Visit 51 Guidelines

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Guidelines for Completing Visit 51 Section 4  
(MACS Questionnaire)

General Instructions:

The purpose of this interview is to collect self-report information from the participants. In no way is this interview intended to diagnose conditions. Please record all medical diagnoses reported by the participant. The diagnoses that qualify as possible reportable outcomes can then be confirmed through a medical record review.

Once a participant’s interview is started, all visit forms should be filled out from the same visit. For example, if a participant starts his interview in V50 and comes back within the next 2 weeks during the start of V51, he should still be administered all V50 forms. It is essential that all data be collected for any given study visit within two weeks of the study visit, which is defined as the first date of data collection.

1. Use number 2 pencil and completely fill in the bubbles. If you need to erase, make sure mark is erased completely.

2. Ask the questions as they are written on the form. Read the response options where applicable, but NEVER read the DON’T KNOW or REFUSE options. Although these responses are legitimate and acceptable, the interviewer should not encourage these responses. If the participant doesn’t know, probe to assist him with his recall or provide a more detailed explanation of the question to improve his understanding. If a participant refuses, the interviewer may remind him that all information that he provides is held strictly confidential. Otherwise, move on to the next question.

Additional information is specified in the guidelines next to the corresponding question number. If further clarification is needed, please report this to CAMACS, and they will help to clarify any misinterpretations or confusing language.

3. It is important to make every attempt possible to check the participant’s responses for completeness and logical inconsistency within two weeks following the study visit. If the participant cannot be contacted within this time period to fill in the missing information or clarify his responses, then no further changes should be made to the questionnaire. Exceptions to this rule would pertain to obtaining medical releases and contact information for doctors and hospitals.

4. For dates that appear on the form, if the participant cannot remember the exact month (and day), probe for the season. (Use "15" for the day if specific day cannot be recorded).

   Summer = July = 07  
   Fall = October = 10  
   Winter = January = 01  
   Spring = April = 04  
   Don’t know month = June (midpoint) = 06
If the participant cannot remember a year for a particular event, such as a diagnosis of a medical problem, then probe for other significant events that may have occurred around the event, such as birthdays, anniversaries, trips, graduations…

5. In response to questions inquiring about occurrences "since last visit," note that the earliest year indicated on the form is “99”, which stands for 1999 or earlier. If the occurrence was prior to 1999 fill in the “99" bubble.

6. For open-ended questions, keep lists of responses. Interviewers should write responses, exactly in the words of the respondent.

7. Be specific in specify boxes, such as names and addresses.

8. Obtain the date of the participant's previous visit. This month should be used in the questions, with the following exception:
   
   For participants who return for a visit after a long lapse in attending visits, use: “[Since your last visit]" rather than ‘[Since your last visit in (MONTH)] or [Since your visit in (MONTH, YEAR)].”

9. Follow the skip patterns as they appear on the form.

10. Record the time the interview began and ended.

**Question 1:** All non-AIDS cancers, AIDS defining cancers, and Castleman’s Disease

We are interested in all cancers as specified in the newly worded questions. Specify the site and type of cancer or if the participant had Castleman’s Disease. Refer to the Cancer Site Code List (Appendix 1) to code the site and type of cancer. A new code (8090) has been added for Basal Cell Carcinoma to distinguish it from reportable skin cancers (melanoma, Kaposi sarcoma, and squamous cell). If the participant was certain that his skin cancer was basal cell carcinoma, do not request medical records or submit a outcome reporting form to CAMACS. Castleman’s disease is a non-cancerous benign growth (tumor) that may develop in the lymph node tissue, most often in stomach, chest or neck. Although it is non-cancerous, a specific code was assigned and listed in the Cancer Site Code List for quick reference. Report medical diagnosis to CAMACS on an outcome reporting form.

An AIDS-defining cancer is defined by the following codes from Appendix 1:

- Kaposi’s Sarcoma: 9140
- Non-Hodgkin’s lymphoma: 9590
- Primary brain lymphoma: 9710

**Question 2:** Medical Conditions Indicative of AIDS

These conditions refer to AIDS-related illnesses other than Kaposi’s Sarcoma and lymphoma that have been diagnosed since the participant's last MACS visit. (See Appendix 7 for AIDS
If the participant does not remember if he reported an earlier diagnosis, record it.

Specify the type of AIDS illness in the specify box. Refer to Appendix 7 for the AIDS diagnosis codes and bubble in code. Record the month and year of the diagnosis. If the participant cannot remember the year, prompt for an estimate (see General Instructions). If he still does not remember the year, leave it blank. Obtain a signed medical release and report medical diagnosis to CAMACS on an OUTCOME REPORTING FORM.

**Question 3:**

Record all pneumonia diagnoses and the month and year of the diagnosis in this question not previously reported in Question 2. All reported pneumonia diagnoses require a medical records review, which will tell us if it is an AIDS-defining illness. There is a clinician’s notes box available to record methods of diagnosis, or any other pertinent information regarding the pneumonia diagnoses. The use of this box is optional. No data will be entered into the database from this box.

**Question 4: Testing for TB**

The next few questions are about Tuberculosis or TB for short. To see if a person has tuberculosis a doctor or nurse will give a skin test-sometimes called a PPD test. If the skin test was positive, it shows the person has been exposed or infected with tuberculosis and more tests are needed to see if he/she has become sick from TB (see Q5).

If the participant does not know if the PPD was positive, do not leave it blank. Ask if further testing was performed (see Q5). If no, then mark "No". Default is "No".

**Question 5: Active TB**

5.A - Active TB means a person has become sick from exposure to TB. The infection is spreading through the body and, if the lungs are infected, the disease can be spread to others. Active TB is also referred to as “tuberculosis disease” or “infectious tuberculosis”. Usually, if a person has infectious tuberculosis, people who lived or worked with the person will be tested for tuberculosis too.

Active TB is diagnosed by finding the TB-causing bacteria in a sputum sample (fluid from the lungs) or in samples from other parts of the body. Doctors sometimes use a chest X-ray to help diagnose active TB.

Ask if the participant has had an active TB infection. Active TB infection is characterized by weakness, weight loss, no appetite, chills and night sweats. Active TB in the lungs includes symptoms such as bad cough, pain in the chest and coughing up blood.

5.B,C - Ask whether the tuberculosis, or TB, was diagnosed in the lungs or outside the lungs. Mark the appropriate circle. If a participant does not know or was not told the location of TB, leave it blank. If active TB is reported, report the diagnosis to the clinic coordinator who will report the TB to CAMACS on an OUTCOME REPORTING FORM.
Question 6:

If a participant reports that he was hospitalized for a reportable outcome, request medical records for review as part of the Outcome Reporting protocol. Review the records for cardiovascular reportable outcome diagnoses. If the medical records confirm a diagnosis of a reportable outcome, fill out an Outcome Reporting form and send to CAMACS.

This question pertains to staying “overnight” in the hospital for any reason or being admitted to the hospital for a procedure performed on an outpatient basis. Outpatient visits to the emergency room or hospital-based clinics for acute care should be recorded in Q20 only. The only exception would be if the participant went to the ER and was subsequently admitted to the hospital for an overnight stay or for an outpatient procedure as described below:

The reason for collecting outpatient procedures is to ascertain whether the participant had any outpatient procedures performed for a cardiovascular problem or other potential medical outcomes that require a medical release (note- there are very few outpatient procedures that would require a medical release). Obtain a medical release for any outpatient procedures related to the same conditions that you would generally request a medical release. (See Appendix 6: List of Reportable Outcomes.) For instance, if someone had a coronary revascularization procedures performed on an outpatient basis, such as angioplasty (“Balloon angioplasty” or “Coronary Stent”), then you should obtain a signed medical release for medical records. If someone had an outpatient procedure for a broken bone, then you will not obtain a signed medical release form.

It is IMPORTANT to note that potential medical outcomes captured in the hospitalization section could also be captured in at least one of the many other questions about health problems. For instance, if a person was admitted to the hospital to have a liver biopsy performed on an outpatient basis, this biopsy would also be reported in Q9. If the result of the biopsy was malignant, the malignancy would be reported in Q2. A signed release for medical records could be requested based on the responses to any one of these questions.

6.A - Record the number of times the participant was admitted to the hospital on an outpatient and inpatient basis. Make sure to fill out medical release for records and note complete name and address of hospital.

6.B - Start with the most recent hospitalization; i.e. the one closest to the current date, and then the one before that, etc. Fill out a continuation sheet for when there are more than two reported hospitalizations.

Example: Participant is interviewed on 05/01/08. He was seen at the emergency room on 03/18/08 and was hospitalized on 1/10/08 and 4/15/08. The emergency room visit would be recorded in Q20 only (not in hospitalizations).

Question 6.B(1)a would be:  
04 = A for April  
10 = 10th day  
5 = 5th day  
09 = 2009

Question 6.B(2)a would be:  
01 = J for January  
10 = 10th day  
09 = 2009
Question 6.B.b

Ask the participant how many nights he spent in the hospital. If the participant had an outpatient procedure, fill in zero.

Question 6.C Collect the name and address of the participant’s physician. Record the conditions and problems resulting in the hospitalizations. If AIDS-related or cancer, go back to Q1 and Q2 to make sure that these conditions or problems were reported in one of these questions. If not, re-ask questions related to the conditions or problems for which the participant was hospitalized and code where appropriate. If participant had reported being diagnosed with an AIDS condition (Q2) or cancer (Q1), but did not report a hospitalization, ask participant if he had to be hospitalized for the condition and record the hospitalization here.

We are now collecting the ICD-9 codes for each hospital stay. Please use the boxes located underneath Q6 to record the correct code and reason for hospitalization. Code the primary diagnosis and primary procedure (if any). Please refer to the ICD-9-CM manual for lists of codes (Do NOT use the ICD-10). Any edition of the ICD-9-CM may be used. Please do not use any other 3rd party website to code the diagnoses.

The following link allows you to order the ICD-9 CD-ROMS:  
http://www.cdc.gov/nchs/products/elec_prods/subject/icd96ed.htm

This link allows you to download a Rich Text File (RTF) of each edition of the ICD-9-CM:  

If applicable, fill in the “V”, “E” and “P” bubbles above the ICD-9 code boxes. The “V” and “E” bubbles are used for reasons other than a diagnosis or procedure. There is a section in the ICD-9 manual immediately following the list of disease codes, which gives an explanation for each type and the corresponding codes.

“V” codes are used for times when a patient seeks medical care, but not necessarily for a disease or injury. This will be rare for most inpatient hospital stays, but an example would be when someone is an organ donor or when someone receives a vaccine.

“E” codes are used for external causes of injury, such as a car accident, gun shot wound or poisoning.

“P” codes are used for procedures, and the codes for such procedures can be found in the last section of the ICD-9 manual.

It is important to remember to fill in one of these bubbles where applicable, as the V/E/P codes overlap with the standard ICD-9 codes for disease.

Please enter the ICD-9 codes up to the tenth decimal point. For example:

-If someone is hospitalized for acute MI, the code would be 410.9, or 4109.

-If someone was hospitalized for meningitis, the code would be 036.0, or 0360.
- In the rare instance that a participant is hospitalized with no diagnosis and no procedure, please enter “0000” in the ICD-9 code box.

If a hospital stay results in a diagnosis AND a procedure, please code both using the two boxes allotted for each hospitalization. For example, if a participant was hospitalized for a heart attack (MI) and also had a catheterization of his artery, please record both in the two boxes provided.

Diagnosis: Heart Attack (MI)  Code: (410.9) 4109
Procedure: Catheterization  Code: (038.9) 0389 + “P” bubble

If a participant reported only an operation, obtain a medical diagnosis. For example, if his gall bladder was removed, ask him why he had his gall bladder removed. If a participant reported a catheterization and did not report a medical problem or diagnosis, ask him for the results.

**Question 7:**

This question pertains to any mental health care obtained in an inpatient or outpatient care setting.

A mental health professional may be a psychiatrist, psychologist, social worker or other health care provider in a mental health setting. If “Yes”, record month and year of most recent diagnosis. Please note that a medical records release does not need to be obtained if the participant answers “Yes” to Q7.

**Questions 8**

This set of questions pertain to the medical history of the participant’s immediate family since his last visit.

8.A - If the participant was adopted and/or indicates that he has no knowledge of family history, the interviewer should mark “Not Applicable” and skip to Q9A.1.

8.B(a-h) - This set of questions asks about certain conditions that the participant’s family has been diagnosed with since his last visit. Mark “Yes”, “No”, or “Don’t Know” for each item.

8.C(a-f) - This question asks about certain cancers that the participant’s family has been diagnosed with since his last visit. Note – cervical and anal cancers were added to the list. Cervical applies to women only.

If the person says “No” or “Don’t Know” to the introduction question then SKIP to 9.A.1.

If the participant says “Yes” to the introduction question then ask about each cancer. Bubble in “Yes”, “No” or “Don’t Know” next to each type of cancer according to the participant’s
response. Do not leave any bubbles blank.

The “Specify” block is for any type of cancer other than skin, colon, prostate, cervical, and anal. If the cancer reported by the participant is not listed then mark “Yes” for “Other Cancer” and specify the type in the “Specify” box. Bubble in “No” for the remaining types of cancers.

If the participant does not know what type of cancer his family member was diagnosed with bubble in “Don’t Know” for each cancer type including “Other”. Write in “Don’t know” in the “Specify” box. Do not leave any bubbles blank.

Starting here, questions revert back to the participant’s medical history. You may want to add that you are now talking about the participant.

**Q9A (1-3)** - The purpose of these 3 questions is to ascertain whether or not a participant has undergone an anal pap smear since their last visit.

Please provide the definition of an anal pap smear when asking Q9.A.1:
“A doctor or medical practitioner took a swab of the anal canal to test for cancer cells.”

Collect the month and year of the pap smear. Obtain a signed release for medical records review if the pap smear is abnormal, unable to evaluate, or if the participant does not know the results and fill out an OUTCOME REPORTING FORM. You may use the space in Q9C to write down the contact information of the medical provider(s) for requesting medical records.

**Q9B** - The purpose of this question is to ascertain whether the participant has had anal screening involving a scope or tube-shaped device, which allows the doctor to check by observation for abnormalities in the rectum/anus only.

This method of anal screening does not include the rectal exam performed as part of the MACS visit nor a PAP smear that involves a scraping of tissue with a Q-tip. It also does not include a colonoscopy or a flexible sigmoidoscopy. These two procedures are used to look at the gastrointestinal tracts. Whereas the anal scope specifically looks at the rectum/anus only.

A “YES” response indicates that the participant was only examined for anal abnormalities. This does not require a signed medical release for medical records review. If the participant said he had a biopsy with this procedure then record the biopsy in Q9.C1.

Note - this question replaces the series of questions that were asked about anal screening in the participant’s community in Visits 43-45.

**Q9C.(1-3)** - If participant was reportedly diagnosed with cancer ("Yes" to Q1) or had an abnormal Pap smear results and responds that he did not have a biopsy, double check that he did not have a biopsy by referring back to the cancer and/or anal pap smear questions and ask how he was diagnosed with the cancer.

Record all sites that were biopsied and the diagnoses of each respective biopsy. Please note that we are capturing anal biopsies in this question. Make sure to include the date of each biopsy. Code these responses after the interview. (See Appendices 2 (Tissue Biopsy Sites)
and 3 (Diagnosis of Tissue). **A new code has been added to the Tissue Biopsy Site Appendix: Urinary Tract = 21, Thyroid=22.** Please note that a diagnosis of ‘dysplasia’ has been added to code 5 (benign) in the Diagnosis of Tissue Appendix. Remember to get a medical release and to fill out an **OUTCOME REPORTING FORM.**

**NOTE:** If multiple sites of an organ are biopsied by a doctor on the same date of service, it will count as one biopsy. For instance, if a participant was biopsied in multiple places of the skin by Dr. Jones at Memorial Hospital on June 30, 2007, count it as one biopsy. However, if the biopsies included more than one organ, such as the skin and lungs, then count it as two biopsies even though they were all performed by Dr. Jones at Memorial Hospital on June 30, 2007. Biopsies of more than one organ may be looking for different diseases and it would be potentially useful to have this information for the collection of medical outcomes.

**Question 10:**

This question asks “were you diagnosed with any of the following since your last visit. This includes new episodes or reoccurrences of chronic conditions.” Some of these conditions are life time conditions that are usually diagnosed only one time, such as seizures, osteoporosis, rheumatoid arthritis, and osteoarthritis.

For the purpose of collecting medical records, there are three boxes on page 7 and one box on page 9 to record the name and address of the physician who diagnosed certain condition(s) listed in Q10.M to Q10.Z, Q10.AA, Q10.BB, Q10.CC.c, Q10.CC.i, Q10.CC.l. Please remember that if the participant answers “Yes” to questions M-Z, AA, BB, CC.c, CC.i, CC.I you should obtain a medical record release. Follow up on these diagnoses by medical record abstraction and fill out an **OUTCOME REPORTING FORM.**

**10.L** - If participant did not have arthritis:

- Mark “No”;
- Leave rheumatoid, osteoarthritis or degenerative and other type blank.

If the participant reports arthritis:

- Mark "Yes" and ask participant if he has rheumatoid, osteoarthritis or degenerative, and other type of arthritis;
  - Mark "Yes" for the type(s) that he had and "No" for the ones he did not have.
- If the participant specifies another type of arthritis ("Other"), record in the participant's own words in the specify box.
- If the participant doesn’t know what type of arthritis he has then mark “Yes” next to “Don’t Know” and mark the other types as “No”.

**10.AA** - If the participant reported that he was diagnosed with liver disease since his last visit, fill in the “Yes” bubble next to liver disease. A participant reporting hepatitis does not necessarily have liver disease. Liver disease is a late stage outcome for hepatitis.
If the participant responded “YES” to liver disease:

Mark “Yes” if the participant reported an elevated liver function test/enzyme and “no” if he did NOT report it

Mark “Yes” if the participant reported an “Other” type of liver disease and “no” if he did not report it.

• If “Yes”, record the “Other” type in the participant’s own words in the specify box.
• If “Yes” but the “Other” type is not a recognizable liver disease, mark “no” next to “Other” and mark “Yes” next to “Don’t Know”.

Mark “Don’t Know”, if the participant reported liver disease and he did not know the type of liver disease.

Medical releases.

Obtain a medical release form if the participant reports “Other” or “Don’t Know”. Report the liver disease to CAMACS on an OUTCOME REPORTING FORM.

For example, if the participant reports liver cancer, mark “Yes” for liver disease and fill in the “Yes” next to “Other”. Make sure that this cancer is reported in Q1. Report liver disease to CAMACS on an OUTCOME REPORTING FORM.

Do not obtain a medical release if the participant reports only elevated liver function test/enzyme.

10.BB - If participant had a neurological examination:

• Mark “Yes” and ask if there was a diagnosis and record it in the specify box.

Please note that starting in V51, we will be collecting ICD-9 codes for these diagnoses. Please enter the codes up to the tenth decimal place. Please refer to the ICD-9-CM manual for lists of codes (Do NOT use the ICD-10). Any edition of the ICD-9-CM may be used. Please do not use any other 3rd party website to code the diagnoses.

The following link allows you to order the ICD-9 CD-ROMS: http://www.cdc.gov/nchs/products/elec_prods/subject/icd96ed.htm

This link allows you to download a Rich Text File (RTF) of each edition of the ICD-9-CM: http://www.cdc.gov/nchs/icd9.htm

• Obtain a medical release form if the participant reports a diagnosis. Report the diagnosis to CAMACS on an OUTCOME REPORTING FORM.
10.CC (a-n) – This set of questions tries to identify medical problems OTHER THAN THOSE that were previously reported. It asks about diagnoses according to specific body areas.

Note: Some participants do not seek medical care from visit to visit either because they are very healthy and need no care or they have no insurance and refrain from going to the doctor. However the onset of acute or serious illness is not predicated on having insurance or a regular source of medical care. Therefore, the question was expanded to include urgent care facilities and hospital emergency rooms.

If participant answers “No” to any of the body areas a-n:

• Leave rest of question blank and skip to next body area.

If participant answers “Yes” to any of the questions a-n:

• Ask if there was a diagnosis.
• Check if the reported diagnosis was asked about in a previous question. If so and the response was “No” then re-ask previous question.
• If the participant reported the diagnosis in a previous question fill in “No” and go to the next question.
• If the participant reports a new diagnosis, fill in “Yes” and record the response in the specify box.
• If the participant reports a new medical problem, but has no specific diagnosis, fill in “Yes” and leave the specify box blank.
• If more than one diagnosis per area, record additional diagnoses in question “N” under “Other Area”.
• Use the box located under Q10.CC.n on page 9 to record the physician’s name and address for any reportable outcomes. You may also go to the comments section on page 24 to record physician’s contact information.

NOTE: Starting at V51, please enter the ICD-9 codes up to the tenth decimal point in the boxes provided for each diagnosis.

• Code diagnoses using ICD-9 codes after the interview. Please refer to the ICD-9-CM manual for lists of codes (Do NOT use the ICD-10). Any edition of the ICD-9-CM may be used. Please do not use any other 3rd party website to code the diagnoses.

The following link allows you to order the ICD-9 CD-ROMS:
http://www.cdc.gov/nchs/products/elec_prods/subject/icd96ed.htm

This link allows you to download a Rich Text File (RTF) of each edition of the ICD-9-CM:
**Question 11:** Herpes

Ask participant if he has each specific herpes items 1-4.

- Mark “Yes” or “No” for each herpes item.
- If “Yes” is reported for at least one herpes item, ask participant items B and C.

**NOTE:** If the first attack occurred since the last visit (Q11.B = “YES”) still ask Q11.C (did the sores worsen...) even though worsening is considered unlikely.

**Question 12:** STDS

Ask participant items A.1, B, F, G.1, H.1, I. Note that the questions about new infections versus a continuation or relapse of a previous infection for A1, G1, and H1. A new infection means that the participant was diagnosed since his last visit with the disease or medical condition for the first time in his lifetime. Relapse means that the participant had experienced symptoms or problems of a pre-existing or chronic condition since his last visit.

- Mark “Yes” or “No” for each item.
- If participant reports having gonorrhea in B, complete items C-E.
- If participant reports a type of gonorrhea other than what is specified in C, D, and E, such as joint gonorrhea, then leave items C, D, and E blank and move directly to F.

**Question 13:**

13.A - Ask participant about each symptom or problem. Note that the introduction asks for illnesses or side effects due to medications. **Note: Date of onset of symptoms was removed.**

- Mark “Yes” or “No” for each item
- For each “Yes” in A, complete B, C, D and E.
- Note Box, D, “Did you experience this symptom due to taking any medication?”
- If the condition is new (E= “Yes”, i.e. first occurrence was since the participant’s last visit), complete F.

13.B - Ask participant each question.

- Mark “Yes” or “No” for each item.
- Ask him to indicate the severity on a scale of 0 (none) to 10 (severe) for each side. Example: if the participant experienced a level of pain around 7 in his left foot/leg, but no pain in his right foot/leg, then code “0” for the right and “7” for the left.
• Ask if these symptoms were due to taking any medications.

13.C (1-5) - This set of questions is used to assess the occurrence of anal bleeding.

NOTE: If the participant reports pain with the anal bleeding, refer this case to the clinic coordinator.

NOTE: It is up to the Medical Directors of each site to develop an Investigative protocol for these cases.

If the participant asks why the questions are needed, please respond by giving him the Rationale for Anal Bleeding Question handout (Appendix 8): “The information that we gather about symptoms will help researchers learn how symptoms are related to the risk of developing certain illnesses or diseases. Understanding this relationship will help doctors and nurses do a better job in directing and diagnosing illnesses.”

**Question 14:** Influenza questions (Introduced at V51.)

See Flu Handout (Appendix 9) which may be provided to participants seeking additional information. The handout is also posted to the V51 folder on the MACS forum (http://www.statepi.jhsph.edu/macs/MACS_forum/index.php?).

Q14 responses must be between October 2008 and March 2009. Please be sure to emphasize this time period when asking the influenza questions.

Q14.2.a: If the participant reported having the flu more than once, read: "Please tell me the month and year of the time when you had your most serious episode of the flu."


**Question 15:** AIDS Medications

HIV Medications Section:

• If the participant is HIV negative, you will only ask **Q15** and **Q15A** and then skip to **Q16**.

• **Q15A(1) and (2)** apply to all participants who are HIV positive regardless of their medication status.

• **Q15B** and **Q15C** apply to participants who are on HIV related medications.

**Q15 (formerly Q14)** Have you taken any medications any HIV-related medications or treatments?

This question refers only to medications used to fight AIDS, HIV, opportunistic infections, and/or to stimulate the immune system. **Medications that appear on the drug list 2 but were used for reasons other than opportunistic infections should be recorded in Q16.**
For example, if a participant reports acyclovir in this section, record it in Q16.

Ask participant if he is taking any drugs for HIV, AIDS or opportunistic infections.

- If “No”, go to Q15.A.
- If “Yes”, go to Q15.A(1).

**15.A** - This question obtains information on why the participant is NOT taking HIV-related medication. Note: this question is incongruous for seronegative participants. Therefore, when you read the question, “Why did you decide not to take HIV related medications?”, follow up immediately with the statement, “Is that because you are not HIV infected?”.

- If “Yes” to not taking medication because he is not infected with HIV, skip to Q16. Do not read the rest of the possible responses.
- Otherwise, proceed to ask about each reason. **To avoid putting HIV positive participants who are not taking HIV medications in a defensive position, you may want to preface this question with “Since you are not taking any HIV medications, I am going to read through a list of reasons for you to select.”**
  - Mark every reason the participant responds “Yes” to by filling in the corresponding bubble.
  - If the reason is not listed, fill in ‘Other’ reason bubble and write reason in the specify box.
  - Go to **Q15A(1)** after this question.

**Question 15.A(1-2): Blood Test for Drug Resistance**

We are asking about blood tests for HIV drug resistance strains since the participant’s last visit. This type of testing can help explain antiretroviral treatment failures and help guide treatment decisions. All seropositive participants regardless of HIV medication status are asked this question.

**Q15.A.1 For Seropositives not taking HIV meds since last visit (Q14= “No”):** If the participant answers “No” to Q15.A(1), indicating he has not had a drug resistance test, then skip to Q16. If the participant answers “Yes” to Q15.A(1), continue with Q15.A(2) and then skip to Q16.

**Q15.A.1 For Seropositives taking HIV meds since last visit (Q14= “Yes”) :** If the participant answers “No” to Q15.A(1), indicating he has not had a drug resistance test, then skip to Q15.B.(1). If the participant answers “Yes” to Q15.A(1), continue with Q15.A(2) and then move on to Q15.B(1).

**Q15.A(2) For Seropositives taking HIV meds (Q14= “Yes”) and had drug resistance testing (Q15.A(1)= “Yes”):** Ask if participant’s treatment changed as a result of the testing. If his treatment has changed, but his doctor did not indicate the reason(s) for a change in therapy, then mark “Don’t Know”.

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**Questions 15.B(1-3):**

This section pertains to the use of antiretroviral medications that are on DRUG LIST 1. *Always administer a separate DRUG FORM 1 questionnaire for every reported medication on DRUG LIST 1.*

Some centers may opt to send a medication form to the participants prior to their visit (**See Appendix 5**). In this case, ask the participant to show you his medication form and confirm which ones are on DRUG LIST 1. It is still advisable to show the participant the medication photo cards to make sure that you have accurately captured all the antiretroviral medications that the participant is taking.

15.B(1) – Show the participant the current DRUG LIST 1 and the medication photo cards. If the participant brought his medication form, you should review it and confirm that the list is complete. If there is some doubt about its completeness, then show him DRUG LIST 1 and the photo cards. If the participant has problems with his vision, read the list of medications.

- Mark “Yes” or “No” if he is taking medications on this list.
- If “Yes”, skip to Q15.B(3).
- If “No”, continue to Q15.B(2) to ask why he is not taking them.

15.B(2) - This question asks for reasons why the participant is not taking any medications on DRUG LIST 1.

- Mark every reason the participant responded “Yes” to by filling in the corresponding bubble.
- If the reason is not listed, fill in ‘Other’ reason bubble and write reason in the specify box.
- Skip to Q15.C after administering this question.

15.B(3) - This question asks the participant which antiretroviral drugs on DRUG LIST 1 he is taking. The listing on the questionnaire is not complete. However, it contains currently used medications to the best of our knowledge. Refer to the complete DRUG LIST 1 for proper coding for drugs that are not on the questionnaire. This list is updated every six months.

- Mark each drug the participant indicated he was taking by filling in the corresponding bubble.
- If participant says he is taking other antiretroviral drug(s) on DRUG LIST 1*, specify the name(s) and fill in the drug code(s) in the “Other” box.
- If the participant reports he is in a blinded trial (DGF1 Q1.B=“Yes”) specify the name of the drugs that are part of the blinded trial and record the code for the blinded trial in the “Other” box. See the list of blinded trials on drug list 1. If the blinded trial is not listed, bring it to the attention of the Clinic Coordinator. If it is a new blinded trial, contact CAMACS for a new code.
- For **EACH** drug reported, complete a **DRUG FORM 1**. This includes drugs taken
for non-research use and unblinded research trials. If the research trial is blinded, fill out one Drug Form 1 per trial. See DRUG FORM 1 section for more details.

EXAMPLES for Participant "X":

• **X is taking Combivir (AZT, 3TC), Indinavir, and Norvir** as his regular treatment or part of an unblinded research trial. Bubble Combivir, Indinavir, and Norvir and complete a separate DRUG FORM 1 for each drug.

• **X is in a Combivir/Trizivir blinded trial and taking Sustiva.** He knows that he is taking Sustiva but he does not know whether he is taking Combivir or Trizivir (i.e., he is blinded to the treatment). Complete two separate DRUG FORM 1's for Sustiva (220) and the Combivir/Trizivir Blinded Trial (250).

* FOR ANY OTHER ANTIRETROVIRAL MEDICATION REPORTED BY THE PARTICIPANT, BUT THAT IS NOT ON DRUG LIST 1:

• Check DRUG LIST 2 to see if it is on this list.
  ▶ If it is on Drug List 2, record medication in Q15.C only.
  ▶ If it is not on either Drug List 1 or Drug List 2, mark "Other Antiretroviral" in Q15.B(3), record drug name in box and complete a DRUG FORM 1. Bring this to the attention of clinic coordinator/director to verify if this is a true antiretroviral medication.
    □ If it is a true antiretroviral medication and the drug is not on the coding list, the center's director will contact the coordinator at CAMACS to have a code assigned and add it to the appropriate Drug List.
    □ If it turns out that it is not an antiretroviral medication, eliminate the DRUG FORM 1 filled out for this medication, determine what type of drug it is, and code it in its appropriate place (Q15.C or Q15.D or Q16).

15.B(4) - This question assesses whether the participant took a break for at least 2 consecutive days from his antiretroviral medications, and if so, for how long. It also captures how many times he missed and if any of the breaks were prescribed by a physician. If the participant had multiple lapses in therapy use, ask him to report the length of the most recent one.

15.C - This question asks about non-antiretroviral drugs on DRUG LIST 2, i.e., medications for the treatment or prevention of illnesses caused by HIV or related to HIV or AIDS.

• Give the participant DRUG LIST 2. If the participant has problems with his vision, read the list of medications.

• Record each drug the participant responds to with a "Yes" by filling in the
corresponding bubble next to the drug name.

• **NOTE:** It is no longer necessary to fill out Drug Form 2 starting at V51.

For an HIV-related illness medication reported by the participant, but that is not on DRUG LIST 2:

• Check the MACS MEDICATIONS LIST (4000, 500, 700, 800, 900-series) to see if it is on this list.
  - If it is on the MACS medications list, record the medication in Q15.D only.
  - If it is not on the medications list, mark "Other drug from Drug List 2" and record drug in box. **NOTE:** It is no longer necessary to fill out Drug Form 2 starting at V51. Bring this to the attention of clinic coordinator or director to verify if this is a true non-antiretroviral medication.
    - If it is a true HIV related illness and the drug is not on DRUG LIST 2, the center's director will contact the coordinator at CAMACS to obtain a code for the drug and to have it added to the DRUG LIST 2.
    - If it turns out that it is a medication that does not belong on Drug List 2, determine what type of drug it is, and code it in its appropriate place (Q15.B(3) for antiretrovirals; or Q15.D for drugs used to fight HIV-related illness; or Q16 for drugs used to fight non-HIV-related illnesses).

**15.D** - This question should be used to record medications that the participant is taking to fight HIV, AIDS and opportunistic infections that are not listed in Drug Lists 1 and 2. This question applies to medications NOT on Drug List 2.

• Be sure to check Drug Lists 1 and 2 for a code before recording it in this section.
• Write the actual name of the drug in the specify box.
• Refer to the MACS Medication List 500-900 Series to code drug. Note that these drugs are coded by their function. The hypertension medications, 4000 series, should not be recorded in this section.
• Since many of these drugs are multi-functional, ask the participant specifically why he is taking the medication and include this in the specify box.
• Maintain log of written responses.
• **Note that if the participant indicates he is taking Acyclovir, ask him if he is taking it for herpes. If yes, then record in Q16.10 when you get to that question. Probe if the participant says he is not taking it for Herpes by telling him that the Acyclovir is an antiviral drug that specifically attacks the Herpes virus. If the participant insists that he is not taking it for Herpes then code it in Q16.17 (other medications).**
**Question 16:** Other Medications (since last visit).

This question should be used to record medications taken for reasons other than for HIV and AIDS. **REFER TO THE DRUG LISTS IF THE PARTICIPANT NEEDS ASSISTANCE WITH IDENTIFYING HIS MEDICATIONS.** Drug names are also categorized separately for cholesterol / lipid problems, for hypertension, for diabetes, and for hepatitis.

His includes medications in DRUG LIST 2 that are used for other medical problems. Record medications from DRUG LIST 2 in this section as long as they are not HIV related. One example is Bactrim, an antibiotic. There are also some HIV antiretroviral drugs that are used to treat Hepatitis. They have separate codes for the treatment of Hepatitis, such as Viread (code=708) or Epivir (code=705) and should be recorded in the Hepatitis section when prescribed to treat hepatitis.

- Record the name and use of the drug in column B.
- If unsure about the spelling, ask the participant.
- Maintain a log of written responses.

Column C, captures whether or not the participant has taken each drug in the past 5 days, or for aspirin, in the last week.

For each reported medication, check for the presence of a corresponding medical condition. If it was not diagnosed since the last visit, ascertain if it was reported at an earlier visit.

Be aware of combination medications that are designed to treat multiple conditions *(for example - Caduet, 4105).* Generally, a combination drug should be reported only one time unless the participant report that he is taking it for two or more conditions that are specified in any of the following items: Q16.5 for fungal infection, Q16.6 for worms or parasites, Q16.10 for herpes, Q16.11 for erectile dysfunction, Q16.13 for cholesterol, Q16.14 for hypertension, Q16.15 for diabetes, and Q16.16 for hepatitis.

The medication section is useful for tracking the presence of chronic conditions over time. For example, if someone reported taking hypertension medication at V51, but was diagnosed with hypertension hypertension at V40, he would not report that he was diagnosed with hypertension since his last visit. However, we would know that he still had a hypertension condition because he reported a hypertension medication at V51.

Medication examples

<table>
<thead>
<tr>
<th>Examples</th>
<th>Type of Medication that was reported by the participant</th>
<th>If a participant reported taking a medication for the following sets of medical condition(s):</th>
<th>Interviewer records the medication in the following respective question(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participant 1</td>
<td>Caduet (Code = 4105)</td>
<td>Cholesterol Hypertension</td>
<td>Q16.13 Cholesterol Q16.14 Hypertension</td>
</tr>
<tr>
<td>Participant 2</td>
<td>Cholesterol (800 code series)</td>
<td>Cholesterol Heart Failure</td>
<td>Q16.13 Cholesterol</td>
</tr>
</tbody>
</table>
Examples | Type of Medication that was reported by the participant | If a participant reported taking a medication for the following sets of medical condition(s): | Interviewer records the medication in the following respective question(s): |
---|---|---|---|
Participant 3 | Hypertension (4000 code series) | Migraines | Q16.17 Migraine |
Participant 4 | Herpes/Hepatitis (code=707) | Hepatitis Herpes | Q16.16 Hepatitis Q16.10 Herpes |

16.10 - Acyclovir (CODE-“527”) should be recorded here. Treatment can either be taken everyday to suppress and prevent outbreaks; or treatment can be taken at the first sign of an outbreak or active lesion.

- If the participant responds "Yes”;
  - Ask the participant if he is taking it everyday or only when he had active lesions or had an outbreak;
  - Mark “Yes” or “No” for each.

- If the participant claims that he is taking Acyclovir as part of his HIV therapy to combat Herpes, Acyclovir should still be recorded in this section only.

16.11 - Record “Yes” only if the participant was taking a drug to treat a diagnosed erectile dysfunction only. If there was no diagnosis for erectile dysfunction and the prescribed medications as indicated were taken to enhance sexual performance, then record “No”. Medications taken to enhance sexual performance without a diagnosis are captured by Q49 in the behavioral section.

16.12 - Record whether or not the participant has taken aspirin three days or more on a weekly basis.

16.13 - Record any prescribed lipid-lowering medications to lower cholesterol, triglycerides, lipids, or fat. Cholesterol and lipid-lowering meds are part of the 800 series and can be found in the codebook and Drug Lists.

Note: Keep in mind that the 1000 digit place (top row of the code box) is reserved for combination hypertension drugs that are also taken for high cholesterol. Hypertension meds have a 4 digit code and the 1000 digit place was added to the cholesterol code box to accommodate the insertion of the 4 digit hypertension codes. This 1000 digit place can be left blank or filled in as a zero for the regular 800 series codes.

16.14 - Record specific hypertension medications to treat hypertension in this section. The hypertension meds are part of the 4000 series and can be found in the codebook and Drug Lists.
16.15 - Record any diabetic medications for lowering or regulating blood sugar. The diabetic meds are part of the 900 series and can be found in the codebook and Drug Lists.

16.16 - Record any hepatitis medications to treat hepatitis. The hepatitis medications are part of the 700 series. A list of the hepatitis meds can be found in the codebook and Drug Lists.

16.17 - Record other medications that have NOT been taken for any of the previously defined reasons in (Q16.1-Q16.16) since the participant’s last visit and record the reason for their use. There may be some drugs on DRUG LIST 2 that may be used for reasons other than HIV. Code these DRUG LIST 2 meds in this section as long as they are not being taken for any HIV related condition. Record prescribed medications first and with space permitting, add vitamins and herbal preps last.* If a participant is taking a hypertension or lipid-lowering medication for an indication OTHER than treating hypertension or high cholesterol, please record the drug and it’s use here.

* If a participant is taking more than one herbal preparation or more than one type of vitamin, record it only once. Do not record the individual herbal preparations and vitamins because all are classified under one code and cannot be distinguished in the database. This same rule applies to all other meds that are classified under one categorical code.

NOTE: A separate box located above the drug code box was created to record the name of the medication. This was done to leave more room for the interviewer to fill out the reasons for taking the medication in column C. Pay attention to the participant’s reasons for using the drug. If the specific reason fits a previously defined category and you have assessed that the reason given is plausible then move the recording of the drug to that category. If the participant reports an herbal preparation to reduce cholesterol then go back and record it in Q16.13. If he reports a drug to fight HIV or an HIV-related illness that is not on Drug Lists 1 or 2, then go back and report the drug in Q15.D. If you are not certain about the indications for the drug, check with your supervisor or a physical examiner before placing the reported drug in another category.

NOTE: If the participant reports Acyclovir in this section for the first time, go back and re-ask Q16.10. Probe if the participant says he is not taking it for Herpes by telling him that Acyclovir is an antiviral drug that specifically attacks the Herpes virus. If the participant insists that he is not taking it for Herpes then code it in Q16.17.

Note: Keep in mind that the 1000 digit place (top row of the code box) is reserved for hypertension drugs that are being taken for a reason not specified in the previous questions. This 1000 digit place can be left blank or filled in as a zero for the regular 3 digit drug codes.

NOTE: The Vaccine Trials questions have been removed starting at V51. Please note a change in question numbers from this point on.

Question 17: Health Insurance (Part A) and Medication Coverage (Part B)
NOTE: This question has been reordered starting at V51.

17.A - ADAP stands for AIDS Drug Assistance Program, a drug coverage program for those HIV patients who do not have adequate medical coverage.

- Ask about ADAP, Mark “Yes” or "No" and proceed to Q17.B.

If participant answers “No" to Q17.B indicating that he did not have any medical coverage since his last visit, skip to Q17.C.

If the participant answers “Yes" to Q17.B, read items Q17.B.1-7 and Q17.C.

- Mark “Yes" or "No" for each item.

17.B(1-7) - List of health insurance plans.

HMO is a health maintenance organization, such as Kaiser Permanente, Harvard Health, and Prudential HMO.

If privately insured through their employment and not by an HMO, it is group private insurance.

If response to Q17.B = "Other" (item 7) type of medical coverage, specify name and whether private insurance in specify box.

17.C - This question captures those participants that have any form of medication insurance coverage, even if they do not have other medical coverage. It pertains to the participant’s current status of insurance coverage for medications.

If the participant answers “No" to all items in Q17.B and “No" to Q17.C, skip to Q19.

If the participant answers “Yes" to having at least one health insurance plan in B or C, continue with Q18.

**Question 18:** Currently Insured

This question is asked only if participant answered “Yes" to Q17B. or C.

**NOTE:** Questions pertaining to lost/denied coverage have been removed starting at V51.

**Question 19:** Dental Insurance Coverage

**NOTE:** Usual Source of Medical Care question has been removed starting at V51.

**Question 20:** Use of Outpatient Medical Care Since Last Visit

Outpatient medical care does not include overnight hospital stays. Outpatient clinics within hospitals should be recorded as clinic.
HMO: May include the participant’s primary care doctor within an HMO or a specialist doctor such as an allergist as long as the doctor is part of an HMO, such as closed HMOs where the participant goes to his HMO for all his outpatient care.

Doctor’s office or specialty clinic: Includes the participant’s primary care doctor if he is not part of an HMO (this will include doctors who are part of Preferred Provider Organizations). It also includes specialty doctors such as allergists, neurologists who may work in a private solo or group practice. This group practice may be freestanding such as a clinic or part of a hospital.

Whenever a participant says he has been to the lab, the interviewer should probe to see if the lab work had been conducted as part of another doctor's or clinic visit. If so, then it can just be considered as one of the doctor's visits. However, if it is a separate visit or location (even on the same day) then it should be marked as "Other". When recoding (i.e., it’s too late to probe), it should remain as "Other".

Any other clinic: These include public health clinics, primary care clinics for gay and lesbian communities, the VA, or student health services. If a participant says "VA", the interviewer should probe as to whether this was a visit to the participant's own doctor there or if it was a clinic appointment; in either case code it as a doctor’s office or specialty clinic. In absence of this information, code it as any other clinic (CLOV).

Emergency Room: These are ERs attached to a hospital.

Other outpatient care: Facilities that provide lab work or special non-mental health therapy. Miscellaneous services are appropriate for the other category, including chemotherapy, pentamidine, and physical therapy.

Examples of service types:

- allergist: Doctor’s office/Specialty clinic
- podiatrist: Doctor’s office/Specialty clinic
- dermatologist: Doctor’s office/Specialty clinic
- eye doctor: Doctor’s office/Specialty clinic
- ENT surgeon: Doctor’s office/Specialty clinic
- optometrist: Doctor’s office/Specialty clinic
- X-ray: other outpatient care
- blood tests: other outpatient care
- physical therapy: other outpatient care
- resp therapy: other outpatient care
- speech therapy: other outpatient care
- CT scan: other outpatient care
- VA: any clinic
- student health clinic: any clinic

Question 21: Use of Providers Since Last Visit

This question inquires about other types of medical providers and services – including dental, mental, chiropractor, visiting nurses, etc – the participant may have used since his last visit. If they answer “Yes” to part A, ask how many times they have done so since their last visit.
NOTE: Out-of-Pocket Expenses question removed starting at V51.

**Question 22:** Did Not Seek Medical Care When Needed Since Last Visit

NOTE: This question has been rearranged starting at V51.

22.A - If the participant responds “No,” there was not a time they did not seek care or obtain prescriptions they thought they needed, skip to Q23. If the participant responds “Yes,” there was a time they did not seek care or obtain prescriptions they needed, go to Q22.B.

22.B(1) - Record in participant's own words reason for not seeking medical or dental care or not obtaining prescription medications if other than financial. Maintain log of written responses.

**Question 23.A.** This question offers the chance for the interviewer to capture any information that the participant may have forgotten to report. Information that is not reportable in the body of the questionnaire may be added here.

**Question 24:** MWII

Mark "Yes" if behavioral section of interview (Q30-Q.49) was or will be conducted by the MWII. If the behavioral section was administered using the SECTION 4 form then mark "No". If the participant refuses the behavioral section then mark “Behavioral section refused.”

**Question 25:** Telephone Interview

Mark "Yes" if interview is being conducted over the telephone. Otherwise mark "No”.

**Question 26:** Home Visit

Mark "Yes" if interview is being conducted in the participant's home. Other interviews conducted off-site such as in physician's office or hospital are considered "Home visit" and accordingly, should be marked "Yes”.

**Question 27:**

Mark “Yes” if interview being conducted is an abbreviated interview. Abbreviated interview questions are marked with a bolded asterisk (*) next to the question number. (See Page 49)

**Question 28:** Time Ended

Record the time the interview ended if the MWII is administered to the participant.

**Question 29:**
Sign your name and record the number assigned to you. Record your clinic in the Clinic Identifiers box.

NOTE: Question numbers have changed starting at V51.

Questions 30: Annual Income

Ask participant to select the range of income listed that matches his individual annual income before taxes.

Question 31: Major Financial Difficulty

This question assesses whether participant is CURRENTLY having difficulty meeting basic expenses.

If yes, ask if it is greater, less or the same as the time he came in for his last visit.

Question 32: Employment Changes due to HIV Disease

If the participant responded “Yes” he has changed employment because of HIV, ask each possible reason and record "No" or "Yes" response. If all items 1-7 are "No", bubble in “Yes” for 8 (“Other”) and record participant's reason in specify box.

Question 33: Cigarette Smoking

33.A - If participant never smoked cigarettes, mark "No" and go to Q34.

33.B & C - If participant currently smokes cigarettes ("Yes" to Q33.B), ask Q33.C. If participant does not currently smoke or only smokes occasionally, skip to Q34.

Question 34: Alcoholic Beverages

These series of 10 questions comprise a standardized validated alcohol use assessment called the Alcohol Use Disorders Identification Test (AUDIT). It was developed by the World Health Organization to identify alcohol use that is harmful to your health. Please make sure the participant answers each question for the past 6 months, and that they choose the best possible answer.

If participant did not drink any alcoholic beverages in the past 6 months, skip to Q34.K. If participant drank alcoholic beverages in the past 6 months, ask participant Q34.B-K.

Definition of Sexual Activity

If anyone asks why we include “deep kissing” in this definition, please reply with the following answer:
“When the MACS started, that was the definition adopted for sexual activity as we really didn't know how HIV was transmitted (or even that it was HIV!) and wanted to cover all potential routes. But nowadays, it probably stays in there only because of a desire to not change definitions in midstream of something as basic as sex.”

**Question 35 through 41: Sexual Activities**

This section, containing the questions concerning the participant’s sexual activities since his last visit.

If a participant asks why he is being asked about deep kissing (Q38.12 and/or 41.14), please reply with the following answer:

"While there is no linkage between deep kissing and transmission of HIV, some researchers would like to know about deep kissing because it is possible that some non-HIV viruses are transmitted during deep kissing."

**Question 35:** Any sexual activity since his last visit.

If participant had no sexual activity since his last visit then skip to Q42.

**Question 36:** Any sexual activity with Women

If the participant had no sexual activity with a woman since his last visit, skip to Q39.

**Question 37:**

For A and B, if the participant’s response is 1000 partners or more, code "999". If the participant reports only one female partner (A + B=1) then go to Q37.C.1. If the participant reports more than one female partner (A + B >= 2) then go to Q37.C.2.

Q37.C.1 and Q37.C.2 ascertain whether one of the partners reported in A or B is a main partner. If the participant considers a partner to be his main partner (C.1="Yes" or C.2="Yes") then go to Q37.D and Q37.E, which asks if the participant practiced unsafe sex with his main partner and for information on the main partner’s HIV status.

**Question 38:**

If participant had only one female partner (by partner, we mean partners for both sexual activity and intercourse: sum of Q38.A and Q38.B = 1), use Column A; Column B should be blank for all items. If he had more than 1 partner (sum of Q37.A and Q37.B > 1), use Column B; Column A should be blank for all items. For Column B, if the participant reports 1000 partners or more, code as "999".

If Q37.A = 0 and Q37.B ≥ 1, then only complete items 10 and 11. Items 1-9 should be left blank.
If participant responds as not engaging in any of the behaviors described in sub-questions 1-9, but did report at least one intercourse partner, refer back to the intercourse question, read the definition of intercourse and re-ask sub-questions 1-9.

38.1 - If participant reported no oral sex with female, fill in "No" if 1 partner was reported (Q37.A = 1), and "0" if multiple partners were reported (Q37.A ≥ 2), do not ask items 2 or 3.

38.4 - If participant reported no vaginal sex with female, fill in "No" if 1 partner was reported (Q37.A = 1), and "0" if multiple partners were reported (Q37.A ≥ 2), do not ask items 5 or 6.

38.7 - If participant reported no anal sex with female, fill in "No" if 1 partner was reported (Q37.A = 1), and "0" if multiple partners were reported (Q37.A ≥ 2), do not ask items 8 or 9.

Question 39:

If the participant had no sexual activity with a man since his last visit, but had sexual activity with a woman skip to Q41.15. If no sexual activity with a man or woman, then skip to Q42, street drugs.

Question 40:

For A and B, if the participant's response is 1000 partners or more, code "999". If the participant reports only one male partner (A + B=1) then go to Q40.C.1. If the participant reports more than one male partner (A + B ≥ 2) then go to Q40.C.2.

Q40.C.1 and Q40.C.2 ascertain whether one of the partners reported in A or B is a main partner. If the participant considers a partner to be his main partner (C.1="Yes" or C.2="Yes") then go to Q40.D and Q40.E, which asks if the participant practiced unsafe sex with his main partner and for information on the main partner’s HIV status.

Question 41:

If participant had only one male partner (by partner, we mean partners for both sexual activity and intercourse: sum of Q40.A and Q40.B = 1), use Column A; Column B should be blank for all items. If he had more than one partner (sum of Q40.A and Q40.B > 1), use Column B; Column A should be blank for all items. For Column B, if the participant reports 1000 partners or more, code as "999".

If Q40.A = 0 and Q40.B ≥ 1, then only complete item 13. All other items should be left blank.

If participant responds that he does not engage in any of the behaviors described in sub-questions 1-12, but did report at least one intercourse partner, refer back to the intercourse question, read the definition of intercourse and re-ask Q40A and Q40B.
41.1 - If participant reports no oral insertive intercourse with males, fill in:
"No" if 1 partner was reported ($Q_{40.A} = 1$),
"0" if multiple partners were reported ($Q_{40.A} \geq 2$),
do not ask Q2 or Q3.

41.4 - If participant reports no anal insertive intercourse with males, fill in:
"No" if 1 partner was reported ($Q_{40.A} = 1$),
"0" if multiple partners were reported ($Q_{40.A} = 2$),
do not ask Q5 or Q6.

If participant reports anal insertive intercourse with males, skip to Q5a. for one
partner or Q5b. for multiple partners.

41.5a. & 41.5a.1- If participant reports one partner and a condom was not used every time
($Q_{5a} = \text{"No"}$), ask Q5a.1, the HIV status of the partner with whom he had sex. We want to know
if the participant did not know what his partner's HIV status was at the time he engaged in sex
and did not use a condom. If a condom was used every time ($Q_{5a} = \text{"Yes"}$), skip to Q6a.

41.5.B - For multiple partners, we want to know if the participant did not know the HIV status
of any of his partners when he engaged in insertive anal sex and did not use a condom.

- If a condom was used every time ($Q_{5b} = Q_{4}$), skip to Q6b.
- If the number of partners with whom the participant used a condom every time is
  less than the number of partners reported ($Q_{5b} < Q_{4}$) or in other words he had
  practiced any unsafe sex then ask Q5b.1 and Q5b.2.
- If participant answers "Don't Know" to Q5b.1 or Q5b.2, skip to Q6b.
- If participant reports that some of his partners at the time of sex were positive or
  negative ($Q_{5b.1} = \text{"Yes" or "No"}$) and ($Q_{5b.2} = \text{"Yes" or "No"}$) then ask Q5b.3 - if
  he did not know or was unsure about the HIV status of any of his sexual partners.
  We have to account for some participants who may know the HIV status of some
  of their partners, but may not know the HIV status of other partners.

41.7 - If participant reported no oral receptive intercourse with male "No" if 1 partner was
reported ($Q_{40.A} = 1$), "0" if multiple partners were reported ($Q_{40.A} > 2$), do not ask Q8 or Q9.

41.10 - If participant reported no anal receptive intercourse with male "No" if 1 partner was
reported ($Q_{40.A} = 1$), "0" if multiple partners were reported ($Q_{40.A} > 2$), do not ask Q11 or Q12.
If participant reports anal receptive intercourse with males, skip to Q11a. for one partner or Q11b
for multiple partners.
41.11a. -

- If participant reported one partner and he did not use a condom every time \((Q11a. = \text{"No"})\), ask Q11a.1, the HIV status of the partner with whom he had sex. We want to know if the participant did not know what his partner's HIV status was at the time he engaged in sex and his partner did not use a condom.
- If a condom was used every time \((Q11a. = \text{"Yes"})\), skip to Q12a..

41.11b. - For multiple partners, we want to know if the participant did not know the HIV status of any of his partners when he engaged in receptive anal sex and did not use a condom.

If a condom was used every time \((Q11b. = Q10)\), skip to Q12b.

If the number of partners with whom the participant used a condom every time is less than the number of partners reported \((Q11b. < Q11)\) or in other words, he had practiced any unsafe sex then ask Q11b.1 and Q11b.2.

- If participant answers \text{"Don't Know"} to Q11b.1 or Q11b.2, skip to Q12b.
- If participant reports that some of his partners at the time of sex were positive or negative \((Q11b.1 = \text{"Yes" or "No"})\) and \((Q11b.2 = \text{"Yes" or "No"})\) then ask Q11b.3 - if he did not know or was unsure about the HIV status of his sexual partner. We have to account for some participants who may know the HIV status of some of their partners, but may not know the HIV status of other partners.

41.15 – If the participant has not met any new partners in past 6 months, fill in \text{"No"} and skip to Q42. Otherwise, fill in \text{"Yes"} and ask Q41.16.

41.16 - Bubble in all settings as reported by the participant.

**Question 42:** Recreational Drugs

If a participant reports \text{"Yes"} to \text{"Other forms of cocaine", "Speed, Meth or Ice", "Heroin" or "Speedball (heroin and cocaine together)"} then ask participant \text{"How did you use/take drug since last visit."} Mark all answers that apply.

For other kinds of drugs, ask the participant for specific names. If given a slang name, ask if known by other name. Record both the slang name and other name in same specify box. These will be coded using codes in **Appendix 4**. For \text{"other kinds of street/club drugs"}, if \(A\) is \text{“Yes”}, ask \(B\) for each additional drug.

Sexual performance enhancing drugs may be prescribed or over the counter. It is okay to report \text{“Yes”} for any prescribed or over the counter drugs as long as the participant was taking them to enhance sexual performance that was not associated with a diagnosis of erectile dysfunction. See **Appendix 4** for a list of common sexual performance enhancing drugs. It may be helpful to create a laminated response card with the names of these drugs for the participants to read.
**Question 43-49: IV Drug Use**

If the participant does not report any injection drug use in Q42.c, then skip to Q49 and ask only about any drug treatment programs since his last visit.

If the participant reported that he injected drugs in Q42.c then administer Q43-Q49.

**43.A.** - Needle use of drug could be intravenous, intradermal or intramuscular use.

**43.D** - Ask for all four drugs. If answer is none enter “00”. If answer is 99 or greater enter “99”. If the participant doesn’t know the exact number of times, ask him to give his best estimate.

**Question 44: Sharing Needles**

If answer is “Yes”, answer **Q45.A & B**.

**Question 46: Sharing Used Water**

If answer is “Yes” to A, answer B & C.

**Question 48: Needle Exchange Programs**

If answer is “Yes” to A, answer B & C.

**Question 49: Drug Treatment**

This question asks if the participant has been in any sort of drug treatment program since his last visit.
Appendix 1: Cancer Site Codes

1400  Oral/Pharynx (not otherwise specified) (NOS)
1409  Lip
1410  Tongue
1420  Salivary Gland
1460  Tonsil
1470  Nasopharyngeal
1500  Digestive System (not otherwise specified)
1510  Stomach
1520  Small Intestine
1530  Colon
1540  Rectum
1543  Anus/Anorectal
1550  Liver
1570  Pancreas
1600  Respiratory System and Intrathoracic Organs (not otherwise specified, see below) (including nasal cavity, sinuses, middle and inner ear, larynx, pleura, thymus, heart and mediastinum)
1620  Lung/Bronchus
1650  Other Respiratory
1700  Bones/Joints
1710  Soft Tissue
1730  Skin (NOS, to Kaposi's sarcoma, melanoma or basal cell)

8090  Basal Cell Carcinoma
9140  Kaposi's Sarcoma
8720  Melanoma
1850  Prostate
1870  Male Genitals (not otherwise specified)
1860  Testes
1874  Penis
1880  Bladder
1890  Kidney
1900  Eye/Orbit
1910  Brain
<table>
<thead>
<tr>
<th>Code</th>
<th>Disease</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920</td>
<td>Other Nervous System</td>
</tr>
<tr>
<td>1930</td>
<td>Thyroid</td>
</tr>
<tr>
<td>1940</td>
<td>Other Endocrine Glands</td>
</tr>
<tr>
<td>9590</td>
<td>Non-Hodgkin's Lymphoma</td>
</tr>
<tr>
<td>9710</td>
<td>Brain Lymphoma</td>
</tr>
<tr>
<td>9750</td>
<td>Burkitt's Lymphoma</td>
</tr>
<tr>
<td>9650</td>
<td>Hodgkin's Disease</td>
</tr>
<tr>
<td>9730</td>
<td>Multiple Myeloma</td>
</tr>
<tr>
<td>9800</td>
<td>Leukemia (not otherwise specified)</td>
</tr>
<tr>
<td>9821</td>
<td>Acute Lymphocytic Leukemia</td>
</tr>
<tr>
<td>9823</td>
<td>Chronic Lymphocytic Leukemia</td>
</tr>
<tr>
<td>9861</td>
<td>Acute Myelocytic Leukemia</td>
</tr>
<tr>
<td>9863</td>
<td>Chronic Myelocytic Leukemia</td>
</tr>
<tr>
<td>9890</td>
<td>Monocytic Leukemia</td>
</tr>
<tr>
<td>1950</td>
<td>Cancer (not otherwise specified)</td>
</tr>
<tr>
<td>7856</td>
<td>Castleman’s Disease</td>
</tr>
</tbody>
</table>
## Appendix 2: Tissue Biopsy Site

<table>
<thead>
<tr>
<th>Code</th>
<th>Tissue Biopsy Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Adrenals</td>
</tr>
<tr>
<td>02</td>
<td>Blood</td>
</tr>
<tr>
<td>03</td>
<td>Bone marrow</td>
</tr>
<tr>
<td>04</td>
<td>Brain</td>
</tr>
<tr>
<td>05</td>
<td>Cerebrospinal fluid</td>
</tr>
<tr>
<td>06</td>
<td>Gastro-intestinal tract</td>
</tr>
<tr>
<td>07</td>
<td>Kidney</td>
</tr>
<tr>
<td>08</td>
<td>Liver</td>
</tr>
<tr>
<td>09</td>
<td>Lung</td>
</tr>
<tr>
<td>10</td>
<td>Lymph nodes</td>
</tr>
<tr>
<td>11</td>
<td>Myocardium</td>
</tr>
<tr>
<td>12</td>
<td>Nerve, peripheral</td>
</tr>
<tr>
<td>13</td>
<td>Oral cavity</td>
</tr>
<tr>
<td>14</td>
<td>Prostate</td>
</tr>
<tr>
<td>15</td>
<td>Skeletal muscles</td>
</tr>
<tr>
<td>16</td>
<td>Skin</td>
</tr>
<tr>
<td>17</td>
<td>Spinal Cord</td>
</tr>
<tr>
<td>18</td>
<td>Spleen</td>
</tr>
<tr>
<td>19</td>
<td>Anus</td>
</tr>
<tr>
<td>20</td>
<td>Rectum</td>
</tr>
<tr>
<td>21</td>
<td><strong>Urinary tract</strong></td>
</tr>
<tr>
<td>22</td>
<td><strong>Thyroid</strong></td>
</tr>
<tr>
<td>98</td>
<td>Other</td>
</tr>
<tr>
<td>99</td>
<td>Biopsy, unknown site</td>
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</table>
Appendix 3: Diagnosis of Tissue

<table>
<thead>
<tr>
<th>No.</th>
<th>Diagnosis</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>Don't know</td>
</tr>
<tr>
<td>1</td>
<td>Tuberculosis</td>
</tr>
<tr>
<td>2</td>
<td><strong>Cancer (including all tumor cancers, and lymphoma)</strong></td>
</tr>
<tr>
<td>3</td>
<td>Toxoplasmosis</td>
</tr>
<tr>
<td>4</td>
<td>(Benign) reactive hyperplasia</td>
</tr>
<tr>
<td>5</td>
<td>Benign / Dysplasia</td>
</tr>
<tr>
<td>6</td>
<td>Non-diagnostic/non-specific/inconclusive/indeterminate/normal/negative/nothing found</td>
</tr>
<tr>
<td>7</td>
<td>Vasculitis</td>
</tr>
<tr>
<td>8</td>
<td>Granuloma</td>
</tr>
<tr>
<td>9</td>
<td>Other</td>
</tr>
<tr>
<td></td>
<td>Blank Missing</td>
</tr>
</tbody>
</table>
Appendix 4:

Other Kinds of Street/Club Drug Codes (Q42)

2 "Downers" including barbiturates as yellow jackets or reds, tranquilizers like Valium, Librium, Xanax or other sedatives or hypnotics like Quaaludes

3 Methadone or other opiates/narcotics like Demerol

4 PCP, angel dust, psychedelics, hallucinogens, LSD, DMT, mescaline, Ketamine or Special K

6 Ethyl Chloride as inhalant

7 GHB

9 Other

Sexual Performance Enhancing Drugs

Viagra
Herbal Viagra
Levitra
Cialis
Testosterone patch, injection or topical creams
Yohimbine
Ephedrine or Guarana containing products
Tri-Mix
Penile suppositories

Any other compound, herbal preparation or prescription drug used primarily to enhance sexual performance in the absence of diagnosed primary erectile dysfunction
Please list all the prescribed medications that you have taken since your last visit on ___ ___ ____ ___. Bring this form to your next study visit. If you have not taken any prescribed medications, please disregard this form. Thank you.

<table>
<thead>
<tr>
<th>Drug name</th>
<th>If you started taking this drug since your last visit, write the month and year when you started.</th>
<th>If you stopped taking drug since last visit, in what month and year did you stop?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>
Appendix 6:

- **List of Reportable Outcomes**
  - Any AIDS diagnosis
  - Any malignancy (**excluding basal cell carcinoma**)
  - Any neurological outcome
  - Any pneumonia
  - Lung infections, excluding bronchitis
  - Tuberculosis
  - Bacterimias
  - Septicemias
  - Anal dysplasia
  - Any cardiovascular outcome
  - Angina
  - Heart Attack (MI)
  - Congestive Heart Failure
  - Stroke (CVA)
  - Seizure
  - Osteoporosis
  - Avascular necrosis, Osteonecrosis
  - Kidney disease / Renal Failure
  - Liver Disease
    - Cirrhosis
    - Fibrosis
    - Inflammation
    - Other liver disease, excluding positive hepatitis (serology only)
  - Castleman’s Disease
  - Death

- Other conditions or diagnoses that **should not** be reported as an outcome, but will be collected from self-report, include:
  - AIDS-related symptoms (Thrush, diarrhea, weight loss)
  - Hepatitis
  - Sinusitis
  - Bronchitis
  - Skin infections
  - Hernias
  - Cardiovascular symptoms (high blood pressure, high cholesterol, high blood sugar/diabetes)
  - Elevated liver function tests/enzymes
  - Lipodystrophy
APPENDIX 7: AIDS Diagnosis Codes

0001 Kaposi’s sarcoma

0002 Pneumocystis carinii pneumonia

0003 Toxoplasmosis (at a site other than or in addition to liver, spleen, muscle or lymph nodes)

0004 Cryptosporidiosis with diarrhea persisting > 1 month

0005 Isosporiasis with diarrhea persisting > 1 month

0006 Histoplasmosis, disseminated, at a site other than or in addition to lungs or cervical or hilar lymph nodes

0007 Cytomegalovirus infection histopathologically documented (of an organ other than liver, spleen, or lymph nodes) or diagnosis by serology culture alone. If CMV retinitis or CMV polyradiculitis, code as indicated below, 0008 or 0027, respectively.

0008 CMV Retinitis, eye unknown

0028 CMV Retinitis, left eye

0029 CMV Retinitis, right eye

0027 CMV polyradiculitis. Usually developing in a patient with advanced immune deficiency who has evidence of CMV infection elsewhere, e.g., CMV retinitis, colitis, with the subacute onset of lower extremity weakness, sacral/back pain, sphincter disturbance. Cerebrospinal fluid analyses usually show a marked inflammatory response with elevated WBC, total protein, and in 50%, positive CMV culture. Autopsy confirmation may be present with demonstration of CMV in the lumbosacral nerve roots.

0009 Primary Lymphoma of brain

0010 Diffuse, undifferentiated B-cell non-Hodgkin's lymphoma. includes the following histologic types:

a. small noncleaved Lymphoma of (either Burkitt or non-Burkitt type)
b. immunoblastic sarcoma (equivalent to any of the following, although not necessarily all in combination: immunoblastic Lymphoma, large-cell Lymphoma, diffuse histiocytic Lymphoma, diffuse undifferentiated Lymphoma, or high-grade Lymphoma)

0011 Diffuse, undifferentiated B-cell non-Hodgkin's lymphoma metastatic to brain

0012 Progressive multifocal leukoencephalopathy (Papovavirus infection, brain)

0013 HIV encephalopathy (dementia) determined to be probable after review by Neuropsychology working group

0014 Candida esophagitis; tracheal, bronchial or pulmonary candidiasis
0015 Atypical (non-tuberculous) mycobacterial infection, (disseminated at a site other than or in addition to lungs, skin or cervical hilar lymph nodes), not specified

0016 Atypical (non-tuberculous) mycobacterial infection, (disseminated at a site other than or in addition to lungs, skin, or cervical hilar lymph nodes) specified as M. avium-intracellular

0017 Other atypical (non-tuberculous) mycobacterial infection, (disseminated at a site other than or in addition to lungs, skin or cervical hilar lymph nodes), please specify.

0018 Disseminated M.T.B.

0019 Cryptococcal infection extrapulmonary - not otherwise specified

0020 Cryptococcal infection extrapulmonary - meningitis

0021 Cryptococcal infection extrapulmonary - other internal organ

0022 Cryptococcal infection extrapulmonary - blood

0023 Chronic mucocutaneous herpes simplex infection persisting > 1 month; or herpes simplex bronchitis, pneumonitis, or esophagitis

0024 Coccidioidomycosis disseminated (at a site other than or in addition to lungs or cervical or hilar lymph nodes)

0025 Salmonella (non-typhoid) septicemia, recurrent

0026 Wasting Syndrome: findings of profound involuntary weight loss > 10% of baseline body weight plus either chronic diarrhea (at least two loose stools per day for ≥ 30 days) or chronic weakness and documented fever (for ≥ 30 days, intermittent or constant) in the absence of a concurrent illness or condition other than HIV infection that could explain the findings (e.g., cancer, tuberculosis, cryptosporidiosis, or other specific enteritis.)

0050 Pulmonary Tuberculosis or mycobacterial TB in the lung.

0051 Recurrent pneumonia (more than one episode in a 1-year period), acute (new x-ray evidence not present earlier) pneumonia diagnosed by both: a) culture (or other organism-specific diagnostic method) obtained from a clinically reliable specimen of a pathogen that typically causes pneumonia (other than Pneumocystis carinii or Mycobacterium tuberculosis), and b) radiologic evidence of pneumonia; cases that do not have laboratory confirmation of a causative organism for one of the episodes of pneumonia will be considered to be presumptively diagnosed. Recurrent pneumonia diagnostic date is the date that the 2nd episode is diagnosed.
Appendix 8: Rationale for Rectal Bleeding Question

Rectal bleeding can be a sign of any of several abnormal processes including hemorrhoids, trauma, acute infection, or cancer. It has become apparent that MSM are at greater risk for the development of rectal cancers that occur as a result of chronic infection with human papillomavirus (HPV), the virus that causes anal and genital warts. This cancer is becoming more common in HIV-infected MSM. Many MSM have chronic (over many years) rectal infection with HPV, regardless of whether or not they ever developed anal warts. Likewise, colon and rectal cancer in general increases as adults age. Whatever its cause, rectal bleeding is an important occurrence that should not be ignored.
Appendix 9

Influenza vaccination information sheet for MACS participants

Influenza infects the respiratory track and causes fever followed by muscle aches, headaches, and a dry, hacking cough. Infection with influenza can cause more serious illness in people infected with HIV compared to people who are HIV-negative. Because of this increased risk of more severe illness from influenza infection, the US Advisory Committee on Immunization Practices (ACIP) has recommended all HIV-infected individuals should receive an influenza vaccination annually.

Influenza infections occur more frequently in the winter months. Before each winter, three strains of influenza are selected from world-wide surveillance data and a vaccine is made to protect against the three selected strains. Because new strains of influenza regularly emerge and circulate among humans, sometimes one or two of the strains contained in the vaccine are not the same strains that are circulating. This causes the vaccine to be less effective.

There are four antiviral medications one can take to prevent and treat influenza infection. There have been reports of a circulating influenza strain that is resistant to one of these antiviral medications (Tamiflu®). If you think you have the flu, contact your doctor immediately as these medications have to be taken soon after infection for them to work properly.

We are collecting information on influenza symptoms and vaccination because we believe it is important to study influenza in HIV-infected individuals.

In addition to an annual influenza vaccine, good health habits, especially regular hand washing with soap and warm water, are important to staying flu-free during the winter months. For more information on influenza prevention, symptoms and vaccination, visit the CDC’s website at:

http://www.cdc.gov/flu/whatyoushouldknow.htm
Guidelines for Completing Visit 51 Drug Form 1
(MACS Questionnaire)

General Instructions:

1. A DRUG FORM 1 should be completed for each antiretroviral drug reported by participant in SECTION 4, Q15.B(3) unless a drug combination is being taken as part of a blinded clinical trial (see part 2 below). If the prescribed dosage of an antiretroviral drug has changed during the time since the last visit, then complete two forms. The two forms will have different dosages: both will be since the last visit, but one form will be for the first dosage and the other form will be for the current dosage. For example, during the time since the last visit, a participant took 6 Norvir 2x a day and then switched to 1 pill 1x a day. In this case, a DRUG FORM 1 would be completed for Norvir with the old dosage of 6 pills 2x a day and a second DRUG FORM 1 would be completed for Nervier with the current dosage of 1 pill 1x a day.

Coding Example: (See SECTION 4 guidelines, Q15, and the sample forms on pages 46-47 for specific examples.)

2. Combinations of drugs being tested in blinded research studies should be reported as one drug. This is the only time when you report two or more drugs on one drug form. A blinded study is one in which the participant does not know which drugs, or combination of drugs, he is taking.

   • Fill out one DRUG FORM 1 for combinations of this kind.
   • Fill out form through Q1a – Q1d only.

3. If a participant took a medication as part of a research study but then continues that medication after the trial ends during the same 6 month visit period, complete two drug forms. (See sample drug forms at the end of the DRUG FORM 1 Guidelines.) In this example, the participant’s last visit was May 1, 2005 and his most visit was November 1, 2005. He began Trizivir as part of a clinical unblinded research trial on January 1, 2005 and ended the trial on July 1, 2005. After the research trial ended, he continued taking Trizivir NOT as part of a research study. The amount of time he took the drug for research use was 2 months (May-June) and 4 months for non-research use (July-October).

   ▶ One form will correspond to the portion of the visit when the participant was enrolled in the research trial, May-June.
   ▶ The second drug form will correspond to the portion of the visit
4. Not all DGF1 medications are listed on the form. If a reported medication is not on the form, refer to the current drug list for the correct code. Mark "Other" and use the specify box for reported antiretroviral medications not listed on DRUG FORM 1. Notify CAMACS of any frequently used medications that do not have unique codes. (See Q15.B of the S4 guidelines for more detailed instructions on reporting antiretroviral drugs.)

5. All questions refer to the period since the participant's last visit.

6. Note that all known protease inhibitors have now been given unique codes.

**Question 1:**

This question asks the participant if he is taking the drug as part of a research study.

- If “No”, skip B – E and go to Q2.
- If “Yes”, ask B - E.

**Q1.D** - If the participant answers “Yes” to this question, there are two options:

- If the participant is BLINDED to the treatment, he should STOP at this point (i.e., if Q1.B is “Yes”).
  - Do not answer Q.2-Q.12 if the participant is taking this drug as part of a blinded research study and therefore does not know whether he is taking a placebo or the actual drug.
- If the participant is UNBLINDED to the treatment, SKIP TO Q4 and continue with the rest of the questionnaire.

- If the participant answers “No” then go to Q1.E.

**Q1.E** - This question should only be answered if the participant took the medication as part of a research study since last visit but is not currently taking the medication as part of the research study.

**Question 2:**
This question applies to those participants who took the drug as part of an unblinded research study but are no longer taking it as part of the research study (Q1.D = “No”). It asks participants if they are currently taking the drug for non-research use.

- If “Yes”, the participant is currently taking the drug as non-research, go to Q4 and complete the rest of DRUG FORM 1 for research use and then fill out a separate DRUG FORM 1 for non-research use.
- If “No”, the participant is not taking the drug as non-research, go to Q3 and continue filling out the form for research use.

**Question 3**:

This question applies to participants who are not currently taking the drug for non-research use and stopped since their last visit. If this is the case then ask what month and year the participant last took the drug.

**Question 4**:

There are a few drugs that are administered by injection. Ask participant if he is taking the drug by mouth (either pill or liquid) or by injection.

- If by mouth, ask Q5 and Q6 and go to Q8.
- If by injection, skip Q5 and Q6 and go to Q7.

**Question 5**:

Ask the participant how many times he takes this drug and record accordingly and ask if the number of times reported is per day, week or month. Fill in the provided time frame.

**Question 6**:

This is the number of pills or liquid doses prescribed by the physician.

**Question 7**:

Ask the participant how many times he injects this drug and record accordingly and ask if the number of times reported is per day, week or month. Fill in the provided time frame.

**Question 8**:
This question refers to whether or not the participant started the medication since his last visit.

- If the drug form is being filled out for a drug taken as part of a research study then this question pertains to whether the participant began taking the drug as part of a research study since his last visit.

- If the drug form is being filled out for a drug taken NOT as part of a research study then this question pertains to whether the participant began taking the drug for non-research use since his last visit.

**Question 9:**

This question should only be answered if the participant started the medication since his last visit (Q8 = “Yes”). If the participant cannot remember the exact month, probe for the season as instructed in item 4 of the General Instructions (page 3).

**Question 10:**

Mark only one response.

- “One to two months” means one month and longer up to less than 3 months.
- “Three to four months” means three months or longer up to less than 5 months.

**Question 11:**

Stopping medications means intentionally to discontinue taking the drug or intentionally stop taking the drug for 2 days or longer. What we are trying to capture is if the participant has stopped his medication at any time and the reasons for stopping.

Discontinuation or temporarily stopping the medication must be for a reason other than alternating drug regimens as may be prescribed by a physician. If a participant reports that he discontinued or temporarily stopped his medication, then ask him why he stopped and indicate reason(s) in Q12.

**Question 12:**

Each reason for stopping should be read to the participant. Multiple reasons may be chosen. If participant responds with reasons not listed on the form, mark "Other" and record in participant's words the reason(s) in the specify box.

**Question 13:**

This question is designed to assess adherence to a prescribed medication schedule.
SAMPLE: 1st Drug Form 1 for Trizivir taken for research study

44 FORM 1—ANTIRETROVIRAL DRUGS
COMPLETE THE FOLLOWING FOR EACH DRUG LISTED IN QUESTION 15.B(3).

- 45

Last Visit: May 1, 2005
Research Use: Began January 1, 2005
Ended July 1, 2005
SAMPLE: 2nd Drug Form 1 for Trizivir taken for non-research study

44 FORM 1—ANTIRETROVIRAL DRUGS

COMPLETE THE FOLLOWING FOR EACH DRUG LISTED IN QUESTION 15.B.1.

1. Did you take this drug? (GO TO Q7).
   - NO
   - YES

2. Are you currently taking this drug? (GO TO Q8).
   - NO
   - YES
   - STOP IF BLINDED. GO TO Q12.

3. Since your last visit in what month and year did you most recently take this drug?
   - NO
   - YES
   - STOP IF BLINDED. GO TO Q12.

4. Do you take this drug by mouth or receive it by injection?
   - NO
   - YES
   - STOP IF BLINDED. IF BY INJECTION, SKIP TO Q7.

5. According to your doctor, how many times per day, week, or month should you take this drug?
   - NO
   - YES
   - STOP IF BLINDED. GO TO Q12.

6. According to your doctor, how many pills should you take each time?
   - NO
   - YES
   - STOP IF BLINDED. GO TO Q12.

7. How many times per day, week, or month do you inject this drug?
   - NO
   - YES
   - STOP IF BLINDED. GO TO Q12.

8. Did you start taking this drug since your last visit? (GO TO Q11).
   - NO
   - YES

9. Since your last visit in what month and year did you start taking this drug?
   - NO
   - YES
   - STOP IF BLINDED. GO TO Q11.

10. Since your last visit in (MONTH), how long have you used (DRUG)?
    - NO
    - YES
    - STOP IF BLINDED. GO TO Q11.

11. Did you stop taking this drug, for 2 days or longer, at any time since your last visit? [DOES NOT INCLUDE ALTERNATING USE OF DRUG]
    - NO
    - YES
    - STOP IF BLINDED. GO TO Q11.

12. Why did you stop taking this drug?
    - NO
    - YES
    - STOP IF BLINDED. GO TO Q11.

Last Visit: May 1, 2005
Non-Research Use: Began July 1, 2006
Guidelines for Completing the V51
Antiretroviral Medication Adherence Form

General Instructions:

Complete one ANTIRETROVIRAL MEDICATION ADHERENCE FORM for seropositive participants with at least one complete DRUG FORM 1 and who are currently taking the specified antiretroviral medication(s). Drugs taken as part of a clinical trial should be included as long as the participant is not blinded to the treatment.

The form should be administered by the interviewer immediately following completion of all DRUG FORM 1(s).

Question 1:

This question is divided into 9 sections with an identical series of questions. Administer each section for each drug reported in DRUG FORM 1. Most items in this question refer to medication usage in the last 4 days. List the days of the week that fell in last 4 days to help the participant with recall. There is room for 9 possible drugs. Answer all questions for one drug at a time.

Enter the drug name and corresponding code in the boxes allowed. The first four questions ask the participant how many times a day he actually took the medication over the last 4 days. For example, if the participant is taking 5 pills of Viracept, 3 times a day, code the answer as “3”. When referring to 2 days ago, 3 days ago and 4 days ago, mention the actual day of the week you are alluding to [DAY]. For example, if the interview is on Friday and you are asking about 3 days ago, prompt the participant by saying “that would be on Tuesday.”

The next item asks if this pattern of use described in the previous 4-day period is typical of the participant’s recent use of that drug in general. Again, the actual drug name should be inserted at the end of the question. The time frame of “recent” is intentionally meant to be subjective. It is up to the participant’s interpretation. Do not try to define “recent” for the participant. If needed, simply repeat the question.

The final item in this series is aimed at capturing some general information about the number of pills taken at each dose. At the end of this question, if the participant is currently only taking one drug, SKIP TO Q2; otherwise continue with the second drug and go through the exact same sequence of questioning. Do likewise for the completion of the third drug. If the participant is currently taking more than 3 antiretroviral medications, continue on page 2; otherwise SKIP TO Q2. If the participant is currently taking more than 6 medications, continue on page 3; otherwise SKIP TO Q2.
**Question 2:**

This question refers to the last 6 months. Ask the participant when was the last time he skipped ANY of his medications. If he has never skipped any medications, go to Q4.

**Question 3:**

This question refers to the last 6 months. It should be skipped if the answer to Q2 was “Never”.

This question asks a series of reasons for missing medications and how often each reason applies. Read each reason to the participant and complete his responses before proceeding to the next reason. At the end, ask the participant if there are any other reasons for missing his medications that he was not already asked. Write these responses in the specify box.

**Question 4:**

All participants completing the form should answer this question related to adherence to their medication schedules. The time frame for this question is the last 4 days.

**Question 5:**

This question has three parts related to special instructions for taking medications. If the participant was never given such instructions, SKIP TO Q6; otherwise continue with the next 2 items. In item 3, an example of conflicting instructions would be that the participant is taking 2 medications at the same time. For one he is instructed to “take on an empty stomach” and for the other he is told to “take it with food”.

**Question 6:**

This question refers to the way the participant remembers to take his medication. Read each item and mark the participant’s response. If he has a way of remembering that was not listed, mark “Yes” for other and record it in the specify box.
Abbreviated S4 Interviews

**Purpose:**
The purpose of an abbreviated S4 interview is to collect medical outcome information from participants who are too sick to participate in a full S4 interview or healthy participants who are resolutely opposed to participating in a complete study visit. Obtain a Medical Release for all reported diagnoses that qualify as a reportable medical outcome.

Overall, an abbreviated interview should be the option of last resort. It is advisable to withhold the availability of this option from study participants in general and reserve it only for exceptional cases and extenuating circumstances where the site is at risk of losing a participant from the study. For instance, in response to a participant’s refusal to go through a full S4 interview (both medical and behavioral sections), ask the participant if it would help to break the interview session in half by conducting the medical and behavioral sections at two separate times. If that option still doesn't appeal to him, offer to administer the full medical S4 before offering the abbreviated version.

**Administration**

1) The abbreviated interview consists of selected questions from the S4 form (they have a bolded asterisk (*) next to the question number), which should be administered in the following order of priority. **Administer the following questions and their embedded skip pattern questions in the following order:**

- Q1-5a AIDS diagnoses and cancers
- Q6 Hospitalizations
- Q9-10 Pap smears and biopsies for the purpose of collecting cancers
- Q10.M-Q10.AA, Q10.EE All other potential medical outcome diagnoses
- Q14 – 15.D HIV medications

If the interviewer is able to continue after collecting the above information, then go to Q10.FF, other new conditions by system, and proceed with administering the remainder of the questionnaire in question number order as much as permitted by the participant. Please note that Q7, mental health treatment, and Q8 family history will be skipped all together.

**Local Data management options:**

1). Each site may choose either method of data submission to CAMACS

   a. Combine the abbreviated S4 data with the other full S4 data.
   b. Create a separate abbreviated S4 data file.
Editing of Abbreviated S4 forms

Please mark “Yes” to Q34 in the S4 to indicate that the interview was abbreviated. The skipped sections of the S4 will not be combined with the other edits queries sent to the centers.