

RAPID KNOWLEDGE, PRACTICES AND COVERAGE (KPC) SURVEY MODULE 4E: MALARIA

This module contains 7 sections:

- Updates to the Module
- Note for Program Managers
- Suggested Qualitative Research Questions
- Sub-Module A: Measuring ITN use without a Net Roster
- Sub-Module B: Measuring ITN use with a Net Roster
- Sub-Module C: Malaria Prevention and Treatment
- References

The malaria module contains questions on malaria prevention and treatment. In areas with endemic malaria, these questions should be asked of every mother in the survey. The following indicators are calculated using the answers to the questions in this module:

<p><u>RAPID CATCH 2007 INDICATORS</u></p> <ul style="list-style-type: none"> • ITN Use: Percentage of children 0-23 months who slept under an insecticide-treated bednet the previous night • Treatment of Fever in Malarious Zones: Percentage of children age 0-23 months with a febrile episode during the last two weeks who were treated with an effective anti-malarial drug within 24 hours after the fever began 	<p><u>KEY INDICATORS</u></p> <ul style="list-style-type: none"> • ITN Ownership: Percentage of households of children age 0-23 months that own at least one insecticide-treated bed net • IPT during Pregnancy: Percentage of mothers of children age 0-23 months who received Intermittent Preventive Treatment (IPT) for malaria during the pregnancy with the youngest child
<p><u>INDICATORS USED BY PMI AND OTHER OPTIONAL INDICATORS</u></p> <ul style="list-style-type: none"> • Indoor Residual Spraying: Percentage of households of children age 0-23 months that were sprayed with insecticide in the previous 12 months • Children protected by ITN Use or IRS: Percentage of children age 0-23 months who slept under an ITN the previous night or in a house sprayed with IRS in the last 12 months • Maternal Knowledge of Child Danger Signs: Percentage of mothers of children age 0-23 months who knew at least two signs of childhood illness that indicate the need for treatment • Care-seeking for Fever in Malarious Zones: Percentage of children age 0-23 month with a febrile episode during the last two weeks who were taken to a appropriate place for treatment • Treatment of Fever with ACTs in Malarious Zones: Percentage of children age 0-23 months with a febrile episode during the last two weeks who were treated with ACTs within 24 hours after the fever began • Bednet Use during Pregnancy: Percentage of mothers of children age 0-23 months who reported that they slept under a bednet all of the time or most of the time during their most recent pregnancy 	

UPDATES TO THE MODULE

The module now contains three sub-modules, which provides more flexibility for program managers to adapt the KPC to the specific needs of their project.

- Sub-module A provides questions on the use of ITNs by children 0-23 months without using a net roster.
- Sub-module B provides the questions on the use of ITNs by children 0-23 months using the net roster and household listing.

- Sub-module C includes the indicators for care and treatment of malaria, indoor residual spraying, and prevention of malaria during pregnancy. This sub-module can be used with sub-module A or B.

In the sub-modules, indicators are calculated based on the international standards determined by the Demographic and Health Surveys, Roll Back Malaria and other international stakeholders. This includes two Rapid CATCH indicators, two Key Indicators and seven optional indicators. Many of these indicators are also compatible with the President’s Malaria Initiative monitoring and evaluation indicators. In addition to the new sub-modules, the suggested qualitative research questions have been revised.

NOTE FOR PROGRAM MANAGERS

This module presents two methods for collecting ITN use indicators: using a net roster and without a net roster. Both methodologies have their advantages and disadvantages, but choosing the correct method for the project is the first decision when using this module in the KPC.

Method	Goal	Considerations	Indicators
Not Using a Net Roster (Sub-Module A)	Project will focus malaria interventions exclusively on young children	<ul style="list-style-type: none"> • Simplified series of questions that focus on prevention and treatment for malaria in young children • Does not provide information on other members of the household use of ITNs 	<ul style="list-style-type: none"> • ITN Ownership: Percentage of households of children age 0-23 months that own at least one insecticide-treated bed net • ITN Use: Percentage of children 0-23 months who slept under an insecticide-treated bednet the previous night
Using a Net Roster (Sub-Module B)	Project has a broader interest in malaria and an intensive interest in ITN coverage among all residents	<ul style="list-style-type: none"> • Requires a household listing • More intensive questions which are more time-consuming and require more resources • Yields detailed information on which household residents slept under ITNs • Gathers information on all nets in a household 	<ul style="list-style-type: none"> • ITN Ownership: Percentage of households of children age 0-23 months that own at least one insecticide-treated bed net • ITN Use: Percentage of children 0-23 months who slept under an insecticide-treated bednet the previous night

After deciding which net module is most appropriate for the project, use sub-module C to construct other important malaria indicators. The indicators available in sub-module C are listed in the table below.

Sub-Module C	
Topic	Indicator
IRS	<ul style="list-style-type: none"> • Indoor Residual Spraying: Percentage of households of children age 0-23 months that were sprayed with insecticide in the previous 12 months
Treatment of Malaria in Children	<ul style="list-style-type: none"> • Maternal Knowledge of Child Danger Signs: Percentage of mothers of children age 0-23 months who knew at least two signs of childhood illness that indicate the need for treatment • Care-seeking for Fever in Malarious Zones: Percentage of children age 0-23 months with a febrile episode during the last two weeks who were taken to a appropriate place for treatment • Treatment of Fever in Malarious Zones: Percentage of children age 0-23 months with a febrile episode during the last two weeks who were treated with an effective anti-malarial drug within 24 hours after the fever began • Treatment of Fever with ACTs in Malarious Zones: Percentage of children age 0-23 months with a febrile episode during the last two weeks who were treated with ACTs within 24 hours after the fever began
Prevention of Malaria during Pregnancy	<ul style="list-style-type: none"> • IPT during Pregnancy: Percentage of mothers of children age 0-23 months who received Intermittent Preventive Treatment (IPT) for malaria during the pregnancy with the youngest child • Bednet Use during Pregnancy: Percentage of mothers of children age 0-23 months who reported that they slept under a bednet all of the time or most of the time during their most recent pregnancy

Within all sub-modules, it is critical that all questions are adapted to the local terms and national malaria protocols.

- ITNs: adapt the name brands of the nets to those available within the project area (Q.103, 111, 205). Add more lines if there are more than two brands of each type of net. For these questions, permanently treated nets are nets that were treated at the factory and do not require any further treatment; pretreated nets have been treated and will require further treatment after 6 to 12 months. In some locations, in Latin America and Asia, bednets are not used to prevent malaria.
- Treatment for malaria: Countries in different regions have varying first line drugs for treatment of malaria. Be sure to change all references to drugs (both treatment of malaria and IPT) and the tabulations plans to reflect the local words and the national malaria protocol (Q. 314, 317).
- Care-seeking for Fever in Malarious Zones: The tabulation of this indicator should reflect the protocol within the project area (Q. 308, 311). Where health facilities may be the only source of anti-malarials in some areas, community health workers or pharmacies may be an appropriate provider in other areas.

Please note that the indicator “Bednet Use during Pregnancy” is not comparable to the indicator “Use of ITNs by Pregnant Women” found in the DHS and other large sample surveys. The KPC does not have a large enough sample of currently pregnant women for this indicator to be calculated. Instead, the self-reported KPC indicator covering the previous pregnancy is meant to give project managers an idea on the practice of this behavior in the project area – not an exact estimate.

SUGGESTED QUALITATIVE RESEARCH QUESTIONS

Certain topics are better explored using qualitative research techniques rather than closed-ended questions. It is suggested that answers to the following questions be obtained from individual interviews or small-group discussions:

- Do you think malaria is a serious problem in your community?
- How do people in your community get a fever (malaria)?
- What do you know about malaria?
- What do people in your community do to avoid getting malaria?
- How can you tell if a child has malaria?
- What do people in your community do when a child has a fever?
- What condition would alert you to take your child to a health facility?
- Where do people seek information on how to care for a young child with fever?
- Do people sleep under ITNs in this community? Who sleeps under an ITN?
- Where can one get a bednet? (for purchase? Or free?)
- Have any homes been sprayed against mosquitoes? Do you think spraying is a good idea?
- Should pregnant women be treated for malaria if they are not sick? Why?

The qualitative research component will yield important information on community knowledge, beliefs, and normative practices related to malaria. Findings from individual or group interviews can be used to modify the questionnaire to reflect local terms, concepts, and customs. In addition, upon completion of the KPC study, there may be additional areas that need to be explored. Thus, qualitative methods can be employed once again to provide explanations for phenomena that were identified but not sufficiently explained by the KPC.

For more resources, see the References listed at the end of this module.

SUB-MODULE A: MEASURING ITN USE WITHOUT A NET ROSTER

INTERVIEWER INSTRUCTIONS

ASKING QUESTIONS AND RECORDING ANSWERS

It is very important that you ask each question exactly as it is written on the questionnaire. In addition to the questions, there are statements that appear in all capital letters, indicating that they are interviewer instructions and should not be read aloud to the mother.

Most questions in this module have pre-coded responses. It is important that you do not read these choices aloud to the mother. When you ask a question, you should listen to the mother's response, then circle the code next to the category that best matches her answer.

FILLING IN IDENTIFICATION INFORMATION

In order to calculate the indicators for this module, information on the child's date of birth must be recorded. Normally, this module is part of a larger KPC survey, so this information is collected at the beginning of the interview. Please make sure that date of birth, along with other crucial identification information (cluster number or supervision area, household number and record number), is recorded as part of the survey.

Q.101-102 HOUSEHOLD OWNERSHIP OF NETS

In Q.101, ask the mother if there are any nets for sleeping. Circle the code corresponding to the response given. If 'No', skip to the next sub-module. In Q.102, enter the number of mosquito nets the household has. If more than 7, record '7'.

Q.103 IDENTIFYING TREATMENT OF NETS

Read the name of each brand of long-lasting nets in turn: "Is the net (are any of the nets) Brand A? Is the net (are any of the nets) Brand B?" Read each brand name aloud and if the response is 'Yes', circle the corresponding code. Then proceed to ask about the pre-treated nets: "Is the net (are any of the nets) Brand C? Is the net (are any of the nets) Brand D?"

If the respondent is not sure whether a net is one of these brands, try to observe the net, if possible. If it is not possible to observe the net(s), use the pictures you were given to aid in identification.

When you finish asking about the brands of nets from A to D, ask the respondent if there is any other brand of net. If 'Yes', code Q.6E, and write down the brand of the net. If there is another net for which the respondent does not know the brand, code 'Yes' for Q.6F.

Q.104: CHECK Q.103 FOR BRANDS OF NETS IN THE HOUSEHOLD

Go through the list in Q.103 in order, and stop when you are able to check one of the three boxes in Q.104. Follow the instructions below for the first box checked. Only one of the following three boxes should be checked.

- If a long-lasting treated net (brand A or brand B) was mentioned, check box 1 and skip to Q.109
- If either of the pre-treated nets (brand C or brand D) was mentioned, check box 2 and skip to Q.106.
- If any other net, or an unknown brand was mentioned, check box 3 and continue to Q.105 to learn more about the net.

Q.105 TREATMENT OF OTHER NETS

This question is only asked about any nets other than the long-lasting and pre-treated nets. With this question, we try to learn whether the net was actually treated with an insecticide when the household obtained it. Note that the question should refer to the net most recently obtained. If the household has only one net, you do not need to specify (MOST RECENT) when asking the question.

Q.106 HOW MANY MONTHS AGO WAS THE (MOST RECENT) NET OBTAINED?

This question is only asked about pre-treated (*not* permanently treated) nets – that is, brand C or brand D, and all other nets. If the household owns more than one of these types of nets, we are interested in the net that was acquired most recently. Record the number of months in the space provided. If the net was obtained within the last month, enter '00' in the space provided.

If the net was obtained more than 2 years ago, circle '95'. If the respondent does not know the exact number of months, probe to obtain the best estimate. If the respondent says 'a year ago', probe to try to determine if the net was obtained exactly 12 months ago, or earlier or later. Circle '98' for 'Not sure' only if the respondent cannot even estimate how long ago the net was obtained.

Q.107 TREATMENT OF NETS AFTER PURCHASE

Make sure that the respondent understands that you don't mean simply 'washing the net' or spraying it with insecticide from a can or canister. We want to know whether the net was soaked or dipped in an insecticide. Circle the code corresponding to the answer given. If 'No' or 'DK' ('Doesn't know'), skip to the next sub-module.

Q.108 LAST TREATMENT OF THE NETS

If the last time was within the last 2 years (24 months), record the number of months ago in the space provided. If the last time was less than 1 month ago, record '00'. If the last time was more than 2 years ago, circle '95'. If the respondent does not know the number of months, probe to obtain his/her best estimate. Circle '98' for 'Not sure' only if the respondent cannot even estimate when the net was last soaked or dipped.

Q.109 CHILD SLEPT UNDER NET THE PREVIOUS NIGHT

Ask the mother who slept under a mosquito net the previous night and circle the code corresponding to the answer given. Use probing questions, if necessary. If the respondent answers that anyone other than the child or no one slept under the net the previous night, skip to the next sub-module.

You will have asked about mosquito nets in the household during the previous series of questions. Some similar questions are asked here, from Q.110-115. Note that these questions are asked of the net the child slept under the previous night, which might not necessarily be the mosquito net for which detailed information was collected in the previous questions. If the child slept under a net the previous night, you must ask the mother both sets of questions.

Q.110 HOW LONG AGO DID YOUR HOUSEHOLD OBTAIN THE MOSQUITO NET?

If the net that the child slept under the previous night was obtained within the last 2 years (24 months), calculate the number of months from the respondent's answer and record the number of months in the space provided. If the net was obtained within the last month, enter '00' in the spaces provided.

If the net was obtained more than 2 years ago, circle '95'. If the respondent does not know the exact number of months, probe to obtain the best estimate. If the respondent says 'a year ago', probe to try to determine if the net was obtained exactly 12 months ago, or earlier or later. Circle '98' for 'Not sure' only if the respondent cannot even estimate how long ago the net was obtained.

Q.111 BRAND OF NET

Unlike the Q.103, in Q.111 you should ask the mother to identify the brand of only the net that the child slept under the previous night. If the mother is not sure whether a net is one of these brands, try to observe the net, if possible. If it is not possible to observe the net(s), use the pictures you were given to aid in identification.

If it is a permanently treated net (Brand A or Brand B), skip to the next sub-module. If it is a pre-treated net (Brand C or Brand D), skip to Q.114.

Q.112 TREATMENT OF NETS BEFORE PURCHASE

Circle the code corresponding to the answer given.

Q.113 TREATMENT OF NETS AFTER PURCHASE

Make sure that the respondent understands that you don't mean simply 'washing the net' or spraying it with insecticide from a can or canister. We want to know whether the net was soaked or dipped in an insecticide. Circle the code corresponding to the answer given. If 'No' or 'DK', skip to the next sub-module.

Q.114 LAST TREATMENT OF THE NETS

If the last time was within the last 2 years (24 months), record the number of months ago in the space provided. If the last time was less than 1 month ago, record '00'. If the last time was more than 2 years ago, circle '95'. If the respondent does not know the number of months, probe to obtain his/her best estimate. Circle '98' for 'Not sure' only if the respondent cannot even estimate when the net was last soaked or dipped. If the respondent says 'a year ago', probe to try to determine if the net was obtained exactly 12 months ago, or earlier or later.

SUB-MODULE A: MEASURING ITN USE WITHOUT A NET ROSTER

IDENTIFICATION	
CLUSTER NUMBER	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>
HOUSEHOLD NUMBER	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>
RECORD NUMBER.....	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>

DATE OF INTERVIEW ___/___/___ (dd/mm/yyyy)	
AGE OF CHILD (IN MONTHS).....	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>
CHILD'S DATE OF BIRTH ___/___/___ (dd/mm/yyyy)	
SEX OF CHILD (1=MALE, 2=FEMALE)	<input style="width: 20px; height: 20px;" type="text"/>

101	Does your household have any mosquito nets that can be used while sleeping?	YES.....1 NO.....2	→ END																																												
102	How many mosquito nets does your household have? IF 7 OR MORE NETS, RECORD '7'.	NUMBER OF NETS <input style="width: 30px; height: 20px;" type="text"/>																																													
103	Is the net (are any of the nets any of the following brands? [NOTE: INSERT BRAND NAMES OF THE DIFFERENT TYPES OF NETS AVAILABLE IN THE COUNTRY] READ EACH BRAND NAME, SHOW PICTURE CARD, AND CIRCLE CODES FOR YES OR NO FOR EACH BRAND. IF POSSIBLE OBSERVE THE NET TO VERIFY THE BRAND. LONG-LASTING TREATED NETS: A: Brand A? B: Brand B? PRE-TREATED NETS: C: Brand C? D: Brand D? OTHER NETS: E: Any other brand of net? F: An unknown brand of net?	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%; text-align: center;">YES</th> <th style="width: 10%; text-align: center;">NO</th> <th style="width: 10%; text-align: center;">DK</th> </tr> </thead> <tbody> <tr> <td colspan="4">LONG-LASTING TREATED NETS:</td> </tr> <tr> <td>Brand A.....</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">9</td> </tr> <tr> <td>Brand B.....</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">9</td> </tr> <tr> <td colspan="4">PRE-TREATED NETS:</td> </tr> <tr> <td>Brand C.....</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">9</td> </tr> <tr> <td>Brand D.....</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">9</td> </tr> <tr> <td colspan="4">OTHER BRAND:</td> </tr> <tr> <td>OTHER.....</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td></td> </tr> <tr> <td style="text-align: center;">(SPECIFY)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>UNKNOWN BRAND.....</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td></td> </tr> </tbody> </table>		YES	NO	DK	LONG-LASTING TREATED NETS:				Brand A.....	1	2	9	Brand B.....	1	2	9	PRE-TREATED NETS:				Brand C.....	1	2	9	Brand D.....	1	2	9	OTHER BRAND:				OTHER.....	1	2		(SPECIFY)				UNKNOWN BRAND.....	1	2		
	YES	NO	DK																																												
LONG-LASTING TREATED NETS:																																															
Brand A.....	1	2	9																																												
Brand B.....	1	2	9																																												
PRE-TREATED NETS:																																															
Brand C.....	1	2	9																																												
Brand D.....	1	2	9																																												
OTHER BRAND:																																															
OTHER.....	1	2																																													
(SPECIFY)																																															
UNKNOWN BRAND.....	1	2																																													
104	<p>CHECK Q103 FOR BRAND OF NET(S). GO THROUGH THE ABOVE LIST IN THE ORDER UNTIL ONE BOX IS CHECKED AND FOLLOW INSTRUCTIONS:</p> <p>A. <input type="checkbox"/> LONG-LASTING TREATED NET (BRAND A OR BRAND B) MENTIONED? → GO TO Q109</p> <p>B. <input type="checkbox"/> PRE-TREATED NETS (BRAND C OR BRAND D) MENTIONED? → GO TO Q106</p> <p>C. <input type="checkbox"/> OTHER NET (BRAND E, BRAND F, OR ANY OTHER NET OR AN UNKNOWN BRAND) MENTIONED? → GO TO Q105</p>																																														

105	When you got the (most recent) net, was it already treated with an insecticide to kill or repel mosquitoes?	YES.....1 NO.....2 DON'T KNOW.....9	
106	How many months ago was that net obtained? IF LESS THAN 1 MONTH AGO, RECORD '00'. IF ANSWER IS "12 MONTHS" OR "1 YEAR", PROBE TO DETERMINE IF NET WAS OBTAINED EXACTLY 12 MONTHS AGO OR EARLIER OR LATER.	MONTHS <input type="text"/> <input type="text"/> MORE THAN 2 YEARS AGO.....95 DON'T KNOW.....98	
107	Since you got the net(s) has it (have any) of these nets ever been soaked or dipped in a liquid to kill/repel mosquitoes?	YES.....1 NO.....2 DON'T KNOW.....9	→ 109 → 109
108	How long ago was the most recent soaking/dipping done? IF LESS THAN 1 MONTH, RECORD '00'. IF ANSWER IS "12 MONTHS" OR "1 YEAR", PROBE TO DETERMINE IF NET WAS TREATED EXACTLY 12 MONTHS AGO OR EARLIER OR LATER.	MONTHS <input type="text"/> <input type="text"/> MORE THAN 2 YEARS AGO.....95 DON'T KNOW.....98	
109	Who slept under a bed net last night? PROBE: Anyone else? If ANYONE OTHER THAN THE CHILD IS MENTIONED, RECORD OTHER.	NO ONE.....0 CHILD (NAME).....1 OTHER.....2	→ END → END
110	How long ago did your household obtain the mosquito net that (NAME) slept under? IF LESS THAN 1 MONTH AGO, RECORD '00'. IF ANSWER IS "12 MONTHS" OR "1 YEAR", PROBE TO DETERMINE IF NET WAS OBTAINED EXACTLY 12 MONTHS AGO OR EARLIER OR LATER.	MONTHS <input type="text"/> <input type="text"/> MORE THAN 2 YEARS AGO.....95 DON'T KNOW.....98	

111	<p>What brand is the net that (NAME) slept under last night?</p> <p>[NOTE: INSERT BRAND NAMES OF THE DIFFERENT TYPES OF NETS AVAILABLE IN THE COUNTRY]</p> <p>IF THE RESPONDENT DOES NOT KNOW THE BRAND OF THE NET, SHOW PICTORIALS, OR IF POSSIBLE, OBSERVE THE NET</p> <p>.</p> <p>LONG-LASTING TREATED NETS: Brand A? Brand B?</p> <p>PRE-TREATED NETS: Brand C? Brand D?</p> <p>OTHER NETS: Any other brand of net?</p>	<p>LONG-LASTING TREATED NETS: Brand A.....1 Brand B.....2</p> <p>PRE-TREATED NETS: Brand C.....3 Brand D.....4</p> <p>OTHER BRAND: OTHER.....5 (SPECIFY)</p> <p>DON'T KNOW BRAND.....9</p>	<p>→ END → END</p> <p>→ 114 → 114</p>
112	<p>When you got the net that (NAME) slept under last night, was it already treated with an insecticide to kill or repel mosquitoes?</p>	<p>YES.....1 NO.....2 DON'T KNOW.....9</p>	
113	<p>Since you got the net has it ever been soaked or dipped in a liquid to kill/repel mosquitoes?</p>	<p>YES.....1 NO.....2 DON'T KNOW.....9</p>	<p>→ END → END</p>
114	<p>How long ago was the most recent soaking/dipping done?</p> <p>IF LESS THAN 1 MONTH, RECORD '00'. IF ANSWER IS "12 MONTHS" OR "1 YEAR", PROBE TO DETERMINE IF NET WAS TREATED EXACTLY 12 MONTHS AGO OR EARLIER OR LATER.</p>	<p>MONTHS <input type="text"/> <input type="text"/></p> <p>MORE THAN 2 YEARS AGO.....95</p> <p>DON'T KNOW.....98</p>	

TABULATION PLAN FOR SUB-MODULE A: MEASURING ITN USE WITHOUT A NET ROSTER

Indicator	How to Calculate the Indicator
<p>ITN Ownership: Percentage of households of children age 0-23 months that own at least one insecticide-treated bed net</p>	<p>Number of households of children age 0-23 months that own at least one insecticide-treated bednet (Q101=1) AND (Q102=>1) AND (Q104=A) OR ((Q104=B) AND (Q106<=12)) OR ((Q104=C) AND (Q105=1) AND (Q106<12)) OR ((Q104=B or C) AND (Q107=1) AND (Q108<12))</p> <hr/> <p>Number of households of children 0-23 months in the survey</p> <p style="text-align: right;">X 100</p>
<p>ITN Use by Under Two: Percentage of children 0-23 months who slept under an insecticide-treated bednet the previous night</p>	<p>Number of children age 0-23 months who slept under an insecticide treated bednet the previous night (Q101=1) AND (Q109=1) AND (Q111<=2) OR ((Q110<12) AND (Q111=3 or 4)) OR ((Q111=3, 4, 5, or 9) AND (Q113=1) AND (Q114<12))</p> <hr/> <p>Number of children age 0-23 months in the survey</p> <p style="text-align: right;">X 100</p>
<p>Children protected by ITN Use or IRS: Percentage of children age 0-23 months who slept under an ITN the previous night or in a house sprayed with IRS in the last 12 months</p> <p>** This indicator includes questions from sub-module A and sub-module C</p>	<p>Number of children age 0-23 months who slept under an insecticide treated bednet the previous night (Q101=1) AND (Q109=1) AND (Q111<=2) OR ((Q110<12) AND (Q111=3 or 4)) OR ((Q111=3, 4, 5, or 9) AND (Q113=1) AND (Q114<12))</p> <p>OR slept in a house sprayed with IRS in the last 12 months (Q301=1) AND (Q304<12)**</p> <hr/> <p>Number of children age 0-23 months in the survey</p> <p style="text-align: right;">X 100</p>

SUB-MODULE B: MEASURING ITN USE WITH A NET ROSTER

INTERVIEWER INSTRUCTIONS

USING A HOUSEHOLD LISTING

Be sure to read the introductory sentence at the top of the page before continuing with the question in Column (2).

COLUMN (1): LINE NUMBER

This is the line number used to identify each person listed in the schedule.

COLUMN (2): USUAL RESIDENTS AND VISITORS

The first step in completing the Household Listing is to get a complete list of all persons who usually live in the household and any visitors. You will always list the head of the household first. Other persons can be listed in any order. To get a correct listing, you will have to know what we mean by a member of the household and what we mean by a visitor.

MEMBER OF THE HOUSEHOLD:

A household is a person or a group of persons who usually live and eat together. This is not the same as a family. A family includes only people who are related, but a household includes any people who live together, whether or not they are related. For example, three unrelated men who live and cook meals together would not be considered one family, but they would be considered one household. A member of the household is any person who usually lives in the household.

VISITOR:

A visitor is someone who is not a member of the household but who stayed in the household the night before the day you are conducting the interview. If he or she stayed in the household the previous night, he or she should be listed on the Household Schedule. However, to qualify for the sample, the mother of a child under 24 months should be a member of the household.

Sometimes it is not easy to know whom to include in the household and whom to leave out. Here are some examples—

- A woman lists her husband as head of the household, but he lives somewhere else. If he does not usually live in the household you are interviewing, and he did not stay there the previous night, he should not be included in the listing.
- Sometimes people eat in one household and sleep in another. Consider the person to be a member of the household where she/he sleeps.
- A person living alone is a household.
- A servant is a member of the household if she/he usually lives and sleeps in the household.

Anyone included in the household listing has to be either a usual resident of that household— Column (5) is YES—or to have spent the previous night in the household—Column (6) is YES. As your respondent lists the names, write them down, one in each row in Column (2) of the table. Begin with the head of the household, that is, the person who is considered responsible for the household. This person may be determined on the basis of age (older), sex (generally, but not necessarily, male), economic status (main provider), or some other characteristic, but the person who is listed as the head of the household has to be someone who usually lives in the household. It is up to the respondent to define who is the head.

Since there is not much room on the form, you may not be able to write the full names for each person; so, if the last name is the same for several people, you can use ditto marks—

01 Alfred Johnson
02 Miriam "
03 Sarah "

When you have written all of the names, you want to be certain you have included everyone who should be listed before continuing with the rest of the questionnaire. To do this, ask the questions in the box at the end of the second page of the Household Schedule. If the answer to any is YES, add those persons' names to the list.

For each person, the relationship to the head of the household and the sex should be recorded before asking the name of the next person. After completing Columns (2) through (4) for each person, start with the person listed on Line 01 and move across the page, asking each appropriate question in Columns (5) through (7). When you have completed the information for the person on Line 01, move to the person listed on Line 02, and so forth.

COLUMN (3): RELATIONSHIP

Record the relationship of the person listed to the head of the household. Use the codes at the bottom of the first page of the Household Schedule. Be particularly careful in doing this if the respondent is not the head of the household; make sure that you record the relationship of each person to the household head, not the relationship to the respondent. For example, if the respondent is the wife of the head of the household and she says that Sola is her brother, then Sola should be coded as OTHER RELATIVE not BROTHER OR SISTER, because Sola is a brother-in-law of the head of the household. If the head of the household is married to a woman who has a child from a previous marriage, that child's relationship to the head of the household should be coded as ADOPTED/FOSTER/STEPCHILD.

COLUMN (4): SEX

Simply circle '1' for males and '2' for females.

COLUMNS (5) AND (6): RESIDENCE

If the person usually lives in the household, circle '1' for YES in Column (5). We call someone who usually lives in the household a member of the household. Someone who does not usually live in the household but who stayed there the night before the interview is called a visitor. If the person stayed in the household the night before you are conducting the interview, circle '1' for YES in Column (6). A usual member of the household may or may not have stayed in the household the night before.

If after asking these residence questions you learn that the person does not usually live there—Column (5) is NO—and did not stay there the previous night—Column (6) is also NO—you will have to delete this person from the listing because the person is neither a member nor a visitor. For example, imagine you had listed Mary Worth as Line 04 and then learned that she does not usually live there and she did not stay there the previous night. You would draw a line through Line 04, cancelling Mary from the listing. Then you would have to renumber the subsequent line numbers to make them correct—in Columns (1) and (8), change Line 05 to 04, 06 to 05, and so forth.

COLUMN (7): AGE

You are to obtain each person's age in completed years, that is, the age at the time of the last birthday. If there is an infant less than one year old, record the age as '00' years. If the person is 95 years old or older, record the age as '95.'

Q.201-202 HOUSEHOLD OWNERSHIP OF NETS

In Q.201, ask the mother if there are any nets for sleeping. Circle the code corresponding to the response given. If 'No', skip to the next sub-module. In Q.202, enter the number of mosquito nets the household has. If more than 7, record '7'. Note that 'cake covers' or baby nets that are used to keep flies off infants, usually during the daytime, are not considered mosquito nets. These nets cannot be treated with insecticide. Window screens are also not considered mosquito nets.

OVERVIEW OF Q.203-211: USE OF MOSQUITO NETS

For each mosquito net, questions are asked about when the net was obtained, the brand of the net, soaking or dipping of the net, and use of the net the night before the interview. If the household has more than three nets, take a fresh Questionnaire, fill in all the information on the cover page and write

CONTINUATION on the top. Then on the second Questionnaire, change Net #1 to Net #4 and, if necessary, change Net #2 to Net #5, and so on. Then write the information for each of these nets. Return to the first Questionnaire to complete the interview.

Q.203: OBSERVATION OF EACH MOSQUITO NET

Ask the respondent whether she could show you each of the mosquito nets in the dwelling. In Q.203, record whether or not you were able to observe each net. Starting with the first net, ask Qs. 203 through 211 about the net, filling in the answers for the entire column under the heading "NET #1" (see explanations for specific questions below). Some respondents may refuse to let you see their bedrooms for personal reasons. In such cases, try to probe as much as you can, by asking about colors, shapes, and promoted brand names, to help the respondents provide correct information. To distinguish each net, you may use phrases like, "Now let's talk about the first net...."

When you are finished asking about NET #1, ask the respondent to show you the next net, or "NET #2," and follow the same procedure (i.e., asking Qs. 204 through 209 and filling out the entire column under the heading "NET #2"). Do this for each net in the dwelling. Although asking questions about every mosquito net may seem tedious, it is very important to get accurate and complete information on each and every net. After you have recorded the information on all mosquito nets, move on to the next section.

Q. 204: WHEN MOSQUITO NET WAS OBTAINED

Ask the respondent how long ago the mosquito net was obtained. If the net was obtained more than three years ago, circle '95.' Otherwise, record the number of months ago in the boxes. If the respondent does not know the exact number of months, probe to obtain the best estimate. If it was obtained within the three years preceding the interview, calculate the number of months from the respondent's answer. For example, if the respondent says "we bought the net two and a half years ago during the planting season," the first step is to add 12 months for each year mentioned (i.e., 1 year = 12 months, so 2 years = 12 months + 12 months for a total of 24 months). The season mentioned by the respondent was the "planting season." Using this memory cue, ask the respondent to be more precise about which month the net was purchased (i.e., "at the beginning, middle, or end of planting season") or which planting season, if there is more than one. If the respondent says that she/he bought it "at the beginning of the planting season in April" and it is October at the time of the interview, count the number of months between October and April, not counting the months of purchase (i.e., October, September, August, July, June, and May = 6 months). Then add the sums (i.e., 24 months + 6 months = 30 months). Mark "30" using both boxes in Q. 204.

Q. 205: BRAND OF NETS

During training, you will be shown all of the common mosquito nets that are available in the country. A picture of the different types of nets available in the country may also be provided for reference during interviews. Use the given pictures of the nets to identify the type of net in the dwelling, and circle the corresponding number on the questionnaire.

Qs. 206 THROUGH 208: TREATMENT WITH INSECTICIDE

If the mosquito net is the type that does not need any retreatment for at least three years (PERMANENT NET in Q. 205), you should not ask these questions (skip directly to Q. 209). For pretreated nets, skip to Q. 207. For every other type of mosquito net, ask whether the net had already been treated with an insecticide when she/he got it and whether it has ever been soaked or dipped in a liquid to repel and/or kill mosquitoes or bugs. Make sure that the respondent understands that you do not mean simply "washing the net" or spraying it with insecticide from a can or canister. We want to know whether the net was soaked or dipped in an insecticide and when the most recent soaking or dipping took place. For nets that have been soaked or dipped since they were obtained, ask how long ago the net was last soaked or dipped, and record the answer in Q. 208. If the last time was within the two years preceding the interview, record the number of months ago in the boxes. If the last time was more than two years ago, circle '95.' If the respondent does not know the number of months, probe to obtain a best estimate. Circle '98' for NOT SURE only if the respondent cannot even estimate when the net was last soaked or dipped.

Qs. 209 AND 210: SLEEPING UNDER THE MOSQUITO NET

These questions help us to link a particular mosquito net to the person(s) who slept under it the night before the survey. Ask the respondent if anyone slept under each mosquito net last night and mark the questionnaire with YES, NO, or NOT SURE according to her/his response. If the respondent answers YES, ask who slept under the net last night and find the name of the person mentioned on the household listing. Mark the line number of that person from the household listing in the box corresponding to Q. 209 for that net. If more than five persons slept under a single net the night before the survey, record only the first five persons mentioned by the respondent. For each person mentioned, record the name and corresponding line number from Column (1) in the Household Schedule.

Q. 211: REPEAT THE ABOVE PROCESS FOR EACH MOSQUITO NET OBSERVED

After the entire column has been filled in for NET #1, move back to Q. 203 to observe and ask the respondent about the next mosquito net in the household (i.e., NET #2). Continue this process until all of the nets have been assessed according to Qs. 204 through 210.

SUB-MODULE B: MEASURING ITN USE WITH A NET ROSTER

HOUSEHOLD LISTING

Now we would like some information about the people who usually live in your household or who are staying with you now.

LINE NO.	USUAL RESIDENTS AND VISITORS	RELATIONSHIP TO HEAD OF HOUSEHOLD	SEX	RESIDENCE		AGE
	Please give me the names of the persons who usually live in your household who stayed here last night, starting with the head of the household	What is the relationship of (NAME) to the head of the household*	Is (NAME) male or female	Does (NAME) usually live here?	Did (NAME) stay here last night?	How old is name?
(1)	(2)	(3)	(4)	(5)	(6)	(7)
			M F	YES NO	YES NO	IN YEARS
01		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>
02		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>
03		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>
04		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>
05		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>
06		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>
07		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>
08		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>
09		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>
10		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>

*CODES FOR Q.3 – RELATIONSHIP TO HEAD OF HOUSEHOLD
 01= HEAD 06= PARENT 11=NOT RELATED
 02= WIFE/HUSBAND 07= PARENT-IN-LAW 98= DON'T KNOW
 03= SON/DAUGHTER 08= BROTHER OR SISTER
 04= SON-IN-LAW OR 09= OTHER RELATIVE
 DAUGHTER-IN-LAW 10= ADOPTED/FOSTER/
 05=GRANDCHILD STEP CHILD

TICK HERE IF CONTINUATION SHEET USED <input type="checkbox"/>
Just to make sure that I have a complete listing:
1) Are there any other persons such as small children or infants that we have not listed? YES <input type="checkbox"/> ENTER EACH IN TABLE NO <input type="checkbox"/>
2) In addition, are there any other people who may not be members of your family, such as domestic servants, lodgers or friends who usually live here? YES <input type="checkbox"/> ENTER EACH IN TABLE NO <input type="checkbox"/>
3) Are there any guests or temporary visitors staying here, or anyone else who stayed here last night, who have not been listed? YES <input type="checkbox"/> ENTER EACH IN TABLE NO <input type="checkbox"/>

No.	Questions and Filters	Coding categories	Skip
201	Does your household have any mosquito nets that can be used while sleeping?	YES.....1 NO.....2	→ END
202	How many mosquito nets does your household have? IF 7 OR MORE NETS, RECORD '7'.	NUMBER OF NETS <input style="width: 40px; height: 20px;" type="text"/>	

NET ROSTER

203	ASK RESPONDENT TO SHOW YOU THE NET(S) IN THE HOUSEHOLD. IF MORE THAN THREE NETS, USE ADDITIONAL QUESTIONNAIRES	NET #1	NET #2	NET#3
		OBSERVED.....1 NOT OBSERVED.....2	OBSERVED.....1 NOT OBSERVED.....2	OBSERVED.....1 NOT OBSERVED.....2
204	How long ago did you household obtain the mosquito net?	MOS AGO <input style="width: 30px; height: 20px;" type="text"/> MORE THAN 3 YEARS AGO.....95	MOS AGO <input style="width: 30px; height: 20px;" type="text"/> MORE THAN 3 YEARS AGO.....95	MOS AGO <input style="width: 30px; height: 20px;" type="text"/> MORE THAN 3 YEARS AGO.....95
205	OBSERVE OR ASK THE BRAND OF MOSQUITO NET. IF THE BRAND IS UNKNOWN AND YOU CANNOT OBSERVE THE NET, SHOW PICTURES OF TYPICAL NET TYPES/BRANDS TO RESPONDENT.	PERMANENT NET BRAND A.....11- BRAND B.....12- (SKIP TO 209) ← PRETREATED NET BRAND C.....21- BRAND D.....22- (SKIP TO 207) ← OTHER.....31 DK BRAND.....98	PERMANENT NET BRAND A.....11- BRAND B.....12- (SKIP TO 209) ← PRETREATED NET BRAND C.....21- BRAND D.....22- (SKIP TO 207) ← OTHER.....31 DK BRAND.....98	PERMANENT NET BRAND A.....11- BRAND B.....12- (SKIP TO 209) ← PRETREATED NET BRAND C.....21- BRAND D.....22- (SKIP TO 207) ← OTHER.....31 DK BRAND.....98
206	When you got the net, was it already factory-treated with an insecticide to kill or repel mosquitoes?	YES.....1 NO.....2 NOT SURE.....9	YES.....1 NO.....2 NOT SURE.....9	YES.....1 NO.....2 NOT SURE.....9
207	Since you got the mosquito net, was it ever soaked or dipped in a liquid to kill or repel mosquitoes or bugs?	YES.....1 NO.....2- NOT SURE.....9- (SKIP TO 209) ←	YES.....1 NO.....2- NOT SURE.....9- (SKIP TO 209) ←	YES.....1 NO.....2- NOT SURE.....9- (SKIP TO 209) ←

208	<p>How long ago was the net last soaked or dipped?</p> <p>IF LESS THAN 1 MONTH AGO, RECORD '00' MONTHS. IF LESS THAN 2 YEARS AGO, RECORD MONTHS AGOE. IF '12 MONTHS AGO' OR '1 YEAR AGO' PROBE FOR EXACT NUMBER OF MONTHS.</p>	<p>MOS AGO <input type="text"/> <input type="text"/></p> <p>MORE THAN 2 YEARS AGO.....95 NOT SURE.....98</p>	<p>MOS AGO <input type="text"/> <input type="text"/></p> <p>MORE THAN 2 YEARS AGO.....95 NOT SURE.....98</p>	<p>MOS AGO <input type="text"/> <input type="text"/></p> <p>MORE THAN 2 YEARS AGO.....95 NOT SURE.....98</p>
209	<p>Did anyone sleep under this mosquito net last night?</p>	<p>YES.....1</p> <p>NO.....2- NOT SURE.....9- (SKIP TO 211) ←</p>	<p>YES.....1</p> <p>NO.....2- NOT SURE.....9- (SKIP TO 211) ←</p>	<p>YES.....1</p> <p>NO.....2- NOT SURE.....9- (SKIP TO 211) ←</p>
210	<p>Who slept under this mosquito net last night?</p> <p><i>PROBE: Anyone else?</i></p> <p>RECORD THE RESPECTIVE LINE NUMBER FROM THE HOUSEHOLD SCHEDULE</p>	<p>NAME _____</p> <p>LINE NO. <input type="text"/> <input type="text"/></p> <p>NAME _____</p> <p>LINE NO. <input type="text"/> <input type="text"/></p> <p>NAME _____</p> <p>LINE NO. <input type="text"/> <input type="text"/></p> <p>NAME _____</p> <p>LINE NO. <input type="text"/> <input type="text"/></p> <p>NAME _____</p> <p>LINE NO. <input type="text"/> <input type="text"/></p>	<p>NAME _____</p> <p>LINE NO. <input type="text"/> <input type="text"/></p> <p>NAME _____</p> <p>LINE NO. <input type="text"/> <input type="text"/></p> <p>NAME _____</p> <p>LINE NO. <input type="text"/> <input type="text"/></p> <p>NAME _____</p> <p>LINE NO. <input type="text"/> <input type="text"/></p> <p>NAME _____</p> <p>LINE NO. <input type="text"/> <input type="text"/></p>	<p>NAME _____</p> <p>LINE NO. <input type="text"/> <input type="text"/></p> <p>NAME _____</p> <p>LINE NO. <input type="text"/> <input type="text"/></p> <p>NAME _____</p> <p>LINE NO. <input type="text"/> <input type="text"/></p> <p>NAME _____</p> <p>LINE NO. <input type="text"/> <input type="text"/></p>
211		<p>GO BACK TO Q.203 FOR NEXT NET; OR, IF NO MORE NETS, END THIS SUB-MODULE.</p>	<p>GO BACK TO Q.203 FOR NEXT NET; OR, IF NO MORE NETS, END THIS SUB-MODULE.</p>	<p>GO BACK TO Q.203 IN THE FIRST COLUMN OF NEW QUESTIONNAIRE; OR, IF NO MORE NETS, END THIS SUB-MODULE.</p>

TABULATION PLAN FOR SUB-MODULE B: MEASURING ITN USE WITH A NET ROSTER

Indicator	How to Calculate the Indicator
<p>ITN Ownership: Percentage of households of children age 0-23 months that own at least one insecticide-treated bed net</p>	<p>Number of households of children age 0-23 months that own at least one insecticide-treated bed net (Q202=>1) AND (Q205=11 or 12) OR (Q204<12 AND (Q205=21, 22)) OR (Q204<12 AND (Q205= 31 or 98) AND Q206=1) OR ((Q205= 21, 22, 31, 98) AND (Q207=1) AND (Q208<12))</p> <hr/> <p>X 100</p> <p>Number of households on children age 0-23 months in the survey</p>
<p>ITN Use by Under Two: Percentage of children 0-23 months who slept under an insecticide-treated bednet the previous night</p> <p>** The term “effective antimalarial” should be based on national protocol. Modify the tabulation according to national protocol.</p>	<p>Number of children age 0-23 months who slept under an insecticide treated bednet the previous night</p> <p>The name of the reference child must be listed in Q210 AND (Q205=11 or 12) OR (Q204<12 AND (Q205=21, 22)) OR (Q204<12 AND (Q205= 31 or 98) AND Q206=1) OR ((Q205= 21, 22, 31, 98) AND (Q207=1) AND (Q208<12))</p> <hr/> <p>X 100</p> <p>Number of children age 0-23 months in the survey</p>
<p>Children protected by ITN Use or IRS: Percentage of children age 0-23 months who slept under an ITN the previous night or in a house sprayed with IRS in the last 12 months</p> <p>** This indicator includes questions from both sub-module B and sub-module C</p>	<p>Number of children age 0-23 months who slept under an insecticide treated bednet the previous night</p> <p>The name of the reference child must be listed in Q210 AND (Q205=11 or 12) OR (Q204<12 AND (Q205=21, 22)) OR (Q204<12 AND (Q205= 31 or 98) AND Q206=1) OR ((Q205= 21, 22, 31, 98) AND (Q207=1) AND (Q208<12))</p> <p>OR slept in a house sprayed with IRS within the last 12 months (Q301=1) AND (Q304<12)**</p> <hr/> <p>X 100</p> <p>Number of children age 0-23 months in the survey</p>

SUB-MODULE C: OTHER MALARIA PREVENTION AND TREATMENT

INTERVIEWER INSTRUCTIONS

Q.301-304 INDOOR RESIDUAL SPRAYING

Qs. 301 through 304 should be retained in the questionnaire only in countries that have programs for indoor residual spraying. The questions focus on spraying of the interior walls that took place in the 12 months preceding the interview.

In Q.301, ask the mother if anyone has sprayed the interior walls of the house to repel against mosquitoes. If she says 'No' or 'Don't Know', skip Q.305.

In Q.302, ask the mother who sprayed the house. If the mother says 'Household Member', 'Other' or 'Don't Know', ask her Q.303, "Was it part of this campaign?" and show her the brochure from the government spraying campaign. If, in Q.302, the mother responds 'Government Worker/Program' or 'Private Company', skip to Q. 304.

If in Q.303, the mother responds 'Yes', then proceed to Q.304. If not, skip to Q.305.

Q. 305 MOTHERS KNOWLEDGE OF CHILD ILLNESS DANGER SIGNS

In Q. 305, record all answers given, and move to the next question.

Q. 306 ILL WITH A FEVER IN THE PAST TWO WEEKS

Circle the code corresponding to the answer given. Circle the code corresponding to 'Yes' only if the child has been ill with a fever at any time in the 2 weeks prior to the date of the interview. If the child has not been ill with a fever or the respondent doesn't know, skip to Q.316.

Q.307 CARE SEEKING FOR ILLNESS WITH FEVER

Circle the code corresponding to the answer given. If the mother says 'No', skip to Q. 313.

Q.308 FIRST PLACE OF ADVICE/TREATMENT

Circle the code corresponding to the answer given. If the source is a health facility, write the name of place in the left column.

Q. 309 DECISION-MAKER FOR FIRST PLACE OF ADVICE/TREATMENT

Circle all the codes corresponding with any answer given, and move on to the next question.

Q.310 SECONDARY CARE-SEEKING

Circle the code corresponding with the answer. If the mother responds 'No', skip to Q. 312.

Q.311 SECOND PLACE OF ADVICE/TREATMENT

Circle the code corresponding to the answer given. If the source is a health facility, write the name of place in the left column.

Q.312 DAYS TO CARE-SEEKING DURING ILLNESS WITH FEVER

Circle the code response to the answer given. If the mother sought care two or more days after the start of the fever, circle '2'.

Q. 313 TREATMENT FOR FEVER

Circle the code corresponding to the answer given. If the child did not take any medicine for the fever or malaria, or if the mother does not know, skip to Q.316.

Q.314 MEDICATION GIVEN FOR TREATMENT OF FEVER

Circle the codes corresponding to all medicines taken by the child to treat the fever, both antimalarials and other types of medicines such as acetaminophen that were provided or prescribed. If the respondent cannot remember the names of all the medicines the child took, use the following approach to probe for the correct names of the antimalarial and other types of medicines taken:

1. Ask to see the package of leftover medicines; some households keep popular antimalarial and other medicines at home.
2. Show the respondent a sample of each common antimalarial – from both public and private sources – in the original packages, in case some respondents remember the containers.
3. Use common brand names when asking the respondent about antimalarial medicines.

If the medicine not listed, circle 'X' and fill in the name in the space provided. If the mother/primary caretaker still doesn't know, circle 'Z'.

Q.315 INITIATION OF ANTI-MALARIALS

This question asks about the time interval between the beginning of the child's fever and when he/she took the first dose of an antimalarial medicine to treat the fever.

If multiple antimalarial medicines are mentioned in Q.314, name all antimalarials mentioned. Record the code for the day on which an antimalarial was given for the first time. If he/she started taking (the antimalarial) the same day the fever started, circle '0' for 'Same day'. If the antimalarial was first given the next day (the day after the fever began), circle '1' for 'Next day' and so on. If the respondent does not know how long after the fever started the child first took the antimalarial, circle '9'.

Q.316 ANTIMALARIALS DURING PREGNANCY

Circle the code corresponding to the answer given. Medicines to prevent malaria include only those medicines that a woman takes during pregnancy when she does not already have malaria. If the respondent took medicines during pregnancy when she did not already have malaria, continue to the next question.

If the respondent did not take any medicine to prevent her from getting malaria, circle '2'. If she does not know whether she received treatment to prevent malaria during her last pregnancy, circle '9' for 'DK'. In both cases, skip to Q.319.

If the respondent says that she had malaria or a fever during the pregnancy and was given medicines to treat the malaria or fever, this would not be considered preventive treatment. In such a case, circle '2' for 'No' and skip to Q.319.

Q.317 MEDICINE TO PREVENT MALARIA DURING PREGNANCY

Circle the codes corresponding to all medicines reported taken to prevent malaria during the pregnancy.

If the respondent cannot remember the name of the medicine taken, ask her to show you the package it came in. If she doesn't have the package, show her typical antimalarials and ask if she took any of them. If she mentions that during an antenatal visit she was given three tablets to take all at the same time in order to prevent malaria, circle 'A' on the assumption that she took SP/Fansidar, and move to the next question. For all other responses, skip to Q.319.

Q.318 DOSES OF SP/FANSIDAR DURING PREGNANCY

Record the number of times she took SP/fansidar during pregnancy in the space provided.

Q.319 SLEPT UNDER BEDNET WHILE PREGNANT

In Q.319, ask the mother to remember when she was pregnant with NAME if she ever slept under a bednet. Circle the code corresponding to the answer given. If the mother responds 'No' or 'Don't Remember', end this section of the interview.

Q.320 FREQUENCY OF BEDNET USE WHILE PREGNANT

Ask the mother to recall how often she slept under a bednet while she was pregnant with NAME. Circle the code corresponding to the answer given, and end this section of the interview.

307	Did you seek advice or treatment for the fever?	YES.....1 NO.....2	→ 313
308	Where did you first go for advice or treatment? IF SOURCE IS HOSPITAL, HEALTH CENTER, OR CLINIC, WRITE THE NAME OF THE PLACE. _____ (NAME OF PLACE)	<u>HEALTH FACILITY</u> HOSPITAL.....01 HEALTH CENTER.....02 HEALTH POST.....03 PVO CENTER.....04 CLINIC.....05 FIELD/COMMUNITY HEALTH WORKER.....06 OTHER HEALTH FACILITY _____.....07 (SPECIFY) <u>OTHER SOURCE</u> TRADITIONAL PRACTITONER.....08 SHOP.....09 PHARMACY.....10 COMMUNITY DISTRIBUTORS.....11 FRIEND/RELATIVE.....12 OTHER.....88 (SPECIFY)	
309	Who decided that you should go there for (NAME'S) illness? RECORD ALL MENTIONED.	RESPONDENT.....A HUSBAND/PARTNER.....B RESPONDENT'S MOTHER.....C MOTHER-IN-LAW.....D FRIENDS/NEIGHBORS.....E OTHER.....F (SPECIFY)	
310	Did you go anywhere else for advice or treatment for (NAME'S) fever?	YES.....1 NO.....2	→ 312

311	<p>Where did you go next for advice or treatment?</p> <p>IF SOURCE IS HOSPITAL, HEALTH CENTER, OR CLINIC, WRITE THE NAME OF THE PLACE.</p> <p>_____</p> <p>(NAME OF PLACE)</p>	<p><u>HEALTH FACILITY</u></p> <p>HOSPITAL.....01</p> <p>HEALTH CENTER.....02</p> <p>HEALTH POST.....03</p> <p>PVO CENTER.....04</p> <p>CLINIC.....05</p> <p>FIELD/COMMUNITY HEALTH WORKER.....06</p> <p>OTHER HEALTH FACILITY _____.....07</p> <p>(SPECIFY)</p> <p><u>OTHER SOURCE</u></p> <p>TRADITIONAL PRACTITONER.....08</p> <p>SHOP.....09</p> <p>PHARMACY.....10</p> <p>COMMUNITY DISTRIBUTORS.....11</p> <p>FRIEND/RELATIVE.....12</p> <p>OTHER_____.....88</p> <p>(SPECIFY)</p>	
312	<p>How many days after the fever began did you first seek treatment for (Name)?</p>	<p>SAME DAY.....0</p> <p>NEXT DAY.....1</p> <p>TWO OR MORE DAYS.....2</p>	
313	<p>At any time during the illness did (Name) take any drugs for the fever?</p>	<p>YES.....1</p> <p>NO.....2</p> <p>DON'T KNOW.....9</p>	<p>→ 316</p> <p>→ 316</p>
314	<p>What drugs did (Name) take? Any other drugs? RECORD ALL MENTIONED.</p> <p>ASK TO SEE DRUG(S) IF TYPE OF DRUG IS NOT KNOWN. IF TYPE OF DRUG IS STILL NOT DETERMINED, SHOW TYPICAL ANTIMALARIAL DRUGS TO RESPONDENT **COUNTRY SPECIFIC BASED ON NATIONAL MALARIAL PROTOCOL.</p>	<p><u>ANTI-MALARIAL</u></p> <p>SP/FANSIDAR.....A</p> <p>CHLOROQUINE.....B</p> <p>AMODIAQUINE.....C</p> <p>QUININE.....D</p> <p>ACT.....E</p> <p><u>OTHER DRUGS</u></p> <p>ASPRIN.....F</p> <p>PARACETAMOL.....G</p> <p>OTHER_____X</p> <p>(SPECIFY)</p> <p>DON'T KNOW.....Z</p>	<p>→ 316</p> <p>→ 316</p> <p>→ 316</p> <p>→ 316</p>

315	How long after the fever started did (NAME) start taking the medicine?	SAME DAY.....0 NEXT DAY.....1 2 DAYS AFTER THE FEVER.....2 3 DAYS AFTER THE FEVER.....3 4 OR MORE DAYS AFTER THE FEVER.....4 DON'T KNOW.....9			
316	When you were pregnant with (NAME), did you take any drugs in order to prevent you from getting malaria?	YES.....1 NO.....2 DON'T KNOW.....9	→ 319 → 319		
317	Which drugs did you take to prevent malaria? RECORD ALL METNIONED. IF TYPE OF DRUG IS NOT DETERMINED, SHOW TYPEICAL ANTIMALARIAL DRUGS TO RESPONDENT.	SP/FANSIDAR.....A CHLOROQUINE.....B OTHER.....X DON'T KNOW.....Z	→ 319 → 319 → 319		
318	How many times did you take SP/Fansidar during this pregnancy?	TIMES <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> DON'T KNOW.....98			
319	When you were pregnant with NAME, did you sleep under a bednet?	YES.....1 NO.....2 DON'T KNOW.....9	→ END → END		
320	Did you sleep under the net all the time, most of the time, some of the time, or rarely?	ALL OF THE TIME.....1 MOST OF THE TIME.....2 SOME OF THE TIME.....3 RARELY.....4	END OF SUB-MODULE C		

TABULATION PLAN FOR SUB-MODULE C: MALARIAL PREVENTION AND TREATMENT

Indicator	How to Calculate the Indicator
<p>Indoor Residual Spraying: Percentage of household of children age 0-23 months that were sprayed with insecticide in the previous 12 months</p>	<p>Number of households of children age 0-23 months that have been sprayed with an insecticide in the past 12 months (Q301=1) AND (Q304<12)</p> <hr/> <p>Number of households of children age 0-23 months in the survey</p> <p style="text-align: right;">X 100</p>
<p>Maternal Knowledge of Child Danger Signs: Percent of mothers of children aged 0-23 months who knew at least two signs of childhood illness that indicate the need for treatment</p>	<p>Number of mothers of child age 0-23 months that know at least two of the danger signs of childhood illness (at least two answers A-G in Q.305)</p> <hr/> <p>Number of mothers of children age 0-23 months in the survey</p> <p style="text-align: right;">X 100</p>
<p>Care-seeking for Fever in Malarious Zones: Percentage of children age 0-23 month with a febrile episode during the last two weeks who were taken to a appropriate place for treatment</p> <p>** Appropriate place for treatment should be defined base on the local situation. See 'note for program manager's section for more details.</p>	<p>Number of children age 0-23 months with a febrile episode during the last two weeks (Q306 = 1) AND Were taken to an appropriate place for treatment** (Q308 & Q311)</p> <hr/> <p>Number of children age 0-23 months with a febrile episode in the last two weeks (Q306=1)</p> <p style="text-align: right;">X 100</p>
<p>Treatment of Fever in Malarious Zones: Percentage of children age 0-23 months with a febrile episode during the last two weeks who were treated with an effective anti-malarial drug within 24 hours after the fever began</p> <p>** The term "effective antimalarial" should be based on national protocol. Modify the tabulation according to national protocol.</p>	<p>Number of children age 0-23 months with a febrile episode during the last two weeks (Q306 = 1) AND Was treated with an appropriate anti-malarial drug within 24 hours after the fever began (Q313 = 1) AND (Q314= A, B, C, D or E) AND (Q315<=1)</p> <hr/> <p>Number of children age 0-23 months with a febrile episode in the last two weeks (Q306=1)</p> <p style="text-align: right;">X 100</p>

<p>Treatment of Fever with ACTs in Malarious Zones: Percentage of children age 0-23 months with a febrile episode during the last two weeks who were treated with ACTs within 24 hours after the fever began</p>	<p>Number of children age 0-23 months with a febrile episode during the last two weeks (Q306 = 1) AND Was treated with ACTs within 24 hours after the fever began (Q313 = 1) AND (Q314 = E) AND (Q315<=1)</p> <hr/> <p>Number of children age 0-23 months with a febrile episode in the last two weeks (Q306=1) X 100</p>
<p>IPT: Percentage of mothers of children age 0-23 months who took effective antimalarials during the pregnancy with the youngest child</p> <p>** The term "effective antimalarial" should be based on national protocol, which includes two doses. Modify the tabulation according to national protocol.</p>	<p>Number of mothers of children age 0-23 months who received 2 or more doses of an effective antimalarial drug treatment to prevent malaria during their previous pregnancy** (Q316=1) AND (Q317=A) AND (Q318>=2) X 100</p> <hr/> <p>Number of mothers of children age 0-23 months in the survey</p>
<p>Bednet Use During Pregnancy: Percentage of mothers of children age 0-23 months who reported that they slept under a bednet all of the time or most of the time during their most recent pregnancy</p>	<p>Number of mothers of children age 0-23 months who reported sleeping under a bednet all the time or most of the time during their most recent pregnancy (Q319=1 AND Q320<=2) X 100</p> <hr/> <p>Number of mothers of children age 0-23 months in the survey</p>

REFERENCES FOR MALARIA-RELATED SURVEYS

Listed below are other documents that may be of assistance when modifying the KPC to meet the needs of your particular project.

1. Global Partnership to Roll Back Malaria. Monitoring and Evaluation Reference Group. *Malaria indicator survey: basic documentation for survey design and implementation*.
2. UNICEF. *Multiple Indicator Cluster Survey 3*.
3. Roll Back Malaria, MEASURE Evaluation, World Health Organization, UNICEF. 2006. Guidelines for Core Population Coverage Indicators for Roll Back Malaria: To Be Obtained from Household Surveys. MEASURE Evaluation: Calverton, Maryland.

PVOs can also consult the most recent DHS used in country. The DHS report includes questionnaires used, and in many cases local translations are available.

REFERENCES FOR MALARIA RELATED QUALITATIVE RESEARCH

Below are documents that may be of assistance when planning qualitative research on malaria:

1. Carol Baume. 2002. *A Guide to Research on Care-seeking for Childhood Malaria*. Support for Analysis and Research in Africa (SARA) Project and the Basic Support for Institutionalizing Child Survival Project (BASICS II) for the United States Agency for International Development: Arlington, Virginia.
2. WHO Special Programme for Research and Training in Tropical Diseases (TDR). 1998. *Rapid Assessment Guidelines, Part I: Health Seeking Behaviour for Severe and Complicated Malaria*.
3. WHO Special Programme for Research and Training in Tropical Diseases (TDR). 1998. *Rapid Assessment Guidelines, Part II: Recognition of Illness Symptoms for Severe and Complicated Malaria*.
4. Malaria Working Group. The Child Survival Collaborations and Resource Group (CORE). 2003. *Surviving Malaria Decision Guide: A Programming Tool for Promoting Appropriate Case Management of Malaria in Infants and Young Children*.