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### 11 TRAINING

The HPTN is committed to developing qualified, trained staff to conduct HPTN studies. Training for Clinical Trials Unit (CTU) staff adheres to the standards listed below:

- All key CTU/CRS staff are stated in the <u>Glossary of DAIDS Clinical Research Terms</u> as (individuals who are involved in the design and conduct of NIH funded human subjects' clinical research. This includes all individuals named on the form FDA 1572 or DAIDS Investigator of Record Agreement and any clinical research site personnel who have more than minimal involvement with the conduct of the research (performing study evaluations or procedures or providing intervention) or more than minimal study conduct related contact with study participants or confidential study data record, or specimens). Key personnel must complete Human Subjects Protection (HSP) training (Section 11.1) as well as Good Clinical Practice (GCP) training (Section 11.2). The Principal Investigator (PI) of the CTU grant is responsible for ensuring that the IoR maintains training records onsite and makes these records available to the Clinical Site Monitor, the Program Officer and/or other designated DAIDS staff upon request.
- All key personnel involved in clinical trials subject to United States (US) Food and Drug Administration (FDA) regulations must receive training prior to study initiation and every three years thereafter that includes relevant aspects from the following: Electronic Records and Signature (<u>21 CFR Part 11</u>); Investigational New Drug Application (<u>21 CFR Part 312</u>); Protection of Human Subjects (<u>21 CFR Part 50</u>); Financial Disclosure by Clinical Investigators (<u>21 CFR Part 54</u>); Institutional Review Boards (<u>21 CFR Part 56</u>). The IoR is responsible for maintaining complete training records
- Laboratory related training is required as specified in Section 11.3 and Section 13
- The HPTN, in accordance with the US Code of Federal Regulations (CFR), requires study-specific site training prior to study initiation (Section 11.4)
- CTUs/CRSs are expected also to provide training for new staff and ongoing training for current staff (Section 11.5)

	HPTN Training Requirements			
Training	Required Personnel	Timing/Frequency	Sources for Training	
HSP	All key CTU/CRS staff (see above)	Prior to awards being made for clinical research and every three years thereafter	<ul> <li>DAIDS-sponsored HSP training sessions</li> <li>Online training course provided by HIV/AIDS Network Coordination (HANC), or NIH Office of Extramural Resources</li> <li>Other online training programs e.g., <u>NIH GCP learning center</u>; <u>online</u> <u>university-based training</u> <u>modules</u></li> <li>Commercial training programs</li> </ul>	

An overview of mandated training is found in the table below with further details in the following sections.

	HPTN Training Requirements			
Training	Required Personnel	Timing/Frequency	Sources for Training	
GCP and FDA training requirements	All key CTU/CRS staff (refer to DAIDS SOP)	Prior to study initiation and every three years thereafter	<ul> <li><u>DAIDS-sponsored GCP</u> <u>training session</u></li> <li><u>Online training course</u> (CITI)</li> <li><u>Other online training</u> programs, e.g., online <u>university-based training</u> modules</li> <li><u>Commercial training</u> programs</li> </ul>	
International Air Transportation Association (IATA) training	All staff who transport, ship or receive infectious substances and diagnostic specimens	Prior to handling infectious substances and specimens as part of an HPTN study (certification of staff members required for study specific site activation at the site); regulations reviewed annually and certification every two years thereafter	Several resources listed in Section 11.3	
Laboratory Data Management System (LDMS) training	Staff of CTU/CRS laboratories	At time of installation of LDMS and as needed	Frontier Science Technology and Research Foundation (FSTRF) training at Network annual meetings and regional meetings, onsite, or at FSTRF in Amherst, NY or by a officially trained Train-the- Trainer	
Good Clinical Laboratory Practice (GCLP)	Laboratory Director, Laboratory Manager/Supervisor and/or quality assurance/quality control (QA/QC) technologists	Prior to involvement in an HPTN study and then as needed	<ul> <li>GCLP courses provided by the DAIDS contractor or <u>online</u></li> <li>Courses available from private training companies. NOTE: these may not cover the appropriate DAIDS related regulations</li> </ul>	
Study-specific training	Applicable CTU/CRS study staff	Prior to initiation of study and for new staff within three months of joining the study staff	<ul> <li>Leadership and Operations Center (LOC) Clinical Research Manager (CRM), Statistical and Data Management Center (SDMC) Clinical Data</li> </ul>	

	HPTN Training Requirements			
Training	Required Personnel	Timing/Frequency	Sources for Training	
			Manager (CDM), HPTN Laboratory Center (LC) representative • CTU/IoR for new staff	

# 11.1 Human Subjects Protection Training

All key personnel must receive HSP training prior to awards being made for clinical research and every three years thereafter. New clinical research site personnel (hired after study initiation) must receive HSP training within 90 days of assignment to the study project or prior to functioning without direct supervision.

The <u>National Institutes of Health</u> (NIH) provides an online education module on the protection of human subjects, <u>Protecting Human Research Participants</u>, which is specifically designed for extramural researchers. Completion of this module fulfills the HSP training requirement. In addition, many universities and research institutions provide training which, when documented, fulfills this requirement.

# 11.2 Good Clinical Practice Training

All key personnel must receive GCP training that meets <u>International Conference on</u> <u>Harmonisation (ICH) E6</u> standards prior to study initiation and every three years thereafter. New clinical research site personnel (hired after study initiation) must receive GCP training within 90 days of assignment to the study project or prior to functioning without direct supervision. One course that may be completed is located online at <u>NIH GCP learning</u> <u>center</u>.

Training of all HPTN site study staff is encouraged and facilitated through the provision of onsite GCP training to the extent possible. To meet immediate or broader needs for GCP training for site study staff, CTUs may seek additional sources for continuing GCP training. Local universities or research centers may offer GCP training opportunities. CTU staff members are encouraged to seek courses that provide certification of participation.

## 11.3 Laboratory Related Training

To ensure quality research and safeguard study participants, DAIDS requires that all HPTN studies be conducted in accordance with GCLP. The LC also requires that key laboratory personnel receive GCLP training prior to involvement in a HPTN study. Training of all HPTN key laboratory staff is facilitated through the provision of regional GCLP training as well as through an <u>online training program</u>.

All HPTN studies rely heavily on the capacity of CTU laboratories to handle, process, and ship participant specimens. The work of qualified and trained laboratory staff at the research sites is essential. The HPTN requires the following training for laboratory personnel:

## Laboratory Data Management System

The LDMS is the laboratory software installed at each of the CTUs to assist with specimen management, storage, and shipping. LDMS training is provided at FSTRF or at each CTU research site when a system is placed at the site.

Opportunities for refresher training are provided. At the request of the LC, FSTRF may provide refresher training on the LDMS at annual meetings, regional meetings, and protocol trainings or through web-based focused trainings. FSTRF may also provide refresher training at the regional DAIDS training sessions. The LC staff members are typically available at these training sessions to provide information related to the HPTN and also to answer questions from site representatives. FSTRF staff will follow-up with site representatives after these training sessions to ensure that they are aware of the need to share the information with other site staff. FSTRF will also hold trainings at their headquarters in Amherst, New York.

The LC staff members (who have passed the train-the-trainer sessions) will also provide study-specific LDMS training onsite during the study-specific training, if feasible, as well as during routine site visits. International QA/QC coordinators are also a resource for handling refresher training. SDMC staff monitor the specimen management and storage modules. If problems or trends are noted that indicate more training is needed at a site, *ad hoc* training will be arranged. CTUs/CRSs, at their expense, may also request additional training if needed, for example, when new laboratory personnel are hired.

#### **International Air Transport Association**

IATA regulates the safe transportation of dangerous goods by air in accordance with the legal requirements of the International Civil Aviation Organization (see Section 13.7.2 for further details). The HPTN, in accordance with IATA requirements, requires training and certification for all HPTN members involved with the handling, transporting (by air and ground), and receiving and shipping of infectious substances and diagnostic samples. Certification of all site staff members, who transport and/or ship dangerous goods, is required prior to study activation at a site.

Site personnel should review the IATA regulations annually as well as complete required training in hazardous materials (HAZMAT) regulations as they pertain to IATA shipping regulations.

Each CTU is responsible for training the pertinent staff members on IATA shipping regulations and is required to have a current IATA manual onsite. CTUs are required to provide documentation of IATA certification of personnel upon request by the LC or a DAIDS contractor. The site's Primary Network Laboratory (PNL) is responsible for assuring that the laboratory has a current IATA Dangerous Goods Manual and appropriate training materials. Refer to the links below for IATA training resources:

#### http://iata.org/index.htm

http://www.saftpak.com http://www.dangerousgoods.com/profile.htm http://fedex.com/us/services/options/express/dangerousgoods/seminars.html?link=4 http://www.dhl-usa.com/solutions/express.asp?nav=dhlExp http://www.dot.gov/ http://www.usps.com

#### Laboratory Related Issues

Relevant HPTN laboratory issues and developments may be discussed at the annual meetings.

### **Biohazard and Containment Training**

Clinical and laboratory personnel are expected to complete annual clinical safety training including training on blood borne pathogens and infection control. It is the responsibility of the CTU to provide the training to all clinical and laboratory staff using information and

materials provided by their institutions as well as DAIDS contractors and cross-network training groups.

### Other Requirements for Laboratory Personnel

Laboratory personnel are also expected to participate and complete training as specified in this section for CTU site personnel. For key laboratory personnel, this includes HSP training, GCP training, GCLP training, and study-specific training.

### 11.4 Study-Specific Training

The IoR is responsible for ensuring that site study staff members are adequately trained to serve their designated site- and study-specific functions. The LOC, SDMC, and LC collaborate with the IoR and other designated study staff to fulfill this responsibility in preparation for initiation of new HPTN studies by conducting study-specific training. The format of study-specific training depends on experience of site staff and complexity of the study. Training may be conducted onsite, via webinar or by teleconference at each participating study site. Alternatively, all or parts of study-specific training may be conducted at a central location with staff from all study sites in attendance.

The objectives of study-specific training are to:

- Ensure that study staff members are informed of how the study will be conducted on a daily basis, in accordance with the protocol and GCP guidelines
- Ensure standardization of study implementation across sites, so that data can be combined for analysis

During study-specific training, site staff members and the LOC/SDMC/LC training team examine and discuss in detail the study protocol, regulatory requirements, procedural requirements, and data collection specifications. Broad responsibilities for planning for and conducting study-specific training are shown in the table below. Documentation of all study staff training must be maintained in each site's Essential Documents files.

Responsibilities for HPTN Study-Specific Training		
Task Lead Group/Individual		
Scheduling training	LOC CRM, LC representative(s), SDMC CDM,	
	site investigator	
Arranging logistics	LOC CRM, SDMC CDM, LC representative(s),	
	designated site staff member	
Developing the agenda	LOC CRM, SDMC CDM, LC representative(s),	
	site investigator and site staff members	
Compiling, producing, and providing	LOC CRM, SDMC CDM, LC representative(s),	
training materials	site investigator and designated staff	
Arranging for translation of study and	y and Site investigator and designated site staff	
training materials and activities, as		
needed		
Arranging for standardized clinical	clinical LOC CRM with site investigator	
training (if applicable)		
Conducting training	LOC CRM, LOC Community, SDMC CDM, LC	
	representative(s) or designee, site investigator,	
	designated site study staff members, and	
	others as appropriate such as clinical experts	
Document attendance and participation	Designated site staff	
of site/ protocol staff		

Responsibilities for HPTN Study-Specific Training			
Task Lead Group/Individual			
Maintaining ongoing training	Designated site staff members		
documentation			

### 11.4.1 Scheduling Study-Specific Site Training

The responsibility for scheduling of study-specific training should be shared between LOC, SDMC, LC, and IoR or designee at each site. Training is conducted as closely as possible to the actual study start date at each site, and should be within 30 days of protocol site activation (if this window is exceeded, contact the responsible DAIDS Medical Officer for guidance on potential re-training requirements). Specified study specific site activation requirements should be met (or be close to completion) prior to conducting training of a site (see the table in Section 11.4.2).

### 11.4.2 Site Preparation for Training

In addition to completion of requirements for scheduling study training, site study staff will carry out other activities to prepare staff for study training and, ultimately, the conduct of the study. Under the supervision of the IoR or other designated staff member(s), the site staff will:

- Hire staff (if needed)
- Designate site study staff team and assess local training needs
- Provide orientation and background training locally, as needed, including:
  - Local staffing and organizational plan (including roles and responsibilities)
  - Local site operations
  - Local role-specific training and certification
  - Other local requirements
- Complete "mock visits" using study implementation materials, ideally in clinic and laboratory facilities that will be used for the study
- Review and become thoroughly familiar with the study protocol, informed consent documents, case report forms (CRFs), training materials, other study implementation materials (i.e. Study Specific Procedures {SSP} or other Manuals), and site Standard Operating Procedures (SOPs)
- Review and become familiar with the study-specific specimen management plan and the "chain of custody" for study samples
- Discuss and develop SOPs (as needed) and other local study implementation materials
- Identify questions, issues, and problems requiring training team input

## Guidelines for Scheduling HPTN Study-Specific Training (based on Study Site Activation Requirements)

#### To be completed prior to scheduling study-specific training:

1 Current Federal Wide Assurance number in place for the study site institution(s)

2 Completion of US FDA 30-day review period/safe to proceed notice (if applicable)

3 Local regulatory authority approval of the study protocol (if applicable)

4 Signed Clinical Trials Agreement (CTA) (if applicable)

5 Hiring of adequate staff prior to training (as determined by the site/protocol team)

- 6 Completion of HSP training for all key site personnel
- 7 Completion of GCP training by all key site personnel
- 8 Pharmacy Establishment Plan and approval from DAIDS Pharmaceutical Affairs Branch (PAB) (if applicable)

	Guidelines for Scheduling HPTN Study-Specific Training (based on Study Site Activation Requirements)				
	<ul> <li>Well-developed draft SOP for product management and accountability</li> </ul>				
	<ul> <li>Pharmacist training as deemed required by PAB and team</li> </ul>				
	<ul> <li>Draft plan or SOP for specific requirements for particular study agent</li> </ul>				
	<ul> <li>Draft plan for regimens and administration</li> </ul>				
	Draft product prescriptions				
9	All import approvals for study products (if applicable)				
-	All export approvals for study products (if applicable)				
11	SDMC confirmation of adequate preparation for training based on the following:				
1	<ul> <li>Installation of required data transfer equipment, including testing of the system</li> </ul>				
	<ul> <li>Any required data management certification (e.g. Medidata)</li> </ul>				
	• Well-developed draft SOP for data management, including data QA/QC procedures				
	(final version required before activation, a well-developed draft must be available				
	before training)				
	Well-developed draft SOP for randomization, if applicable				
	Availability of SDMC-provided electronic data management system or required data				
	management materials onsite, well-developed draft translated versions, if required				
12	LC confirmation of adequate local laboratory readiness based on the following:				
	<ul> <li>Proficiency in performing protocol-required tests</li> </ul>				
	<ul> <li>Draft specimen management plan and draft chain of custody of study samples</li> </ul>				
	Well-developed QC/QA procedures				
	Protocol-specified test validation				
	Well-developed protocol-specified SOPs (final versions required before activation)				
	Local laboratory backup arrangements				
	LDMS set-up and internet connectivity to FSTRF				
	IATA specimen shipping certification, if applicable				
	GCLP training for appropriate laboratory staff				
	<ul> <li>Clinical Laboratory Improvement Amendments (CLIA) accreditation for US laboratories</li> </ul>				
13	Clinical Site Monitor study initiation visit (if applicable; OCSO makes the determination)				
13	childer offer workfor study initiation visit (in applicable, occorrianes the determination)				
14	Draft SOPs for the following:				
	Communication with responsible Institutional Review Board/Ethics Committee				
	(IRB/EC)				
	Source documentation				
	<ul> <li>Obtaining informed consent from potential study participants</li> </ul>				
	Participant eligibility determination				
	Participant safety monitoring and Adverse Event (AE)/Serious Adverse Event (SAE)				
	reporting/ Suspected Unexpected Serious Adverse Reaction (SUSAR) (if applicable)				
	Participant accrual plan (SOP or plan)				
1	<ul> <li>Participant retention plan (SOP or plan)</li> <li>Communication with affiliated sub-sites, if applicable</li> </ul>				
	Note: Final versions of these SOPs are required for site activation. Well-developed draft				
1	SOPs (as determined by the LOC CRM) must be in place prior to study-specific training.				
1	Finalization may occur shortly after study-specific training.				
15	Other documents and approvals as needed (site- and study-specific) including site-specific				
	SOPs				
16	Study staff signature sheet, roster, and delegation of duties				
	Must be reasonably complete; finalization may occur shortly after study-specific training.				
17	Complete protocol registration package including:				
<u> </u>	······································				

	Guidelines for Scheduling HPTN Study-Specific Training (based on Study Site Activation Requirements)				
	US and in-country IRB/EC approvals of protocol and approved informed consent				
	forms (local language and back-translation, where applicable)				
	<ul> <li>Signed FDA Form 1572 or DAIDS Investigator of Record Agreement</li> </ul>				
	<ul> <li>Current (signed within 2 years) Curriculum vitae of the IoR</li> </ul>				
18	SSP manual or draft SSP manual for use as a reference during training emailed to the site.				
	Note: Each section of the SSP must be well-developed for this training version.				
19	Resolution of action items identified during Clinical Site Monitor's site initiation visit				
	Note: Acknowledgment from DAIDS of resolution of any significant action items identified				
	during the Clinical Site Monitor's site initiation visit.				

Expectations of site study staff prior to study-specific training include:

- Work with LOC CRM/SDMC CDM/LC to plan training and finalize agenda
- Work with LOC CRM to identify and meet translation and interpreter needs
- Work with SDMC CDM to identify data management systems to be used for the protocol and key staff responsible for implementation
- Arrange access to training rooms and any required equipment
- Arrange staff backup for staff who will attend training sessions

## 11.4.3 Implementation of Study-Specific Training

Onsite training conducted with representatives of the LOC, SDMC, and/or LC (and other team members as necessary) as trainers is the standard for pre-study training. However, other alternatives (i.e., teleconferencing, video conferencing, working closely with the site staff to present the training) are possible in cases where circumstances (limited resources, travel difficulty, or experienced local staff) make onsite presence impractical. Regardless of the training strategies employed, the LOC, SDMC, and LC are responsible for providing the agenda (developed with input from study staff at the site) and supporting training materials. A sample study-specific training agenda is provided in this section.

Ideally, all site staff members who have been delegated duties or responsibilities for a study will take part in study-specific training. This includes the IoR, the study coordinator, clinical staff (physicians, clinicians, and nurses), counseling staff, pharmacy staff, laboratory staff, data management staff, participant recruitment and retention (outreach) staff, community education staff, and administrative staff who will be involved in conducting the study. The site QA/QC coordinators also should take part.

Sample Agenda for HPTN Study-Specific Training			
Session/Module Topic	Suggested Presenter/Facilitator	Expected Site Staff Attendance (minimum)	
General welcome and introduction	Site Principal Investigator (PI) or IoR or designee	All staff	
Introduction of training attendees	All	All staff	
Overview of training agenda and materials	Site designee, LOC	All staff	
Previous research and scientific rationale for study	Site PI/IoR	All staff	

Sample Agenda for HPTN Study-Specific Training			
Session/Module Topic	Suggested Presenter/Facilitator	Expected Site Staff Attendance (minimum)	
Protocol overview, group question & answer, rationale for study retention targets (optional)	Protocol Chair, site PI/IoR, LOC	All staff	
Data collection overview/introduction to data collection instruments and tools	SDMC	Relevant staff and supervisors	
Study documentation requirements, study-specific GCP/quality management issues and plans	LOC, site QA/QC coordinator	All staff	
Visit-specific review of study procedures and data collection	LOC, SDMC, site designee	All staff	
Interviewing and behavioral data collection strategies	Behavioral scientist associated with protocol team or site	Relevant staff and supervisors	
Laboratory procedure review including specimen management plan and chain of custody	LC and site laboratory designee	IoR, the study coordinator, clinical staff, laboratory staff	
Clinical procedure review	LOC or designee (i.e., clinical expert)	IoR, the study coordinator, clinical staff (physicians, clinicians, nurses)	
Investigational product management and accountability	LOC, site pharmacist or designee	Relevant staff and supervisors	
Documenting and reporting AEs/SAEs	LOC, SDMC	All staff	
Study-specific and/or local counseling procedures	LOC, site designee	All staff	
Participant accrual and retention plans	Site designee, LOC	All staff	
Study visit scheduling and visit windows	SDMC	All staff	
Other relevant site plans and procedures	Site designee	TBD	
Mock study visit exercise	All	All staff	
Final gathering to resolve outstanding questions/issues, presentation of certificates	All	All staff	
Optional Sessions Network overview/update	LOC	All staff	
Role of Community Advisory Board (CAB)/site community involvement plan	Site community program coordinator, CAB representative	All staff	
Research ethics/human subjects protection	LOC, Site PI/IoR or designee	All staff	

During training, site study staff are expected to:

- Present training modules as agreed upon with the training teamPresent local plans, SOPs, requirements, etc.

- Attend all required training sessions
  - All site study staff are invited and encouraged to attend all sessions/modules
  - All site study staff are expected to attend sessions designated for "all staff"

• Site study staff members must attend relevant role-specific sessions Note: Failure of study staff to attend required training sessions typically will delay site-specific study activation, as additional training will be required before study activation can be approved. Therefore, every effort should be made to avoid absences from required sessions.

• Fully engage in the training; ask questions; identify issues requiring additional clarification; identify best site-specific study implementation plans, materials, and tools.

### 11.5 Continuing Study Training

LOC, SDMC, and LC staff will leave copies of all study-specific training materials at the site or post them on the study collaboration portal to be used to train study staff hired after the initial training.

It is the responsibility of the CTU/CRS/IoR to ensure that new staff members are adequately trained and prepared to serve their study roles. LOC, SDMC, and LC staff members do not routinely travel to sites to train newly hired staff following the initial onsite study training. However, LOC, SDMC, and LC staff will make every effort to be available to answer questions and provide technical assistance to new study staff members. The LOC CRM and SDMC CDM will be available to participate in one or more training sessions via teleconference, if requested by the site. If a new study coordinator or lead study clinician joins a site after the initial study-specific training, LOC, SDMC, and LC staff member begins work on a study.

Once a study is underway, LOC, SDMC and LC staff issue study-related communications, answers to frequently asked questions, and other similar documents to guide study implementation at each site (see Section 12.4). Study staff will file such documents with other study implementation materials (e.g., in the SSP Manual) as well as add such materials to the training packet. Study sites are responsible for establishing SOPs for alerting staff to the release of these documents, providing training on them, as needed, and incorporating their content into day-to-day study operations. All issued content from the LOC, SDMC and the LC will be stored on study-specific web collaboration portals.

When it is necessary, LOC, SDMC, and LC staff, as applicable, will provide study-specific "refresher" training to site staff in the context of routine site visits and/or other HPTN meetings (e.g., annual meeting). Methods such as videotapes of previous training sessions, or teleconference and/or web based training may also be options for continuing training.

## **11.6** Research Ethics Training for Community Representatives

The <u>FHI 360 Research Ethics Training Curriculum for Community Representatives</u> was designed to educate community representatives about their roles and responsibilities and inform community representatives, members of research teams, CABs, and research ethics committees, about the general principles of research ethics. It also reviews the need for ethics committees, their importance, and the roles and responsibilities of community representatives in the research process. The curriculum includes easy-to-use materials, such as slides, case studies, activities, facilitator notes, as well as an ethics training certificate.

Community education staff, community advisors and partners are encouraged to complete this training.