CHAPTER 24

QUALITY CONTROL

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CHAPTER 24 QUALITY CONTROL

24.1. OVERVIEW

Study-wide quality control is the ultimate responsibility of the LIFE field centers and the DMAQC center. The LIFE Program Coordinator at each clinical site must become familiar with LIFE requirements and schedule clinic activities so that there is adequate time for clinic staff to carry out their responsibilities while meeting quality standards.

24.2. TRAINING

Key clinic staff from each field center is trained at the initial LIFE central training session. LIFE uses a train-the-trainer model, i.e., the key staff who are trained at the central training session are responsible for training and re-training other staff members. Certification and recertification are required in order to assure that clinic staff have a clear understanding of the LIFE Protocol and Manual of Procedures (MOP) and procedures are standardized at all field centers. Training sessions are designed for those staff obtaining core measures and interviews, the interventionists, and the recruiters. In this chapter, both general and specific procedures are described.

Local refresher training sessions are held annually for all staff groups. These sessions focus on current issues facing the staff, new components implemented in the clinics, and problem areas.

24.2.1. Certification

Certification is required of LIFE staff that perform any of the activities listed below in Table 1. The Program Coordinator (or designee) is responsible for documenting that each of the certification tasks has been completed using the forms found in Appendix A. These forms and supporting documents (including data collection forms) are to be maintained at the field center in a certification file, and is reviewed at the time of the site visit. The completed Certification/Recertification Checklist documents should be sent to the Administrative Coordinating Center via email at LIFEACC@aging.ufl.edu. Completion of certification should also be documented on the Certification Form and subsequently entered in the study web-site in the certification database.

Table 1.

LIFE Components Requiring Certification
Telephone Screening
400 m walk test
Accelerometry
Short Physical Performance Battery
Blood Pressure Weight, Height Assessment
Weight, Height
ECG
Waist Circumference
Medication Inventory
Grip Strength
Ankle Brachial Index
Spirometry/MIP
Cognitive Tests
Blood/Urine Collection
Blood/Urine Processing
Interviewing (Disability Questionnaire)
CHAMPS
Data Entry
Physical Activity Intervention
Successful Aging Intervention

Note that for all components, the following tasks must be completed:

- (1) Attendance at the LIFE centralized training session or training by someone certified in the measurement/procedure;
- (2) Required reading: Manual of Procedures Chapters 1 (Protocol) and 24 (Quality Control).
- (3) Plus additional items listed on the certification forms (Appendix A). Attendance at central training is not sufficient for certification! Those who attended the central training session must also complete items #2 and #3 above.

Certification forms are contained in Appendix A. Additional information on certification for specific activities is often found in the respective MOP chapters.

24.2.2. Recertification

Recertification procedures facilitate compliance with the protocol and the maintenance of study skills over the course of the trial. They are designed to provide a review of the appropriate LIFE MOP chapters, as well as an opportunity to carefully review the required steps for various measurements and procedures.

Recertification is required annually for LIFE staff who perform any of the activities listed in Table 2. The Program Coordinator (or designee) is responsible for documenting that each of the recertification tasks has been completed using the forms found in Appendix A. These forms and supporting documents (including data collection forms) are to be maintained at the field center in the staff member's certification file and may be reviewed at site visits. The Certification/Recertification Checklist documents should be sent to the Administrative Coordinating Center. Completion of recertification should also be documented on the Staff ID and Certification Form and subsequently entered in the study web-site in the certification database.

Table 2.

LIFE Components Requiring Recertification
Telephone Screening
400 m walk test
Accelerometry
Short Physical Performance Battery
Blood Pressure
Weight, Height Assessment
Waist Circumference
ECG
Medication Inventory
Grip Strength
Ankle Brachial Index
Spirometry/MIP
Cognitive Tests
Blood Collection
Blood Processing
Interviewing (Disability Questionnaire)
CHAMPS
Data Entry
Physical Activity Intervention
Successful Aging Intervention

Note that for all components, the following tasks must be completed:

- (1) Required reading/review of designated chapters in the Manual of Procedures
- (2) Observation and critique by a staff member certified in the measurement or procedure
- (3) Additional items as listed on the recertification forms (Appendix B). Supplementary information on recertification for specific activities is often found in the respective MOP chapters.

24.2.3. New Program Coordinators

Field Centers notify the Administrative Coordinating Center when a new Program Coordinator (PC) is hired at a LIFE site. The new PC should read all chapters of the MOP and be very familiar with the protocol and visit procedures.

24.3. QUALITY CONTROL ACTIVITIES

24.3.1. Field Center Activities

Specific quality control activities to be carried out at the LIFE field center include:

- 1. Certificatio n/recertification of clinic staff in all components listed in Appendix A.
- 2. Monitoring of regular equipment calibration and maintenance
- Recording of participant identifiers on the top of each questionnaire/data collection form prior to their completion at all clinic visits. Complete all form headers before participant leaves the clinic.
- 4. Regular observation and monitoring of clinical procedures including specimen collection.
- 5. Review of all questionnaires and data collection forms prior to data entry (and before the participant leaves the field center).
- 6. Compilation and review of data on lost laboratory samples, packaging problems, errors in packing, shipping, and labeling of specimens.
- 7. Reporting of quality control concerns or problems to the LIFE Administrative Coordinating Center and/or the appropriate central resource center for prompt resolution.

The Program Coordinator should regularly monitor field center procedures to be sure that they are being carried out properly and with consideration for the LIFE participant. Corrective action should be taken immediately if problems are observed.

The field center staff are encouraged to communicate with the Administrative Coordinating Center about quality control or other concerns or problems. The Certification Log is maintained on the study website. Please refer Chapter 4-General Procedures.

24.3.2. Equipment

The LIFE investigators have standardized much of the equipment for the trial. Such standardization (and the attendant maintenance and calibration of the equipment) assures one level of reliability across the LIFE field centers. Each field center is responsible for the proper operation and maintenance of equipment used in the LIFE trial. Some of the equipment is subject to standard calibrations and inspections (e.g., scales). It is suggested that responsibility for monitoring these standards be assumed by a specific individual, either the

Program Coordinator or a designated Quality Control Officer. Any real or suspected equipment problems should be reported promptly to the Administrative Coordinating Center. Details regarding equipment maintenance and calibration are contained in the respective MOP chapters. All fees associated with the maintenance and calibration requirements are paid directly by the clinic. A summary is provided below for standardized study equipment, i.e., equipment purchased and distributed by the Administrative Coordinating Center, and non-standardized equipment, i.e., equipment purchased by the clinic. Note that for non-standardized equipment, there are few calibration and/or maintenance checks required by LIFE, however, your clinic should practice all manufacturers recommended checks.

Table 3. Standardized study equipment

rable of Startage	aizea stuay equipment	Calibration	Replacement Options
	Ctop doudined	and/or	
Study component	Standardized equipment	maintenance required	
Physical Activity	OMRON HJ112	None Same	Equipment
Measurement	(Pedometers)		
(Steps)			
Physical Activity	Ironwear Fitness	None Same	Equipment
Measurement (Strength training)	Ankle weights (2-5 lb pairs and 10 lbs)		
SPPB – 4m walk	Task Force (5meter)	None	Standard Metric Tape
or i b i iii waiii	Metric Tape Measure	110110	Measure
400m walk	Orange marker	None Same	Equipment
	cones and stop		
Llavad Ovic	watches	Nama Cama	E aviia as a sat
Hand Grip Strength	Jamar Handheld Dynamometer	None Same	Equipment
Distance	Redi-Measure	None Same	Equipment
Measurement	Distance Measuring	Trono Gamo	Equipment
	Wheel, Model 11-		
	0755 (metric)		
Waist	Gulick II Tape	None Metric	Tape
Circumference	Measure Model 67020		
Emergency Defibrilla		None Same	Equipment
Physical Activity	Accelerometry Units	None Same	Equipment
Measurement	 GT3X Triaxial 		
	Activity monitor		
Physical Activity	Accelerometry Belts	None	Same Equipment
Measurement Physical Activity	Automatic Blood	None Same	Equipment
/Safety	Pressure monitor	None Same	Ечартен
Physical	Glucometer None		Same Equipment
Exam/Safety			
ECG	Philips Pagewriter	None Same	Equipment
ADI Nico	Trim III	None Come	Farriament
ABI Nico	let Vascular Pocket-Dop II	None Same	Equipment
	Doppler		
ABI Standard	Aneroid	None Same	Equipment
	Sphygmomanometer		
Spirometry Easyone		None Same	Equipment
Online we of the Andrew Co.	spirometry Software	None Corre	Facilities and
Spirometry Adapter		None Same	Equipment

Spirometry	Easyone Spirettes	None	Same Equipment
Spirometry Rudolf	3-liter calibration syringes	Hans Rudolf, Inc.	Same Equipment
Spirometry MIP	gauges	None Same	Equipment
Spirometry Dispos	able mouthpieces	None Same	Equipment
Spirometry	Nose clips	None	Same Equipment

Table 4. Non-standardized study equipment

Study		Calibration and/or maintenance
component	Recommended equipment	required by LIFE
Timed	stopwatch None	
Assessments		
Height Wall	mounted stadiometer or	None
	wall mounted rule with level	
Weight	Balance Beam Scale	20 kg weight
Blood	Aneroid BP Cuff	None
Pressure		
Sample	Refrigerated centrifuge	Freezer temperatures should be
processing		recorded daily.
and short-	-70°C freezer	
term storage		

All standard maintenance should be documented by date in a permanent log at the field center. Problems and solutions should also be recorded. Copies of calibration records must be kept on file. The log and calibration records are inspected during periodic site visits, or copies may be requested by the LIFE Administrative Coordinating Center at periodic intervals.

24.3.3. Data Quality

Field center staff are asked to review all of the participants' questionnaires and data collection forms prior to ending each clinic visit. Forms must be completed neatly and accurately, and every question should be answered. Written responses to any items on the questionnaires/forms should be legible. After reviewing the forms, the reviewer's initials should be written in the form header (top of first page) as a confirmation that a review was done.

Throughout the study, the Administrative Coordinating Center (ACC) reviews copies of selected participant forms. Initially, a selected sample of forms from the first randomized participants will be reviewed. Details about which forms are to be sent to the ACC will be communicated to each site after randomization has begun. Any identifying information must be blacked out. This set of forms should be sent to the Administrative Coordinating Center as they are completed. Thereafter, forms are reviewed on a periodic basis, and may include a subset of forms or recognized "problem forms". The Administrative Coordinating Center staff verifies that the forms are legible and that they are filled out correctly and completely.

The data entry screens are designed to mirror the paper data collection forms to allow smooth flow from item to item and thereby minimize error with data entry. Verification of participant identifiers and visit numbers are incorporated into the data entry system, in addition to gross range checking of fields.

The DMAQC center regularly performs internal comparisons of the entered data to detect missing records or suspicious or invalid data. These comparisons include logical consistency checks of data within and across forms/questionnaires. When inconsistencies are detected, the field center is notified through edit reports, and is asked to verify, if possible, some entries. Prompt action with these verification requests is essential for an efficient quality control system.

24.3.4 Administrative Coordinating Center Activities

Quality assurance is a major activity of the Administrative Coordinating Center throughout the study. Activities include:

- Training/retraining of field center staff in data collection procedures
- Data control (filing, manual editing, special coding efforts)
- Monitoring of data entry activities and error rates.
- Documentation of database changes.

Monitoring of the LIFE study data takes place at the DMAQC center. These activities include validation, data control and report generation. Some of the monitoring and quality control reports are transmitted to the field centers for immediate action and attention; other quality control and monitoring reports are generated for the NIA Project Officer, the Steering Committee, the Field Centers and the Data and Safety Monitoring Board. For example, these reports include data on:

- Recruitment yields at each field center
- Summaries of certifications
- Problems observed or reported at site visits
- Serious adverse events
- Deviations from protocol
- Missed visits, refusals, losses to follow-up
- Adherence
- Errors in collection, labeling, storage, or shipping of laboratory specimens

It is the responsibility of Administrative Coordinating Center personnel to review these reports on a timely basis, to initiate action to remedy any problems as soon as possible, and, if necessary, to participate in site visits at the field centers, as well as to perform follow-up evaluations of actions taken.

24.3.5. Reports to NIA and Steering Committee

During the recruitment period of the trial, monthly reports on recruitment activities by each LIFE field center are provided to the Steering Committee, the Principal Investigators and the NIA Project Officer.

During all phases, monitoring reports and analyses are be generated for each field center and the whole study. These are reported to the Principal Investigators, the Steering Committee and the Program Directors.

Annual reports include a summary of quality control data by field center.

24.3.6. Data Safety Monitoring Board Activities

The Data Safety Monitoring Board (DSMB) is an independent panel of experts who review and advise on the scientific and operational progress of LIFE. The DSMB periodically reviews and evaluates data on recruitment, quality control, compliance, adverse events, and outcomes. This panel reports directly to the NIA and may recommend corrective action, changes in the protocol, or early stopping of the study. The DSMB also reviews and advises on proposed changes in the protocol originating from the Steering Committee and proposals for ancillary studies.

The charge of the DSMB is the following:

- Review the study protocol and the informed consent
- · Identify modifications if needed
- Identify the relevant data and the format of the information to be regularly reported
- Review data (including masked data) relating to efficacy, recruitment, randomization, compliance, retention, protocol adherence, trial operating procedures, forms completion, intervention effects, gender and minority inclusion and subject safety
- Identify problems relating to safety. Inform study PI via written report, who, in turn, ensures that all Field Center PIs receive this report.
- Identify needs for additional data relevant to safety and request these data from the study investigators
- Propose appropriate analyses and periodically review developing data on safety and endpoints
- Make recommendations regarding recruitment, treatment effects, retention, compliance, safety issues and continuation of the study
- Send the Program Administrator and PI written reports following each DSMB meeting
- The study PI is be responsible for sending the reports to individual site PIs, who in turn are required to distribute the report to their local IRBs

- The DSMB may convene an executive session at any time. The PI and project officer would attend these meetings
- At any time, the DSMB may recommend discontinuation of any component/treatment group of the study for any of the following reasons:
 - · Compelling evidence from this or any other study of
 - an adverse effect of the study treatment(s) that is sufficient to override any potential benefit for the interventions to the target population
 - a significant beneficial effect of the study treatment(s), such that its continued denial to other study group(s) would be unethical
 - A very low probability of addressing the study goals within a feasible time frame

24.3.7. Changes in the Manual of Procedures (MOP)

Changes in the MOP may need to be made from time to time. A draft of all changes to a MOP chapter is reviewed by a sub-committee of Administrative Coordinating Center before the revised version is posted on the LIFE website. New edits in a MOP chapter are underlined when the revised chapter is posted. Clinic staff is advised via E-mail when changes to the MOP are posted to the study web-site.

If a major procedural or design problem occurs, the Executive Committee is asked to make a recommendation, the change is made as above, and the Steering Committee is asked to approve these changes at the regularly scheduled meeting.

24.3.8. Changes in Forms

The LIFE Web site lists all of the study forms and identifies the current Version number and Date for each form. Minor changes in a form result in the same Version Number but a change in the date. In this case, the change to the form is not significant enough to warrant a reissue of the form and the current version is still valid. Any time that changes to a form are significant, a new Version Number is issued and the new form must be used.

Changes to forms are reviewed by a sub-committee of the Administrative Coordinating Center before the new version is distributed. Clinic staff are advised via E-mail when a new version of a form is posted to the study web-site.

24.4. SITE VISITS

During recruitment and follow-up, the Administrative Coordinating Center with other study personnel make site visits at each field center to promote communication, answer questions, and ensure that study procedures are understood and carried out correctly. The site visit program provides a mechanism to encourage the effective and standardized delivery of recruitment efforts, intervention programs, and the collection of appropriate and valid data

within each of the LIFE clinic sites. Site visits may also be performed if consistent departures from the Protocol and Manual of Procedures are detected. The decision for these site visits rests with the Administrative Coordinating Center. Retraining may be done as needed during these visits, depending on the availability of staff.

One of our most valuable resources is the LIFE clinic staff who are collecting the data and providing for the delivery of the intervention. It is these individuals who have the day to day experience, and first hand knowledge as well as a practical perspective to identify and help correct problems and/or variations in procedures that field centers may be having. Before the visit, the field centers are sent a proposed agenda and a schedule is worked out in advance. The Principal Investigator, Program Coordinator, and other key staff members, are involved. The first round of site visits occurs after experience is gained with the first wave of participants. This enables the Study to look at recruitment efforts, the methods of process and procedures, and any staffing problems clinics may be encountering.

The site visit is an ideal time for suggesting solutions for problems that are identified. It should be noted that outside visitors may not have better answers; however, they may have different answers that may prove useful. Of equal importance are the lessons that site visitors gain while watching other centers in action. The observational experience can enhance and increase the visitor's own skills at developing problem solving strategies and solutions. Consequently, the site and peer-review visits is a time when the Administrative Coordinating Center staff, peers and clinic site staff review progress and problems, share what has/has not worked, and consider new strategies and solutions.

After each site visit, two types of site visit reports are carried out. The first is a frank discussion at the end of the visit between the Site Visit Team, the Principal Investigator and key staff at the clinic site. A list of "Action Items" is provided. The Site Visit Team prepares written reports on the activities of the site visit. A detailed report of the team's observations and recommendations subsequently are then sent to the Principal Investigator of the clinic, and the Steering Committee. The Clinic PI is expected to respond in writing with the clinic plan for addressing the "Action Items".

24.4.1. Organization of the Site Visit

The site visits are designed to insure that each LIFE clinical site is recruiting appropriate individuals and collecting high quality data. Objectives for the site visitor are: a) to determine if the Protocol and Manual of Procedures are being followed, and if not, what measures should be taken to correct the problems; and b) to learn as much as possible from clinic center staff about how to improve effectiveness in meeting recruitment goals, collecting data, and facilitating a smooth clinic flow.

A key to a successful site visit is adequate preparation both from Administrative Coordinating Center and clinic centers. The visits should serve to enhance communication throughout the study, and to personalize interchange among clinic staff and investigators.

Questions for the Clinic Staff

During the site visit the visitor should seek answers to the following questions, review and discuss data reports provided by the Administrative Coordinating Center and explore any concerns or questions that arise.

- 1. Do clinics have an adequate number of appropriately trained staff members to provide for effective recruitment, data collection, data entry and intervention delivery?
- 2. Are staff roles clearly defined and is there communication and interaction between the various working groups?
- 3. How is information shared, for example, changes in the MOP or Protocol?
- 4. What is the overall view of clinic flow?
- The clinic tracking/scheduling system is discussed and the following questions may be asked.
 - a. What is the procedure followed when a participant does not show up for his/her appointment?
 - b. How does the clinic keep track of where an individual is in the study flow so that the participant is scheduled within the appropriate window?
 - c. How are problem participants handled?

During the site visit, the visitor may ask to follow a participant through an entire visit, observe a randomly selected interview and observe the collection of physical measurements. Questions are asked about where records are kept and how participant confidentially is assured. A site visitor conducts selected chart reviews to look at the following:

- a. informed consent and appropriate signatures;
- b. complete data forms and questionnaires; and
- c. source documents.

Protocol and Manuals

The following questions concerning study documentation should be answered during the course of the site visit.

- 1. Where is the MOP located in the clinic and do clinic staff have easy access to it?
- 2. Do the Protocol and MOP have all the updates included?
- 3. What is the procedure for maintenance on equipment? Where are the quality control logs documenting that equipment is checked at

- appropriate intervals?
- 4. Where is the IRB approval document? Has the IRB been informed of protocol changes?
- 5. A review of laboratory procedures and what OSHA regulations are being followed.
- 6. A review and discussion of data reports provided by the Administrative Coordinating Center, and exploration of any concerns or questions that arise. Possible items for discussion includes: data edits, missing/delinquent forms, missed visits and protocol violations.

Preparation for the site visit is valuable to the staff. Preparation should include:

- 1. Distribution of the site visit guidelines to all staff;
- An explanation of the goals of the site visit to all staff;
- 3. A review of compliance with the guidelines during staff meetings prior to site visits; and
- 4. A self-evaluation of clinic strengths and weaknesses by each staff member in preparation for discussions with site visitor(s).

Post site-visit activities at the field center should include:

- 1. A staff meeting to debrief the field center staff regarding information and issues related to the site visit;
- 2. Review of the written site visit report when available;
- 3. Goal setting and planning based on site visit recommendations:
- 4. A written response from the PI to the Site Visit Team:
- 5. A follow-up progress report and discussion with the site visit team approximately three months after the site visit.

24.4.2. Site Visits to Central Laboratories and Reading Centers

Site visits are also conducted periodically at the central laboratory and reading centers. Site visit members include Administrative Coordinating Center staff, and other LIFE investigators.

24.5. Physical Activity/Successful Aging Intervention

Quality control across and within study field center is be achieved at several different levels. All centers in LIFE utilize the same Physical Activity and Successful Aging intervention. A set of manuals have been developed by LIFE and approved by the Steering Committee. These include a participant manual for the participants and an accompanying guide for the interventionists (see the Physical Activity Interventionist's manual and the Successful Aging Interventionist's training guides). All centers use these materials, which have

been designed to be appropriate for individuals of different backgrounds and educational levels. In addition, two counseling staff from each site are centrally trained by the Interventions and Operations Committee and monitored to ensure they deliver the intervention as designed. These individuals are responsible for training other staff members at their field centers who are to be involved in the intervention. Such training involves the following: (a) a review of the study protocol, (b) peer-tutored review of the lecture content presented during central training, (c) small group exercises similar to those offered during central training to practice exercise techniques and skills, and (d) the trainee's observation of the senior interventionist conducting several individual and group sessions.

To maintain the fidelity of the intervention, LIFE provides (a) strong initial and follow-up training for intervention staff, (b) monthly monitoring of center and participant behavior via a computerized tracking system, (c) Lifestyle Resource Core generated monthly contacts with each clinic concerning potential problems that may exist for specific groups or individuals in the LIFE intervention, and (d) site visits when required.

Central training is provided for intervention staff at the start of the study and onsite updates are provided on an annual basis. These training/review sessions contribute significantly to the quality of data by providing an opportunity for learning/updating intervention and data collection skills, recruiting skills, addressing specific problems related to adherence, and promoting study camaraderie. Since the need for replacement training is difficult to predict, the scheduling of these sessions are done on an *ad hoc* basis. Interventionists are asked to confirm in writing that they have read and are fully conversant with the training materials and study procedures.

Field centers are provided with adherence and retention strategies and are encouraged to tailor these to the needs of their participants (based on factors such as ethnicity and geographical region) and to regularly monitor their performance. To monitor these variables, we have developed a computerized intervention tracking system to increase adherence by the interventionists to the study protocol. Elements of the LIFE computerized tracking system include demographic data on each participant, attendance records for both individual and group sessions, and exercise training parameters. Data are entered on each participant on a weekly basis and downloaded to the Administrative Coordinating Center. Data are used to generate monthly reports by the Administrative Coordinating Center for the Lifestyle Resource Core that are responsible for intervention fidelity. These reports include, but are not limited to the following:

 The average number of minutes of weekly physical activity for each participant. The distance covered during the onsite walking sessions, the reported perceived exertion, the weight used during strength training exercises. Average rates of attendance for the individual and group sessions for each field center in the LIFE trial. Interventionists query participants deemed intervention dropouts (i.e., those who refuse to participate in any further intervention activities) as to their reasons for disc ontinuing active participation. T hese reas ons are documented in the tracking system. Participants who have withdrawn from the intervention are encouraged to remain active in follow-up data collection (i.e., discontinue intervention activities but continue in follow-up data collection). However, those individuals who elect to withdraw from both aspects of study participation continue to be contacted by the retention staff.

The Lifestyle Resource Core (LRC)

The Lifestyle Resource Core is responsible for the monthly monitoring of the interventions study-wide and for contacting individual sites that are failing to meet study goals. This core also serves as an expert panel for questions that may arise on the part of the individual interventionists throughout the course of the study. Members of this core are appointed by the steering committee in conjunction with the Lifestyle committee of LIFE. Some of the tasks of the LRC include: a) conducting conference calls on a monthly basis with region interventionist, b) reviewing monthly reports from the DMAQC, c) responding to email inquiries from sites.

Appendix A Certification Forms

LIFE Certification/Recertification Telephone Screening

Na	me			Staff ID
1.		Attendance at LIFE training	session Date	or
		Local training by a staff mem	ber certified in th	e procedure.
		Date Name of	of Trainer	
		Description of local training:		
2.	∐В	Become familiar with LIFE Stud	dy website	
3.	Requ	ired Reading		
		Chapter 1, Protocol		
		Chapter 4, General Procedures	3	
		Chapter 6, Screening		
		Chapter 24, Quality Control		
		Chapter 25, Interviewing		
4.		Conducts 3 interviews with old of an assessor certified in adm		via the telephone in the presence
5.		Date of Certification		
Sig	gnatui	re of Program Coordinator & D	— ———— Date Signature	of Principal Investigator & Date

LIFE Certification/Recertification Checklist Telephone Screening

Technician Name	Staff	
Observes the Follow	/ing Procedural S	Steps:
 Reads slow Always read Asks every Repeats queritten. Offers to read Asks questi Took care to involved in each exercise and continuous exercise exercise and continuous exercise exerci	ds the entire quest question estions if it is answered a question if ponnaire items in or determine how not activity (e.g., so cool down into their look to double count briskly I not to count leisundes participant's records the total nur	versational rhythm and in a normal tone of voice ion before getting the participant's response vered inappropriately, but repeats it exactly as participants does not understand the question rder and exactly as worded nany minutes the participant was actually one people incorrectly count time getting ready to r estimate of time exercised) and any time spent walking hills into minutes re walking as "walking briskly" responses on the data collection forms mber of minutes of physical activity reported by
Comments:		
Observer:		Date observed:

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LIFE Certification/Recertification Short Physical Performance Battery (SPPB)

Na	me	Staff ID		
4.		Attendance at LIFE training session or or		
		Local training by a staff member certified in the procedure.		
		Date Name of Trainer		
		Description of local training:		
5.	□ E	Become familiar with LIFE Study website		
6. I	Requ	ired Reading		
		Chapter 1, Protocol		
	☐ Chapter 4, General Procedures			
	☐ Chapter 6, Screening			
	Chapter 8, Follow-up Visits			
		Chapter 16, Physical Measures		
		Chapter 24, Quality Control		
		Views Training CD-ROM entitled "Assessing Physical Performance in the Older Patient		
4.	F	Conducts 3 assessments, records on the Short Physical Performance Battery Form. Trainer uses and completes the SPPB Certification Checklist during observation of the procedure.		
5.		Date of Certification		
— Sic	natu	re of Program Coordinator & Date Signature of Principal Investigator & Date		

LIFE Certification/Recertification Checklist Short Physical Performance Battery

Technician Name	Staff	
During Procedure:		
1. 🗌 Ensure	es participant's safety at all ti	mes.
Observes the Follow	ving Procedural Steps:	
Stopwa	bles proper materials and ed atch, masking tape, 5 meter t ght-backed chair with a hard	ape measure, script, score sheet, and
	ly sets up course layout for t	
	s participant and reviews pro	
		proper footwear, i.e. not high heels.
	ms tests in their proper order	
	les instructions exactly as the	•
	tes location where SPPB warly demonstrates each mane	•
	es that participant understan	
<u>—</u>	s each maneuver correctly.	ds the matidotons.
		fic maneuver is not attempted.
	ons participants correctly for	
	ons himself/herself correctly for	
		pant until feet are in correct position.
	the balance tests correctly.	
17. Propei speed	•	or walker should be used for gait
	cts participant to walk at their	
	the gait speed test correctly	•
<u>—</u>	tes length of walking course.	
	ds whether walking aid was i	
	ons chair properly against wa mines whether participant fee	
		els safe standing from chair with arms
folded	• •	no date diamaning from orial with armo
25. Recor		ble to stand from chair without the use
26. Deteri		els safe standing from chair five times
	cts participant that five chair	stands should be done as quickly as
	the repeated chair stand tes	t correctly

	29.	Stops the repeated chair stand test properly, i.e. participant has to use their arms, is unable to complete the test after one minute, or stops and is unable to continue. Correctly calculates summary score for balance tests Correctly calculates composite score for SPPB.
Comn	nents:	
Obser	ver:	Date observed:

LIFE Certification/Recertification Seated Blood Pressure

Name	Staff ID
1.	Attendance at LIFE training session or Date
	☐ Local training by a staff member certified in the procedure.
	Date Name of Trainer
	Description of local training:
2.	
3. I	Required Reading
	☐ Chapter 1, Protocol
	☐ Chapter 4, General Procedures
	☐ Chapter 6, Screening
	☐ Chapter 8, Follow-up Visits
	☐ Chapter 16, Physical Measures
	Chapter 24, Quality Control
4.	Conduct 3 blood pressures, record on the Blood Pressure, Radial Pulse & Weight Form. Trainer uses and complete the Seated BP Certification Checklist during observation of the procedure.
5.	☐ Date of Certification
Signat	ure of Program Coordinator Date Signature of Principal Investigator Date

LIFE Certification/Recertification Checklist Seated Blood Pressure

Name	Staff ID
During Procedure:	
 Keeps participant warm, relaxed Discourages participant from to about instructions 	ed and comfortable alking except to voice discomfort or confusion
Observes the Following Procedural Ste	eps:
 Greets participant and reviews 5. Seats participant in proper posit resting on table Determines appropriate cuff siz arm circumference. Measures lend process, marks midpoint on arm. Mark. Determines cuff size from M7. Records arm circumference, cu Measures and records radial pu Places cuff properly with cente the level of participant's heart Palpates brachial artery and est Confirms participant is relaxed a seated quietly for 5 minutes prior Cobserves the 5 minutes of relaxed and confirms 2 blood pressure meas first reading and beginning of st Records both BP readings corrected. 	measuring tape, cosmetic marking pencil curpose, time requirement and procedure. Sion- both feet flat on floor, right forearm by following protocol for measurement of 19th of arm from acromion to olecranon 19th of arm circumference at mid point 19th of compart 19th of arm measured on data form 19th of bladder over the brachial artery and cuff at 19th of comfortable and reminds of the need to be 19th of 19th of 20th of
Observer:	Date Observed:

LIFE Certification/Recertification Weight, Height

Name	Staff ID
Attendance at LIFE training session	or Date
Local training by a staff member cert	tified in the procedure.
Date Name of Trainer	
Description of local training:	
2. Become familiar with LIFE Study we	ebsite.
3. Required Reading	
Weight form. Observer uses and comple Checklist during observation of procedu	re. Observer uses and completes the Weight
Signature of Program Coordinator	
Signature of Principal Investigator	

LIFE Certification/Recertification Checklist Weight, Height

Technician Name	Staff ID
Observes the Following Procedural	Steps:
mounted ruler with level 2. Greets participant and re 3. Confirms participant is we shoes removed 5. Positions participant correlation looking straight forward 5. Determines and records 6. Articulates the requirement 7. For height, positions par	weight; wall-mounted stadiometer or wall- for height.
Comments:	
Ohsen/er	Date Observed

24-27

LIFE Certification/Recertification Waist Circumference

Name		Staff ID
1∐ Attendand	ee at LIFE training session	or Date
☐Local tr	aining by a staff member certific	ed in the procedure.
Date	Name of Trainer	
Desc	cription of local training:	
 2	e familiar with LIFE Study webs	site
	he Waist Circumference Trainin	
4. Required R	eading	
☐ Chapte	er 1, Protocol	
☐ Chapte	er 4, General Procedures	
☐ Chapte	er 6, Screening	
☐ Chapte	er 8, Follow-up Visits	
☐ Chapte	er 16, Physical Measures	
☐ Chapte	er 24, Quality Control	
Weight	ct 3 sets of measures. Record of form. Observer uses and compartion Checklist during observation	
6 ☐ Date o	f Certification	_
Signature of P	rogram Coordinator	Date
Signature of P	rincipal Investigator	 Date

LIFE Certification/Recertification Checklist Waist Circumference

Technician Name	Staff ID
During procedure:	
☐ Ensures participant safety at all times	
Observes the Following Procedural Step	os:
 5. Aligns the tape properly around anatomical landmarks used highest point of the iliac creather mid-axillary line. Marks marker. 6. Reads the measurement neasurement to the neares 7. Demonstrates the procedure 8. Repeats measurement. Control 	shable marker ws procedure ve clothing from abdomen. y: standing with feet together. und the abdomen while articulating the . Determines the midpoint between the st and the lowest part of the costal margin in the midpoint on both sides with washable ext to the "zero line" and records the
Comments:	
Observer:	Date Observed

24-29

LIFE Certification/Recertification 12 Lead ECG

lame		Staff ID
1. Attendanc	e at LIFE training session	or ate
Local to	raining by a staff member certified	d in the procedure.
Date	Name of Trainer	
Description o	f local training:	
3. Required Read	-	
☐ Chapter 1, F	Protocol General Procedures	
	12 lead ECG	
4. Date of Cert	ification	
ignature of Program (Coordinator & Date Signature	 of Principal Investigator & Da

LIFE Certification/Recertification Checklist 12 Lead ECG

Technician Name Staff ID	
During Procedure: 1. ☐Ensures participant's safety at all times.	
Observes the Following Procedural Steps: 2.	electrode will
Comments:	
Observer: Date Observed:	

LIFE Certification/Recertification 400 Meter Walk (400 MW)

	Staff ID
5.	Attendance at LIFE training session or or
	Local training by a staff member certified in the procedure.
	Date Name of Trainer
	Description of local training:
6.	☐ Become familiar with LIFE Study website.
7. F	Required Reading
	☐ Chapter 1, Protocol
	☐ Chapter 4, General Procedures
	☐ Chapter 6, Screening
	☐ Chapter 8, Follow-up Visits
	☐ Chapter 16, Physical Measures
	☐ Chapter 24, Quality Control
	☐ Views Training CD-ROM on 400 MW
8.	☐ Conducts 1 assessment, records on the 400 meter walk Form. Trainer uses and completes the 400 meter walk Certification Checklist during observation of the procedure.
	Date of Certification

LIFE Certification/Recertification Checklist 400 M Walk

Technician Name	Staff	ID
During Procedure: 1. ☐Ensures partic	sipant's safety a	at all times.
sheet. 3. Properly sets of Greets participes. 5. Ensures that percent exclusions. 7. Provides instructs particing himself/herself. 9. Properly demonstructs and percent exclusions. 10. Ensures that percent exclusions. 11. Records data exclusions. 12. Provides standers. 13. Delivers key percent exclusions. 15. Records the descriptions. 16. Correctly records.	opper materials a affic cones, Red up course layou pant and review participant is we sion criteria for a uctions exactly cipant to walk a postrates each a participant under properly. dard encourage points from scrip self/herself corrections	and equipment: li-measure wheel, 2 standard chairs, script, data ut for the 400 M Walk test. rs procedures. raring proper footwear, i.e. not high heels. 400 M Walk. as they are written in the script. It his/her usual pace without overexerting maneuver. rstands the instructions. rement to participant. pt clearly. rectly for the walk d correctly completion or the time when participant stops. rection forms
Comments:		
Observer:		Date Observed:

LIFE Certification/Recertification Accelerometry

Name	Staff ID
1. Attendance at LIFE training sess	sion or Date
☐ Local training by a staff member	certified in the procedure.
Date Name of T	rainer
2. Become familiar with LIFE Study w	vebsite.
3. Required Reading	
☐ Chapter 1, Protocol	
☐ Chapter 11, Accelerometry MOP	
☐ Chapter 16, 400 meter walk	
☐ Chapter 24, Quality Control	
☐ Views Training CD-ROM entitled "	Accelerometry"
4. Understands monitor will be worn	during 400 m walk and at home.
5. Date of Certification	
Signature of Program Coordinator & Date	Signature of Principal Investigator & Date

LIFE Certification/Recertification Checklist Accelerometry

Technician Name	Staff		
Observes following	procedure steps:	:	
the monitor 2. Properly in 3. Check material 4. Places motion 5. Explains in 6. Download 7. View data 8. Converts	nitializes the monito orks the correct axes onitor on participant onstructions for carin	or with subject ID an s and steps t correctly (belt shoung of monitor while value	ıld be snug fit)
Comments:			
Observer:		Date obse	rved:

LIFE Certification/Recertification Medication Inventory

Name		Staff ID	-
1. Attendance at	LIFE training sessior	n or Date	
☐Local training t	by a staff member ce	ertified in the procedure.	
Date	Name of Train	ner	
Description of lo	ocal training:		
2. Become famili	ar with LIFE Study w	website.	
3. Required Reading	g		
☐ Chapter 1, Pro	otocol		
Chapter 4, Ge	neral Procedures		
Chapter 6, Sc	reening		
☐ Chapter 8, Fol	llow-up Visits		
Chapter 24, Q	uality Control		
Chapter 25, In	terviewing		
Form. Trainer use		cations, record on the Medicate Medication Inventory Certification Inventory Certification.	•
5. Date of Certific	cation		
Signature of Program Co	oordinator Date	Signature of Principal Investi	igator Date

LIFE Certification/Recertification Checklist Medication Inventory

Techn	ician Name	Staff	
Obser	ves the Follow	wing Procedura	al Steps:
7.	medications t Writes the For each p name, streng For each p and whether of For each r the name, stre For each r code and whe If participal medication list If participal available, ask	rticipant and ask aken during the name of each represcription med th, and units. The containant of the containant of the containant of the containant of the containant did not bring at the containant did not bring as participant to	is to see all prescription and over-the-counter past two weeks. Inedication on a separate line. Ilication, accurately and completely transcribes the lication, accurately indicates the formulation code, ner was actually seen. Inedication, accurately and completely transcribes in medication, accurately indicates the formulation container was actually seen in all their medications, asks participant for a in all their medications and a medication list is not recall all the prescription and nonprescription in the during the past two weeks.
Comm	ents:		
Obser	ver:		Date observed:

LIFE Certification/Recertification Grip Strength

Name	Staff ID
1.	☐ Attendance at LIFE training session or Date ☐ Local training by a staff member certified in the procedure.
	Date Name of Trainer
	Description of local training:
2.	☐ Become familiar with LIFE Study website.
3.	Required Reading
	☐ Chapter 1, Protocol
	☐ Chapter 4, General Procedures
	☐ Chapter 6, Screening
	☐ Chapter 8, Follow-up Visits
	☐ Chapter 16, Physical Measures
	☐ Chapter 24, Quality Control
4.	☐ Conduct 3 sets of measures, record on Grip Strength Form. Trainer uses and completes the Grip Strength Certification Checklist during observation of the procedure.
5.	☐ Date of Certification
Signat	ure of Program Coordinator &Date Signature of Principal Investigator & D

LIFE Certification/Recertification Checklist Grip Strength

Name			Staff ID
Observes the Follow	ving Procedural S	Steps:	
 Greets partices with the second state of the second s	ipant and reviews property hether participant is whether participant hor hand or any surgents. I for a smaller or largent arrow of dynamomet ticipant's arm property griard as possible. I ractice try to familiar the bars are the right participant.	s right- or left-handed. as had a current flare-upery on his/her dominant at position appropriate for the family and when necessary are is set at ZERO. If yon the table, with elbour bars of dynamometer ize participant with the family distance apart for a content the two trials. It is a kilograms.	o of pain in his/her hand or wrist in the or participant. y. ow bent, while seated and squeeze eel of the instrument.
Comments:			
Observer:		Date observed:	
Signature of Program (Coordinator & Date	Signature of Principal I	nvestigator & Date

LIFE Certification/Recertification Blood/Urine Collection

Name		Staff ID
1.	☐Attendance at LIFE training se	ession or Date
	☐Local training by a staff member	er certified in the procedure
	Date Name of T	rainer
	Description of local training:	
2.	☐ Become familiar with LIFE Stu	idy website.
3.	Required Reading: Chapter 13	, Biological Sample Collection and Processing
4.	Completes Blood Collection C Certification Checklist Forms.	ertification Checklist and Urine Collection
5.	Date of Certification	
Obser	ver:	Date observed:
Signat	ture of Program Coordinator & Date	e Signature of Principal Investigator & Date

LIFE Certification/Recertification Checklist Blood Collection

Name		Staff ID
Observes/completes the following p	rocedural step	os on one volunteer:
times. 2. Assembles proper materials 3. Completes the Phlebotomy I 4. Labels tubes and Phlebotomy I 5. Completes the Phlebotomy I 6. Performs venipuncture per partiming the procedure with a stopwatch 7. Places the appropriate tubes 8. Inspects and provides a band 9. Delivers tubes to processing 10. Inputs data from the Phlebot system. Data entry performed by oth	and equipmen Log. ny Form. Form, covering proper techniqu s on ice after gendage to venipuly g station at the storny Form into	all questions. e, in the assigned tube order, entle mixing. incture site. appropriated temperatures. the LIFE web based data entry
Comments:		
Observer:	Date	Observed:

LIFE Certification/Recertification Checklist Urine Collection

Name		-	Staff ID	
2. 3. 4. 5. 6.	rves/completes the following Instructs the participant to hour prior to the scheduler. Ensures participant's safe. Labels Urine Collection For Gender-specific procedure. Delivers container to procedure. Inputs data from the Urine entry system. Data entry performed by container.	drink a full glass of d visit. ty at all times. orm and collection es explained to the essing station. e Collection Form in	of water 1 container participant. nto the LIFE web based d	ata
Comm	nents:			
Obser	ver:	Date	Observed:	

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LIFE Certification/Recertification Blood/Urine Processing

Name		Staff ID
1.	☐ Attendance at LIFE training session ☐ Local training by a staff member of	Date
	Date Name of Trai Description of local training:	ner
2.	☐ Become familiar with LIFE Study	website.
3.	☐Required Reading: Chapter 13, B	ological Sample Collection and Processing
4.	☐Required Reading: Investigator M	anual from Diagnostic Testing Lab
5.	☐ Completes Blood Processing Cer Checklist Forms.	tification and Urine Processing Certification
6.	☐ Date of Certification	
Signat	ure of Program Coordinator & Date	Signature of Principal Investigator & Date

LIFE Certification/Recertification Checklist Blood Processing

Name	Staff
During the procedure: 1. Ensures blood samples are Bench-top cooler during pro	handled appropriately on ice or in a sample tube ocessing.
	
instructions. 6. Serum tubes are kept at roc longer than 60 minutes prior to centrifug 7. Keeps tubes and cryovials a 8. Process all tubes immediate 9. Follows all steps in the Life s 10. Places the cryovials into a 2 freezer. 11. Cleans processing area with 12. Records freezer and centrifu	at their appropriate temperatures at <u>all</u> times. Ely after centrifugation. Study Blood Processing chart. The labeled storage box and stores in a -70°C The labeled or appropriate viral cleanser. The labeled storage box and stores in a -70°C The labeled stores in a -70°C The labeled stores in a -70
Comments:	
Observer:	Date Observed

LIFE Certification/Recertification Checklist Urine Processing

Name		Staff
 Assemble Labels all Follows a Centrifught Places th Cleans processinh Inputs da entry system. 	es urine prior to aliquoting e cryovials into a 2" labele ocessing area with 10% but area for the next day.	quipment c Collection Form. section on Urine Processing. c storage box and stores in a -70°C. bleach or appropriate viral cleanser. ing Form into the LIFE web based data
Comments:		
Observer:		Date Observed

LIFE Certification/Recertification Ankle Brachial Index

Name	Staff ID
Attendance at LIFE training session Local training by a staff member cere	Date
Date Name of Trainer	
Description of local training (Includ certification:	e dates of at least 3 practice ABIs prior to
 measurement. 4. □Successfully completes quiz of ABI/website: www.thelifestudy.org). 5. □Conducts 3 practice ABIs 	ent.nejm.org/cgi/content/short/361/19/e40) of PAD measurement (posted on the LIFE Study se volunteer and meets all criteria on the ABI
Signature of Trainer & Date	Signature of Principal Investigator & Date

LIFE Certification/Recertification Checklist Ankle Brachial Index

Name	Staff
Obser	ves the Following Procedural Steps:
Supin	e Ankle-Brachial Index
1.	Directs patient to lie down in supine position, with a head pillow for comfort if needed.
2.	Allows patient to relax in this position for at least 5 minutes before starting ABI test.
3.	Advises patient that we will not talk during the ABI because we would like the patient to be completely relaxed.
(<u>Righ</u>	t Brachial Artery)
4.	Places blood pressure cuff of appropriate size over right brachial artery. Locates brachial artery by palpation. Applies ultrasound jelly over brachial artery. Locates brachial artery using Doppler probe. Locates maximum flow of brachial artery with Doppler probe. Positions the Doppler probe so that it is pointed in the direction of oncoming flow. Inflates cuff quickly to at least 20 mm Hg above maximal pressure. Deflates at 2 mm Hg/second until a <u>sustained</u> systolic pressure is audible. Deflates cuff quickly and completely. Records systolic blood pressure at which a <u>sustained</u> pulse was first audible.
(<u>Righ</u>	t Posterior Tibial Artery)
14	Locates right posterior tibial artery by palpation. Applies ultrasound jelly over posterior tibial artery. Locates right posterior tibial artery using Doppler probe. Locates maximum flow of posterior tibial artery with Doppler probe. Positions the Doppler probe so that it is pointed in the direction of oncoming flow. Inflates cuff quickly to at least 20 mm Hg above maximal pressure. Deflates cuff at 2 mm Hg/second until a sustained systolic pressure is audible. Deflates cuff quickly and completely. Records systolic blood pressure at which a sustained pulse was first audible.
(<u>Left</u>	Posterior Tibial Artery)
23 24 25 26	Locates left posterior tibial artery by palpation. Applies ultrasound jelly over posterior tibial artery. Locates left posterior tibial artery using Doppler probe. Locates maximum flow of posterior tibial artery with Doppler probe.
27. <u></u>	Positions the Doppler probe so that it is pointed in the direction of oncoming flow. Inflates cuff quickly to at least 20 mm Hg above maximal pressure. Deflates at 2 mm Hg/second until a sustained systolic pressure is audible.

30. Denates cuit quickly and completely.	
31. Records systolic blood pressure at which a	sustained puise was first audible.
(<u>Left Brachial Artery</u>)	
Places blood pressure cuff of appropriate sizes. Locates left brachial artery by palpation. Applies ultrasound jelly over brachial artery. Locates brachial artery using Doppler probe Locates maximum flow of brachial artery wites. Positions the Doppler probe so that it is poir language. Inflates cuff quickly to at least 20 mm Hg ab Deflates at 2 mm Hg/second until a sustain Deflates cuff quickly and completely.	. th Doppler probe. the direction of oncoming flow. ove maximal pressure.
41. 🔲 Records systolic blood pressure at which a s	sustained pulse was first audible.
(Repeat Readings)	
 42. Repeats entire set of ABI measurements in posterior tibial, right posterior tibial, right br. 43. Calculates the ABI using the LIFE data entities. 	achial arteries).
Observer:	Date Observed:

LIFE Certification/Recertification Spirometry

ession or
Date
per certified in the procedure.
ainer
y website.
ns (see Spirometry Certification Checklist)
Flynn of the Yale Spirometry Reading Center ning have been successfully completed as cation/Recertification Checklist.

LIFE Certification/Recertification Checklist Spirometry

Name	Staff ID
Spirometry certification and recertification phases.	n requires completion of three training
administered on-line at the Unive http://depts.washington.edu/spiro (Please contact the Administrativ	fun/online/
 Completes online Spirometry trai administered by (Please contact to obtain a User <u>Account.</u>) 	ning course at: http://spirotrain.com
* Routine annual recertification will only	require item 1 above.
Phase II. Hands-on Training by Spirometr Center— 3. Asks exclusion questions 4. Explains procedure to participant 5. Asks participants if they use inha 6. Asks participant to loosen tight fit 7. Follows universal precautions 8. Properly enters ID information on 9. Positions participant properly (sit 10. Obtains three acceptable quality a. Effectively demonstrates b. Places a nose clip during c. Watches for maximum effection d. Enthusiastically coaches e. Evaluates for reproducibil 11. Prints results 12. Exits program properly	ler medications ting clothing computer ting position and head position) FVC maneuvers the FVC maneuver ng the FVC maneuver fort
Phase III. Follow-up training at the field c 13a. For the initial certification, component ATS criteria and sends to for review. 13b. For recertification of assessors we discretion of QC supervisor (), spirometries that meet ATS criter for review.	etes 10 additional practice spirometries that rith suboptimal QC scores and at the completes 5 additional practice

13c. ☐ For annual recertification,of the ` will review at least 5 spirometries th the month subsequent to the compl	at the LIFE assessor performed during
Please note: For initial certification or recertification or recertification of Phases I, II, and III LIFEACC@aging.ufl.edu. The ACC will forwar	training, this form should be submitted to
For annual recertification, after completion of F be submitted to <u>LIFEACC@aging.ufl.edu</u> . The of the Yale Spirometry Reading Center for furt	ACC will forward this to
Comments:	
Observer Date	observed

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LIFE Certification/Recertification Maximal Inspiratory Pressure (MIP) Certification

1. Attendance at LIFE training session or or Date Local training by a staff member certified in the procedure Date Name of Trainer Description of local training: Description of local training description Description of local training description of local training description of local training have been completed as indicated on the MIP Certification/Recertification Description	Name	Staff ID
Date Name of Trainer Description of local training: Become familiar with LIFE Study website. 3. Required Reading Chapter 16, Physical Measures Conducts 1 assessment, records on the maximal inspiratory pressure (MIP) data collection form. Trainer uses and completes the MIP Certification Checklist during observation of the procedure. Received confirmation from Gail Flynn of the Yale Spirometry Reading Center that all steps of the required training have been completed as indicated on the MIP Certification/Recertification Checklist.	Attendance at LIFE training session	
Description of local training: 2. Become familiar with LIFE Study website. 3. Required Reading Chapter 16, Physical Measures Conducts 1 assessment, records on the maximal inspiratory pressure (MIP) data collection form. Trainer uses and completes the MIP Certification Checklist during observation of the procedure. Received confirmation from Gail Flynn of the Yale Spirometry Reading Center that all steps of the required training have been completed as indicated on the MIP Certification/Recertification Checklist.	Local training by a staff member ce	rtified in the procedure.
2. Become familiar with LIFE Study website. 3. Required Reading Chapter 16, Physical Measures Conducts 1 assessment, records on the maximal inspiratory pressure (MIP) data collection form. Trainer uses and completes the MIP Certification Checklist during observation of the procedure. Received confirmation from Gail Flynn of the Yale Spirometry Reading Center that all steps of the required training have been completed as indicated on the MIP Certification/Recertification Checklist.	Date Name of Trainer	
2. Become familiar with LIFE Study website. 3. Required Reading Chapter 16, Physical Measures Conducts 1 assessment, records on the maximal inspiratory pressure (MIP) data collection form. Trainer uses and completes the MIP Certification Checklist during observation of the procedure. Received confirmation from Gail Flynn of the Yale Spirometry Reading Center that all steps of the required training have been completed as indicated on the MIP Certification/Recertification Checklist.	Description of local training:	
3. Required Reading Chapter 16, Physical Measures Conducts 1 assessment, records on the maximal inspiratory pressure (MIP) data collection form. Trainer uses and completes the MIP Certification Checklist during observation of the procedure. Received confirmation from Gail Flynn of the Yale Spirometry Reading Center that all steps of the required training have been completed as indicated on the MIP Certification/Recertification Checklist.		
 ☐ Conducts 1 assessment, records on the maximal inspiratory pressure (MIP) data collection form. Trainer uses and completes the MIP Certification Checklist during observation of the procedure. ☐ Received confirmation from Gail Flynn of the Yale Spirometry Reading Center that all steps of the required training have been completed as indicated on the MIP Certification/Recertification Checklist. 	_	osite.
(MIP) data collection form. Trainer uses and completes the MIP Certification Checklist during observation of the procedure. □Received confirmation from Gail Flynn of the Yale Spirometry Reading Center that all steps of the required training have been completed as indicated on the MIP Certification/Recertification Checklist.	☐ Chapter 16, Physical Measures	
that all steps of the required training have been completed as indicated on the MIP Certification/Recertification Checklist.	(MIP) data collection form. Trainer uses	and completes the MIP Certification
4. Date of Certification	that all steps of the required training hav	e been completed as indicated on the
	4. Date of Certification	
Signature of Program Coordinator & Date Signature of Principal Investigator & Date		

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LIFE Certification/Recertification Checklist Maximal Inspiratory Pressure (MIP) Certification

Name	Staff ID
Hands-on MIP Central Training	(Procedural Steps) –
2. Positions participant propertions. 3. Obtains five MIP maneuver a. Demonstrates the I b. Places a nose cliptic. Watches for maximal d. Enthusiastically contained and Enthusiastically contained and Evaluates for reproperties. 4. Documents results. 5. Upon completion of Items LIFEACC@aging.ufl.edu. The of the Yale Spirometry Reading.	MIP maneuver o during the MIP maneuver num effort aches iducibility (i.e. the highest two readings are within 10 f necessary 1-4, this form should be submitted to e ACC will forward to ing Center to determine that een met as indicated on the MIP
Comments:	
Observer: Date	Observed:
Gail Flynn Date	

LIFE Cognitive Assessment Certification

Complete this form and mail it, along with your mock test administration, to the LIFE Cognition Coordinating Center.

Technician Name Field	Site	Staff	ID
1. Attendance at LIFE training session _	Date	_OR	
Local training by a staff member cert	ified in the pr	ocedure.	
Date Name of Trainer			
Description of local training:			
2. ☐ Become familiar with LIFE Study web	osite		
B. Required Reading: ☐ Protocol ☐ LIFE MOP Chapter 15: Cognitive As	ssessment		
 ☐Administer the cognitive test battery of description in the training manual. 	on at least fou	ır volunteer	s according to the
 Conduct a mock administration on an age appropriate volunteer and n mock administration (forms and tape) to: 		er and mail the	
LIFE Cognition Coordinating Center Wake Forest University School of Me Medical Center Boulevard Winston-Salem, NC 27157-1207			
To be completed by the Coordinating Co	enter:		
Date of Certification			
Signature of Coordinating Center Review	wer		

LIFE Certification/Recertification Interviewing

Name	Staff ID
6. Attendance at LIFE training session or Date Local training by a staff member certified in the procedure.	
Date Name of Trainer	
Description of local training:	
7. Required Reading	
☐ Chapter 1, Protocol ☐ Chapter 4 General Procedures ☐ Chapter 6, Screening ☐ Chapter 8, Follow-up Visits ☐ Chapter 24, Quality Control ☐ Chapter 25, Interviewing	
8. Conducts interviews on one volunteer according to the descr This includes administering the Disability and HRQL Questionna are observed directly by the trainer.	
9. Date of Certification	
Signature of Program Coordinators & Date Signature of Principal I	nvestigator & Date

LIFE Certification/Recertification Checklist Interviewing

Name	Staff
Observes	the Following Procedural Steps:
2.	Properly greets participant Reads slowly in a natural conversational rhythm and in a normal tone of voice Always reads the entire question before getting the participant's response Is aware of the participant's facial expressions, e.g. puzzled, confused Asks every question Repeats questions if it is answered inappropriately, but repeats it exactly as
7. 🔲 (8. 🔲 (tten. Offers to reread a question if participants does not understand the question Asks questionnaire items in order and exactly as worded Correctly codes participant's responses on the data collection forms
Ohserver:	Date Observed:

LIFE Certification/Recertification CHAMPS

Name	Staff ID
Attendance at LIFE training sess Local training by a staff member	Date
Date Name of Trainer	
2. Required Reading	
Chapter 1, Protocol Chapter 4 General Procedures Chapter 6, Screening Chapter 8, Follow-up Visits Chapter 24, Quality Control Chapter 25, Interviewing	
interview while being evaluated by t	3-5 older volunteers and then conducts a final he designated site investigator. The site certification/recertification checklist for certified.
4. Date of Certification	
Signature of Program Coordinator & Date	Signature of Principal Investigator & Date

LIFE Certification/Recertification Checklist CHAMPS

Na	Name Staff	
Oŀ	Observes the Following Procedural Steps:	
	 Read required material Is knowledgeable about MET capacity and MET demands of the activities CHAMPS Questionnaire 	in the
3.		
4.	4. Is not biased in asking questions	
5.	Is accurate in his/her determination of the frequency spent in various phys activities on a weekly basis	ical
6	6. Demonstrates skill in probing time spent in various activities	
7.	 7.	activity
∩ŀ	Ohserver: Date Ohserved:	

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LIFE Certification/Recertification Data Entry

Na	me Staff ID
1.	Attendance at LIFE training session or Date
	Local training by a staff member certified in the procedure.
	Date Name of Trainer
	Description of local training:
2.	☐Become familiar with LIFE Study website.
3.	Required Reading
	☐ Chapter 1, Protocol
	☐ Chapter 4, General Procedures
	Chapter 7, Randomization
	☐ Chapter 23, Data Management
	☐ Chapter 24, Quality Control
	Chapter 26, Study Organization and Policies
3.	☐ Enter information to and print participant labels using label application. Assign acrostic to participant. Complete entry of 3 sets data entry forms: Telephone Screener, 400 M Walk, and SPPB. Trainer uses and completes the Data Entry Certification Checklist during observation of the procedure. The program verifie data entered.
4.	Data verified by (Program Coordinator):
	Date of Certification
— Sig	gnature of Program Coordinator & Date Signature of Principal Investigator & Date

LIFE Certification/Recertification Checklist Data Entry

Name	Staff ID
Observes the	e Following Procedural Steps:
1. 🗌	Obtains telephone screener and enters data into label application.
2. 🗌	Correctly prints labels for participant entered.
3. 🗌	Correctly assigns acrostic for participant.
4. 🗌	Opens data entry application on website and enters Telephone Screening Interview, CHAMPS, and SPPB.
5. 🗌	Files completed forms as required by site.
6. 🗌	Verified data entered.
Comments:	
Observer:	Date Observed:

LIFE Certification/Recertification Physical Activity Intervention Specialist

Name	Staff ID
1.	Attendance at LIFE training session or
	Local training by a staff member certified in the procedure.
	Date Name of Trainer
	Description of local training:
2.	Become familiar with LIFE Study website.
	Required Reading
0.1	☐ Chapter 1, Protocol
	Chapter 4, General Procedures
	Chapter 8, Follow-up Visits
	☐ Chapter 9, Retention Activities
	☐ Chapter 10, Physical Activity and Successful Aging Education Intervention
	☐ Chapter 21, Safety Management
	Chapter 22, Adverse Events
	☐ Chapter 24, Quality Control
	☐ Appendix D, Exercise Interventionist's Training Guide
4.	☐ Date of Certification
 Signatı	ure of Program Coordinator & Date Signature of Principal Investigator & Date

LIFE Certification/Recertification Checklist Physical Activity Intervention Specialist

Nam	e	Staff ID
Duri	ng Procedure:	
1	. Ensures participant's safety at all times.	
Obs	erves the Following Procedural Steps:	
2	n. ☐Properly greets and orients new participant to exercise participant to ex	orogram
4 5 6 7 8 9	 Familiar with exercise training form and log Can complete baseline assessment of vital signs, RPE is pedometer use Records walking data appropriately and monitors particition. Successfully obtains post-walking vital signs and complet completely Instructs flexibility exercises appropriately Can properly instruct and supervise resistance training, RPE for each exercise Administers balance training appropriately Logs all attendance sheets and missed forms appropriately Familiar with Field Center emergency procedures and red Can adequately review "home-based participant log" an 	pant etes all forms records weights and tely eporting of all Events
E 1 2	Behavioral, Group, and Counseling Skills Demonstrates competence in initial contact and telepho Demonstrates appropriate basic counseling skills Data Entry Physical Activity Session form	
Comme	ents:	
Ohe	anver: Date Observed:	

LIFE Certification/Recertification Successful Aging Workshop Leader / Intervention Specialist

lame		Staff ID
	at LIFE training session Date	
☐Local trainin	g by a staff member certified in	the procedure.
Date	Name of Trainer	
Description o	of local training:	
	niliar with LIFE Study website.	
3. Required Read	G	
☐ Chapter 1,		
	General Procedures	
	Follow-up Visits	
<u>—</u>	Retention Activities	Education Intervention
	 Physical Exercise and Health I Safety Management 	Education intervention
_	, Adverse Events	
	, Quality Control	
<u> </u>	E, Workshop Interventionist's Tra	aining Guide
4. □Date of Certi	ification	
Signature of Program (Coordinator & Date Signatur	re of Principal Investigator & Da

LIFE Certification/Recertification Checklist Successful Aging Workshop Leader / Intervention Specialist

Name	Staff ID
During Procedure:	
Ensures participant's safety at all time	nes
Interpersonal Skills:	
 Enthusiasm towards participants Listens actively to participant 	
Observes the Following Procedural Steps:	
when calendar schedule should be f confirmed, when participants should 4. Demonstrates proficiency in develop schedule, create list of contacts & acts. 5. Demonstrates proficiency in execution in execution contents a minimum of presentation content, handouts and instruction was performed in previous site coordinators.) 7. Instructs upper extremity stretching of the confirmed in previous site coordinators.	f workshop scheduling procedures (i.e., finalized, when presentations should be be informed of class schedule) sing workshop series (i.e., can draft initial ctivity ideas, etc.) ng scheduled telephone contacts one workshop class with original activities (can be waived if classroom as work role and has been observed by
Data Entry 1. □Successful Aging Attendance Form	
Observer:	Date Observed:

Appendix B

Program Coordinator Training Guide

Program Coordinator Training Guide

Site:	Date:	
Site ID:		
Staff:		
Principal Investigator:		
Program Coordinator:		
Recruitment Coordinator:		
Medical Safety Officer:		
MD/Study Physician:		
Phlebotomist (s)		
Interventionists: Successful Aging:		
Physical Activity:		
Other Staff:		
<u>Name</u>	Primary Role	
		

	Thes	gested Meetings se meetings should already be in place or should be scheduled within the week.
	Atter	eral Staff (weekly) ndees: PC, screening staff, phlebotomist, medical safety officer, ssor, interventionists, PI (if available)
	Meet	ing time/day:
Us	ual	Attendees:
	_	
	•	This meeting should focus on the status of current clinic operations (i.e., is your clinic currently screening? randomizing?); pay special attention to screening/randomization windows.
	No	tes:
		ruitment (conduct as needed) ttendees: PC, RC, PI
Us	ual	Attendees:
	•	Your initial recruitment meeting should educate you on where your clinic is at in terms of recruitment (numbers). What forms of advertising are currently in effect?
	•	What are the procedures for orientations (staffing, materials)? How many participants are currently awaiting orientation or are in the screening process?
	•	How does your clinic follow up on ineligibles and re-screens? Is this handled by phone call and/or letter?
No	tes:_	
		

	my (conduct as needed)
At	tendees: PC, phlebotomist
•	Review the responsibilities of your phlebotomist Who handles specimen processing and shipping?
•	Does your phlebotomist maintain all blood processing supplies with the central laboratory?
Notes:_	
2. Clinic	<u> Operations</u>
<u>S</u>	<u>creening</u>
-	Identify which staff are involved in screening visits; how and when is the data that is collected (including the pre-screen) data entered?
-	Who handles scheduling and re-scheduling?
-	Become familiar with the space in your clinic where various measures are carried out.
-	Do you have a protocol for when a participant has high blood pressure or scores high on CES-D and low on the MMSE?
No	otes:
R	andomization and an analysis of the second s
	- Who randomizes participants at your center?

- When do you administer the pre-randomization review?

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	randomization?
	- Who delivers the randomization instructions
	 Remember: when randomizing, don't forget to print the screen that tells the randomization status!
	 Is a confirmation letter sent out to participants after randomization reminding participants of the date and time of their first intervention visit?
	Notes:
<u>Semi</u>	<u>Annuals</u>
	- Who schedules participants for their semi annual visits?
	- How are participants paid their honorarium?
	- Is there a good system for data entry?
Notes:	
<u>Data</u>	<u>Management</u>
	- Where are participants charts located?
	- Who is responsible for filing source documents?
	

	 Is there a quality control procedure for the data in the charts to insure completeness and accuracy?
	- Is their a data "manager" who can oversee data entry and timeliness?
	 Become familiar with the forms that are currently in use; know where master copies are kept and who manages the upkeep of current forms. Who insures that the appropriate version of forms is always in use? Are copies always available and does staff know where they are located?
	Review the flow of forms (i.e., how do all source documents arrive in a chart when some are handled by intervention, nurse, phlebotomist, screening staff, etc.?)
Notes:	
<u>Equipn</u>	nent/Supplies
	 Review your clinic's procedures for equipment calibration Who manages supplies? Exam table paper ECG paper Participant snacks Run-in diaries Forms, binders Locate the LIFE incentive items Is there an inventory list? Tracking system for what is given out and when?
	-

3. <u>Items for Independent Training</u>

with	 Complete any certification that may be required your IRB Become familiar with your own IRB procedures (i.e., when does your IRB meet to review changes to protocol?) Locate the institutional forms on which changes to protocol should be submitted.
	Notes:
	- Where are current copies of consents kept? Who insures that approvals from IRB are received?
•	Adverse Event Reporting - Insure that all staff are aware of what events should be classified as "adverse" (your IRB may require submission of certain events that LIFE does not, and vice versa). - Who submits adverse events to IRB?
	- Who enters adverse events in the LIFE web-based data entry system? Who data enters the event into the LIFE database?
	- Who insures "approval" from IRB?
	- Where are these forms filed?
• \$	Staff Certifications - Review current staff certifications; is the LIFE website up to date? - Is there a staff person in charge of overseeing certifications?
	- How does your clinic staff stay current and prevent expirations?
	 Where are the hard copy certification forms located? Are PC/Pl sign-offs up to date?

• Commit	tee Involvement Is the PC a member of any committees?
-	What are his/her responsibilities?
• LIFE - -	Website Become familiar with the LIFE website; make sure you have access to what you need Become familiar with all of the reports that are available to you; these reports can be useful in helping you to determine how your clinic is doing.
• Ancillary	y Studies Which ancillary studies are being conducted at your site?
-	Who coordinates the ancillary studies?
-	How are you informed of activities and issues?
-	Who handles IRB issues related to ancillary studies(updating consents, submitting AE's, etc.)

Suggested Databases

Your clinic may want to consider establishing some of the following databases and files to help with clinic flow:

 <u>Participant Tracking Log</u>: this is a database containing the name of anyone who fills out a pre-screen; you may want to include columns such as work and home phone number, DOB, address, and eligibility status; this database helps determine the number of participants your clinic needs to screen before starting a group.

- Randomiz ation Databases: you may want to include columns such as address, PID, acrostic, phone numbers, date of randomization, and randomization status; since this is a good place to keep patient addresses current, you may want to mask the column listing randomization status (in case blinded staff have access)
- Medical Mailings: This database would list the names, addresses, and phone numbers of participants' primary care doctors; this database can be used to document that patient results are sent at appropriate times.
- O<u>utcomes Tracking</u>: Keep a separate outcomes database for participants; columns should include the window in which the measure should be completed and a notes column for any special comments about the patient.
- Recruitment Activity Database
- Labels (names and addresses of participants)
- <u>Master LIFE Calendar</u>: You may want to post a monthly calendar that includes all meetings, group times for intervention and staff vacations.

Suggested Letters

The following form letters may be helpful so that customized letters do not need to be recreated for every occasion:

- Participant Instruction Letters: These letters notify participants about how to prepare for certain screening visits, randomization visit, and semi annual f/u visit.
- In<u>elig ible Letters</u>: These letters may follow a personal phone call to notify the participants that they are ineligible due to age, physical performance or health conditions; it is also helpful to have some sort of "generic" ineligible letter.
- Rescreen Letters: For temporary exclusion criteria.
- Invitations : For first intervention group
- Results Letters: For participants' screening and annual results; for doctors re: CES-D results
- Outcomes : Letters that accompany questionnaires that are mailed out.

Appendix C

Physical Activity Interventionist Training Guide

Physical Activity Interventionist Training Guide

Primary Role

h Education Intervention
raining Guide

2. Suggested Meetings

R eview ProtocolRevie w MOP

These meetings should already be in place or should be scheduled within the first week. Intervention meeting (weekly) Attendees: PC, Medical monitor, Intervention Staff, Recruiter, study MD, PI (if available)
Meeting time/day:
Usual Attendees:
This meeting should focus on the status of current intervention operations (i.e., progress of the intervention groups); pay special attention to issues surrounding delivery of the intervention, exercise training capacity, tracking attendance and compliance with the intervention. Notes:
How (and where) are visits scheduled? Which staff person schedules the visits?
Who insures that participants are attending all required visits?
How are adverse events/side effects handled?
Notes:
Field Center Operations
Exercise facility
dentify which staff are involved in exercise training; how and when is the training data that is collected (including the participant logs) data entered?
·

Are the behavioral sessions being scheduled properly?
Become familiar with the space in your clinic where the exercise and "successful aging" interventions are carried out.
Are there adequate steps taken to minimize contamination of the control group?
Notes:
Are steps taken to ensure blinding of the assessment group from the intervention randomization?
Who is responsible for scheduling exercise sessions and reviewing attendance and compliance with the intervention?
Notes:
Data Management
Where are participants exercise training forms located?
Who is responsible for filing source documents?
Who is responsible for reviewing the "Participant Logs"?

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Who is responsible for ensuring the return of "Participant Logs"

Who is responsible for the monthly behavioral telephone calls?
Is there a quality control procedure for the data in the charts to insure completeness and accuracy?
Is their a data "manager" who can review data entry and timeliness?
Become familiar with the training forms that are currently in use; know where master copies are kept and who manages the upkeep of current forms.
Who insures that the appropriate version of forms is always in use? Are copies always available and does staff know where they are located?
Notes:
Equipment/Supplies
Review your clinic's procedures for maintaining exercise equipment
Who manages supplies?Pedometers
Sphygmomanometers
Stethoscopes Stopwatches
Training logs
Training forms
Ankle Weights

3. <u>Items for Independent Training</u>

Are all intervention staff familiar with all emergency procedures		
Have all staff completed Basic Life Support Training		
Have all intervention staff completed the LIFE exercise interventionist certificand re-certification training. Notes:		
Are all staff familiar with the LIFE exercise training protocol and trained in delivering and monitoring the exercise intervention with the participants. Notes:		
Are all behavioral staff familiar with the LIFE behavioral intervention protocol and trained in delivering the behavioral content.		
Notes:		
Adverse Event Reporting Insure that all intervention staff are aware of what events should be classified as "adverse" (your IRB may require submission of certain events that LIFE does not and vice versa). Who submits adverse events to IRB?		
Who submits adverse events to the Administrative Coordinating Center? Who data enters the event into the LIFE database?		
Many AE's have an accompanying intervention modification form; this should be obtained by the interventionists and then data entered.		

Are intervention staff familiar with the intervention modification form and how it to be completed?	
Where are these forms filed?	
Staff Certifications Review current intervention staff certifications; is the LIFE website up to date?	
How does your clinic staff stay current and prevent expirations?	
Where are the hard copy certification forms located? Are PC/PI sign-offs up to date?	

Suggested Databases

The intervention staff interfaces and accesses the following databases: <u>Participant Tracking System</u>: this is a database containing the data obtained from intervention visits, study milestones, attendance and compliance tracking, some demographic information.

<u>Medical Mailings</u>: This database has the names, addresses, and phone numbers of participants' primary care doctors; this database can be used to document that patient results are sent at appropriate times.

Suggested Letters

The following form letters may be helpful so that customized letters do not need to be recreated for every occasion:

<u>Participant Instruction Letters</u>: These letters describes the process to report any abnormal physical signs and symptoms to the intervention and provides staff contact information.

Appendix D

Successful Aging Workshop Leader Training Guide

Successful Aging Workshop Leader Training Guide

Sit	e:
Cli	nic ID:
Sta	<u>aff:</u>
W	orkshop Leader:
W	orkshop Assistant:
LIF	E Program Coordinator:
Dii	rect Supervisor for Workshop Leader:
	Revie w MOP Review Protocol Forms Assess potential classroom/meeting space and A/V equipment (see suggested items in MOP: Workshop Format) Develop initial interest list of Workshop Topics & presenters Complete any certification that may be required with your institution and IRB (e.g., HIPAA, health and safety) Review Adverse Event Reporting: Insure that all staff are aware of what events should be classified as "adverse" (your IRB may require submission of certain events that LIFE does not, and vice versa). LIFE Website Become familiar with the LIFE website; make sure you have access to what you need (i.e., intervention, etc.)
Su	Screening/Randomization staff: The Workshop Leader should meet with the staffers who explain the content of the interventions to prospective participants to ensure they have a full understanding of the Workshops and can properly explain/describe it. Program Coordinator/Workshop Aide: The Workshop Leader should meet with these staffers on a regular basis to discuss items related to the general operation of the condition (workshop calendar, scheduling difficulties, participant issues, space or equipment needs, etc).

Review with your site the systems in place to record and access the following data □ Participant Contact Information: Name, phone numbers, DOB, address. □ Randomiz ation Information: Study ID of participants actually randomized, date of randomization, and randomization outcome (i.e., which condition). ☐ Mailin gs: This database should track the date and content of mailed materials sent to participants pertaining to the workshop condition (i.e., calendar schedules and project newsletters). □ Workshop Attendance/ Adherence Tracking: Keep up-to-date information on participant attendance at workshops & executed telephone contacts. ☐ Master LIFE Calendar: A monthly calendar that includes all meetings. recruitment and screening activities, intervention contacts, assessments and staff vacations helps keep the Workshop operations coordinated with other study activities. CENTRALIZED TRAINING ACTIVITIES 1. Conduct of the Successful Aging Workshops (see Workshop MOP). □ Review class format, class time breakdown, resources required. □ Review guidelines for timing and scheduling of workshop topics. ☐ Clarify/confirm criteria for class presenters/speakers. ☐ Review timeline for scheduling guest speakers. □ Review forms and sample letters for guest speaker contacts. ☐ Confirm workshop topics (i.e., allowable vs. unallowable topics, potential for contamination) ☐ Review & practice Upper Extremity Stretching Protocol Certification on performance 2. Additional Intervention contacts with Participants □ Review & practice protocol for Post-Randomization session Rehearse with "Description and Expectations" Form ☐ Telephone Contacts (TONE) Review script and protocol guidelines □ Post-Intervention DeBriefing Session Review/rehearse protocol Determine post-intervention options for participants 3. Participant Mailings □ Review suggested mailings (newsletters, calendar schedules) ☐ Review/clarify appropriateness of content, format, frequency of mailing 4. Participant Safety □ Review MOP Chapter 21 for guidelines

Data You Need to access to operate the Workshops at Field Centers: