# Appendix - I

#### **ADMINISTRATIVE MAP OF NEPAL**



9.1

Source: Anunal Report. (1996/97. Depatment of Health Services, Ministry of Health,

#### Appendix - II

#### MAP OF DHADING DISTRICT

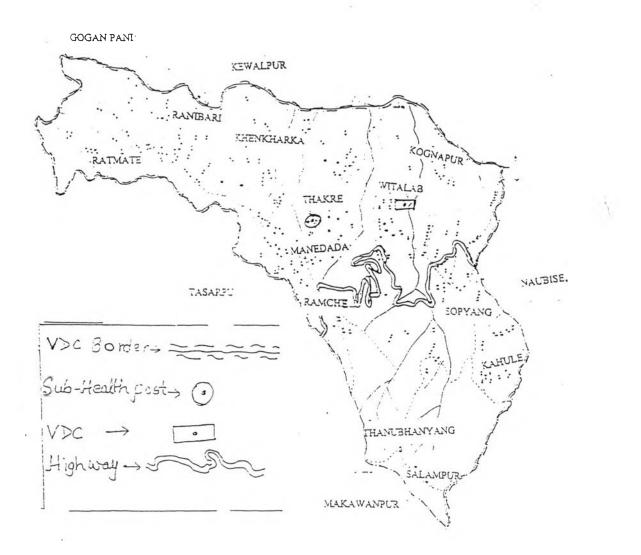


His Majesty's Government, Ministry of Health, Department of Health Services.

Updated on: January 1998

# Appendix - III

# MAP OF THAKRE VILLAGE



Sources: Topographical Division, HlviG, Nepal.

#### Appendix - IV

# <u>Recommended Treatment Provision for children under 5 years old</u> with ARI in Nepal

All children with pneumonia, severe pneumonia or very severe disease should be treated with appropriate antibiotics for a minimum course of 5 days. Oral Cotrimoxazole is the drug of choice for the treatment of pneumonia on an out patient basis. The Ministry of Health Nepal establishes the following management guidelines at the community level.

#### **Community Level**

At the community level, in most instances the emphasis will be laid on early recognition of pneumonia and prompt referral to Primary Health Care Center, Health Post, Sub-Health Post or Hospitals. Those areas where village Health Workers, Female Community Health Workers (FCHV) or other community Health workers are trained, they can use the same management guidelines that is used in Primary Health Care Center, Health Post or Sub-Health post level using only Co-trimoxazole.

		Co-Trimoxazole			
AGE OR WEIGHT	Trime	Trimethoprim+sulphamethoxazole			
	Adult	Pediatric	Syrup*		
	tab.*	tab.*			
	single				
	strength				
Less than 2 month(<5 kg)	1/4		2.5ml		
2 month up to 12 month(6-9kg)	1/2	2	5 ml		
12 month upto 5 years (10-19kg	1	3	7.5 ml		

## Treatment Charts of Primary Antibacterial for children under 5 years old

\* Adult tablet of Co-trimoxazole contains Trimethoprim 80 mg +sulphamethoxazole 400 mg and pediatric tablet contains Trimethoprim 20 mg +Sulphamethoxazole 100mg and in syrup 40 mg of trimethoprim and 200 mg of sulphamethoxazole per 5 ml.

Give this antibiotic for at least 5 days at home if a referral is not possible.

Source: HMG, MOH, Nepal1994

# First-line (Primary) Anti-biotics for out patient treatment of Acute

# **Respiratory Infection**

Characterictics	Procaine Penicillin	Ampicillin	Trimethoprim+
(Pathogens			Sulphamethoxaz
v sensitivity)			ole (Co-trim)
Haemophilus	Good (25% of strains	Good (25% of strains	Very good
influenza	resistant	resistant	
Streptococcus	Very good. Resistant	Very good. Resistant	Very good
pneumonia	strains in some	strains in some	
	countries	countries	
Staphylococcus	Poor	Poor	Good
aureus			
Group A strepto	Very good	Very good	Good
coccus			
Chalamydia	Resistant	Resistant	Good
Pneumocystis			
Toxicity	Rash. Mild but	Diarrhoea and rash (	Rash (Megalo
	common grave but rare	1 in 25000)	blastic anaemia)
	fetal anaphylaxis		
Route of	IM	Oral	Oral
administration			
Dose	50000 IU/kg	25 mg/Kg/6 hrly	4 mg/kg/12 hrly
Cost	\$ 0.20	\$ 0.40	\$ 0.08

Source: Berman, S., Kenneth, M.(1985). <u>Acute Respiratory Infection</u>. Selective Primary health Care. Strategies for the control of disease in the developing world. XXI. Review of Infectious Diseases. Vol.7, No.5, pp. 674-691

# Appendix -VI

# **CLASSIFICATION AND TREATMENT IN THE CHILD AGE 2 MONTHS TO**

## <u>5 YEARS</u>

SIGNS	<ul> <li>* Not able to drink * Chest indrawing * Stridor in calm child or * Convulsions * Abnormally sleepy * Wheezing</li> <li>* Severe under nutrition * Central cynosis</li> </ul>
CLASSIFY AS	VERY SEVERE DISEASE
TREATMENT	*Refer urgently to hospitals *Give 1 <sup>st</sup> dose of antibiotics
	*Treat fever if present. * Treat wheezing if present

SIGNS	-Chest indrawing	-No chest indrawing and fast breathing (50 per minute or more if child 2month up to 12 month; 40 /minute if child 12 month up to 5 years)	- No chest indrawing -No fast breathing (Less than 50 per minute if child 2 months up to 12 months; less than 40 per minute if child is 12 months up to 5 years
CLASSIFY	Severe pneumonia	Pneumonia	No pneumonia or
AS	_		Cough or cold
TREATMENT	-Refer urgently to hospitals -Give 1 <sup>st</sup> dose of an anti-biotics -Treat fever if present -Treat wheezing if present (if referral is not possible treat with an antibiotic and follow closely	-Advice mother to give home care. -Give an antibiotics -Treat fever if present -Treat wheezing if present -Advise mother to return with child in 2 days for reassessment, or earlier if the child gets worse	If coughing more than 30 days, refer for assessment. Assess and treat ear problem or therefore throat, if present Assess and treat other problem Treat fever if present Treat wheezing if present

	Reassess in 2 days a child who is taking an antibiotic for pneumonia			
SIGNS	WORSE * Not able to drink *Has chest indrawing -Has other danger	THE SAME	IMPROVING <ul> <li>Breathing slower</li> <li>Less fever</li> <li>Eating better</li> </ul>	
TREATMENT	signs Refer urgently to hospital	Change antibiotic or refer	Finish 5 days of antibiotics	

# Source: HMG, Ministry Of Health, Department of Health Services, Child Health

Division (1994). Nepal

# Appendix -VII

# **CLASSIFICATION AND TREATMENT IN THE YOUNG INFANT (AGE LESS**

## THAN 2 MONTHS)

	-Stopps feeding well		
	-Convulsions		
	-Abnormally sleepy		
SIGNE	-Stridor in calm child or		
SIGNS	-Fever or low body temperature		
	-Grunting		
	-Apnoeic episodes		
	-Distended and tense abdomen		
CLASSIFY AS	VERY SEVERE DISEASE		
TREATMENT	-Refer urgently to hospitals		
	-Keep young infant warm		
	- Give 1 <sup>st</sup> dose of antibiotics		

SIGNS	- Severe chest indrawing or	- No chest indrawing
	fast breathing( more than 60	-No fast breathing
	per minute	(Less than 60 per minute)
CLASSIFY AS	Severe pneumonia	No pneumonia
		Cough or cold
TREATMENT	-Refer urgently to hospitals.	Advise mother to give the
	-Keep young infant warm	following;
	-Give 1 <sup>st</sup> dose of an anti-	-keep young infant warm.
	biotics	-breast feed frequently
	-Treat fever if present	- Clear nose if it interferes
	-Treat wheezing if present	with feeding.
	(if referral is not possible	- Return quickly if:
	treat with an antibiotic and	- Breathing becomes difficult
	follow closely)	- feeding becomes a problem
		- The young infants becomes
		sicker.

Source: HMG/Ministry of Health, Department of Health services (1994). Child

Health Division, Nepal

#### LEARNING OBJECTIVES OF ARI CASE MANAGEMENT TRAINING

By the end of the training, the FCHV will be able to:

HExplain the definition of ARI, cough, cold and pneumonia.

H Explain the dangers of pneumonia if not treated.

H Recognize the danger signs for young infants (0-2 months)

- Fast breathing
- Severe chest indrawing
- Stopped feeding well
- Abnormally sleepy or difficult to wake
- Fever
- Low body temperature

H Recognize the danger signs for young children (2 months - 5 years)

- Chest indrawing
- Not able to drink
- Abnormally sleepy or difficult to wake
- Severe under nutrition.

HCount the respiration rate correctly. The cutoff rates for severe ARI are as

follows;

	<	• .• /	• .
0 to 2 month	60 or more r	respiration /	minutes
		copilation /	mmates

- 2 months to 5 years 50 or more respiration / minutes

H Classify the illness of the young infants(o to 2 months) into two groups:

- Those to be given home therapy only.

- Those to be referred to a health facility.

H Classify the illness of the young infants(2 months to 5 years) into three groups:

- Those to be given home therapy only.
- Those to be treated by FCHV.
- Those to be referred to a health facility.

H Assess the young infant or child, illness by asking the following:

- How old is the child?
- Is the child coughing ?
- Is the child (2 months to 5 years) able to drink?
- Has the young infants (0 to2 months) stopped feeding well?
- Is the child difficult to wake?

H Count young infants and child's respiration using an electronic timer.

H Look and feel for danger signs :

- Chest indrawing
- Severe under nutrition (2 months to 5 years).
- Fever or low body temperature ( o to2 month ).

H Advice mothers/ care taker about home therapy:

- Watch child for fast breathing and chest indrawing
- Keep child warm
- Breast feed more often.
- Increase fluids
- Keep nose clean and clear

H Decide correct treatment for children (2 month to 5 years) for pneumonia (50 or more respiration/ minute) with co-trimoxazole paediatric tablets:

- 2 month to 1 year	2 tabs morning and evening for 5 days.
---------------------	--

- 1 year to 5 years 3 tabs morning and evening for 5 days.

H Provide correct number of tablets to mothers.

H Demonstrate to mothers how to crush, mix and feed tablets to child

H Advise correct medicine dosage, dose frequency and duration

H Advise the mothers about prevention of ARI developing into pneumonia.

- Exclusive breast feeding

- Feed nutritious weaning food.

- Immunization

- Avoid smoke, dust and dampness.

H Follow up and reassess pneumonia on third day to see if the mother is feeding the medicine, teach home therapy and refer if condition is same or getting worse.

H Follow-up of referred cases to see if mothers/care takers took child to health facility.

H Correct recording of services provided.

Source: Allen, K., lamichhane, K., Dawson, P., (1997). ARI trainers guide for community level health workers. John snow Incorporate. In collaboration with CDD/ARI section. Child health division, department of health services, Ministry of Health, Nepal.

# Appendix – IX

# Estimated Total Population and Under 5 year old population of Nepal in 1994/1995

Region	Total Population	No. of Child <5 years age
Eastern	4,799,942	617,517
Central	6,720,992	939,334
Western	4,070,327	602,143
Mid-western	2,612, 534	422,488
Far western	1,824, 688	312,575
Total	20,028,483	2,948,047

Source: Annual Report of Department of Health Services (1995) Ministry of Health,

Nepal

# Identified ARI case by stage in July 1994 to June 1995

Stage of ARI	%	
% of No Pneumonia	40%	
% of Pneumonia	46.9%	
% of Severe pneumonia	13.1%	

Source: Annual Report of Department of Health Services (1995) Ministry of Health,

Nepal

# Appendix - X

# Estimated ARI infection By Region

Region	Total	No. of	Estimated No.	Estimated No.
	Population	Child <5	of under 5	of under
		years age	year old	serious ARI (
			ARI/year ( 5	60%)
			episode/year)	
Eastern	4,799,942	617,517	3,087,585	1,852,551
Central	6,720,992	939,334	4,696,670	2818,002
Western	4,070,327	602,143	3,010,715	1,806,429
Mid-	2,612, 534	422,488	2,112,440	1,267,464
western				
Far western	1,824,688	312,575	1,562,875	937,725
Total	20,028,483	2,948,047	1,447,0285	8,682,171

Source: Based on Annual Report of Department of Health Services (1995). Ministry

of Health, Nepal.

# Appendix - XI

# Comparisation of Supply of Co-trimoxazole to the incidence of Severe ARI

Region	Estimated No.	Average	No. of tablet	Deficit No of
	of under	No. of	required	tablet required
	serious ARI (	tablets	(A * 5 )	for serious
	60%)	supplied in		ARI
	A	two year	С	(B - C)
		В	6	
Eastern	1,852,551	1,743,500	9,262,855	7,519,255
Central	2818,002	2,281,500	14,090,010	11,808,510
Western	1,806,429	1,448,500	9,032145	7,583,645
Mid-western	1,267,464	1,093,500	6,337,320	5,243,820
Far western	937,725	753,000	4,688,625	3,935,635
Total	8,682,171	7,320,000	43,410,955	36,090,955

\*Source: Based on Supply list of Essentials drugs 1995 and 1996 supplied by Logistic Management Division / Department of Health Services. Ministry of Health Nepal

# Appendix - XII

## Region wise distribution and comparisation of Co-trimoxazole for each child

Region	No. of Child <5	Supply Quantity	Estimated
	years age	of ARI drug in	number of serious
		1995	ARI (60%)
Eastern	617,517	1,87,000	2,014,551
Central	939,334	2,379,500	2818,002
Western	602,143	1,315,000	1,806,429
Mid-western	422,488	978,000	1,267,464
Far western	312,575	643 ,000	937,725
Total	2,948,047	7,320,000	8,844,171

Source: Based on Annual Report of DHS (1995) and Supply list of Essentials drugs 1995 and 1996 supplied by Logistic Management Division / Department of Health Services. Ministry of Health Nepal

#### Appendix – XIII

# Population of under 5 children. estimated ARI and severe ARI. required quantity of ARI anti bacterial in the intervention village

## a) Estimated ARI infection in the intervention village

Total	Under 5 years old	Estimated No. of ARI	Estimated No.
population of	population of the	(5 episode/child/year)	of serious
the village	village		ARI(60%)
6842	1012	5060	3036

Source: Central Bereau of Stastistics (1994) and Annual Report of Department of

Health Services (1995). Ministry of Health, Nepal.

# b) Projected death due to ARI in the Intervention village

100 thousand children dieper year and 40 % of children deaths are due to ARI

Source: MOH, 1994

Under 5 year old deaths due to all causes in the village/year =33 (child death 3.)

3 % annually)

Source: WHO, 1995

Under 5 year old deaths due to ARI in the village/ year = 13 (Calculation based on the national figures of death of under 5 child). 13 under 5 year old deaths due to ARI alone is a very high number in the above mentioned population.

Source: MOH, 1994

#### c) Comparison with supply and incidence of serious ARI.

During my visit to the intervention village, in the Sub-health post, according to the record and concerned staff, I knew that the total supply of ARI antibacterial (Cotrimoxazole) in 12 month was only 4000 tablets which was similar to the supply list received from the Logistic Management Division of Deaprtment of Health services. As we know there are average 5 episode of ARI/Child/ year in Nepal and among them 60 % are serious ARI. According to this data the required quantity of Co-trimoxazole will be:

Estimated No. of	No. of tablets	No. of tablet	Deficit No. of
serious ARI(60%)	supplied	required	tablet required for
			ARI
3036	4000	15180	11180

Source: Based on Annual Report of DHS (1995) and Supply list of Essentials drugs 1995 and 1996 supplied by Logistic Management Division / Department of Health Services. Ministry of Health, Nepal.

The above quantity shows a gross deficit of co-trimoxazole in that village.

#### d) Budget required for required quantity of Co-trimoxazole for one year.

I have tried to find out the cost of co-trimoxazole according to the market price of Nepal, which shows a very low amount.

Cost for one tablets of Co-trimoxazole = 0. 65 Paisa (Rate from the Royal Drugs Limited, a Governmental organization)

Cost of 15185 tablet = 15185  $\times$  0.65 =9870.00 (USD 100 at the rate of 68/USD)

Supply from govt. side  $4000 \times .65 = 2600.00$ Request should be made to VDC for one year  $11185 \times 65=7270.00$ Respiration timer 6 dollars/each  $\times 9=54$  @ of 70/dollar = 3780.00 All together VDC should provide Rs.11050.00 (\$190.00) for one year.

#### **DOCUMENTS AND SECONDARY DATA COLLECTION CHECK LIST**

#### Purpose:

One of the data collection techniques in this study, will be the collection of secondary data. Mostly this data is collected from the intervening village from FCHV, VHW, Sub-Health post etc

#### Records will be taken from:

- 1. Logistic Management Division, Department of Health Services Nepal
- Man Power and Institution Development Division Department of Health Services Nepal.
- 3. Central Bureau of Statistics, Planning Commission, Nepal
- 4. Thakre Sub-Health Post of Dhading Districts.

#### **Records:**

- 1. Supply record of Co-trimoxazole from the Sub-Health Post
- 2. Distribution record of Co-trimoxazole from FCHV
- 3. Morbidity and mortality data of ARI from FCHV and Sub-Health post
- 4. Health institution Statistics
  - OPD records of sub-health posts specially ARI concerned.
  - Records of ARI case by other concerned agencies.
- Gathering of information from different agencies involved in the control of ARI (WHO, UNICEF, JSI and other national agencies)

#### Appendix.- XV

#### FOCUS GROUP DISCUSSION (FGD) GUIDELINES FOR FCHV

#### (For needs assessment )

Moderator:		Note taker:	
Time:		End at:	
Place:		District:	
Covered by	HP/SHP		
Number of FCHV:			Age:
List of Participant:			

- 1. What are the major health problems among children under 5 years?
- 2. How many children you have served for last 15 days?
- 3. Approximately how many of them had ARI?
- 4. How did you manage them?
- 5. Did you have some problems/ constraints in managing the child with ARI?
- 6. What do you think of the service you provided to the children? Did any body comment on it?
- 7. What do you think could be done?

#### **Appendix - XVI**

#### SEMI-STRUCTURED INTERVIEW GUIDE LINE FOR FCHV

#### Purpose of Semi-structured interview:

Interview is suitable for use with illiterates and also has a higher response rate than written questionnaire. It helps in findings out the facts and figures in informal conversation. This type of questionnaire helps to obtain information in the treatment pattern used by the FCHV, case load, referral and outcome. It also helps in identifying problem / constraints in providing services to children.

#### Interviewee: Female Community Health Volunteer (FCHV)

Place :-

Covered by \_\_\_\_\_ HP/SHP

Education:

Name of FCHV:

Age:

No. of children covered/ Population:

Marital status: No. of children:

Working as a FCHV for \_\_\_\_years

Received training in:

1.

2.

- 3.
- 4.

#### Question:

- 1. Have you ever seen a child with breathing problems?
- 2. How do you know that a child has breathing problems?

by looking

by feeling

by symptoms

- 3. How many such cases have you seen during the last 15 days?
- 4. What did you do with such a child?
  - $\Box$  Did not do anything
  - □ Refer to HP/SHP
  - □ Home medicine
  - $\Box$  Home advice
  - $\Box$  Other
- 5. Did you feel comfortable to help the child?
- 6. What did you think the family members did with your advice?
- 7. Did the children get drugs for their breathing problems?
- 8. What drugs were used to treat breathing problems?
- 9. Where do you get the drugs?

#### **Appendix - XVII**

# FOCUS GROUP DISCUSSION GUIDELINES FOR MOTHERS OF CHILDREN UNDER 5 YEARS OLD

Moderator:		Note taker:
Time:		End at:
Place:		District:
Covered by	HP/SHP	
Number of participan	ts:-	

List of Participants:-

- 1. What are the major diseases in children (Under 5 Years) you have seen in the last year.
- 2. How were children with ARI were managed and Why?
- 3. Did anybody else help for the cases of ARI? If yes, by whom?
- 4. What did the person do? can you tell about some cases?
- 5. Did the suggestion help you? Did you get drugs? If yes, from whom?
- 6. What do you think about the help provided?
- 7. How satisfied are you with the services?

## **Appendix - XVIII**

# SUPERVISION MONITORING CHECK LIST FOR FCHV ON CASE MANAGEMENT SERVICES FOR ARI

Districts -----SHP-----

VDC----- Ward no.-----

FCHV------ Visit no. -----

Education----- (literate or illiterate)

Followed by----- Date-----

A) Training and materials Yes No

1. ARI training taken	 
2. ARI timer	 
3. ARI referral book	 
4. Treatment book	 
5. Treatment card	 
6. Co-trim tab.	 

# B) Knowledge and skills

1. Early signs of ARI (cough and cold)	 
2. Signs of pneumonia and fast breathing	 
- Cut off rate less than 2 month	 
- Cut off rate less 2- 60 months	 
3. Danger signs of pneumonia (Show the picture):	 
a) Chest indrawing	 
b) Stopped feeding well	 
c) Fever	 
d) Not able to drink	 
e) Abnormally sleepy	 
f) Severe malnutrition (2- 60 months)	 
g) Low body temp. in less than 2 month old	 
4. a) When to follow up the referral cases	 
b) What to do on the day of follow up	 
5. Knowledge about the home therapy card :	
a) The sign to look for Fast breathing	 
b) The sign to look for chest indrawing	 
c) Keep young infant warm	 
d) Breast feed frequently	 
e) Clean the nose	 
f) Give more fluid	 
g) Give more food	 

	6. Counting respiration rate by using tim	er	
	7. Treatment doses of Co-trim 2-12 mon		
	12-60 month		·
C)	Service Activities		
	1. a) Pneumonia case treated		
	2-12 month		
	12- 60 month		
	Total no.		
	b) Number of cases follow-up		
	2. Cases referred		
	- Less than 2 month		
	- 2 month to 60 month		
	- Total no.		
	3. Number of cases revisited		
D)	Medicine (Co-trim P.)		
	Received	Dispensed	Balance
E)	IEC materials received	Yes	No

**Appendix - XIX** 

# PRE TEST AND POST TEST OUESTIONAIRE FOR TRAINING ON ARI CASE MANAGEMENT FOR FCHVs

The following questions and exercises can be given to the FCHV before and after completion of the training to test their knowledge and skills.

1.	What system does ARI effect?								
	Respi	ratory		Digest	ive 🗆	Brain			
2.	One majo	or sign o	of ARI i	s?					
	Fast b	reathing	<b>g</b> 🗆	Diarrh	oea 🖸	Heada	ache		
3.	Does a co	ough and	d cold r	need mee	dical treatme	ent?			
	Yes		No		Do not kno	ow 🗆			
4.	If severe,	, can a c	hild wit	th cough	and cold de	evelop pne	eumonia	a?	
	Yes		No		Don't knov	v 🗆			
5.	Can seve	re ARI	be treat	ed at ho	me?				
	Yes		No		Don't knov	v 🗆			
6.	Is it poss	ible to k	now w	hether a	child is seri	ously ill ju	ust by tl	ne nature of cough	
	itself?								
	Yes		No		Don't knov	v 🗆			
7.	The brea	thing cu	toff for	r a less t	han two mo	nth old ch	ild is 5	0	
	Yes		No		Don't knov	v 🗆			

8.	The breathing cutoff for a 2 month to 5 years old child is 50							
	Yes		No		Don't know			
9.	Is chest in	ndrawin	g seriou	is for bo	oth age groups?	,		
	Yes		No		Don't know			
10.	Is not abl	e to dur	ing a da	inger sig	gn for 2 month	to 5 years old?		
	Yes 🗆	Don't l	know					
11.	Is it good	to know	w that F	CHV c	ounts respirator	ry rate?		
	Yes		No		Don't know			
12.	One of th	e impor	tant qu	estions	to ask the moth	er is how the stool looks like?		
	Agree		Disag	ree	Don't	know 🛛		
13.	Do you a	gree tha	it Cougl	n alone	is not a danger	sign of pneumonia?		
	Yes		No		Don't know			
14.	The moth	ners of w	which ag	ge grou	o should you as	k, " Has the child stopped feeding		
	well?"							
	0-2 ye	ears		2- 5 ye	ears 🗆	5 and more years $\Box$		
15.	Is temper	ature in	nportan	t in repo	orting ARI?			
	Yes		No		Don't know			
16.	Is co-trin	noxazol	e an im	portant	drugs to treat s	evere ARI?		
	Yes		No		Don't know			
17.	The table	et dose o	of Co-tr	imoxazo	ole for 1 year to	5 year old child is		
	a) 21	tablet m	orning	and 2 ta	blet evening			
	b) 31	tablet m	orning	and 3 ta	blet evening			
	c) 3 tablet morning and 3 tablet evening							

18. For a two month to 5 years old child treated by FCHV, She should visit the child

5<sup>th</sup> day 🗆

on

 $2^{nd}$  day  $\square$ 

3<sup>rd</sup> day 🗆

# Appendix - XX

#### **REACTION EVALUATION FOR TRAINING ON CASE MANAGEMENT**

#### OF children UNDER 5 years old with ARI

Date:

Venue:

# To enable us to improve this training, please fill out this evaluation sheet.

1) Please tick (3) one appropriate answer about the training:

I)

S.	Activity	Very good	Good	Fair
No.				
1	Objectives of the training			
2.	Training conducting method			
3.	Trainers preparation on Training			
4.	Use of training materials			
5.	Training Management			

II)	Which sessions did you like most (Mention any three)?
	a)
	b)
	c)
III)	Which sessions did you like least (Mention any three)?
	a)
	b)
	c)
IV)	What sessions are most relevant to your work? (Mention any three)
	a)
	b)
	c)
V)	Duration of Training Long $\Box$ Short $\Box$ OK $\Box$
VI)	Any suggestion to make the Training more effective in the future.

2) For each Activity (session) listed in the column tick (3) the box which you think best describes the skills you learned.

Activities	Very useful	Useful	Some what Useful	Useless
Counting the respiratory rate.				
Danger signs of young infant and				
danger signs of child in ARI				
Referral to health facility				
What to look for and what to feel for				
in an ARI child				
Practical session for measuring				
breathing rate accurately, identify	}			
chest indrawing				
Home therapy during ARI				
Treatment protocal for ARI				
Referral of ARI cases				
How pneumonia can be prevented?				
Use of record form.				

# Training Curriculum on ARI case management

# For FCHV

1st Day		Time: 5 Hour	Total session of the day: 4			
Session	Objectives	Knowledge/skills	Method	Time	Materials	Evaluation
1.	At the end of the session the participants will	-The participants	Lecture,	30	Manual, pen,	
Registration	be able to:	will get to know	Discussion,	mins	copies	
and	1. Deal with the administration issue as	each other.			program	
Introduction	registration, introduction, and	-Why the training			schedule etc	
	distribution of materials.	is organized and				
	2. Know about the training purpose.	what methods will				
	3. Know about methodology.	be used for training				
	4. Explaining the times when the course					
	starts and finishes each day and when					
	break occurs. Class contract with the					
	FCHV.					

Session	Objectives	Knowledge/skills	Method	Time	Materials	Evaluation
2.	At the end of the session participant can		- Ask the	1	-Manual,	-Asking
Introduction	explain:	-About ARI	question	hour	additional	the
on Cough,	1. What ARI is	- The degree of	- Explaining		photos of	questions
cold and	2. What cough and cold is	severity of ARI and	the manual		children with	randomly
Pneumonia	3. What pneumonia is	its consequences	pictures		ARI,	to the
	4. What may happen if pneumonia is not	particularly in	- Discussion		Enlargement of	FCHV
	treated	children			pictures used in	
	5. How a child can be treated for				manual	
	pneumonia		-			
	6. What the two age groupings are for					
	pneumonia assessment					
3.	At the end of the session participant can :	- How to count	- Asking	2	- Manual,	- Asking
Fast	1. Explain the fast breathing cut off rates	the breathing	question	hour	timers and 5 to	the
breathing	for both age groups.	rate.	- Demonstration	30	10 children less	question.
and Chest	2. Realize that counting the breathing rate is	- use timer	of respiration	mins	than 5 years of	- Giving
indrawing	necessary- estimating or requesting is not	appropriately	counting		age, video if	cases for
	good enough.	- fast breathing	- Lecture		machine and	respiration
	3. Operate the timer	cutoff rates to	- Demonstration		electricity are	counting
	4. Count the number of breaths made by the	diagnose ARI	of Timer		available.	

	trainer during one minute( When the	and severe	T			<u> </u>	
	CHW are told when to start and stop	ARI.					
	counting)						
	5. Measure the breathing rate of a child						
	using the timer and know the conditions						
	necessary for measuring breathing rate(						
	If no children available, CHW should						
	practice counting on each other)						
	6. Classify given cases as fast breathing or						
	not fast breathing						
	7. Distinguish between normal breathing	- 1 -					
	and chest indrawing.						
4.	At the end of the session participant can	- the danger signs	- ]	Reading and	1	- Manual,	- Asking
Dangers	explain:	of young infants		explaining	hour	pictures of 0 to	questions
signs	1. The danger signs for young infants (0 to	and child under 5	-	Group work		2 month and 2	randomly.
	2 month).	years of age	- ]	Danger sign		to 5 years old	
	2. The danger signs for the child (2 month			game		child and	
	to 5 years)					danger signs	
						for danger	
						signs game.	

2<sup>nd</sup> day

# Time: 5 Hours 15 minute

Total session of the day: 5

Session	Objectives	Knowledge/skills	Method	Time	Materials	Evaluation
5.	At the end of the session participant can	- what they	- By asking	15		
What we	explain:	memorized in the	some question	inutes		
learned	-Review of Day One	previous days				
yesterday		sessions.				
6.	At the end of the session participant can		-Group work for	45	- Manual,	Asking
Classificatio	explain:	- have the skill to	case studies.	minutes	pictures of	uestions
n of Illness	1. Classify the illnesses for the less than 2	distinguish	- Classification		runny nose,	
for the less	month old child into two groups; those to	condition when to	game.		danger signs,	
than 2	be given home therapy only and those to	give home	- Mini lecture		house health	
month old	be referred to a health facility	treatment,			facility for	
child		antibacterial and			classification	
		refer.			game.	
				L <u></u>		

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Session	Objectives	Knowledge/skills	Method	Time	Materials	Evaluation
7.	At the end of the session participant can		11	45	- Manual,	- Asking
Classificatio	explain:			minutes	pictures of	questions
n of Illness	1. Classify the illnesses for the 2 month to 5				runny nose,	
for 2 month	years old child into three groups; those to				danger signs,	
to 5 year old	be given home therapy only, those to be				house, CHW	
children	treated by a CHW and those to be				and health	
	referred to a health facility				facility for	
					classification	
					game.	
8.	At the end of session participant can explain:	- have skill to ask	- Explaining	1 hour	- Manual,	- Asking
Ask, Look	1. Which Questions to ask the mother.	appropriate	- Asking		Memory card	questions
and Feel	2. What to look and feel for.	question to mother	- Role play			
		and examine a				
		child.				

Session	Objectives	Knowledge/skills	Method	Time	Materials	Evaluation
9.	At the end of the session participant can	- have skill and	- Demonstration	2 hours	- Timers,	
Practical	explain:	develop confidence	- Pairs exercise	and 30	Children	
session	1. Assess real children. This includes the	in diagnose mild	on different	mins		
	following.	and severe ARI by	given cases			
	- Measure breathing rate accurately	observation,				
	- look for and identify chest indrawing.	symptoms and RR				
	- Ask question about and observe danger	counting				
	signs					
	- Make the correct classification of illness.					

3rd DAY

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Session	Objectives	Knowledge/skills	Method	Time	Materials	Evaluation
10.	By the end of the session the FCHV will	- To whom to give	- Explaining	1 hour	- Manual,	Role play
Home	be able to explain about the Home	Home therapy.	- Asking		Home	performance
Therapy	therapy during ARI.	- What Home therapy	- Showing		therapy	
		is	pictures.		card,	
		- How to teach Home	- Role play etc		cotton,	
		therapy to mothers			salt,	
					lukewarm	
1					water	
11.	By the end of the session the FCHV will	- To whom to give	- Explaining	2 hours	- Manual,	Re-
Treatment	be able to explain the treatment protocal	treatment.	- Asking		spoons,	demonstration
for 2 month	for under 5 ARI child.	- What the treatment	-Demonstration		tablets,	
to 5 years		doses for each age			clean	
old children		group.			water,	
with		- How to teach mothers			bowls and	
pneumonia		dosages and to prepare			treatment	
		and give co-			card.	
		trimoxazole tablets.				

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Session	Objectives	Knowledge/skills	Method	Time	Materials	Evaluation
12.	By the end of the session the FCHV should	When to follow-up	- Explaining	1 hour	- Manual	-Oral
Follow-up	be able to explain the follow-up and referral	children treated by	- Showing			
	of under 5 ARI cases.	the FCHV.	pictures			
		- When to follow-	- Question-			
		up children referred	answer			
		to a health facility.				
		- What to do on the				
		day of follow-up				
13.	By the end of the session the FCHV should	- Increase	-Mini- Lecture	15 mins	- Manual	Asking
Prevention	be able to explain;	knowledge in	with example			question
	- How pneumonia can be prevented.	different methods				
		that helps to				
		prevent the				
		pneumonia cases.				

Session	Objectives	Knowledge/skills	Method	Time	Materials	Evaluation
14.	By the end of the session the FCHV should	- To fill the referral	-Practical	45 mins	- Manual,	-Assured
Use of	be able to correctly fill out the report and	forms for both the	exercise		form booklet	correctness
referral,	record forms used in ARI case management;	less than 2 month			and copies of	in filling out
treatment		old and 2 month to			actual forms	forms
and case		5 years old child.			of practice	
tally record		- To fill the				
form.		treatment form for				
		2 month to 5 year				
		old child.				
		- To fill the Case				
		Tally Record Forms				
		(All ARI cases for				
		all age group)				

Source: Allen, K., Lamichhane, K., Dawson, P., (1997). ARI trainers guide for community level health workers. John snow Inco. In

collaboration with CDD/ARI section. Child health division, department of health services, Ministry of Health, Nepal.

# **CURRICULUM VITAE**

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