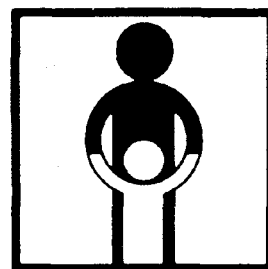


**TRAINING FOR
MID LEVEL MANAGERS**

**FACILITATOR GUIDE
for the EPI Coverage Survey**



**EXPANDED PROGRAMME
ON IMMUNIZATION**



WORLD HEALTH ORGANIZATION

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Facilitator Guidelines for the
EPI COVERAGE SURVEY



EPI COVERAGE SURVEY

Procedure	Relevant pages in this guide	
	Detailed Guidelines	Answer Sheets
1. Help prepare for Exercise L in which participants practice conducting an EPI coverage survey.	4-5	—
2. Introduce the module. Define terms, discuss the purpose of the module, and review the flowchart. Participants read pages 1-2.	6	—
3. Participants read pages 3-7 and do Exercise A. Demonstrate how to select a random number and provide individual feedback.	7	8
4. Participants read pages 9-10 and do Exercise B. Provide individual feedback.	9	10
5. Participants read pages 15-18 and do Exercise C. Provide individual feedback.	11	12
6. Participants read pages 22-30 and do Exercise D. Provide individual feedback.	13	14-16
7. Participants read pages 41-46 and do Exercise E. Provide individual feedback.	17	18-20

8. Participants read pages 51-52 and do Exercise F. Provide individual feedback.	21	22-23
9. Participants read pages 56-61 and do Exercises G and H. Provide individual feedback.	24	25-28
10. Participants read pages 65-66 and do Exercise I. Provide individual feedback.	29	30-31
11. Participants read pages 69-72 and do Exercises J and K. Provide individual feedback and then lead a group discussion.	32	33-36
12. Participants finish reading the module. Summarize the module.	37	---
13. Lead Exercise L in which participants practice conducting an EPI immunization coverage survey.	38,39	---

DETAILED GUIDELINES FOR THE EPI COVERAGE SURVEY

1. PREPARE FOR THE SURVEY EXERCISE

Doing an EPI coverage survey in the field gives participants an important opportunity to practice the skills they have learned. After the participants have worked through the module *EPI Coverage Survey*, the next one and one-half to two days should be reserved for doing a survey. The course director is responsible for making sure that all arrangements are made for the survey, and may get help from facilitators or other staff. Preparations should begin at least one month before the survey will be conducted.

a. *Plan the survey.*

Make the following decisions about the survey:

- * Select the age group of children to be evaluated.
- * Decide whether to collect information recorded "by card" or "by card plus history".
- * Identify clusters by using the method outlined in the module *EPI Coverage Survey*.

The survey should be conducted near enough to the course location that participants can travel to the site, interview families and return in one day. Prepare a written explanation of how and why you made the decisions above to distribute to the participants.

b. *Determine how many clusters will be surveyed.*

This will depend on how many participants are in the course. Ideally, you will complete 30 clusters (and will need 60 participants). If you do not have that many participants in the course, you may ask for some local staff to be interviewers, reduce the number of interviewers per team, or survey fewer clusters.

c. *Obtain or prepare maps of the area and of each village to be interviewed by the teams, and household lists if they are available.*

Maps are very important when conducting a survey. If they are not already prepared you should make arrangements to have simple maps drawn. The maps of the geographic area should include each village, roads, and other features such as rivers or mountains. Maps of the villages to be surveyed should include houses, streets, and the location where participants will be

picked up at the end of the day. If households lists are available for the villages being surveyed, obtain them at this time.

d. *Make administrative arrangements.*

- arrange for transport by obtaining vehicles and scheduling the drop-off and pick-up of participants in the villages they are surveying
- obtain official clearance to survey the areas where clusters are located
- obtain the following supplies for each team of interviewers:

- one map of the geographic area of the entire survey
- one map of the village(s) to be surveyed
- 2 pens or pencils
- one clipboard
- 3 copies of the Cluster Form for Infant Immunization
- 3 copies of the Cluster Form for Reasons for Immunization Failure
- 3 copies of the Cluster Form for Tetanus Toxoid Immunization of Women

e. *Plan the briefing session.*

This is for all participants and any local staff who will participate. Explain the geographic area in which the survey will be conducted, transport arrangements, etc.

f. *Plan for the analysis of results.*

Results must be analyzed quickly, and you will need to find people who will help on the evening after the survey is conducted.

If you plan to analyze the data by computer (see page 82 of the module), you will need:

1. An IBM-XT, AT or compatible microcomputer equipped with a hard disk drive and preferably 512-640 kilobytes of random access memory;
2. At least one person who is familiar with microcomputers as well as with the EPI coverage survey methodology;
3. The COSAS diskette. The diskette and User's Guide are available from the EPI units in Geneva and in the WHO regional offices.

2. INTRODUCE THE MODULE

Briefly introduce the module by defining an immunization coverage survey as "*a survey of a small number of individuals to determine their immunization status*". This can be done in a systematic way so that only a small sample of homes need to be surveyed in order to obtain valid results that apply to the larger population.

Explain that the purpose of the immunization coverage survey is to identify ways to improve immunization services, and thereby reduce morbidity and mortality from vaccine-preventable diseases. Ask participants to think of the difference between immunization coverage information obtained from a coverage survey and information obtained from health centre records. Some differences are:

- (1) coverage surveys cover all sources of immunization, not only the immunizations given by the health centre;
- (2) the coverage survey tells you the immunization status per child, not just the number of doses given;
- (3) the coverage survey tells you how many of the doses were valid.

State that this coverage survey methodology requires a large geographic area (areas with a population greater than 30 000), and that decisions to conduct coverage surveys are usually made at the national, regional or district level. However, health centre supervisors should learn how to conduct the survey so that they will know how and why a survey is done.

Ask participants to read pages 1-2 of the module. Discuss the flowchart and explain that it shows the steps to take when conducting a coverage survey. Then ask participants to turn to the Definition of Terms on page 99 and review the terminology with them.

Then ask participants to begin reading the module and to tell you when they are ready for Exercise A.

3. EXERCISE A - DEMONSTRATION AND INDIVIDUAL FEEDBACK

The purpose of this exercise is to have participants practice selecting a random number and calculating a sampling interval.

- * Before participants do the exercise, demonstrate each of the steps in the exercise, but using a different number of digits than called for in the exercise. Answer any questions participants may have.
- * Compare the participant's responses to the answer sheet. Some of the answers to this exercise will vary since each participant will use a different currency note. Ask the participant how he got his answers, so you can be sure he understands the process.
- * Make sure the participant understands that a "0" counts as a digit. For example, if the number on the currency note is 0032658, and they need a four-digit number, they would select "0032".
- * After you have finished giving individual feedback, ask the participant to continue reading and to do Exercise B.

ANSWER SHEET

1. Choose a three-digit random number from 001 and 187 inclusive.

The answers to this question will vary since each participant will use a different currency note.

2. Assume the sampling interval is 12 685.

How many digits should the random number have?

The random number should have 5 digits.

Select a random number from a currency note to use when identifying clusters.

The answer to this question will vary since each participant will use a different currency note. The random number will be between 00001 and 12 685.

3. The total population of the community is 359 868. Calculate a sampling interval, and then select a random number to use when identifying clusters.

$$\begin{array}{r} \text{Sampling interval:} \quad 359\ 868 \\ \hline \quad \quad \quad \quad \quad 30 \end{array} = 11\ 996$$

Random number: The answers to this question will vary since each participant will use a different currency note, but the number should be 11 996 or less.

4. EXERCISE B - INDIVIDUAL FEEDBACK

The purpose of this exercise is to have participants practice identifying clusters by using a Cluster Identification Form. Before starting the exercise, encourage participants to refer back to the guidelines as needed. They are not expected to memorize the guidelines.

- * After a participant has completed the exercise, give him an answer sheet and let him check his own answers. If he had a problem doing the exercise, discuss the problem. Make sure that he knows how to follow the guidelines and correctly identify the clusters from the list provided.
- * Ask the participant how large his own area of responsibility is. Ask how he could get a list of communities and populations if he were doing a survey in his own health area.
- * Ask the participant to read pages 15-18 and to do Exercise C.

ANSWER SHEET

CLUSTER IDENTIFICATION FORM
CITIES, TOWNS AND VILLAGES OF COASTAL REGION

No.	Name of Community	Population	Cumulative Population	Cluster	No.	Name of Community	Population	Cumulative Population	Cluster
1	Utaral	12 888	12 888	1	26	Nozop	17 808	157 117	6
2	Bolama	3 489	16 377		27	Mapasko	3 914	161 031	
3	Talum	6 826	23 203		28	Lothoah	15 006	176 037	7
4	Wara-Yali	4 339	27 542		29	Voattigan	9 584	185 621	
5	Galey	2 203	29 745		30	Plitok	4 225	198 846	
6	Tarum	4 341	34 086		31	Dopoltan	2 643	201 489	
7	Hamtato	1 544	35 630		32	Cococopa	26 000	227 489	8, 9
8	Nayjaff	885	36 515		33	Famezgi	3 963	231 452	
9	Nuviya	2 962	39 477	2	34	Jigpelay	2 115	233 567	
10	Cattical	4 234	43 711		35	Mewoah	507	234 074	
11	Paralai	1 520	45 231		36	Odigala	3 516	237 590	
12	Egala-Kuru	3 767	48 998		37	Sanbati	14 402	251 992	
13	Uwanarpol	3 053	52 051		38	Andidwa	2 575	254 567	10
14	Hilandia	60 000	112 051	3, 4	39	Ore-Mikam	3 105	257 672	
15	Puratna	2 297	114 348		40	Duno-Mikam	4 176	261 848	
16	Kagalni	1 355	115 703		41	Kedi-Sina	1 919	263 767	
17	Hamali-Ura	833	116 536		42	Panabalok	3 261	267 028	
18	Kameni	4 118	120 654	5	43	Rokini	4 270	271 298	
19	Kiroya	2 782	123 436		44	Talosso	3 301	274 599	
20	Yanwela	3 285	126 721		45	Djaragna	3 250	277 849	
21	Bagvi	4 416	131 137		46	Bibachi	4 670	282 519	11
22	Atota	3 188	134 325		47	Bilam	757	283 276	
23	Kogouva	1 179	135 504		48	Sisse	12 037	295 313	
24	Ahekpa	612	136 116		49	Anda-Dali	2 155	297 468	
25	Yandot	3 193	139 309		50	Varok	3 702	301 170	

Sampling interval: (a) 26 667

Random number: (b) 12 762

5. EXERCISE C - INDIVIDUAL FEEDBACK

The purpose of this exercise is to have participants practice selecting a starting household and subsequent households for interviewing.

- * After the participant has completed the exercise, give him an answer sheet and let him check his own answers. If he had a problem doing the exercise, discuss the problem with him.
- * Make sure that the participant's description of how he selected a starting household includes an explanation of how he selected a random number, that he chose the house whose number corresponded to the random number selected, and that he followed the instructions on page 15 of the module for "rural areas where household lists are available".
- * Make sure that the participant:
 - (1) chose a central location such as the market;
 - (2) used random selection methods to choose a direction in which to select houses; and
 - (3) used random selection methods to choose a starting house along the chosen direction.
- * Check to see that the house closest to the previously chosen house is picked.
- * When you have finished providing feedback, ask the participant to continue reading and to do Exercise D.

ANSWER SHEET

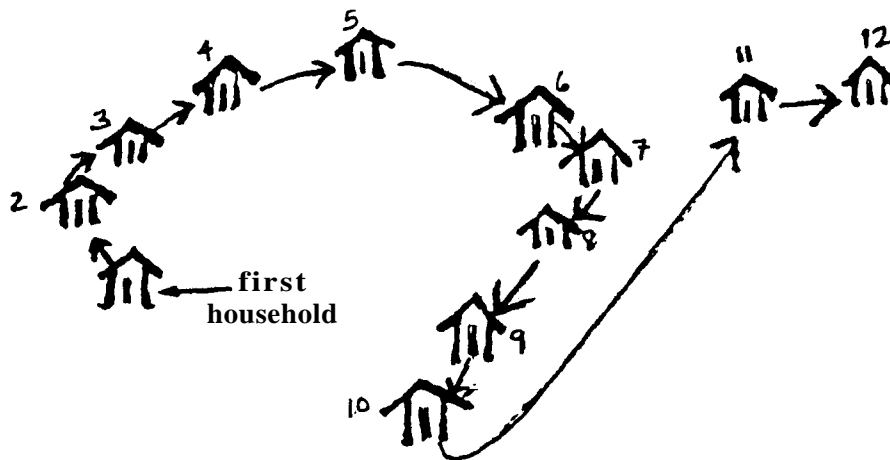
1. The first step is to select a two-digit random number by using a table of random numbers or a currency note. (Individual answers will vary since each participant will use a different currency note.)

The next step is to find the household on the list whose number corresponds to the random number selected. This is the starting household.

2. A description of how to select a starting household in this village follows:
 - a. Select a central location in the village. In this case, select the market.
 - b. Randomly select a direction. A good method is to spin a bottle from the central location in the village.
 - c. Count the number of houses which lie along the directional line identified by the bottle spin to the edge of the village.
 - d. Select a random number between 1 and the total number of houses counted. The number you select is the first household to be visited.

Each participant will probably select a different starting household since each participant will select a different direction and a different random number.

3. You should have numbered the households as shown in the diagram below.



6. EXERCISE D - INDIVIDUAL FEEDBACK

The purpose of this exercise is to have participants practice using the three cluster forms, coding responses from immunization cards and interviews with mothers, and using birth dates to determine if a child or mother is eligible for the survey.

- * Compare the participant's answers to the answer sheet. Discuss any differences and help the participant understand why the answer was wrong.
- * Give each participant a copy of the answer sheet.
- * After finishing feedback, ask the participant to read pages 41-46 and to do Exercise E.

ANSWER SHEET
Cluster Form
Infant Immunization

(1) Cluster Number: <u>1</u> (2) Date: <u>7 March 1991</u> (3) Area: <u>Utaral</u> (4) Range of birth dates: From: <u>7 March 1989</u> Until: <u>7 March 1990</u>		(5) N A M E	Ayo	Mbaye	Atumane	Mbaye	Daba	Kone						TOTAL	
														Card	Card plus history
Child number in cluster			1	2	3	4	5	6	7	8					
(6) Birth date			1/3/90	8/9/89	1/2/90										
(7) Immunization Card	Yes/No		Y	N	Y										
	Date/+0		1/3/90	+	5/2/90										
(8) BCG	Scar: Yes/No/A		Y	Y	Y										
	Source		HC	HC	OUT										
	Date/+0		10/5/90	+	10/4/90										
(9) DPT 1	Source		HC	HC	OUT										
	Date/+0		1/1/90	0	+										
DPT 2	Source		HC	+	OUT										
	Date/+0		2/5/90	0	+										
DPT 3	Source		HC	0	OUT										
	Date/+0		10/5/90	+	10/4/90										
(10) OPV 1	Source		HC	HC	OUT										
	Date/+0		10/6/90	0	+										
OPV 2	Source		HC	0	OUT										
	Date/+0		20/8/90	0	+										
OPV 3	Source		HC	0	OUT										
	Date/+0		5/1/91	0	+										
(11) Measles	Source		HC	0	OUT										
	Date/+0														
(12) Immunization Status	Not														
	Partially			X											
	Fully		X		X										
(13) Fully immunized before one year of age	Yes/No														

(14) Tally of households visited: 111

(15) Name of interviewer: A. Mutane

Signature: A Mutane

KEY: Date/+0: Date = copy date of immunization from card, if available + = mother reports immunization was given 0 = immunization not given	Source: OUT = Outreach HOS = Hospital HC = Health Centre PRIV = Private/non-government
---	---

ANSWER SHEET

EPI COVERAGE SURVEY

Exercise D (cont.)

Cluster Form

Reasons for Immunization Failure

(1) Cluster number: 1 (4) Range of birthdates: From: 7 March 1989
 (2) Area: Utaral Until: 7 March 1990
 (3) Date: 7 March 1991

NOTE: ASK ONLY ONE QUESTION: "Why was the child not fully immunized?" Mark (X) the single most important reason according to your judgment.

Child number in cluster		1	2	3	4	5	6	7	8	TOTAL
(5) Immunization Status	Not immunized									
	Partially immunized		X							
	Fully immunized	X		X						
Lack of information	a. Unaware of need for immunization									
	b. Unaware of need to return for 2nd or 3rd dose.									
	c. Place and/or time of immunization unknown									
	d. Fear of side reactions									
	e. Wrong ideas about contraindications									
	f. Other									
(6) Lack of motivation	g. Postponed until another time									
	h. No faith in immunization									
	i. Rumors									
	j. Other									
Obstacles	k. Place of immunization too far									
	l. Time of immunization inconvenient									
	m. Vaccinator absent									
	n. Vaccine not available									
	o. Mother too busy									
	p. Family problem, including illness of mother		X							
	q. Child ill - not brought									
	r. Child ill - brought but not given immunization									
	s. Long waiting time									
	t. Other									

ANSWER SHEET

EPI COVERAGE SURVEY
Exercise D (cont.)

Cluster Form

Tetanus Toxoid Immunization of Women

(1) Cluster number: <u>1</u> (2) Date: <u>7 March 1991</u> (3) Area: <u>Utara</u> (4) Range of birth dates: From: <u>7/3/1990</u> Until: <u>7/3/1991</u>		(5)	Mother's name	Fatima Koffi	1	2	3	4	5	6	7	8	TOTAL		
													Card	Card plus History	
Woman number in cluster															
(6) Birth date of child				<u>1/6/90</u>											
Mother	(7) Immunization card	Yes/No		<u>y</u>											
	(8) TT 1	Date/+0		<u>2/2/90</u>											
		Source			<u>HC</u>										
	TT 2	Date/+0			<u>18/4/90</u>										
		Source			<u>HC</u>										
	TT 3	Date/+0			<u>0</u>										
		Source			<u>0</u>										
	TT 4	Date/+0			<u>0</u>										
		Source			<u>0</u>										
	TT 5	Date/+0			<u>0</u>										
Source				<u>0</u>											
(9) Antenatal care		Yes/No		<u>y</u>											
(10) Other visits to health facility during last pregnancy		Yes/No		<u>y</u>											
(11) Delivery of baby	Home														
	HC/HOS			<u>0</u>											
	Other														
(12) Child protected against neonatal tetanus		Yes/No													

(13) Tally of households visited: 111

(14) Name of interviewer: _____

Signature: _____

KEY: Date/+0: Date = copy date of immunization from card, if available + = mother reports immunization was given 0 = immunization not given	Source: HC = Health Centre HOS = Hospital OUT = Outreach PRIV = Private
--	---

7. EXERCISE E - INDIVIDUAL FEEDBACK

The purpose of this exercise is to have participants practice completing Items 12 and 13 on the Cluster Form for Infant Immunization, Item 12 on the Cluster Form for TT Immunization of Women, and the totals on all forms.

- * Compare the participant's answers to the answer sheets. Ask the participant questions to make sure he:
 - can distinguish between the concepts "by card" and "by history".
 - uses the immunization schedule to verify if the immunization was given at the right time. (Note that the dates are in European format: day/month/year.)
 - can distinguish between the concepts "fully immunized" and "fully immunized before one year of age".
 - revises the Cluster Form for Infant Immunization as needed if immunizations are determined to be not valid, and carries the revisions over to the Cluster Form for Reasons for Immunization Failure (as is needed for Child 3 in the exercise).

- * Give the participant a copy of the answer sheets.

- * When you have finished providing feedback, ask the participant to continue reading in the module and to do Exercise F.

ANSWER SHEET
Cluster Form
Infant Immunization

EPI COVERAGE SURVEY
Exercise E

(1) Cluster Number: <u>1</u> (2) Date: <u>7 March 1991</u> (3) Area: <u>Utaral</u> (4) Range of birth dates: From: <u>7 March 1989</u> Until: <u>7 March 1990</u>		(5) N A M E	Ayo Mbaye	Atumane Mbaye	Daba Kone	Muhammed Coli	Abo Mbakale	Balla Diallo	Christopher Ofu	TOTAL		
										Card	Card plus history	
Child number in cluster			1	2	3	4	5	6	7	8		
(6) Birth date			1/3/90	8/9/89	1/2/90	8/8/89	1/12/89	1/4/90	1/1/90			
(7) Immunization Card	Yes/No		y	N	y	y	y	y	y		6	
(8) BCG	Date/+/0		1/3/90	(+)	5/2/90	(+)	9/5/89	0	10/3/90	1/1/90	4	6
	Scar: Yes/No/A		y	y	y	N	N	y	y		5	
	Source		HC	HC	OUT	HOS	0	HOS	HC			
(9) DPT 1	Date/+/0		10/5/90	(+)	10/4/90	10/1/89	2/3/90	10/3/90	0		5	6
	Source		HC	HC	OUT	HC	HC	HC	0			
DPT 2	Date/+/0		18/6/90	0	(+)	15/12/89	0	20/4/90	0		3	4
	Source		HC	0	OUT	HC	0	HC	0			
DPT 3	Date/+/0		20/8/90	0	(+)	0	0	(+)	1/5/90	0	1	3
	Source		HC	0	OUT	0	0	HC	0			
(10) OPV 1	Date/+/0		10/5/90	(+)	10/4/90	10/1/89	2/3/90	10/3/90	0		5	6
	Source		HC	HC	OUT	HC	HC	HC	0			
OPV 2	Date/+/0		18/6/90	0	(+)	15/12/89	0	20/4/90	0		3	4
	Source		HC	0	OUT	HC	0	HC	0			
OPV 3	Date/+/0		20/8/90	0	(+)	0	0	(+)	1/5/90	0	1	3
	Source		HC	0	OUT	0	0	HC	0			
(11) Measles	Date/+/0		5/1/91	0	(+)	1/10/90	(+)	2/7/90	0	0	2	4
	Source		HC	0	OUT	HC	HC	0	0			
(12) Immunization Status	Not										0	
	Partially			x	x	x	x	x	x		6	
	Fully		x		(x)						1	
(13) Fully immunized before one year of age	Yes/No		y	N	N	N	N	N	N		1	

(14) Tally of households visited: ||||| ||||| ||||| ||||| ||||| ||||| = 28

(15) Name of interviewer: A. Mutane

Signature: A. Mutane

KEY: Date/+/0:
Date = copy date of immunization from card, if available
+ = mother reports immunization was given
0 = immunization not given

Source:
OUT = Outreach
HOS = Hospital
HC = Health Centre
PRIV = Private/non-government

ANSWER SHEET

EPI COVERAGE SURVEY
Exercise E (cont.)

Cluster Form

Reasons for Immunization Failure

(1) Cluster number: <u>1</u>		(4) Range of birthdates: From: <u>7/3/89</u>								
(2) Area: <u>Utara</u>		Until: <u>7/3/90</u>								
(3) Date: <u>7/3/91</u>										
NOTE: ASK ONLY ONE QUESTION: "Why was the child not fully immunized?" Mark (X) the single most important reason according to your judgment.										
Child number in cluster		1	2	3	4	5	6	7	8	TOTAL
(5) Immunization Status	Not immunized									0
	Partially immunized		X	X	X	X	X	X		6
	Fully immunized	X		X						1
(6) Lack of information	a. Unaware of need for immunization				X					1
	b. Unaware of need to return for 2nd or 3rd dose.									0
	c. Place and/or time of immunization unknown									0
	d. Fear of side reactions									0
	e. Wrong ideas about contraindications									0
	f. Other									0
(6) Lack of motivation	g. Postponed until another time									0
	h. No faith in immunization							X		1
	i. Rumors									0
	j. Other									0
Obstacles	k. Place of immunization too far									0
	l. Time of immunization inconvenient					X				1
	m. Vaccinator absent									0
	n. Vaccine not available									0
	o. Mother too busy									0
	p. Family problem, including illness of mother		X							1
	q. Child ill - not brought									0
	r. Child ill - brought but not given immunization							X		1
	s. Long waiting time									0
t. Other									0	

ANSWER SHEET
Cluster Form

EPI COVERAGE SURVEY
Exercise E (cont.)

Tetanus Toxoid Immunization of Women

(1) Cluster number: <u>2</u> (2) Date: <u>7/3/91</u> (3) Area: <u>Utaral</u> (4) Range of birth dates: From: <u>7/3/90</u> Until: <u>7/3/91</u>		(5) Mother's name								TOTAL		
										Card	Card plus History	
Woman number in cluster			1	2	3	4	5	6	7	8		
(6) Birth date of child			1/6/90	10/11/90	1/4/90	2/2/91	13/1/91	9/7/90	12/11/90			
Mother	(7) Immunization card	Yes/No	y	y	N	y	y	N	y		5	
	(8) TT 1	Date/+0	2/2/91	10/1/86	+	4/1/88	1/3/87	0	1/5/87		5	6
		Source	HC	HC	OUT	OUT	HC	0	HC			
	TT 2	Date/+0	13/4/90	19/3/86	0	10/10/88	5/6/87	0	9/11/87		5	5
		Source	HC	HC	0	HC	HC	0	HC			
	TT 3	Date/+0	0	1/12/86	0	5/10/90	0	0	19/8/88		3	3
		Source	0	HC	0	HC	0	0	HC			
	TT 4	Date/+0	0	3/12/87	0	0	0	0	14/10/89		2	2
		Source	0	HC	0	0	0	0	HC			
	TT 5	Date/+0	0	12/8/88	0	0	0	0	0		0	1
Source		0	HC	0	0	0	0	0				
(9) Antenatal care		Yes/No	y	N	N	y	y	N	N		3	
(10) Other visits to health facility during last pregnancy		Yes/No	y	N	y	N	N	y	y		4	
(11) Delivery of baby	Home			y	y				y		3	
	HC/HOS		y			y	y				3	
	Other							y			1	
(12) Child protected against neonatal tetanus		Yes/No	y	y	N	y	N	N	y		4	

(13) Tally of households visited: ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ = 35

(14) Name of interviewer: _____

Signature: _____

<p>KEY: Date/+0: Date = copy date of immunization from card, if available + = mother reports immunization was given 0 = immunization not given</p>	<p>Source: HC = Health Centre HOS = Hospital OUT = Outreach PRIV = Private</p>
--	--

8. EXERCISE F - INDIVIDUAL FEEDBACK

The purpose of this exercise is to have the participants practice using the Summary Form for Infant Immunization, and transferring data from the cluster forms to the summary forms. This is also the first point in the module where they get a sense of the total size of the survey, since all 30 clusters are included.

- * Compare the participant's answers with the answer sheets and discuss any differences with him.
- * Give the participant a copy of the answer sheets.
- * When you are finished providing feedback, ask the participant to read pages 56-61 and to do Exercises G and H. Note that participants have been instructed to ask you for feedback after they have completed **both** exercises.

ANSWER SHEET

EPI COVERAGE SURVEY
Exercise F

Summary Form Infant Immunization

(2) Date of first interview: 7/3/1991
 Date of last interview: 22/3/1991
 (3) Area: Coastal Region
 (4) Age group evaluated: 12-23 months

Cluster Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
(6) Number in cluster	7	7	7	7	7	7	8	7	7	7	7	7	8	7	7	7	7	7	7	7	8	7	7	7	8	7	7	7	8	7	215
(7) Card - Yes	6	6	7	6	6	7	6	6	5	6	6	5	7	6	7	7	4	6	5	4	6	6	7	4	5	7	7	5	7	6	178
(8) BCG card	4	6	5	6	6	7	6	6	5	6	6	7	7	6	5	7	4	6	5	4	6	6	7	5	5	5	7	6	7	6	172
Card plus history	6	6	5	7	7	7	8	7	7	6	7	6	7	6	5	7	7	6	7	6	8	7	7	5	5	5	7	6	7	6	193
BCG scar	5	5	5	7	7	7	8	6	5	6	7	6	7	5	5	7	6	5	5	6	8	7	5	5	5	5	6	6	7	5	179
Source: HOS	2	5	2	5	5	4	1	3	5	5	5	2	3	1	3	3	2	6	5	3	5	5	4	5	2	3	2	3	3	2	104
HC	3	0	3	2	2	2	4	4	2	1	2	3	2	5	2	4	5	0	2	3	0	2	3	0	3	2	5	4	2	5	77
OUT	1	1	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	11
PRIV	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(9) DPT 1 card	5	6	6	6	6	7	6	5	5	4	6	5	6	5	6	7	5	6	5	4	6	6	4	4	3	6	6	5	6	5	162
Card plus history	6	6	6	7	7	7	7	5	7	4	7	7	7	5	6	7	6	6	7	6	7	7	5	5	5	6	6	7	6	5	185
DPT 2 card	3	6	6	6	6	7	6	3	5	4	6	5	6	3	6	7	5	6	5	4	6	6	4	4	3	6	5	5	6	3	153
Card plus history	4	6	6	7	7	7	7	3	7	4	7	7	7	3	6	7	6	6	7	6	7	7	4	4	5	6	6	6	7	3	175
DPT 3 card	1	4	5	5	6	7	6	3	5	4	5	5	6	3	5	6	3	4	5	4	6	5	4	4	5	5	3	5	6	3	138
Card plus history	3	4	5	5	7	7	6	3	7	4	5	6	6	3	5	6	3	4	7	4	6	5	4	4	4	5	5	6	6	3	148
Source: HOS	0	0	0	4	0	4	0	0	0	0	4	6	0	0	0	6	0	0	5	4	0	4	2	3	0	0	2	3	0	2	49
HC	10	14	16	14	15	13	6	10	21	12	14	11	15	10	16	8	12	14	10	12	6	14	11	10	14	16	12	17	15	8	376
OUT	3	3	1	1	6	0	14	1	0	0	1	0	5	1	1	0	3	2	5	0	13	1	0	0	0	1	3	0	3	1	69
PRIV	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	14

Summary Form
Infant Immunization, page 2

ANSWER SHEET

Cluster Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
(10) OPV 1 card	5	6	6	6	6	7	6	5	5	4	6	5	6	5	6	7	5	6	5	4	6	6	4	4	3	6	6	5	6	5	162
Card plus history	6	6	6	7	7	7	7	5	7	4	7	7	7	5	6	7	6	6	7	6	7	7	5	5	5	6	6	7	6	5	185
OPV 2 card	3	6	6	6	6	7	6	3	5	4	6	5	6	3	6	7	5	6	5	4	6	6	4	4	3	6	5	5	6	3	153
Card plus history	4	6	6	7	7	7	7	3	7	4	7	7	7	3	6	7	6	6	7	6	7	7	4	4	5	6	5	7	7	3	175
OPV 3 card	1	4	5	5	6	7	6	3	5	4	5	5	6	3	5	6	4	4	5	4	6	5	4	4	3	5	4	5	6	3	138
Card plus history	3	4	5	5	7	7	6	3	7	4	5	6	6	3	5	6	3	4	7	4	6	5	4	4	4	5	5	6	6	3	148
Source: HOS	0	0	0	4	0	4	0	0	0	0	4	6	0	0	0	6	0	0	5	4	0	4	2	3	0	0	2	3	0	2	49
HC	10	14	16	14	15	13	6	10	21	12	14	11	15	10	16	8	12	14	10	12	6	14	11	10	14	16	12	17	15	8	376
OUT	3	3	1	1	6	0	14	1	0	0	1	0	5	1	1	0	3	2	5	0	13	1	0	0	0	1	3	0	3	1	69
PRIV	0	0	0	0	0	5	0	0	0	0	0	3	0	0	0	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	14
(11) Measles card	2	3	4	5	6	6	6	4	5	3	5	5	5	3	5	6	3	3	5	4	6	5	3	3	3	5	3	5	5	3	129
Card plus history	4	3	4	5	6	6	7	4	6	4	5	6	6	3	5	6	3	3	6	4	6	5	3	3	4	5	4	5	6	3	140
Source: HOS	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	2	0	2	0	2	0	0	0	9
HC	3	3	6	5	3	3	2	4	3	2	4	3	3	2	5	4	1	3	2	4	2	4	2	3	2	4	2	5	3	2	94
OUT	1	1	0	0	3	0	5	0	3	2	0	0	3	1	0	0	2	0	3	0	5	0	0	0	0	0	0	0	2	1	32
PRIV	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
(12) Not immunized	0	1	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	1	0	1	0	0	0	2	3	0	0	1	1	1	15
Partially immunized	6	3	4	2	1	1	2	3	3	3	2	1	2	3	2	1	2	3	2	2	2	2	4	3	2	2	4	1	2	3	73
Fully immunized	1	3	3	5	6	6	6	4	5	3	5	6	5	3	5	6	3	3	5	4	6	5	3	2	3	5	3	5	5	3	127
(13) Fully immunized before one year of age	1	5	1	4	5	4	1	2	4	5	5	4	4	5	4	5	2	4	5	3	4	4	3	5	3	3	3	2	4	6	110
(14) Households visited	28	32	27	33	40	42	38	29	40	45	31	33	41	29	37	30	29	32	35	28	31	35	43	46	40	30	31	29	30	25	1018

9. EXERCISES G AND H - INDIVIDUAL FEEDBACK

The purpose of these exercises is to have the participant practice using the Summary Forms for Reasons for Immunization Failure and for TT Immunization of Women.

- * Check the participant's work against the answer sheets.
- * If the participant mentions that he had difficulty tallying all the numbers by hand, show him Annex II on the COSAS computer programme. Mention the care required to do all of the data transfer and the need to be careful so that the results will be accurate.
- * Give the participant a copy of the answer sheets.
- * Ask the participant to read pages 65-66 and to do Exercise I.

ANSWER SHEET

EPI COVERAGE SURVEY
Exercise G

Summary Form Reasons for Immunization Failure

(2) Date of first interview: 7/3/1991
 Date of last interview: 22/3/1991
 (3) Area: Coastal Region
 (4) Age group evaluated: 12-23 months

Cluster Number		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
Lack of information	a. Unaware of need for immunization	1	1	0	1	0	0	0	0	0	2	1	0	0	1	0	0	0	0	1	1	0	2	0	2	0	0	1	0	0	14	
	b. Unaware of need to return for 2nd or 3rd dose	0	1	0	0	0	0	0	2	2	0	0	0	0	2	0	0	3	1	0	0	0	0	0	0	0	2	0	1	2	16	
	c. Place and/or time of immunization unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
	d. Fear of side reactions	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0	1	0	7
	e. Wrong ideas about contraindications	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	1	0	1	0	0	0	0	0	1	0	0	1	0	8
	f. Other	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	3
SUBTOTAL		1	2	2	1	0	0	0	2	2	3	1	1	0	4	2	0	3	2	1	3	1	1	3	1	3	1	3	1	3	2	49
Lack of motivation	g. Postponed until another time	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
	h. No faith in immunizations	1	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	7
	i. Rumors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1	0	4
	j. Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	SUBTOTAL		1	0	1	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	3	0	1	1	0	1	1

ANSWER SHEET

Summary Form
Reasons for Immunization Failure, page 2

Cluster number		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL	
Obstacles	k. Place of immunization too far to go	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	l. Time of immunization inconvenient	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	m. Vaccinator absent	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	n. Vaccine not available	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	
	o. Mother too busy	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
	p. Family problem, including illness of mother	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	q. Child ill - not brought	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	r. Child ill - brought but not given	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	
	s. Long waiting time	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	t. Other	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	
SUBTOTAL		3	2	1	1	1	1	0	1	1	0	1	1	2	0	0	0	1	1	1	0	1	1	0	1	2	0	0	2	0	0		
TOTAL		5	4	4	2	1	1	0	3	4	3	2	2	3	4	2	1	4	3	2	3	2	2	4	5	5	2	4	3	4	3		

ANSWER SHEET

Summary Form Tetanus Toxoid Immunization of Women

(2) Date of first interview: 7/3/1991
 Date of last interview: 22/3/1991
 (3) Area: Coastal Region
 (4) Age group of children whose mothers are evaluated: 0-11 months

Cluster Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
(6) Number in duster	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	210
(7) Card/Yes	5	4	4	2	3	4	1	3	2	3	4	5	4	3	2	4	4	5	1	2	3	6	5	4	4	2	3	1	5	4	102
(8) TT 1 card	5	4	4	2	3	4	1	3	2	3	4	5	4	3	2	4	4	5	1	2	3	6	5	4	4	2	3	1	5	4	102
Card plus history	6	5	5	4	4	5	3	4	4	4	5	6	5	4	4	5	5	6	3	4	4	6	6	5	5	4	4	3	6	5	139
TT 2 card	5	3	4	2	3	3	1	3	2	3	3	5	4	3	2	4	2	5	1	2	3	4	5	3	4	2	3	1	5	3	93
Card plus history	5	3	4	2	3	3	1	3	2	3	3	5	4	3	2	4	2	5	1	2	3	4	5	3	4	2	3	1	5	3	93
TT 3 card	3	1	2	0	2	1	0	2	0	2	1	1	2	2	0	2	0	1	0	0	2	1	1	1	2	0	2	0	1	0	32
Card plus history	3	1	2	0	2	1	0	2	0	2	1	1	2	2	0	2	0	1	0	0	2	1	1	1	2	0	2	0	1	0	32
TT 4 card	2	0	0	0	1	0	0	0	1	0	1	0	0	0	2	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	11
Card plus history	2	0	0	0	1	0	0	0	1	0	1	0	0	0	2	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	11
TT 5 card	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	4
Card plus history	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	4
Source: HOS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HC	15	9	8	6	9	6	7	9	6	9	9	9	8	10	6	8	8	10	6	7	9	9	9	10	8	7	8	5	10	9	249
OUT	2	0	3	0	0	3	0	0	0	0	0	3	3	0	0	3	0	2	0	1	0	2	3	0	3	0	0	0	2	0	30
PRIV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANSWER SHEET

EPI COVERAGE SURVEY
Exercise H (cont.)

Summary Form
Tetanus Toxoid Immunization of Women, page 2

Cluster Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
(9) Antenatal care/Yes	3	5	5	4	4	5	3	4	4	4	5	3	5	4	4	5	5	3	3	4	4	6	3	5	5	4	4	3	3	5	124
(10) Other visits to health facilities during last pregnancy	4	3	5	3	3	3	5	3	3	3	3	4	5	3	3	5	3	4	5	3	3	3	4	3	5	3	3	5	4	3	109
(11) Delivery of baby:																															
Home	3	4	3	4	4	3	5	4	4	4	4	3	3	4	4	3	4	3	5	4	4	3	3	4	3	4	4	5	3	4	112
HC/HOS	3	3	4	3	3	3	2	3	3	3	3	3	4	3	3	4	3	3	2	3	3	3	3	3	4	3	3	2	3	3	91
Other	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	1	0	7
(12) Children protected against neonatal tetanus	4	3	4	2	3	3	1	3	2	2	3	2	3	3	2	4	3	2	1	2	3	3	2	3	4	2	3	1	2	3	79
(13) Households visited	35	41	50	37	41	37	33	38	40	38	31	35	47	41	33	39	45	53	43	44	55	38	43	41	51	40	36	34	59	51	1251

10. EXERCISE I - INDIVIDUAL FEEDBACK

The purpose of this exercise is to give the participants practice using the Evaluation Form for Infant Immunization, transferring data from one sheet to another, calculating certain percentages, and interpreting the data.

- * When the participant has finished the exercise, give him the answer sheet for the Evaluation Form for Infant Immunization.
- * If the participant has an incorrect answer, try to determine what the mistake was so you can help the participant. Did he use the wrong formula? Use the wrong figures in the formula? Make mathematical errors?
- * Review the participant's answers to questions a-f by comparing them to the answer sheet.
- * Give the participant a copy of the answer sheets.
- * When you have finished providing feedback, ask the participant to read pages 69-72 and to do Exercises J and K. Note that participants have been instructed to ask you for feedback after they have completed **both** exercises.

ANSWER SHEET

**EVALUATION FORM
INFANT IMMUNIZATION**

Area: Coastal Region
Date of first interview: 7/3/1991
Number in survey: 215

Age group evaluated: 12-23 months
Date of last interview: 22/3/1991

	TOTAL CARD		TOTAL CARD PLUS HISTORY	
	Number	Percentage	Number	Percentage
BCG	<u>172</u>	<u>80%</u>	<u>193</u>	<u>90%</u>
BCG scar	<u>179</u>	<u>83%</u>		
Source: HOS			<u>104</u>	<u>54%</u>
HC			<u>77</u>	<u>40%</u>
Out			<u>11</u>	<u>6%</u>
Priv			<u>1</u>	<u>0.5%</u>
DPT 1	<u>162</u>	<u>75%</u>	<u>185</u>	<u>86%</u>
DPT 2	<u>153</u>	<u>71%</u>	<u>175</u>	<u>81%</u>
DPT 3	<u>138</u>	<u>64%</u>	<u>148</u>	<u>69%</u>
Source: HOS			<u>49</u>	<u>10%</u>
HC			<u>376</u>	<u>74%</u>
Out			<u>69</u>	<u>14%</u>
Priv			<u>14</u>	<u>3%</u>
OPV 1	<u>162</u>	<u>75%</u>	<u>185</u>	<u>86%</u>
OPV 2	<u>153</u>	<u>71%</u>	<u>175</u>	<u>81%</u>
OPV 3	<u>138</u>	<u>64%</u>	<u>148</u>	<u>69%</u>
Source: HOS			<u>49</u>	<u>10%</u>
HC			<u>376</u>	<u>74%</u>
Out			<u>69</u>	<u>14%</u>
Priv			<u>14</u>	<u>3%</u>
Measles	<u>129</u>	<u>60%</u>	<u>140</u>	<u>65%</u>
Source: HOS			<u>9</u>	<u>6%</u>
HC			<u>94</u>	<u>67%</u>
Out			<u>32</u>	<u>23%</u>
Priv			<u>5</u>	<u>4%</u>
Not immunized	<u>15</u>	<u>7%</u>		
Partially immunized	<u>73</u>	<u>34%</u>		
Fully immunized	<u>127</u>	<u>59%</u>		
Fully immunized before one year of age	<u>110</u>	<u>51%</u>		

Total number of households: 1018
Average number of households
per cluster: 34

ANSWER SHEET*Infant Immunization*

- a. There was an eight-point difference between the percent of children who were fully immunized (59% of children) and those who were fully immunized before one year of age (51%) of children.

Survey results are not precise measurements -- they represent a range. The actual coverage level could be anywhere between 10% below or 10% above the numbers obtained on the Evaluation Form (see page 3 of the module). This means that the actual coverage level is between 49-69% for children fully immunized, and between 41-61% for children fully immunized before one year of age.

- b. BCG had the highest coverage. There was 80% coverage as reported "by card", and 90% coverage as reported "by card plus history".
- c. The hospital was the source used most frequently for BCG immunization, but for all other immunizations (DPT, OPV and measles) the health centre was used most frequently.
- d. Yes. There was a 10% difference in BCG coverage rates; a 5-11% difference in DPT 1, 2 and 3 and OPV 1, 2 and 3; and a 5% difference in measles coverage.
- e. Yes. Eighty percent of the child received BCG, but only 60% received measles. Further, 75% received DPT1 but only 64% received DPT3.
- f. This program must work harder to reduce the number of people who drop out of the program. Since 80% of the children receive BCG at birth when reported "by card" and 90% are immunized with BCG when reported "by card plus history", it appears that a large number of children have access to immunization services. The problem lies with low use of services. Refer to the Evaluation Form for Reasons for Immunization Failure to learn why children are not receiving immunizations.

Emphasize that when trying to reduce drop-outs, it is also important to work with hospital staff to make sure that both inpatients and outpatients are screened at every contact and immunized as necessary.

11. EXERCISES J AND K - GROUP DISCUSSION

The purpose of these exercises is to have participants practice using the Evaluation Forms for Reasons for Immunization Failure and for TT Immunization of Women, and to practice interpreting the data.

- * Distribute the answer sheets for the Evaluation Forms so that each participant can compare his answers to those on the answer sheets. (Do not yet distribute copies of the answer sheets that give answers to the interpretation questions.) Discuss any problems participants had doing the calculations.
- * Ask individual participants to answer each of the interpretation questions for each form. Encourage participants to compare this example to their own experiences and to suggest ways that the immunization services could be improved. Encourage other participants to add their thoughts.
- * When the group discussion is complete, distribute copies of the answer sheets for the interpretation questions to each participant.
- * Tell participants to finish reading the module.

ANSWER SHEET

EVALUATION FORM REASONS FOR IMMUNIZATION FAILURE

Area: Coastal Region
Date of first interview: 7/3/1991

Age group evaluated: 12-23 months
Date of last interview: 22/3/1991

	TOTAL	PERCENTAGE
Partially/not immunized	<u>87</u>	
Lack of information		
a. Unaware of need for immunization	<u>14</u>	<u>16%</u>
b. Unaware of need to return for 2nd and 3rd dose	<u>16</u>	<u>18%</u>
c. Place and/or time of immunization unknown	<u>1</u>	<u>1%</u>
d. Fear of side reactions	<u>7</u>	<u>8%</u>
e. Wrong ideas about contraindications	<u>8</u>	<u>9%</u>
f. Other:	<u>3</u>	<u>3%</u>
Subtotal	<u>49</u>	<u>56%</u>
Lack of motivation		
g. Postponed until another time	<u>1</u>	<u>1%</u>
h. No faith in immunization	<u>7</u>	<u>8%</u>
i. Rumors	<u>4</u>	<u>5%</u>
j. Other:	<u>1</u>	<u>1%</u>
Subtotal	<u>13</u>	<u>15%</u>
Obstacles		
k. Place of immunization too far to go	<u>0</u>	<u>0%</u>
l. Time of immunization inconvenient	<u>4</u>	<u>5%</u>
m. Vaccinator absent	<u>1</u>	<u>1%</u>
n. Vaccine not available	<u>3</u>	<u>3%</u>
o. Mother too busy	<u>2</u>	<u>2%</u>
p. Family problem, including illness of mother	<u>1</u>	<u>1%</u>
q. Child ill - not brought	<u>2</u>	<u>2%</u>
r. Child ill - brought but not given immunization	<u>5</u>	<u>6%</u>
s. Long waiting time	<u>2</u>	<u>2%</u>
t. Other:	<u>5</u>	<u>6%</u>
Subtotal	<u>25</u>	<u>29%</u>

ANSWER SHEET

Reasons for Immunization Failure

- a. In this example, the most common reason children are not immunized is that mothers are unaware of the need to return for the 2nd and 3rd dose. This reason accounted for 18% of all reasons given, and helps explain the relatively high drop-out rate. The second most important reason is that mothers were unaware of the need for immunization. This accounted for 16% of all reasons given. This means that thirty-four percent of mothers did not come simply because they were uninformed.

Other important reasons mothers are not bringing children for immunization are:

- fear of side reactions (8%)
- wrong ideas about contraindications (9%)
- no faith in immunization (8%)

- b. The major category of problems is lack of information. This category accounted for 56% of all answers given.
- c. Yes. Health workers must be sure to explain to mothers why several immunizations are needed and when they should come back, and be sure that mothers understand. The health centre could institute a system of follow-up of children who do not come for the full series of immunizations.
- d. Health workers may need to be retrained. Supervisors will have to increase monitoring of how health workers educate mothers about immunization and the need to return for subsequent doses. If there is a shortage of staff, there may be a need to recruit community volunteers to help teach mothers.

ANSWER SHEET

**EVALUATION FORM
TETANUS TOXOID IMMUNIZATION OF WOMEN**

Area: Coastal Region
Date of first interview: 7/3/1991
Date of last interview: 22/3/1991

Age group of children whose mothers are to be evaluated: 0-11 months
Number of mothers in survey: 210

	TOTAL CARD		TOTAL CARD PLUS HISTORY	
	Number	Percentage	Number	Percentage
TT 1	<u>102</u>	<u>49%</u>	<u>139</u>	<u>66%</u>
TT 2	<u>93</u>	<u>44%</u>	<u>93</u>	<u>44%</u>
TT 3	<u>32</u>	<u>15%</u>	<u>32</u>	<u>15%</u>
TT 4	<u>11</u>	<u>5%</u>	<u>11</u>	<u>5%</u>
TT 5	<u>4</u>	<u>2%</u>	<u>4</u>	<u>2%</u>
Source: HOS			<u>0</u>	<u>0%</u>
HC			<u>249</u>	<u>81%</u>
OUT			<u>30</u>	<u>11%</u>
PRIV			<u>0</u>	<u>0%</u>
Antenatal care			<u>124</u>	<u>59%</u>
Other visits to health facilities			<u>109</u>	<u>52%</u>
Delivery of baby at:				
Home			<u>112</u>	<u>53%</u>
HC/HOS			<u>91</u>	<u>43%</u>
Other			<u>7</u>	<u>3%</u>
Children protected against neonatal tetanus	<u>79</u>	<u>38%</u>		
Total number of households	<u>1251</u>			
Average number of households per cluster:	<u>42</u>			

ANSWER SHEET

Tetanus Toxoid Immunization of Women

- a. In this example, 38% of the infants were protected against neonatal tetanus at birth.
- b. It tells you that health workers are not immunizing mothers at every possible opportunity. 59% of the mothers surveyed had received antenatal care, yet only 44% had received TT 2. The coverage of TT4 was 5%, and TT5 was 2%. (NOTE: This may seem like very low percentages for TT4 and TT5, but if the health centres have only recently adopted the policy of immunizing all women of childbearing age with five TT immunizations, then these coverage levels may be satisfactory.)

It will be important to ask health workers why they are not immunizing women with TT. There may be a need to retrain health workers, and increase supervision of their practices regarding immunization of women with TT. Also, find out why women are not getting immunized with TT by referring to the Evaluation Form for Reasons for Immunization Failure. Many of the reasons why mothers do not go for TT immunization are the same reasons they do not take their child for immunization.

- c. Most women (53%) delivered their children at home. Comparing the percent of mothers who delivered at the health centre (43%) to the percent of mothers who had received TT2 (44%) or TT3 (15%), you can obtain one measure of whether health workers are missing opportunities to immunize mothers. By immunizing a woman with TT when she comes in to deliver a child, you can help protect the children she may have in the future.
- d. Forty-four percent of the women had received two doses of TT. This is not very good when one considers that 59% of the women received antenatal care, and that 52% of the women made other visits to health facilities during their last pregnancy. Clearly there are many instances of "missed opportunities" in this area, when mothers who came to the health centre for antenatal care or other visits were not immunized with TT.
- e. The health centre was the immunization source that was used most frequently.
- f. Health workers and supervisors need to improve their practices so that they immunize all women of childbearing age with TT at every opportunity. There may also be a need to conduct more community health education so that more mothers understand why TT immunization is important.

12. SUMMARIZE THE MODULE

Ask participants if they have any questions about what they have learned today. Summarize major points from the module. Encourage participants to keep the module and to use the guidelines when doing a coverage survey. They can copy the blank forms in Annex C and use them in a survey. Discuss any questions that arise.

Briefly explain that they will have the opportunity to practice the skills they have learned by being an interviewer in a survey. Emphasize that they should bring their manuals with them so that they can refer to the guidelines. Inform participants that the details of the survey exercise will be explained in a plenary session before the survey begins.

13. EXERCISE L - COORDINATE THE SURVEY

The morning before the survey:

Before participants go to the field to conduct the survey, hold a plenary session to explain the details and make final arrangements. Explain the purpose of the survey exercise. Tell participants that the exercise allows them to practice the skills they have learned, and to find out if there are steps they do not fully understand.

- a. Explain how the survey will be conducted. Describe how the geographic area and the clusters were selected. Distribute a written explanation of the selection process.

Before participants turn in the forms, they should complete the cluster forms by following the steps listed on pages 41-46 of the module.

Explain that after all the data has been turned in, the data will be tabulated and analyzed. The results will be presented at a plenary session tomorrow morning.

- b. Separate the participants into teams. Each team has two persons so team members can check each other's work. Team members should take turns interviewing mothers and filling out the forms.
- c. Explain the logistical arrangements. Assign each team to one cluster, and provide participants with information about how and when they will be transported to and from the site.

d. Distribute the following supplies to each team of interviewers:

- one map of the geographic area of the entire survey
- one map of the village(s) to be surveyed by the team
- 3 copies of the Cluster Form for Infant Immunization
- 3 copies of the Cluster Form for Reasons for Immunization Failure
- 3 copies of the Cluster Form for Tetanus Toxoid Immunization of Women
- two pens or pencils
- one clipboard

During the survey:

- Visit interview teams to monitor their progress and to help solve problems as they arise.
- Remind them to check their questionnaires frequently to be sure they are recording responses accurately and completing all the boxes.
- When a team completes the interviews (of 7 children and 7 mothers), remind them to complete the Cluster Forms:
 - * check that immunizations are valid and revise the immunization status if needed.
 - * determine which children were fully immunized before age one.
 - * determine which infants were protected from neonatal tetanus.
 - * complete the Total columns.
- If time permits, ask each team to check the results of one other team. You must be available to answer any questions that arise.

The evening after the survey:

Much work must be done this evening if the results are to be presented to the group the next morning in the plenary session. Data must be compiled from a total of 30 Cluster Forms and copied onto three Summary Forms. Then, three Evaluation Forms must be completed.

NOTE: If time is available, an alternative approach can be followed. Provide participants with copies of the completed Summary Forms and ask them to break up into small groups and complete the Evaluation Forms. The small groups could then present their findings to the plenary session. This would provide valuable practice tabulating data and analyzing results.

The day after the survey:

In a plenary session discuss the survey itself. What problems did they encounter? How did they solve the problems? Are there any remaining questions about how to conduct a survey?

Present the results of the survey to the participants. Distribute copies of the completed Evaluation Forms to each participant.

Discuss the results. Ask participants some of the interpretation questions listed in the module (pages 67, 70 and 73), and for their comments on other important points that can be made about the data.