

## **Rapid Knowledge, Practices and Coverage (KPC) Survey MODULE 4D: ACUTE RESPIRATORY INFECTIONS (ARI)**

### **INTERVIEWER INSTRUCTIONS**

#### ORGANIZATION OF THIS MODULE

The ARI Module is composed of nine questions on Acute Respiratory Infections case management.

#### ASKING QUESTIONS AND RECORDING ANSWERS

In this module, the information that you will record is based upon answers directly provided by the mother. 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 precoded 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. For some questions, an OTHER code is included in the list of precoded responses. If the mother provides an answer that does not fit into any of the precoded categories, circle the OTHER code and write the mother's answer in the blank space provided.

#### FILLING IN IDENTIFICATION INFORMATION

Before you begin asking the mother questions, record the cluster, household, and record numbers at the top of the questionnaire. This is the same information that you recorded on the cover page of the survey. In addition, record the child's age and sex in the second set of boxes.

#### Q.1: ILLNESS WITH A COUGH IN THE LAST TWO WEEKS

A response of YES is only appropriate if the child had a cough during the two weeks before the date of the interview.

#### Q.2: COUGH WITH SHORT, FAST BREATHS OR DIFFICULT BREATHING

This question is only asked if the child had a cough in the past two weeks. Pneumonia and respiratory infections, which can be accompanied by short, rapid breathing or difficult breathing, are principal causes of death among children.

#### Qs. 3 through 9: ADVICE OR TREATMENT FOR COUGH WITH FAST/DIFFICULT BREATHING

Question 3 asks the mother if she sought advice or treatment for her child's cough and fast/difficult breathing. If she answers YES, probe to determine how long after she noticed those symptoms that she sought treatment. Allow her to give a response then circle the category in Question 4 that best matches her answer. In Question 5, you will ask where she first sought treatment. You will then record who made that decision in Question 6. Question 7 asks whether advice/treatment was sought anywhere else. If the mother answers YES, then record the person or place where care was sought in Question 8. In Question 9, you will refer back to the mother's answers to Questions 5 and 8 to determine whether she sought any facility-based care. For children who did not go to a health facility, Question 10 aims to identify the drugs prescribed to treat the child's illness. If the drug's name is not known, ask to see the prescription bottle to help identify the particular drug therapy.

#### SKIP PATTERNS FOR ARI MODULE

It is very important that you ask the mother only those questions that are relevant to her child's situation. For example, a mother whose child did not have cough with fast/difficult breathing in the last two weeks should not be asked questions about advice or treatment sought for cough/fast breathing. For certain questions, you are instructed to skip to the next appropriate question if the mother gives a particular response. Skip instructions are located in the far right-hand column of the questionnaire. The following list summarizes all skip patterns within the Acute Respiratory Infections Module.

Question	Response	Instructions
Q.1. "Has (NAME) had an illness with cough at any time in the last 2 weeks?"	yes (1) no (2); don't know (8)	Go to Q.2 END MODULE
Q.2. "When (NAME) had an illness with a cough, did he/she have trouble breathing or breath faster than usual, with short, fast breaths?"	yes (1) no (2); don't know (8)	Go to Q.3 END MODULE

Q.3. "Did you seek advice or treatment for the cough/fast breathing?"	yes (1) no (2)	Go to Q.4 END MODULE
Q.7. "Did you go anywhere else for advice or treatment for (NAME'S) cough and fast/difficult breathing?"	yes (1) no (2)	Go to Q.8 SKIP TO Q.9
Q.9.	WENT TO HEALTH FACILITY (1) DID NOT GO TO HEALTH FACILITY (2)	END MODULE Go to Q.10

### SUGGESTED QUALITATIVE RESEARCH QUESTIONS

Certain topics are better explored using qualitative research techniques rather than a structured questionnaire. It is suggested that answers to the following questions be obtained from key informants or focus group discussions:

- ☛ Sometimes children have severe illnesses and should be taken immediately to a health facility. What types of symptoms would cause you to take your child to a health facility right away?
- ☛ How does a child get a cough?
- ☛ What can be done to treat a cough?
- ☛ What are symptoms of pneumonia?

As a formative research technique, findings from focus group discussions could 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.

IDENTIFICATION	
CLUSTER NUMBER .....	+)))0)))0))) * * * *
HOUSEHOLD NUMBER .....	.)))3)))3)))1 * * * *
RECORD NUMBER .....	/)))3)))1 * * * * .)))2)))-

AGE OF CHILD (IN MONTHS) .....	+)))0))) * * *
SEX OF CHILD (1=MALE, 2=FEMALE).....	.)))2)))- +))) * * * .)))-

**ACUTE RESPIRATORY INFECTIONS**

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
1	Has (NAME) had an illness with a cough at any time in the last two weeks?	YES..... 1 NO ..... 2 DON'T KNOW ..... 8	), )2END
2	When (NAME) had an illness with a cough, did he/she have trouble breathing or breathe faster than usual with short, fast breaths?	YES..... 1 NO ..... 2 DON'T KNOW ..... 8	), )2END
3	Did you seek advice or treatment for the cough/fast breathing?	YES..... 1 NO ..... 2	)END
4	How long after you noticed (NAME's) cough and fast breathing did you seek treatment?	SAME DAY ..... 0 NEXT DAY ..... 1 TWO DAYS ..... 2 THREE OR MORE DAYS ..... 3	
5	Where did you first go for advice or treatment? <sup>1</sup>  IF SOURCE IS HOSPITAL, HEALTH CENTER, OR CLINIC, WRITE THE NAME OF THE PLACE.  _____ (NAME OF PLACE)	HEALTH FACILITY HOSPITAL.....01 HEALTH CENTER .....02 HEALTH POST .....03 PVO CENTER .....04 CLINIC.....05 FIELD/COMMUNITY HEALTH WORKER .....06 OTHER HEALTH FACILITY ..... 07 (SPECIFY)  OTHER SOURCE TRADITIONAL PRACTITIONER ..... 08 SHOP .....09 PHARMACY ..... 10 COMMUNITY DISTRIBUTORS ..... 11 FRIEND/RELATIVE ..... 12  OTHER ..... 88 (SPECIFY)	
6	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 .....X (SPECIFY)	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
7	Did you go anywhere else for advice or treatment for (NAME'S) cough and fast/difficult breathing?	YES..... 1 NO ..... 2	☐ 9
8	Where did you go next for advice or treatment? <sup>1</sup>  IF SOURCE IS HOSPITAL, HEALTH CENTER, OR CLINIC, WRITE THE NAME OF THE PLACE.  _____ (NAME OF PLACE)	HEALTH FACILITY HOSPITAL..... 01 HEALTH CENTER ..... 02 HEALTH POST ..... 03 PVO CENTER ..... 04 CLINIC ..... 05 FIELD/COMMUNITY HEALTH WORKER ..... 06 OTHER HEALTH FACILITY _____ 07 (SPECIFY)  OTHER SOURCE TRADITIONAL PRACTITIONER ..... 08 SHOP ..... 09 PHARMACY ..... 10 COMMUNITY DISTRIBUTORS ..... 11 FRIEND/RELATIVE ..... 12  OTHER _____ 88 (SPECIFY)	
9	LOOK AT THE MOTHER'S RESPONSES TO QUESTIONS 5 AND 8. IF THE MOTHER DID NOT REPORT TAKING (NAME) TO A HEALTH FACILITY IN EITHER QUESTION 5 OR QUESTION 8, ASK QUESTION 10. IF SHE REPORTED GOING TO A HEALTH FACILITY IN QUESTION 5 AND/OR QUESTION 8, END THE MODULE.  1. WENT TO HEALTH FACILITY (RESPONSES 01-07 FOR Q.5 OR Q.8) <input type="checkbox"/> --->END  2. DID NOT GO TO HEALTH FACILITY (RESPONSES 08-88 FOR Q.5 OR Q.8) <input type="checkbox"/> --->Q.10		
10	Which medicines were given to (NAME)? <sup>1</sup>  RECORD ALL MENTIONED.	NOTHING ..... A ASPIRIN ..... B PANADOL ..... C AMOXICILLIN ..... D ERYTHROMYCIN ..... E AZITHROMYCIN ..... F  OTHER _____ X (SPECIFY) DON'T KNOW ..... Z	

<sup>1</sup> PVOs are encouraged to modify response categories as necessary. However, the broad categories should be maintained.

**TABULATION PLAN**

This module is designed to find out about treatment for acute respiratory infections (ARI), which is defined as cough with fast/difficult breathing. The module is not intended to yield a prevalence estimate of ARI in children.

**TABLE 4D-1: ARI INDICATOR**

INDICATOR	DESCRIPTION/DEFINITION
ARI Care-seeking	Percent of children aged 0-23 months with cough and fast/difficult breathing in the last two weeks who were taken to a health facility or received antibiotics from an alternative source  No. of children with response=1 [WENT TO HEALTH FACILITY] for Q.9 -or- with response=D, E, or F for Q.10  <hr style="width: 60%; margin-left: 0;"/> x 100 No. of children with response=1 for Q. 2

Below is an example of a manual (hand) tabulation table to determine which children were taken to a health facility. For each child, a check mark (☒) would be placed in the row of the category that matches his/her mother's response. The frequency column indicates the number of children with a particular response (i.e., total number of check marks in a specific row), whereas the percent column is the number of children with that response divided by the total number of children for whom the question was asked.

The rationale behind Questions 5 and 8 is to identify children who received facility-based care. In Question 9, a child is classified in the YES category if the mother reported at least one type of health facility-based care (codes 01-07 of Questions 5 and 8). Below is a hand tabulation table for Question 9.

**TABLE 4D-2: TABULATION OF CHILDREN WHO RECEIVED FACILITY-BASED CARE**

DID (NAME) RECEIVE HEALTH FACILITY-BASED CARE?	CHECK MARKS (☒)	FREQUENCY	PERCENT
yes			
no			
TOTAL NUMBER OF RESPONSES			100.0
OVERALL FINDING BASED ON THIS TABULATION:			

The responses to Q. 10 can be collapsed into two categories. Based upon the list of responses presented in this module, children with responses D, E, or F would be classified as YES.

**TABLE 4D-3: TABULATION OF CHILDREN WHO DID NOT GO TO A HEALTH FACILITY BUT RECEIVED ANTIBIOTICS**

DID (NAME) RECEIVE ANTIBIOTICS?	CHECK MARKS (☒)	FREQUENCY	PERCENT
yes			
no			
TOTAL NUMBER OF RESPONSES TO Q.10			100.0
OVERALL FINDING BASED ON THIS TABULATION:			

In order to identify the children who belong in the numerator of the indicator listed in Table 4D-1, simply add the number of children in the YES category in Table 4D-2 and the number of children in the YES category in Table 4D-3.

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**REFERENCES FOR ARI-RELATED SURVEYS**

Listed below are other surveys that may be of assistance when modifying the KPC to meet the needs of your particular project.  
(1) CARE (1999). *Rapid Impact Evaluation Survey* (ARI Survey).

- (2) Christian Children's Fund-Angola (1999). *KPC Questionnaire* (Qs. PG03-PG06); *Focus Group Questionnaire*.
- (3) ORC Macro (2000). *MEASURE DHS+ Model A Questionnaire for High Contraceptive Prevalence Countries* (Qs. 467-471). Calverton, Maryland: ORC Macro.
- (4) UNICEF (1995). *Multiple Indicators Cluster Survey* (Care of Illness Module).