

Section 8. Participant Retention

This section presents information related to definitions, requirements, and procedures for participant retention in MTN-003.

8.1 Retention Definitions

The term “retention” generally refers to completion of follow-up visits and procedures as specified in a study protocol. This definition must be operationalized for any study, and operational definitions usually reflect the primary objectives and endpoints of a study. For MTN-003, two retention measures are planned to be used, one during the study and one at the end of the study. Additional retention measures may be defined and used during the study if desired by the Protocol Chairs and/or Protocol Statisticians.

- During the study, retention for scheduled monthly follow-up visits will be defined based on whether participants complete scheduled visits within the allowable visit window. Participants who complete their scheduled visits within the allowable visit window will be considered “retained” for those visits.
- At the end of the study, retention will be defined based on whether participants complete HIV testing at a Product Use End Visit (PUEV). Although every effort must be made to complete each participant’s PUEV within the allowable visit window, PUEVs will be allowed to take place at any time through the study end date at each site. Participants who complete a PUEV, and undergo HIV testing at that visit, prior to the study end date will be considered retained at the end of the study.

As indicated above, participants who do not complete a particular scheduled visit within the allowable window, but then complete the next scheduled visit, will not be considered retained for the missed visit, but will be considered retained for the next scheduled visit. Thus retention rates can fluctuate over time and across visits. Importantly, retention shortfalls can be made up by ensuring that participants return for their next scheduled visit after missing a visit.

The MTN Statistical and Data Management Center (SDMC) will post reports on their ATLAS portal presenting retention rates for each monthly study visit throughout the period of study implementation. The SDMC also will generate a final end-of-study retention rate after the study is completed. All reports will include site-specific and cross-site information. Please see Section 17 of this manual for more information on the study reporting plan.

8.2 Retention Requirements

Each study site will target retention of at least 95 percent of enrolled study participants annually. Figure 8-1 presents the monthly retention rates that must be met over the course of the study to achieve the 95 percent annual target. This retention target is calculated by dividing the actual number of study visits completed that month by the number of study visits expected to be completed for all enrolled participants. Note that if a participant is enrolled but terminates from the study early or is lost to follow up, she is still included in the denominator for each study visit.

Figure 8-1
Monthly Visit Retention Targets for MTN-003

Study Visit	Target % Retained		Study Visit	Target % Retained
Month 1	99.62		Month 20	92.33
Month 2	99.23		Month 21	91.95
Month 3	98.85		Month 22	91.56
Month 4	98.47		Month 23	91.18
Month 5	98.08		Month 24	90.79
Month 6	97.70		Month 25	90.41
Month 7	97.32		Month 26	90.03
Month 8	96.93		Month 27	89.64
Month 9	96.55		Month 28	89.26
Month 10	96.16		Month 29	88.88
Month 11	95.78		Month 30	88.49
Month 12	95.40		Month 31	88.11
Month 13	95.01		Month 32	87.73
Month 14	94.63		Month 33	87.34
Month 15	94.25		Month 34	86.96
Month 16	93.86		Month 35	86.58
Month 17	93.48		Month 36	86.19
Month 18	93.10			
Month 19	92.71			

The purpose of the 95 percent annual retention target is to ensure the accuracy of study results. The effectiveness of the study products tested in MTN-003 will be estimated by comparing the HIV infection rates observed among participants assigned the active product groups to the rates observed among participants assigned to the placebo control groups. For each group, the HIV infection rate will be calculated as the number of participants in the group who become infected with HIV during follow-up divided by the total amount of follow-up time observed in that group.

Low retention rates can have serious impacts on the HIV infection rates observed in each group because we cannot know if participants who do not return for scheduled study visits are HIV-infected or HIV-uninfected. In each group, the observed HIV infection rate could be higher or lower than the true rate, but it is not possible to determine the direction of the error. To avoid this problem, and thereby avoid bias in the study results, high participant retention rates must be maintained throughout the study.

8.3 Retention SOPs

Site staff are responsible for establishing a standard operating procedure (SOP) for participant retention, and for updating the SOP and retention efforts undertaken to meet the study retention goal of 95 percent per year. The SOP should minimally contain the following elements:

- Site-specific retention goals
- Methods for tracking actual retention versus retention goals
- Procedures for completing and updating participant locator information
- Site-specific definition of “adequate” locator information (for purposes of determining participant eligibility)
- Visit reminder methods and timeframes
- Methods and timeframes for identifying when a visit has been missed
- Planned retention methods, including what outreach/locator efforts are taken within 24 hours, 1-3 days, 1 week, 2 weeks, and 3-4 weeks after a missed visit
- Methods for timely evaluation of the utility of retention methods
- Ethical and human subjects considerations
- Staff responsibilities for all of the above (direct and supervisory)
- QC/QA procedures related to the above (if not specified elsewhere)

8.4 Obtaining and Updating Locator Information

Successful retention begins with collection of exhaustive locator information from each study participant. All study participants are asked to provide locator information during the study screening process, and to continually review/update this information during follow-up. Provision of "adequate" locator information during screening is a study eligibility requirement and each site must specify its definition of adequate locator information in its retention SOP.

Each study site is encouraged to develop an exhaustive locator form to maximize contact effectiveness and participant retention. Sites also may wish to consider having outreach workers accompany participants to their homes or other community based locations to verify or further clarify their locator details. Potential locator items include:

- Participant's full name, alias, and/or nickname; government-issued identification number; home address; home phone number; mobile phone number; pager number; work address; work phone number; fax number; e-mail address; daytime and nighttime locations, meeting places, hangouts.
- Walking/driving/public transport directions and/or pictorial map to the participant's home, workplace, etc; global positioning coordinates if available.
- Name, address, telephone number, and/or other contact information for stable community contacts (i.e., participant family members and friends) who typically know the whereabouts of the participant.

Note: Although contact information for a participant's current primary partner likely will be useful, contact information for other contacts also should be collected, since the participant's relationship with this partner could change during the course of the study.

- Name, address, telephone number, and/or other contact information for the participant's health care provider, school or training program; church or other place of worship; social service case worker; counselor, etc; participant's child's school and health care provider.
- Name, address, telephone number, and/or other contact information for support groups, shelters, food pantries, and other social service organizations used by the participant.

During the informed consent process and when collecting locator information, study participants must be informed that their locator sources will be contacted if study staff are unable to locate the participant directly. Study staff will negotiate with the participant how they will identify themselves when locator sources are contacted. Arrangements agreed upon with the participant should be documented on the locator form.

Study staff should view every participant contact as an opportunity to update the participant's locator information. When updating locator information, actively review each item on the locator form to determine whether the information is still current (i.e., rather than simply asking "Has any of your information changed since your last visit?"). Also probe for additional information that the participant was not able or willing to provide at previous visits.

8.5 Retention Tips

Some general strategies for maximizing participant retention are presented in protocol Section 5.1.2. Additional tips for successful retention are as follows:

- Dedicate adequate staff time and effort to retention efforts.
- Work with community members to identify the most applicable contact and retention strategies for the local study population, including the type and amount of participant incentives.
- Keep participants and community members up-to-date on study progress to foster a sense of partnership and ownership of the study (through the use of participant newsletters, for example).
- Inform local service providers who interact with the local study population about the study, so that they also can express their support for the study.
- Actively review clinic flow to minimize participant waiting time.
- Develop rapport and ensures participants feel welcome and comfortable during their visits.
- Emphasize the value of the participant's involvement in the study during the study informed consent process and subsequently at follow-up visits. When participants complete scheduled visits, acknowledge and compliment their commitment, time, and effort devoted to the study.
- Host gatherings, parties and/or other social events for participants.
- Host social, educational, and/or other "male involvement" events for participants' partners.

- Use tracking systems to identify when participants' scheduled visits are due and/or overdue. Establish routine mechanisms to remind both study staff and participants of upcoming scheduled visits.
- Schedule all monthly visits at the participant's enrollment visit. Thereafter, at each monthly visit, confirm the scheduling of the next visit and give the participant an appointment card with the scheduled visit date and time noted.
- Prepare a calendar of scheduled visits for each enrolled participant, based on her enrollment date, or offer a planner/calendar as an incentive and note all study appointments in the planner/calendar. Note the dates of all scheduled visits in the participant's file for easy reference.
- For participants who demonstrate a pattern of late or missed appointments, schedule follow-up visits for the beginning of the allowable visit window (i.e., up to two weeks before the actual target date) to allow maximum time for re-contact and re-scheduling if needed.
- Pay close attention to the allowable visit window and prioritize retention efforts for participants nearing the end of the window. Organize daily caseloads and work assignments based on these priorities.
- Follow-up on missed appointments with an attempt to re-contact/re-schedule within 24 hours (preferably on the same day). Continue these efforts per site retention SOPs until contact is made.
- Keep locator information up-to-date and maintain thorough documentation of all efforts to contact the participant. Keep all this information in an organized manner, so that different staff members can easily review the information and contribute to re-contact efforts when necessary.
- Make use of all information collected on the participant's locator form. Even if a locator source is not useful/successful on one occasion, try it again later.
- Make use of all available contact methods (e.g. phone, mail, home visits, street outreach, newspapers, e-mail/internet). Also make use of other available locator information sources, such as phone and postal directories and other public registries.
- Post outreach workers at other local service organizations utilized by the study population.
- Attempt contact with the participant at different times during the day and the week, including evenings and weekends.
- If a participant wishes to discontinue participation in the study, her wishes must be respected. Study staff should ask if she would be willing and interested to continue having routine HIV testing (perhaps monthly or quarterly), or to at least have a final HIV test at the end of the study, and document her responses to these options. If the participant refuses this level of involvement, reinforce site contact information and explain that she is always welcome to come back if she wishes (see Section 6.12 for further information about procedures for participants that voluntary withdrawal further participation in the study)

At the time when the participant states that she wishes to discontinue participation, study staff must document the participant's stated wishes in detail, together with the following information:

- Why the participant wishes to leave the study.
- Whether the participant is willing to have any further contact with study staff in the future and, if so, for what purpose, at what frequency, and through what methods. For example, a participant who is not currently able to complete study visits may be willing to have study staff check in with her in several months time to see if her circumstances may have changed. In this case, study staff must document the timing and type of contact that the participant agreed to (e.g., in person, telephone, delivery/mail), as well as the participant's preferences for the location of the contact (e.g., at her home, at a family member's home, at her workplace).
- If the participant has any pending laboratory test results, whether and how she is willing to be contacted for purposes of receiving her results.
- If the participant is pregnant, whether and how she is willing to be contacted for purposes of ascertaining her pregnancy outcome.
- Whether and how the participant wishes to be contacted for purposes of unblinding (when unblinding information is available).
- Whether and how the participant wishes to be contacted for purposes of learning the results of the study (when results are available).