial
Protocol Number: MTN-003D
Date: May 29, 2013

1.2 Sponsor and Monitor Identification

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Sponsor: US NIMH
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2 INTRODUCTION

2.1 The MTN-003 Study

The Vaginal and Oral Interventions to Control the Epidemic (VOICE) Study (MTN-003), was designed to assess the safety and efficacy of daily dose oral and vaginal formulations of tenofovir and oral emtricitabine/tenofovir disoproxil fumarate (FTC/TDF), also known as Truvada, in preventing human immunodeficiency virus (HIV) acquisition. The VOICE study, a Phase 2B, five-arm, multi-site, randomized, placebo-controlled trial, was open-label with respect to the randomly assigned mode of administration (vaginal or oral), and subsequently double-blinded within each mode. Approximately 5000 participants were randomized to the five study arms in a 1:1:1:1:1 ratio. The VOICE study was implemented in sub-Saharan Africa.

While the trial continued to examine the safety and efficacy of oral Truvada through the entire trial period, two separate reviews of data by an independent Data Safety and Monitoring Board (DSMB), in September and November 2011, respectively, resulted in the oral and vaginal tenofovir arms being dropped from the study early. Although no safety concerns were identified, neither the daily dosing regimen of oral tenofovir nor the 1% tenofovir gel used in the VOICE study was shown to be associated with reduced rates of HIV acquisition. Therefore, the VOICE DSMB recommended that these arms of the study be stopped for futility. The closure of these study arms was in contrast to the previously reported positive results from the Partners PrEP study and Centre for the AIDS Programme of Research in South Africa (CAPRISA) 004. Partners PrEP, which tested both daily dosing of tenofovir and Truvada, found that participants taking a daily regimen of oral tenofovir had an average of 62% fewer HIV infections than those taking placebo.1 The coital dosing regimen of 1% tenofovir gel used in the CAPRISA 004 study was also associated with a significant reduction in HIV acquisition.2

Upon completion of the trial and final analysis, oral Truvada was also found to be ineffective. Therefore none of the three active products tested in the VOICE study – tenofovir gel, oral tenofovir and oral Truvada® – proved to be effective among the 3017 women who were assigned to them. One potential reason may be that participants did not use them daily as recommended.1 Drug was detected in less than a third of blood samples from women who were assigned to use either Truvada or oral tenofovir and in less than a quarter of samples from women designated to use tenofovir gel. Moreover, those least likely to use their assigned products, single women under the age of 25, were also the most likely to acquire HIV. Yet, adherence to product use was calculated to be about 90 percent based on what the participants themselves had reported to trial staff (or by ACASI) and on monthly counts of unused gel applicators and leftover pills. In sharp contrast to this low level of product adherence (based on drug levels), participants’ retention in the trial was very high (>90%).40 Given these results, continued exploration of the reasons for the widespread low adherence is warranted (Stage 2), as well as a better understanding of the context and reasons that motivated women to enroll and remain in the trial despite low use of study products, and this, in the face of a very high HIV incidence rate.

In light of VOICE’s divergent results, we propose to explore the potential factors that may have contributed to efficacy dilution in the trial. MTN-003D, was initially designed after the early closure of the oral and vaginal tenofovir arms, and sought to explore those factors contributing to the dilution of efficacy using qualitative methods (Stage 1). Given the subsequent release of VOICE results in February of 2013 and the availability of drug PK data, Stage 2 of MTN-003D...
has been designed to explore factors influencing adherence in greater depth, including HIV risk perception and motivation to join the trial.

2.2 Dilution of Efficacy

Many factors may contribute to dilution of efficacy results within the context of an HIV prevention clinical trial, including several participant-related behaviors, such as product adherence and sexual practices. Generally, trials attempt to discourage those behaviors that may have a detrimental effect on outcomes through participant-focused counseling. For example, they may provide guidance and support to participants to maintain high levels of product use. However, despite a trial’s best efforts to support adherence and/or discourage sexual behaviors that may contribute to dilution of efficacy, the socio-cultural context, including the trial context, organization of the participant's social environment (i.e., importance and role of partners, family members, and the larger social network), and individual beliefs and attitudes about HIV risk and/or the trial may influence these behaviors. Furthermore, a trial’s efforts to discourage behaviors that contribute to efficacy dilution – through ongoing counseling and messaging – may promote social desirability bias in participant responses about these behaviors. This may in turn limit the accuracy of behavioral measures that might otherwise contribute to an understanding of effectiveness results. In light of this, we propose conducting a qualitative ancillary study, which would explore potential sources of efficacy dilution in the VOICE clinical trial among exited VOICE participants. Based on preliminary data from VOICE, two potential sources of efficacy dilution that currently warrant additional exploration are product adherence and anal sex.

2.2.1 Adherence

Adherence to a trial product and accurate reporting of one’s adherence are both essential to determining a product’s effectiveness. It is unknown what level of participant adherence is needed in order to achieve sufficient levels of drug to provide efficacy. Even with adherence levels as high as 60%, the effectiveness of a product can be reduced to less than half of its true biological efficacy, resulting in a significant decrease in a trial’s ability to detect efficacy. Reported use also plays an important role in estimating product effectiveness. If participant use of a product does not match reported use, a trial will be unable to determine whether lack of effectiveness is due to inefficacy of the actual product or simply lack of use by participants. While VOICE-C, another qualitative ancillary study of VOICE, has been actively exploring factors affecting adherence of VOICE participants at one site in Johannesburg, South Africa, Wits Reproductive Health and HIV Institute (WRHI), results are limited in their ability to explain VOICE futility results. This study plans to build on VOICE-C by more specifically exploring the impact of adherence on VOICE product effectiveness. It will do this in two ways, during Stages 1 and 2: by using VOICE data on adherence to engage participants in an open discussion of non-use and by delving further into the role of the contextual and trial environment in adherence and reporting.

In the absence of a “gold standard,” it is recommended that HIV prevention trials use multiple measures to capture adherence. However, the use of multiple adherence measures often results in some level of discrepancy between measures. It is therefore likely that VOICE participants may have varied their product adherence responses depending on the question and question modality that was used. Any potential difference in reported adherence across measures raises questions around true levels of product adherence as well as the measures themselves. For instance, which adherence measure (self-reported use, pharmacy records, or self-ranking) most accurately reflects actual product use and/or drug detection by PK
Do participants feel more comfortable revealing difficulties with adherence via the qualitative rating scale than when asked directly how much product they used? And, how were the various items on the rating scale interpreted by participants in terms of actual levels of use? Are participants more forthcoming in discussing non-adherence in one-on-one or group interviews, and does the number of interactions with interviewers, a possible proxy for greater trust and rapport, improve accurate reporting? Also, does presentation of final VOICE findings, including individual PK results to participants alter their adherence reporting? Qualitatively exploring questions such as these has been shown to be useful to resolving differences in adherence results and will be essential to better understanding how adherence was understood and reported by participants in VOICE.

In addition to exploring self-reported adherence, this study will examine the role of the contextual environment in adherence. As suggested previously, elements of participants’ socio-cultural environment — e.g. the trial context, cultural norms and attitudes around HIV and research, living arrangements and partner relationships — may play a role in both actual and reported adherence. This study complements and expands upon VOICE-C, which is exploring factors influencing adherence at the community and household levels but is limited to a single VOICE site (WHRI, RSA). Here the topics for exploration will include these elements, but will focus more directly on individual experiences, the dynamic between trial participants and trial staff, and will solicit input from participants at multiple sites. Additionally, VOICE-C’s integration into the VOICE trial may have limited its ability to effectively explore the role of the trial context on adherence and self-reported use. By conducting this study outside of the VOICE trial context and including additional VOICE sites, MTN-003D will expand upon the VOICE and VOICE-C study results, especially in the ability to explore the contribution that the trial environment may have had on VOICE participants’ use of study products.

### 2.2.2 HIV Risk Perception and Motivation for Trial Participation

One possible factor that may contribute to low adherence is participants’ varying perceptions of HIV risk, as well as reasons for joining the trial. These factors were assessed quantitatively in a VOICE exit questionnaire; however MTN-003D, using qualitative exploration, will seek to more thoroughly expand our understanding of their relationship to product use in both Stages 1 and 2.

A woman’s perception of HIV risk is influenced by her individual level behaviors, such as engagement in high-risk sex, as well as the social-cultural context in which she lives. This perception of risk has often been linked to willingness to participate in hypothetical HIV prevention trials and occasionally to interest in and acceptance of an HIV prevention product. Despite these linkages, the question remains: how does one’s perception of HIV risk contribute to product adherence once enrolled in a trial? One might expect that a higher perception of risk would lead to more consistent product use due to a greater desire for protection. However, a recent study in India found that contrary to this hypothesis, increased HIV risk perception was negatively associated with consistent gel use. Indeed, women at higher risk may be less able to adhere to product use for a host of contextual reasons. Further, it is not well understood how regular (e.g., monthly) HIV testing may change individual risk perception and adherence behavior over time. By investigating how the socio-cultural environment influenced perception of risk and ultimately product use among VOICE participants, this study hopes to contribute to a greater understanding of the relationship between these issues.
Other motivations for joining an HIV prevention trial, such as increased access to quality health care, altruism, and financial incentives, and their contribution to product adherence will also be explored.

2.2.3 Anal Sex

Anal sex, whether occurring in a heterosexual or homosexual relationship, is a high-risk sexual activity. A meta-analysis estimated that HIV transmission per sex act is higher for heterosexual anal sex than vaginal sex (1.7% vs. 0.182%) and that condom use during anal sex is often lower. Engaging in heterosexual anal sex has also been shown to be associated with participation in other high-risk sexual activities, including having multiple sexual partners, transactional sex, and sex under the influence of drugs or alcohol. While not widely reported, it is estimated that worldwide more people engage in heterosexual anal sex than homosexual anal sex and there is growing concern that underreporting of heterosexual anal sex may be playing a hidden role in the HIV epidemic in sub-Saharan Africa.

As early as 1998, Karim and Ramjee warned that HIV prevention studies should consider the effect anal sex may have in the context of a microbicide trial, lest a vaginally-applied gel be perceived by participants as protective during anal intercourse. Evidence that anal sex may be preferred over vaginal sex to prevent pregnancy, confer intimacy, or enhance male sexual pleasure may exacerbate this risk. Stage 1 of this study explored both the socio-cultural context that may contribute to anal sex practices and reporting of these practices among VOICE participants as well as perceptions of rectal gel efficacy and use within the trial context in order to better understand how anal sex may contribute to dilution of efficacy.

2.3 Study Hypotheses and Rationale for Study Design

2.3.4 Study Hypothesis

This study is primarily exploratory and is designed to both identify factors that may have affected participant adherence to study product in VOICE, and describe how sexual behaviors, such as anal sex, may have had an effect on product efficacy. As such there is no specific hypothesis that is being tested.

2.3.5 Rationale for Study Design

MTN-003D will use qualitative in-depth interviews and/or focus group discussions with VOICE participants to explore study product adherence and/or anal sex behaviors in greater depth than was measured quantitatively during trial participation. The study approach is designed to encourage honesty and to minimize socially desirable responses, which may have affected participants’ ability/willingness to accurately report during the trial. An in-depth and candid understanding of the various behavioral factors that contribute to the dilution of efficacy may assist in the interpretation of VOICE trial results and inform future studies.

The rationale for adding a second stage to this study is that it offers an opportunity to continue to explore the critical issue of participant product adherence within the context of available biological data on drug use (PK results). Specifically, it will allow us to examine whether participants will be more forthcoming about their personal experience with products, including motivations/reasons for use and non-use, when presented individually with biological data on drug use. We aim to understand reasons and motivations for participants’ adherence level to the study regimen, especially nonuse of product, despite high study retention and high levels of
reported product use. It is anticipated that the provision of PK results to participants will generate more candid discussions of product use during VOICE, compared to discussions in VOICE-C or MTN003D Stage 1.

In Stage 2 of the study, we will also leverage the opportunity to explore how responses to PK results may differ among participants who do and do not have an existing relationship with MTN-003D staff, by enrolling and comparing results from, Stage 1-experienced and Stage 1-naïve participants. It is possible that previously interviewed MTN-003D participants may feel that they cannot contradict their previously reported level of adherence during Stage 1 interviews for fear of negatively impacting their relationship with study staff. Alternatively, lack of rapport may hinder candid discussion with participants not previously interviewed by MTN-003D staff. Additionally, in Stage 2, FGDs will be included. FGDs rely on peer-interactions and a different social dynamic to explore normative rather than individual behaviors. Furthermore, FGDs may provide a more natural interview setting, and thus may facilitate candid discussions of the topics of interest.

3 OBJECTIVES

3.1 Primary Objectives

- To explore larger contextual issues and specific aspects of the VOICE trial that positively and negatively affected participants’ actual and reported product use.

- To explore the reasons, motivations and context of engaging in receptive anal intercourse (and rectal use of gel among VOICE participants in the gel group).

3.2 Secondary Objective

- To explore participants’ risk perceptions and motivations to participate in VOICE and the association of these factors with product use or non-use in a prevention trial setting.

4 STUDY DESIGN

4.1 Identification of Study Design

MTN-003D is a sub-study of VOICE. It is an exploratory study using qualitative research methods, which will be conducted at sites selected by the MTN Executive Committee (EC). VOICE participants will be offered participation in MTN-003D during or after their final VOICE visit. Participants who took part in Stage 1, agreed to one in-depth interview. Participants in Stage 2 of MTN-003D will take part in an in-depth interview and/or a focus group discussion.

4.2 Description of Study Population

The MTN-003D study population will consist of former VOICE participants.
4.3 Time to Complete Accrual

- Stage 1: Approximately two months for recruitment and follow-up at each site
- Stage 2: Approximately seven months for recruitment and follow-up at each site.

4.4 Expected Duration of Participation

For Stage 1 participants, the expected duration of participation is up to three hours total, including administrative and data collection procedures.

For Stage 2 participants, the total duration of study participation is not anticipated to exceed six hours, including administrative and data collection procedures. The duration of participation is dependent upon the scheduling of IDIs and/or FGDs. Each IDI and/or FGD is expected to take up to three hours.

4.5 Sites

MTN-003D participants will be recruited from VOICE sites in sub-Saharan Africa as designated by the MTN Executive Committee.

5 STUDY POPULATION

5.1 Selection of the Study Population and Recruitment

In collaboration with the MTN Statistical Data Management Center (SDMC), a sample of potentially eligible women will be pre-selected for participation in this study. Stage 1 of this study enrolled 88 participants into MTN-003D and interviewed them after they completed their final VOICE visit. Approximately 108-144 participants will enroll into Stage 2 of MTN-003D.

The inclusion and exclusion criteria in Sections 5.2 and 5.3 will be used to ensure the appropriate selection of study participants.

5.2 Inclusion Criteria

Potential participants must meet all of the following criteria to be eligible for inclusion in the study:

1) Able and willing to perform the study procedures
2) Able and willing to provide informed consent in one of the MTN-003D study languages
3) Participated in VOICE and received at least three consecutive months of study product at any time during VOICE trial participation
4) Stage 2 participants must have pharmacokinetic data available
Note: Women from Stage 1 who have PK data available will be considered eligible for Stage 2.

5.3 Exclusion Criteria

Potential participants who meet the following criteria will be excluded from the study:

1) Has any condition that, in the opinion of the Investigator of Record (IoR)/designee, would preclude informed consent, make study participation unsafe, complicate interpretation of study outcome data, or otherwise interfere with achieving the study objectives.

6 STUDY PRODUCT

MTN-003D will not involve the administration of any study product.

7 STUDY PROCEDURES

Additional information on visit-specific study procedures are presented in this section. Detailed instructions to guide and standardize procedures across sites are provided in the MTN-003D Study Specific Procedures (SSP) Manual located at http://www.mtnstopshiv.org.

Given that the study objectives seek to gain insight into the influence of the trial culture and the environment on behaviors that contribute to efficacy dilution (i.e., non-adherence and/or unprotected anal sex), we will conduct all interviews in an environment that feels safe and neutral to participants. Study staff and participants will identify a mutually agreeable location, which feels safe, private and comfortable for the study participant. This location may be a designated neutral study interview/FGD location, the participant’s home (for IDIs), or, if needed, a VOICE site may be used. Additionally, interviews will be conducted by researchers who have had no prior interaction with the VOICE participant, while they were enrolled in the VOICE study.

7.1 Stage 1

7.1.1 Screening and Enrollment - Administrative, Behavioral and Regulatory Procedures

Table 1. Screening and Enrollment Procedures

<table>
<thead>
<tr>
<th>Component</th>
<th>Screening and Enrollment Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative and Regulatory</td>
<td>• Confirm eligibility</td>
</tr>
<tr>
<td></td>
<td>• Obtain written informed consent</td>
</tr>
<tr>
<td></td>
<td>• Collect demographic data</td>
</tr>
<tr>
<td></td>
<td>• Provide reimbursement for study visit</td>
</tr>
<tr>
<td>Behavioral</td>
<td>• Administer questionnaire (Case Report Form (CRF))</td>
</tr>
<tr>
<td></td>
<td>• Conduct in-depth interview (IDI)</td>
</tr>
</tbody>
</table>
Multiple visits may be conducted to complete all required procedures, if necessary.

7.2 Stage 2

7.2.2 Screening and Enrollment- Administrative, Behavioral and Regulatory Procedures

Table 2. Screening and Enrollment Procedures

<table>
<thead>
<tr>
<th>Component</th>
<th>Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative and Regulatory</td>
<td>• Confirm eligibility</td>
</tr>
<tr>
<td></td>
<td>• Obtain written informed consent</td>
</tr>
<tr>
<td></td>
<td>• Collect demographic data</td>
</tr>
<tr>
<td></td>
<td>• Provide reimbursement for study visit</td>
</tr>
<tr>
<td>Behavioral</td>
<td>• Provision of overall VOICE results and individual PK results*</td>
</tr>
<tr>
<td></td>
<td>• Administer questionnaire Case Report Form (CRF)*</td>
</tr>
<tr>
<td></td>
<td>• Conduct in-depth interview (IDI)*</td>
</tr>
</tbody>
</table>

*=if indicated

7.2.1 Follow-up- Administrative, Behavioral and Regulatory Procedures

Table 3. Follow-up Visit Procedures

<table>
<thead>
<tr>
<th>Component</th>
<th>Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative and Regulatory</td>
<td>• Provide reimbursement for study visit</td>
</tr>
<tr>
<td></td>
<td>• Provision of overall VOICE results and individual PK results*</td>
</tr>
<tr>
<td></td>
<td>• Administer questionnaire Case Report Form (CRF)*</td>
</tr>
<tr>
<td></td>
<td>• Conduct in-depth interview (IDI)*</td>
</tr>
<tr>
<td></td>
<td>• Conduct focus group discussion (FGD)*</td>
</tr>
</tbody>
</table>

*=if indicated

Combining the Screening and Enrollment Visit with Follow-up Visit(s) is permitted. In addition, multiple visits may be conducted to complete all required procedures, if necessary.

7.3 Demographic and Behavioral Data

A brief questionnaire will be completed on a CRF to capture and/or update demographic, sexual behavior data and current involvement in any trial or HIV-related study (e.g., to allow for descriptive statistics to assess the characteristics of MTN-003D participants). The questionnaire will also capture a participant’s reaction and comments after provision of overall VOICE results and of her PK results.

7.4 Stage 1

7.4.1 In-depth Interview Procedures

Stage 1, qualitative interviews covered two main topics, adherence and anal sex. In-depth interview guides were developed, and administered by qualified female social scientists. Guides contained key research questions relating to the main topics of interest, and suggested probes. Interviews were audio-recorded and transcribed and translated into English (if applicable).
Adherence
Discussions on adherence focused on exploring 1) potential discrepancies between actual and reported product use, and 2) reasons underlying actual and reported product use as they are influenced by the socio-cultural environment.

Motivations to join the trial, and risk perception in particular, were explored as one of the explanatory factors contributing to suboptimal adherence. This topic served as an icebreaker and a way to encourage the participant to engage in the interview process. We investigated participant risk perception, how the socio-cultural environment contributes to that perception, and the way perceptions may have influenced product usage. We also explored other reasons for joining the trial and their effect on motivation to use the product and actual product use. The discussion moved progressively from a general discussion of risk perception to how risk perception and other factors related to participant interest/willingness to use study products during the trial.

For Stage 1 participants, following the discussion of risk perception/motivations, several qualitative tools, such as short scenarios, visual VOICE study timeline displays, show cards and/or open-ended questions were used to explore participant’s understanding of the adherence questions, including the qualitative rating scale that was administered in VOICE. Probes were designed to help understand how women interpreted these questions in general, and in relation to their experience of product use. Participants were also asked to provide their opinions about why differences existed between the various adherence measures.

Finally, additional questions and probes were designed to delve further into the social and cultural norms that might have played a role more broadly in both reported and actual adherence levels. Larger contextual issues that might have affected participants’ actual and reported product use such as culture, community, and the social environment, as well as the trial-specific context (e.g., power issues between research staff and participants, trial procedures, interviewing modes, and counseling, including the Voice Adherence Strengthening Program), were a focus of this investigation.

Anal Sex
Stage 1 discussions about anal sex and rectal gel use followed the discussion of product adherence, using an interview guide developed by the investigators. Similar to the discussion of adherence, an additional qualitative tool (e.g., body mapping activity) was used to supplement this discussion. While a subset of participants who reported having anal sex were purposefully sampled for this study, all participants were asked about the topic. Those who reported the behavior were not alerted that this was a stratification criterion and the interview was not targeted towards their specific reporting of the behavior. The interviewer did not know what participants reported about anal sex behavior during the VOICE study.

Participants were first asked to describe in their own words and/or demonstrate using techniques such as body mapping what is meant by anal sex to verify their understanding of the question administered during VOICE using Audio Computer-Assisted Self-Intervewing (ACASI). Depending on their understanding, participants were provided an accurate definition of anal sex. Given the sensitivity of the topic, this clarification was followed by open-ended questions. Personal experiences were discussed only if the participant acknowledged engaging in this behavior.
The occurrence of rectal gel application among VOICE participants in the vaginal gel group was also investigated using a similar methodology. Participants were also probed on other women’s and their own potential non-vaginal use of study gel and the reasons for use or non-use.

7.5 Stage 2

Participant Selection:

In addition to the study eligibility criteria, Stage 2 participants will be systematically selected and approached for participation based on several characteristics, including, but not limited to: PK-defined adherence-level, VOICE study product assignment, HIV status, previous enrollment in MTN 003D and age, see MTN-003D SSP for additional details.

HIV-positive women will be invited for a single IDI. The number of seroconverters at each site will be too small to consider a HIV-positive only FGD, and mixing seronegative and seropositive participants in the same group may introduce various biases (e.g., social acceptance bias, sensitivity bias), in addition, participant confidentiality regarding serostatus may be compromised in such a group setting. Therefore, HIV-positive women will not be included in the FGDs.

HIV-negative women will be invited for either a single IDI and/or an FGD. We will aim to interview a set number of HIV-negative “high adherers” per treatment assignment at each site. In addition, drawing from both women who participated in 003D Stage 1 and those who did not, we will aim to enroll a set number of HIV-negative women classified as “low adherers” per treatment assignment and conduct IDIs. HIV-negative “low adherer” participants who are identified by site staff to be “forthcoming” when presented with PK results regarding their actual product experience and challenges may be invited to participate in a subsequent FGD. In these cases, staff will ask these participants if they are willing to a) discuss their adherence challenges with their peers, and b) help FGD facilitators encourage other participants to be forthcoming regarding their experiences and challenges with study products. As such FGDs will be limited to participants who are low adherers. As described above, FGDs are an important data collection method in which to capture group attitudes and norms. The goal is for women to openly share stories and discuss product experiences within a setting where they are not being individually questioned by a researcher.

Ideally, FGDs will be homogenous by treatment assignment. In addition to any IDI participants invited to participate, FGD participants will be recruited in sequential order from a list provided by the Data Coordinating Center, see Section 10 for additional details.
7.5.1 IDI and FGD Procedures

Qualitative interviews will cover participant adherence (see Section 7.6.2). Stage 2 in-depth interview guides will be administered by qualified female social scientists. Guides will contain key research questions relating to the main topics of interest, and suggested probes. Interviews will be audio-recorded and transcribed and translated into English (if applicable).

7.5.2 Topics to be explored during the IDIs and FGDs

Discussions on adherence will focus on exploring 1) potential discrepancies between actual and reported product use, and 2) reasons underlying actual and reported product use as they are influenced by the socio-cultural environment.

Motivations to join the trial, and risk perception in particular, will be explored as one of the explanatory factors contributing to suboptimal adherence. This topic will serve as an icebreaker and a way to encourage the participant to engage in the interview process. We will investigate participant risk perception, how the socio-cultural environment contributes to that perception, and the way perceptions may have influenced product usage. We will also explore other reasons for joining the trial and their effect on motivation to use the product and actual product use. The discussion will move progressively from a general discussion of risk perception to how risk perception and other factors relate to participant interest/willingness to use study products during the trial and challenges to follow study instructions for product use.

Various tools will be used to facilitate interviews and discussion of sensitive topics with Stage 2 participants. These may include visual displays of PK data/results, timelines (also used in Stage 1), show-cards listing topics and themes previously elicited in other studies, including Stage 1 MTN-003D qualitative interviews, and newspaper clippings of VOICE results, when appropriate. These tools can help to deepen our exploration of adherence/non-adherence issues, trial experience and socio-cultural context influencing product use and sensitivity around disclosure.
to staff of actual product-related behavior. The topics of discussion will include systemic non-use of study products in VOICE (for the majority – those with no to very few samples with drug present) and/or ability to sustain consistent product use as part of the VOICE trial (for the minority – those with drug in most their samples, i.e. high adherers) particularly among younger women.

Questions were/are designed to help understand how women interpreted these questions in general, and in relation to their experience of product use. Culturally appropriate visual displays (e.g., pie or bar charts, images of object piles, etc.) representing aggregate levels of adherence based on self-rating scores of adherence, product dispensation and return, and/or self-reported product use at the site level, may be used to further explore reported adherence. Participants will also be asked to provide their opinions about why differences may exist between the various measures.

Finally, additional questions and probes will be designed to delve further into the social and cultural norms that may play a role more broadly in both reported and actual adherence levels. Larger contextual issues that affect participants’ actual and reported product use such as culture, community, and the social environment, as well as the trial-specific context use of products prompted by imminent study visits (“white coat effect”), will be a focus of this investigation. Further potential power issues between research staff and participants, trial procedures, interviewing modes, and counseling, including the Voice Adherence Strengthening Program may be explored.

8 ASSESSMENT OF SAFETY

MTN-003D is a minimum-risk research: it does not involve a study product and does not involve any clinical, laboratory or other procedures associated with significant risk to participants. Therefore, few safety concerns are expected as a result of study participation. The study site IOIR is responsible for continuous monitoring of all study participants and for alerting the protocol team if unexpected safety events arise. Study sites will have written procedures for ensuring prompt reporting to the Institutional Review Board (IRB)/Ethics Committees (EC), of any unanticipated problem involving risks to subjects or others. No safety events will be captured in the study database.

8.1 Safety Monitoring

Site IOIRs are responsible for continuous close safety monitoring of all study participants, and for alerting the protocol team if unexpected concerns arise. Since the safety risks are minimal in this study, if any such unexpected concerns arise, the team will notify an appropriate on-site staff member (e.g., site clinician, counselor, and/or nurse) affiliated with the clinical research site (CRS) for follow-up.

The Manual for Expedited Reporting of Adverse Events to Division of AIDS (DAIDS) will not be used for this study for the following reasons: 1) this study does not involve a study drug and is non-invasive; and, 2) adverse events are not primary or secondary objectives of the study. Untoward clinical or medical occurrences reported by study participants to have been experienced during study participation will be recorded in participant file notes.
8.2 Social Harms Reporting

Participants may experience social harms — non-medical adverse consequences — as a result of their participation in the study. Social harms that are judged by the IoR to be serious or unexpected will be reported to responsible site IRB/ECs at least annually, or according to their individual requirements. In the event that a participant reports a social harm, a Social Harms Report CRF will be completed and the participant will be referred to a counselor at the research site. Every effort will be made by study staff to provide appropriate care and counseling to the participant, and/or referral to appropriate resources for the safety of the participant as needed. Research Triangle Institute (RTI) will provide listings of social harms reported by study participants to the protocol team on an ongoing basis. Additionally, a Standard Operating Procedure (SOP) for emergency procedures will be developed for the MTN-003D research team to be used in situations of social harm and when situations that require immediate attention are identified, including domestic violence, suicidal ideation or behavior. The procedures will provide clear guidelines for researchers to refer participants in these situations to the relevant institution/body and to provide feedback to the protocol team.

9 CLINICAL MANAGEMENT

There are no additional clinical management considerations for participants enrolled in this study. Participants who express concerns with social, psychological or clinical issues will be referred for appropriate care to services available at the CRS, or at nearby partnering facilities.

9.1 Criteria for Early Termination of Study Participation

Participants may voluntarily withdraw from the study for any reason at any time. The IoR also may withdraw participants from the study to protect their safety and/or if they are unwilling or unable to comply with required study procedures. Participants also may be withdrawn if the study funder, the MTN, government or regulatory authorities, including the Office for Human Research Protections (OHRP), other government or regulatory authorities, site IRBs/ECs terminate the study prior to its planned end date. Study staff members will record the reason(s) for all withdrawals in participants’ study records.

10 ANALYTICAL CONSIDERATIONS

10.1 Overview and Summary of Design

MTN-003D is an exploratory sub-study of VOICE using qualitative research methods, specifically in-depth interviews and focus group discussions.

10.2 Study Endpoints

The main outcome of interest in MTN-003D is the effect of the trial culture and a participant’s environment on VOICE study product adherence and anal sex practices.
10.3 Primary Study Hypotheses

This is a descriptive and exploratory study, which is not designed to test a hypothesis.

10.4 Number of Participants

MTN-003D will include a stratified sample of 88 participants in Stage 1 and approximately 108-144 participants in Stage 2. Participants will be systematically selected from former VOICE participants at participating VOICE sites. In Stage 1, approximately half of the study sample represented gel users (both active and placebo) and half represented tablet users (either tenofovir, Truvada, or placebo). At each site, selection of participants were stratified to ensure that ~10% of the sample included women who reported engaging in anal sex and another ~10% of the sample encompassed women who acquired HIV during the trial. Valid data from all women interviewed will be considered in the primary analysis.

In Stage 2 of this study, participants with PK drug results available will be considered eligible. Assignment to either a FGD or IDI or both is dependent upon participants’ level of product adherence, see SSP for additional details regarding sampling.

While the number of participants in each group at a given site is relatively small, we anticipate they will still be sufficient to reach theoretical saturation. Furthermore, diversity across participants and representativeness of the overall VOICE trial will be ensured by enrolling participants at each of the three participating VOICE countries, Uganda, Zimbabwe, and South Africa.

Table 4. Estimated Overall Stage 2 Sample per Country

<table>
<thead>
<tr>
<th>Adherence Level**</th>
<th>Study Group</th>
<th>HIV(+)</th>
<th>HIV(-)</th>
<th>Total N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Adherence per PK results</td>
<td>Gel</td>
<td>2 IDI</td>
<td>4 IDI/2 FGD⌂</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Tablet</td>
<td>2 IDI</td>
<td>4 IDI/2 FGD⌂</td>
<td>18</td>
</tr>
<tr>
<td>High Adherence per PK results</td>
<td>Gel</td>
<td>2 IDI</td>
<td>4 IDI</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Tablet</td>
<td>2 IDI</td>
<td>4 IDI</td>
<td>6</td>
</tr>
<tr>
<td>Approximate Total N</td>
<td>8</td>
<td>40</td>
<td>48</td>
<td></td>
</tr>
</tbody>
</table>

⌂ Approximately 6 participants will take part in each FGD

*At the discretion of MTN-003D leadership, and in consultation with DAIDS and NIMH, these projections may be modified

** Women will be drawn from Stage 1 and 003D naïve participants. If quota for low and high adherence cannot be filled we will recruit women with inconsistent adherence (some drug detected in their plasma). See the SSP for additional details.

10.5 Data, Study Monitoring and Analysis

Demographic and behavioral data will be captured by CRF and entered in an electronic database (e.g., CSPRO). Qualitative data will be audio-recorded, transcribed, translated and coded for qualitative analyses, using NVivo or a similar qualitative software. RTI will function as the overall data coordinating center for quantitative and qualitative data and will lead all analyses.

10.5.1 Study Monitoring Committee (SMC)

No SMC review will be performed for this study given the short study timeline and the nature of the study. Protocol team members from RTI International and FHI 360 will provide oversight of
study operations and ensure the study is implemented in accordance with MTN standards, as defined in the MTN Manual of Operating Procedures.

Interim Reviews: The study team will suspend data collection after ~12 IDIs and ~3 FGDs with low-adherers provided that at least 2 countries have contributed data, to determine whether to: a) proceed with full data collection per protocol; b) limit data collection activities; or c) terminate data collection activities. This decision will be made amongst the Protocol Chairs and key members of the protocol team, based on an evaluation as to whether the interviews are successful in yielding new data and insight into VOICE non-adherence.

10.5.2 Data Analysis

Quantitative Analysis

While MTN-003D will not include formal quantitative analysis, we will use the following descriptive statistics to assess the characteristics of MTN-003D participants: the number and percent in each category for categorical variables, (e.g., marital status, employment, oral vs. vaginal group, self-reported product use and anal sex per VOICE CRF and ACASI data), and the mean or median and range for continuous variables (i.e., age, education). No formal statistical testing will be conducted.

Qualitative Analysis

Data Sources

The qualitative data from MTN-003D will include two main data sources:

- Handwritten notes and summaries of IDIs and FGDs
- Transcripts from audio-recorded IDIs and FGDs

Analysis Overview

The following section provides a brief overview of the analysis process; however, a more detailed description of the qualitative analysis will be presented in the study analysis plan.

Qualitative analyses from MTN-003D study will use a variety of techniques to provide exploratory findings that will describe, in depth, contextual factors that affected participants' actual and reported product use, as well as engagement in anal intercourse. The primary source of qualitative data used in the MTN-003D analysis will consist of raw textual data. Qualitative data will be audio-recorded, transcribed, translated and coded for qualitative analyses, using NVivo or a similar qualitative software. Data coding will be used as a primary analytical approach, for data reduction, that is, to summarize, extract meaning, and condense the data. MTN-003D transcripts will be coded first through descriptive coding for key themes and topics, using a preliminary codebook (see section on Codebook Development and Coding Process below). Additional codes will be identified through an iterative process of reading the textual data to identify emergent themes, and the codebook will be modified accordingly. In addition to descriptive codes, pattern codes, which achieve a greater level of abstraction, will be used to start linking themes and topics together in order to explore the relationship between contextual factors and sources of efficacy dilution. Whenever possible, we will also compare study sites and explore differences or similarities in response to the trial and the study regimen due to different socioeconomic, cultural and geographical contexts. The analysis will be done by the investigative team, working interactively through emails, and regular phone or face-to-face
meetings. The findings and interpretations of the data will be critically discussed until there is group consensus on the dominant themes and meanings contained in the data.38

The primary final output of the qualitative analysis will include a synthesized report with representational quotes that will describe the subjective contextual experiences of trial participants and how they influenced adherence, anal sex, and reporting of these behaviors. Any emerging differences in results by “stratifying” groups or variables will be described.

The findings from MTN-003D may contribute to our understanding of the VOICE futility results and in turn inform future trials of this nature. Specifically, the data may suggest strategies to minimize behaviors that contribute to dilution of efficacy, such as non-adherence and anal sex, as well as strategies for improving the accuracy of measurements of these behaviors.

**Codebook Development and Coding Process** 39

Coding is an essential process for data reduction necessary for the management and interpretation of large amounts of qualitative data. To ensure the quality of the coding, staff at RTI in collaboration with site staff and other MTN-003D team representatives will develop a codebook and study procedures for coding and analysis of all of the qualitative data. Each code will be operationally-defined and refined in an iterative way, as needed. Transcripts will be coded using a qualitative software package such as Nvivo.

During the study development stage, a set of preliminary codes will be developed based on the research questions of this study. The analysis coding structure will be hierarchical, and will reflect the topics/themes covered in the interview guides. After the first 2-3 rounds of interviews are completed, each group member will apply this initial set of thematic codes to a common transcript, discuss their coding experiences (via email, a meeting, or conference call), and agree on expanding and modifying code names and definitions when necessary. We will generate substantive and conceptual categories through an iterative process of reading the data, and generating codes based on the data and on key themes or topics identified a priori, applying the codes to the data, and refining these as we continue to read and code the data. Thus, codes will be centered on the main topics of interest (product reported and actual use and anal intercourse) and the hypothesized contextual spheres of influence. However, by nature, the qualitative research process is iterative, and the Nvivo software allows for the generation of new codes for emergent themes that were not identified a priori by the research team. The software also allows for coders to insert descriptive comments and memos to themselves and others as they are working, and to code for concepts not spelled out in verbatim text, such as “contradiction,” when a participant contradicts oneself.

Once finalized, the codebook will be used for a final recoding all of the transcripts. Comprehensive listings of all coded quotations for every code (as well as “families” of related codes) will be generated in Nvivo. We will consider the coded dataset in entirety, and “stratify” the coded quotations by the site, self-reported adherence levels, reported anal sex, and study product group (e.g. oral vs. vaginal) when applicable. Depending on findings from the cluster analysis, we may conduct additional grouping and stratifications of the data.

The coding process will involve a core group of 2-3 analysts who will frequently communicate (via email, phone or in person meetings) and discuss their use of the codebook and application of the codes during the coding process. A pre-selected number of transcripts will be double-coded by two coders to establish intra-coder and inter-coder reliability. These measures can be automatically generated in Nvivo. Following this process, the coding team will discuss (in person
or via teleconference) the coding discrepancies, which will ultimately be resolved through consensus. This process will continue until the inter-coder reliability is sufficiently high, defined as 80% or above. Thereafter each remaining text will be coded by one analyst only within Nvivo. Regular discussions among the coding team will ensure that coding remains standardized and reliable.

11 DATA HANDLING AND RECORDKEEPING

11.1 Data Management Responsibilities

Study CRFs will be developed by RTI in conjunction with the protocol team and will be manually double-entered in an electronic database. Quality control reports and queries will be routinely generated and distributed by RTI for verification and resolution. As part of the study activation process, each study site must identify all materials to be used as source documents. Transcriptions of interviews will be generated in the field and electronically transferred to RTI using a secure File Transfer Protocol (FTP) site, where they will be uploaded and managed using the qualitative software package Nvivo.

RTI will act as a hub, and manage all data for the study. A convention for file naming will be developed, and all data will be labeled according to this process. Original language and translated transcripts will be transferred to RTI as they are completed. RTI will save all versions of all files on a secure, password-protected server.

11.2 Source Documents and Access to Source Data/Documents

All study sites will maintain source data/documents in accordance with Requirements for Source Documentation in DAIDS Funded and/or Sponsored Clinical Trials. (http://rsc.techres.com/policiesandregulations/)

For MTN-003D, source documentation may include recruitment logs, enrollment records, visit checklists, CRFs, interview data, participant file notes, and electronic audio files. Essential documentation for the study also includes all versions of the protocol, informed consent forms, operating procedures and key communication with the protocol team. In accordance with U.S regulations, each IoR/designee will maintain, and store securely, complete, accurate and current study records throughout the study. Thereafter, instructions for record storage will be provided by DAIDS. No study records, may be moved to an off-site location or destroyed prior to receiving approval from DAIDS. Audio files will be transcribed and immediately destroyed following a transcription quality assurance check. The site IoR or designee will be responsible for ensuring that these files have been destroyed.

11.3 Quality Control (QC) and Quality Assurance (QA)

At the field level, the study coordinator(s) will check the quality of the transcripts and translations to ensure that they reflect the content of the interview, and then send each transcript to RTI for additional quality control. CRFs will be reviewed at the site and transmitted to RTI where they will be reviewed and queried. All queries will be resolved through a standardized QC reporting mechanism.
All study sites will conduct quality control and quality assurance procedures in accordance with current DAIDS policies. (http://rsc.tech-res.com/policiesandregulations/)

12 CLINICAL SITE MONITORING

FHI 360 staff or designee will review study records during the course of the study, however no formal clinical monitoring will be conducted. FHI 360 staff or designee will examine the following:

- Review informed consent forms, procedures, and documentation
- Perform source document verification to ensure the accuracy and completeness of study data
- Assess implementation and documentation of internal site quality management procedures

The IoR/designee will allow study monitors to inspect study facilities and documentation (e.g., informed consent forms, clinic records, other source documents, CRFs), as well as observe the performance of study procedures. The IoR/designee also will allow inspection of all study-related documentation by authorized representatives of the US OHRP, NIH, National Institute of Allergy and Infectious Diseases (NIAID), and/or contractors of the NIH, and other local or US regulatory authorities, and representatives of the MTN. A site visit log will be maintained at the study site to document all visits.

13 HUMAN SUBJECTS PROTECTION

Site investigators will make efforts to minimize risks to participants. Participants and study staff members will take part in a thorough informed consent process. Before beginning the study, the IoR will have obtained IRB/EC approval. The IoR will permit audits by the National Institutes of Health (NIH) or any of their appointed agents, local authorities, site IRBs/ECs, representatives of the MTN, and Office for Human Research Protections (OHRP).

13.1 Institutional Review Boards/Ethics Committees

Each participating institution is responsible for assuring that this protocol, the associated site-specific informed consent form, and study-related documents as required, are reviewed by an IRB/EC responsible for oversight of research conducted at the study site. Any amendments to the protocol must be approved by the responsible IRBs/ECs prior to implementation.

Each IoR/designee will make progress reports to the IRBs/ECs within three months after study termination or completion. These reports will include the total number of participants enrolled in the study, the number of participants who completed the study, all changes in the research activity, and all unanticipated problems involving risks to human subjects or others. Study sites
will submit documentation of continuing review to the DAIDS Protocol Registration Office in accordance with the most current DAIDS policies at the time of registration.

13.2 Protocol Registration

Prior to implementation of this protocol, and any subsequent full version amendments, each site must have the protocol and the protocol consent forms approved, as appropriate, by their local IRB/EC and any other applicable regulatory entity (RE). Upon receiving final approval, sites will submit all required protocol registration documents to the DAIDS Protocol Registration Office (PRO) at the Regulatory Support Center (RSC). The DAIDS PRO will review the submitted protocol registration packet to ensure that all of the required documents have been received.

The site-specific informed consent form (ICF) will not be reviewed or approved by the DAIDS PRO, and the site will receive an Initial Registration Notification when the DAIDS PRO receives a complete registration packet. Receipt of an Initial Registration Notification indicates successful completion of the protocol registration process. Sites will not receive any additional notifications from the DAIDS PRO for the initial protocol registration. A copy of the Initial Registration Notification should be retained in the site's regulatory files.

Upon receiving final IRB/EC and any other applicable RE approval(s) for an amendment, sites should implement the amendment immediately. Sites are required to submit an amendment registration packet to the DAIDS PRO at the RSC. The DAIDS PRO will review the submitted protocol registration packet to ensure that all the required documents have been received. Site-specific ICF(s) will not be reviewed and approved by the DAIDS PRO and sites will receive an Amendment Registration Notification when the DAIDS PRO receives a complete registration packet. A copy of the Amendment Registration Notification should be retained in the site's regulatory files.

For additional information on the protocol registration process and specific documents required for initial and amendment registrations, refer to the current version of the DAIDS Protocol Registration Manual.

13.3 Study Coordination

Close coordination between protocol team members is necessary to track study progress, respond to queries about proper study implementation, and address other issues in a timely manner.

Study implementation will be directed by this protocol, which may not be amended without prior written approval from the Protocol Chair and DAIDS Medical Officer. Study implementation will also be guided by a common Study Specific Procedures (SSP) manual that provides further instructions and operational guidance on conducting study procedures and associated data processing. Standardized study-specific training will be provided to all sites by RTI, FHI 360, or other designated members of the Protocol Team.
13.4 Risk Benefit Statement

13.4.1 Risks

Psychological Harms

MTN-003D will ask questions that may cause individuals discomfort given the personal nature of questions. Stress and feelings of guilt or embarrassment may arise simply from thinking or talking about one's own behavior or attitudes on sensitive topics. This could result in undesired changes in thought and emotion.

While the risk of psychological harm is anticipated to be minimal, and study staff will inform participants that they can choose not to answer questions at any time, study staff will collect information on participants who report a change in mood as a result of study participation. In addition, study staff will ensure that participants have access to proper clinical resources to address psychological harms.

Participation in research includes the risks of loss of confidentiality and discomfort with the personal nature of questions. All FGD participants will be asked and strongly encouraged to respect each other's confidentiality, but participants who participate in the FGDs may still disclose what other participants said during the group discussion. Furthermore, all FGD participants will be asked to use pseudonyms for themselves and for anyone they may talk about during the course of the FGD.

Social Harms

Participation in research includes the risk of loss of confidentiality. Although the study site will make every effort to ensure that safeguards are in place that protect participant privacy and confidentiality, it is possible that participants' involvement in the study may result in study-related social harms.

Data on the occurrence of potential social harms will be collected from all participants. These data will be reported via CRF and analyzed on an ongoing basis and the protocol team will monitor, evaluate and adjust operations to reduce the potential for such occurrences.

13.4.2 Benefits

There are no direct benefits to participating in this study. However, the information that participants provide may help health professionals develop better ways to improve communication and understanding between researchers and participants in HIV prevention studies.

13.5 Informed Consent Process

Written informed consent will be obtained from each study participant prior to completing any study procedures. In obtaining and documenting informed consent, the IoR and their designees will comply with applicable local and US regulatory requirements and will adhere to GCP and to the ethical principles that have their origin in the Declaration of Helsinki.

Study staff must document the informed consent process in accordance with the Requirements for Source Documentation in DAIDS Funded and/or Sponsored Clinical Trials (http://rsc.tech-
Participants will be provided with copies of the informed consent forms if they are willing to receive them.

13.6 Participant Confidentiality

All study procedures will be conducted in a location agreed upon by the participant, and every effort will be made to protect participant privacy and confidentiality. Each study site will implement confidentiality protections that reflect the local study implementation plan and the input of study staff and community representatives will be obtained to identify potential confidentiality issues and strategies to address them. In addition to local considerations, the protections described below will be implemented at all sites.

All study-related information will be stored securely at the study site. All participant information will be stored in locked areas with access limited to study staff. Participants' study information will not be released without their written permission, except as necessary for review, monitoring, and/or auditing by the following:

- Study staff
- Site IRBs/ECs
- Representatives of the US OHRP, NIH, National Institute of Allergy and Infectious Diseases (NIAID), and/or contractors of the NIH, and other local or US regulatory authorities, and of the MTN

After receiving appropriate approval, all study documents/data will be properly disposed of, including the proper destruction and/or deletion of paper files, electronic study data, electronic documents and audio files.

13.7 Special Populations

13.7.1 Pregnant Women

Pregnancy is not exclusionary. Due to the nonclinical nature of this study, no pregnancy-related risks are anticipated in MTN-003D.

13.7.2 Children

MTN-003D will enroll former VOICE participants who were age 18 through 45 years (inclusive) at the time of screening, as verified per site SOPs, thus children will not be considered eligible for this trial.

13.8 Compensation

Pending IRB/EC approval, participants will be compensated for time and effort in accordance with requirements and standards set forth by local IRBs.

13.9 Study Discontinuation

This study may be discontinued at any time if the study funder, the MTN, government or regulatory authorities, including the Office for Human Research Protections (OHRP), other
government or regulatory authorities, site IRBs/ECs terminate the study prior to its planned end date.

14 PUBLICATION POLICY

DAIDS/NIAID and MTN policies will govern publication of the results of this study.
APPENDIX I: Sample Informed Consent Document

SAMPLE INFORMED CONSENT FORM
DIVISION OF AIDS, NIAID, NIH

MTN-003D

An Exploratory Study of Potential Sources of Efficacy Dilution in the VOICE Trial

Version 2.0

May 29, 2013

PRINCIPAL INVESTIGATORS:
PHONE:

INFORMED CONSENT

You are being asked to take part in this research study because you are a woman who took part in the VOICE trial and received study product for at least three months. Approximately 80 women will participate in this study at multiple sites. Before you decide if you want to join this study, we want you to know about the study. This Screening/Enrollment consent form gives you information about this study. MTN-003D staff will talk with you about the study and answer any questions you may have.

YOUR PARTICIPATION IS VOLUNTARY

Before you decide whether to be in MTN-003D, we would like to explain the purpose of the study. If you decide to enroll in this study, you may decide to withdraw from the study at any time. There will be no penalty for refusing to participate or choosing to withdraw from this study.

PURPOSE OF THE STUDY

The main goal of this study is to better understand VOICE participants’ use of study product and sexual behavior while participating in VOICE.

STUDY PROCEDURES

There are no medical procedures or drugs involved in this research study. If you agree to join this study, you will have an interview in the presence of one or two MTN-003D research staff members. If you agree, the interviewer will ask you some brief questions and write your responses on a form. The interviewer will also ask more in-depth questions, during which time she may take notes and will audio-record your conversation. None of the clinic staff who worked with you when you participated in VOICE will be involved with this study nor will they have any knowledge of the specific responses that you provide.

You will be asked some general questions, such as your age, education, living situation, relationship status, and health. The interviewer will also ask questions about your experiences while participating in the VOICE trial. These will include questions about different ways women used their study product, your use of the study products and your understanding of the questions in VOICE that asked about product use and sexual behaviors. The interviewer will discuss your opinions about sexual behavior in your community, including anal sex. Anal sex is when a male inserts his penis into a woman’s anus. You will not be required to discuss your personal sexual behavior.
We expect the interview procedures will take approximately 3 hours and will be completed at a place agreed upon by you and the study staff which may be your home, a designated neutral study interview location, the clinic you went to for your VOICE visits or another convenient place of your choice.

To obtain information about your participation in VOICE, the MTN-003D study team will need to consult your VOICE research records. By signing this form, you are giving the MTN-003D study team permission to look up and record the needed information from your research record.

RISKS AND/OR DISCOMFORTS
During the interview we may ask you some questions that cause you to feel embarrassed or uncomfortable. You can choose not to answer questions in the interview at any time. It is also possible that people or family members may find out you are participating in this study. As a result, they may ask questions about the study, treat you unfairly, or you may encounter problems in being accepted by your family and/or community.

Another possible risk of this study is loss of confidentiality of the information you give. Every effort will be made to protect your confidential information, but this cannot be guaranteed. To reduce this risk, we will strictly protect the information recorded during your interview. The audio recording, notes, and analyses from these materials will be kept confidential. This means that no one other than the MTN-003D interview team will have access to your responses. The information that links you to the research materials will be kept in a secure location. Your voice recordings will also be kept in a secure location and only people involved with the study will have access to these recordings. When the information on the voice recording is typed onto paper, the recording will be destroyed. Study leaders will make sure this happens.

In the unlikely event that you get injured as a result of your study participation, it is important that you know the US National Institutes of Health (NIH) does not have a mechanism to provide direct compensation for research-related injury.

NEW INFORMATION
You will be told about new information from this or other studies that may affect your health, welfare or willingness to stay in this study.

BENEFITS
There are no direct benefits to participating in this study. However, the information you provide may help researchers improve counseling materials about product use and sexual behavior, and ways to improve reporting these behaviors in future studies.

REASONS WHY YOU MAY BE WITHDRAWN FROM THE SUBSTUDY WITHOUT YOUR CONSENT
You may be removed from this study without your consent for the following reasons:

- The study is stopped or canceled
- The study staff feels that staying in the study would be harmful to you
- The study is stopped by NIAID, the MTN, the Office for Human Research Protections (OHRP), other government or regulatory authorities, or site IRBs/ECs
- Other administrative reasons
ALTERNATIVES TO PARTICIPATION
There may be other studies going on here or in the community that you may be eligible for. If you wish, we will tell you about other studies we know about.

COSTS TO YOU
There is no cost to you for being in this study.

REIMBURSEMENT
[Sites to insert information about local reimbursement:] You will receive [$xx] for your time, effort, and travel for your MTN-003D visit.

CONFIDENTIALITY
We will do our best to make sure that the personal information gathered for this study is kept private, and it will not be shared with VOICE site staff. However, absolute confidentiality cannot be guaranteed. Your personal information may be disclosed if required by law. Any publication of this study will not use your name or identify you personally.

The Microbicide Trials Network (MTN) study is sponsored by the US NIH.

Your records may be reviewed by any or all of the following:

- The MTN-003D study staff
- [insert applicable local authorities, e.g., Ministry of Health, medicine control authority]
- Site IRBs/ECs
- Representatives of the US OHRP, NIH, National Institute of Allergy and Infectious Diseases (NIAID), and/or contractors of the NIH, and other local or US regulatory authorities, and of the MTN

PROBLEMS OR QUESTIONS
If you ever have any questions about this study, you should contact [insert name of the investigator or other study staff] at [insert telephone number and/or physical address].

If you have questions about your rights as a research participant, you should contact [insert name or title of person on the IRB/EC or other organization appropriate for the site] at [insert telephone number and/or physical address of above].

If you have questions about whom to contact at the research site, you should contact [insert name of the investigator or community educator or community advisory board (CAB) member] at [insert telephone number and/or physical address].

SIGNATURES
[Insert signature blocks as required by the local IRB/EC:] If you have read this consent form, or had it read and explained to you, and you understand the information, and voluntarily agree to participate in the study, please sign your name or make your mark below.

____________________ ________________________ ______________
Participant Name   Participant Signature  Date
(print)    or Mark
APPENDIX II: Sample Informed Consent Document

SAMPLE INFORMED CONSENT FORM
DIVISION OF AIDS, NIAID, NICHD, NIMH, NIH

MTN-003D

An Exploratory Study of Potential Sources of Efficacy Dilution in the VOICE Trial

Version 2.0

STAGE 2 PARTICIPANTS

May 29, 2013

PRINCIPAL INVESTIGATORS:
PHONE:

INFORMED CONSENT
You are being asked to take part in this research study because you are a woman who took part in the VOICE trial and received study product for at least three months. As you consented to during your VOICE participation, blood specimens were drawn for the purposes of understanding how much of the study drug was present in your body. We would like to take the opportunity to discuss those test results with you. Approximately 108-144 women will participate in this study at multiple sites. Before you decide if you want to join this study, we want you to know about the study. This Screening/Enrollment consent form gives you information about this study. MTN-003D staff will talk with you about the study and answer any questions you may have.

YOUR PARTICIPATION IS VOLUNTARY
Participation in this study is voluntary. You will be asked to sign or make your mark on this form to indicate whether you agree to participate in this study. Before you decide whether to be in MTN-003D, we would like to explain the purpose of the study. If you decide to enroll in this study, you may decide to withdraw from the study at any time. There will be no penalty for refusing to participate or choosing to withdraw from this study.

PURPOSE OF THE STUDY
The main goal of this study is to better understand VOICE participants’ experience with study product and sexual behavior while participating in VOICE.

STUDY PROCEDURES
There are no medical procedures or drugs involved in this research study. If you agree to join this study, you will be informed of the VOICE study results and of your study product use as determined by a blood test. You may be asked to participate in in-depth interviews (IDIs) in the presence of one or two MTN-003D research staff members and/or you may be asked to participate in a focus group discussion (FGDs) with other study participants about opinions that you and other participants have. It is important that you know that that by signing this informed consent you are agreeing to take part in both an IDI and an FGD; however you may be selected to take part in an interview and not a focus group discussion or vice versa. If you agree to take part in this study, the interviewer will ask you some brief questions and write your responses on a form. During the IDIs, the interviewer will also ask more in-depth questions, during which time...
notes may be taken and the conversation will be audio-recorded. During the FGD, you will join
other women who participated in the VOICE trial and who are also aware of how much of the
study drug was present in their bodies. During the FGD a discussion about the study products,
study product use, and overall study experience will occur. These discussions will also be
audio-recorded. You will be asked to use a fake name for yourself and for anyone you may talk
about during the FGD.

You will be asked some general questions, such as your age, education, living situation,
relationship status, and health. You will also be asked about other clinical trials studies or HIV-
related studies that you may be currently participating in. The interviewer will also ask questions
about your experiences while participating in the VOICE trial. These will include questions about
different ways women used their study product, your use of the study products and your
understanding of the questions in VOICE that asked about product use and sexual behaviors.
The interviewer will discuss your opinions about sexual behavior in your community. You will not
be required to discuss your personal sexual behavior. You will also be informed of the VOICE
trial results and of your study product use as determined by a blood test. Your response to
receiving these results will also be recorded.

We expect the interview and focus group procedures will take approximately 3 hours each. If
you are selected to have an IDI it will be completed at a place agreed upon by you and the
study staff, which may be your home, a designated neutral study interview location, the clinic
you went to for your VOICE visits or another convenient place of your choice. Clinic staff will let
you know where the FGD will take place.

The audio recording, notes, and analyses from these materials will be kept confidential and will
only use study numbers or fake names. The information that links you to the research data will
be kept in a secure location that will be accessed only by members of the MTN-003D study
team for the purposes of this research.

To obtain information about your participation in VOICE, the MTN-003D study team will need to
access your VOICE research records. By signing this form, you are giving the MTN-003D study
team permission to look up and record the needed information from your research record.

**RISKS AND/OR DISCOMFORTS**

During the interview we may ask you some questions that cause you to feel embarrassed or
uncomfortable. You can choose not to answer questions in the interview at any time. It is also
possible that people or family members may find out you are participating in this study. As a
result, they may ask questions about the study, treat you unfairly, or you may encounter
problems in being accepted by your family and/or community.

If you choose to participate in the group discussion, other participants will hear what you say.
We will not reveal your full name to other participants. We will also ask every participant not to
tell anyone outside of the group what any person said during the discussion. While it is not at all
likely that your discussion will be made public, we cannot guarantee that everyone will keep the
discussion private.

Another possible risk of this study is loss of confidentiality of the information you give. Every
effort will be made to protect your confidential information, but this cannot be guaranteed. To
reduce this risk, we will strictly protect the information recorded during your interview. The audio
recording, notes, and analyses from these materials will be kept confidential. This means that
no one other than the MTN-003D interview team will have access to your responses. The
information that links you to the research materials will be kept in a secure location. Your audio recordings will also be kept in a secure location and only people involved with the study will have access to these recordings. When the information on the audio recording is typed onto paper and fully checked, the recording will be destroyed. Study leaders will make sure this happens.

In the unlikely event that you get injured as a result of your study participation, it is important that you know the US National Institutes of Health (NIH) does not have a mechanism to provide direct compensation for research-related injury.

NEW INFORMATION
You will be told about new information from this or other studies that may affect your, welfare or willingness to stay in this study.

BENEFITS
There are no direct benefits to participating in this study. However, the information you provide may help researchers improve the design of future studies.

REASONS WHY YOU MAY BE WITHDRAWN FROM THE SUBSTUDY WITHOUT YOUR CONSENT
You may be removed from this study without your consent for the following reasons:

- The study is stopped or canceled
- The study staff feels that staying in the study would be harmful to you
- The study is stopped by NIAID, the MTN, the Office for Human Research Protections (OHRP), other government or regulatory authorities, or site IRBs/ECs
- Other administrative reasons

ALTERNATIVES TO PARTICIPATION
There may be other studies going on here or in the community that you may be eligible for. If you wish, we will tell you about other studies we know about.

COSTS TO YOU
There is no cost to you for being in this study.

REIMBURSEMENT
You will receive \[\text{[$xx]}\] for your time, effort, and travel for each MTN-003D visit. At visits in which you complete an in-depth interview and/or focus group discussion, you will receive [Site to insert amount $xx].

CONFIDENTIALITY
We will do our best to make sure that the personal information gathered for this study is kept private, and it will not be shared with VOICE site staff. However, absolute confidentiality cannot be guaranteed. Your personal information may be disclosed if required by law. Any publication of this study will not use your name or identify you personally.

The Microbicide Trials Network (MTN) study is sponsored by the US NIH.

Your records may be reviewed by any or all of the following:
The MTN-003D study staff
- [insert applicable local authorities, e.g., Ministry of Health, medicine control authority]
- Site IRBs/ECs
- Representatives of the US OHRP, NIH, National Institute of Allergy and Infectious Diseases (NIAID), and/or contractors of the NIH, and other local or US regulatory authorities, and of the MTN

PROBLEMS OR QUESTIONS
If you ever have any questions about this study, you should contact [insert name of the investigator or other study staff] at [insert telephone number and/or physical address].

If you have questions about your rights as a research participant, you should contact [insert name or title of person on the IRB/EC or other organization appropriate for the site] at [insert telephone number and/or physical address of above].

If you have questions about whom to contact at the research site, you should contact [insert name of the investigator or community educator or community advisory board (CAB) member [staff will decide which] at [insert telephone number and/or physical address].
SIGNATURES

[Insert signature blocks as required by the local IRB/EC:] If you have read this consent form, or had it read and explained to you, and you understand the information, and voluntarily agree to participate in the study, please sign your name or make your mark below.

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REFERENCES

1. Pivotal study finds that HIV medications are highly effective as prophylaxis against HIV infection in men and women in Africa. In: University of Washington International Clinical Research Center; 2011.


