

## References

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**Appendix 1**  
**Questionnaire**

The research instrument used for the study  
"The Determinant Factors Affecting the Attendance of  
Antenatal Care Service in Manikhel Village, Nepal"

This questionnaire is used to interview for women age  
between 15-45 who had delivered a baby within last 1-5 years  
in Manikhel village, Nepal.

Identification Number.....[ ] [ ] [ ]  
Address: Village.....Ward No.....[ ] [ ]  
Date of interview.....YY.....MM.....DD  
Interview started at.....Finished at.....Total Time.....  
Interviewer.....

## Part I

## Section I

## General socio economic characteristic of subjects.

1. Age .....in years.
2. What is your religion ? [ ]
  - [ ] 3. Hindu
  - [ ] 2. Buddhist
  - [ ] 1. Christian
  - [ ] 0. Others, specify.....
3. What is your year of education ? [ ]
  - [ ] 4. Illiterate
  - [ ] 3. Primary school
  - [ ] 2. Secondary school
  - [ ] 1. High school
  - [ ] 0. Others, specify.....
4. What is your caste ? [ ]
  - [ ] 3. Brahmin
  - [ ] 2. Chhetri
  - [ ] 1. Tamang
  - [ ] 0. Others, specify.....



5. What was main occupation when you got this pregnant ? [ ]
- [ ] 3. Housewife
- [ ] 2. Agriculture
- [ ] 1. Self business
- [ ] 0. Others, specify.....
6. What was your family type ? [ ]
- [ ] 2. Single family
- [ ] 1. Joint family
- [ ] 0. Extended family
8. What was family annual income ? [ ]
- [ ] 2. < 5000
- [ ] 1. 6001-10,000
- [ ] 0. ≥ 11,000



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## Section II

## Obstetric information of subjects

1. Gravida .....[ ] [ ]
2. Number of living children .....[ ] [ ]
3. Number of under fives years children.....[ ] [ ]
4. Did you see anyone for a check-up this pregnancy ? [ ]
- [ ] 1. Yes
- [ ] 0. No
5. If yes, who did you see ? [ ]
- [ ] 4. Midwife
- [ ] 3. Health assistant
- [ ] 2. Traditional birth attendant
- [ ] 1. Traditional healer
- [ ] 0. Other
6. Did you have any complications during previous pregnancy ? [ ]
- [ ] 1. Yes
- [ ] 0. No

7. If yes, type of complications [ ]
- [ ] 3. Bleeding per vagina
- [ ] 2. Abortion
- [ ] 1. Prolonged labor
- [ ] 0. Others, specify.....
8. Did you had any complication during present pregnancy ? [ ]
- [ ] 1. Yes
- [ ] 0. No
9. If yes, type of complications [ ]
- [ ] 4. Bleeding per vagina
- [ ] 3. Headache
- [ ] 2. Abortion
- [ ] 1. Prolonged labor
- [ ] 0. Other, specify .....



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## Section III

## Accessibility of ANC services at Manikhel village

1. Are any ANC services are available in your village ? [ ]
- [ ] 1. Yes
- [ ] 0. No
2. What is the distance from your home to nearest ANC services ? [ ]
- [ ] 3. < 1 kilometer
- [ ] 2. 2 - 3 kilometer
- [ ] 1. 4 - 5 kilometer
- [ ] 0. Above 5 Kilometer
3. Is it convenient for you to attend hospital when referred from health post ? [ ]
- [ ] 1. Yes
- [ ] 0. No
- [ ] 0. Other, specify .....
- 3a. If no why ? [ ]
- [ ] 3. It is too far
- [ ] 2. It is too costly
- [ ] 1. No guardian
- [ ] 0. Other, specify .....
4. Is travel cost from home to hospital expensive when refer from health post ? [ ]
- [ ] 1. Yes
- [ ] 0. No

## Section IV

## Health service information

1. How long do you have to wait for antenatal care services ? [ ]  
(From the time you registered until you were seen by health personnel)
- [ ] 2. Less than 1 hour  
[ ] 1. 1 to 2 hour  
[ ] 0. Above 3 hour
2. Do you have to pay charge for ANC service ? [ ]  
[ ] 1. Yes  
[ ] 0. No
3. Did you have pink card ? [ ]  
[ ] 1. Yes  
[ ] 0. No
4. What do you think about the services of health post's staff ? [ ]  
[ ] 2. Good services and good attention  
[ ] 1. Bad services and bad attention  
[ ] 0. Others, specify .....



5. From whom did you get the information that having  
ANC check up is important during pregnancy ? [ ]
- [ ] 7. Own idea from previous pregnancy
- [ ] 6. Mother
- [ ] 5. Husband
- [ ] 4. Friend
- [ ] 3. Health personnel
- [ ] 2. Traditional birth attendant
- [ ] 1. Books and Magazine
- [ ] 0. Other, specify.....



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## Part II

The statement concerned with pregnant women knowledge on antenatal care would you please respond to each statement that the best describe which comes closest to your knowledge.

1. Do you ever heard about antenatal care clinic ? [ ]

[ ] 1. Yes

[ ] 0. No

2. Does the antenatal care clinic is the place that provide service to have good outcome for both mother and baby ? [ ]

[ ] 1. Yes

[ ] 0. No

3. Do you think antenatal care service is necessary during pregnancy ? [ ]

[ ] 1. Yes

[ ] 0. No

4. Is antenatal care service is important ? [ ]

[ ] 1. Yes

[ ] 0. No

5. Does pregnant women have bleeding per vagina during any time of pregnancy, they have to attend antenatal care clinic ? [ ]

[ ] 1. Yes

[ ] 0. No

6. Does pregnant women need extra food ? [ ]  
[ ] 1. Yes  
[ ] 0. No
7. Does a pregnant women need to take rest in day time during pregnancy ? [ ]  
[ ] 1. Yes  
[ ] 0. No
8. Does a pregnant women need to take immunization against tetanus toxoid during pregnancy ? [ ]  
[ ] 1. Yes  
[ ] 0. No
9. Does a pregnant women need to take care of nipple during pregnancy ? [ ]  
[ ] 1. Yes  
[ ] 0. No
10. Does pregnant women need to avoid heavy activities during pregnancy ? [ ]  
[ ] 1. Yes  
[ ] 0. No
11. Does the appropriate time for pregnant women attending antenatal care is after missing 1-3 periods ? [ ]  
[ ] 1. Yes  
[ ] 0. No

12. Does every pregnant women should received knowledge about antenatal care from health personnel ? [ ]

[ ] 1. Yes

[ ] 0. No

13. Does the every pregnant women should have delivery by health personnel ? [ ]

[ ] 1. Yes

[ ] 0. No



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## Part III

The question below concerned on pregnant women's attitude about antenatal care attendance service, would you please respond to each statement that the best describe closest to your opinion.

The score which will be allocated for positive attitude as follows:

Strongly agree = 5  
 Agree = 4  
 Not decided = 3  
 Disagree = 2  
 Strongly disagree = 1

The score which will be allocated for negative attitude are as follows:

Strongly disagree = 5  
 Disagree = 4  
 Not decided = 3  
 Agree = 2  
 Strongly agree = 1

Items	1	2	3	4	5
1. Women feel happy when they become pregnant.					



Items	1	2	3	4	5
2. During pregnancy, women feel discomfort a lot.					
3. Every pregnant women should attend ANC clinic during pregnancy.					
4. Pregnant women have to attend ANC as soon as when they know they got pregnant.					
5. It is important to attend ANC clinic according to the schedule appointment.					
6. During pregnancy, if any problems occurs pregnant women have to visit ANC clinic immediately.					
7. During pregnancy, health personnel' advice is necessary for pregnant women.					
8. Antenatal care is one of the main strategy for reducing maternal death.					
9. Pregnant women should take more food during pregnancy.					

Items	1	2	3	4	5
10. Not attending the ANC clinic because of mother inlaw.					
11. You are happy with the practice of available ANC service.					
12. Ignorance about ANC attendance is cause of maternal death.					
13. A person who used ANC service makes more likely to have birth safe.					
14. Pregnant women attending ANC service is wasting time.					
15. Pregnant women bring favorable attitude toward ANC service.					
16. ANC service is disadvantage for pregnant women.					
17. Accepting all advice from health personnel's is necessary for pregnant women.					
18. You hate antenatal care service.					
19. Hard working is better to avoid during pregnancy.					

## Part IV

Practice of the responding women towards antenatal care attendance service.

1. Do you go to antenatal care clinic for examination during your last this pregnancy ? [ ]
  - [ ] 1. Yes
  - [ ] 0. No

If yes go to question number 2  
If no go to question number 3
2. What's time of pregnant women to undergo for examination ? [ ]
  - [ ] 3. From 16-20 weeks of pregnancy
  - [ ] 2. From 21-25 weeks of pregnancy
  - [ ] 1. From 26- 30 weeks of pregnancy
  - [ ] 0. From 31-35 weeks of pregnancy
3. Why didn't you go to antenatal care clinic ?
  - [ ] 2. Due to busy house work
  - [ ] 1. Not good behavior from by health staff
  - [ ] 0. Due to far distance of ANC clinic
4. Did you take extra food during pregnancy ? [ ]
  - [ ] 1. Yes
  - [ ] 0. No

5. Did you take rest or slept at least one hour during day time after you were 5-6 months pregnant ? [ ]
- [ ] 1. Yes
- [ ] 0. No
6. Did you avoid any heavy activities during pregnancy ? [ ]
- [ ] 1. Yes
- [ ] 0. No
7. Did you regularly observe abnormal signs and symptoms e.g. edema, headache and decrease of fetal movement ? [ ]
- [ ] 1. Yes
- [ ] 0. No
8. Did you have tetanus toxoid immunization during pregnancy ? [ ]
- [ ] 1. Yes
- [ ] 0. No
9. Did you attend ANC according to scheduled appointment ? [ ]
- [ ] 1. Yes
- [ ] 0. No

From question no. 10 - 11 will be filled by interviewers using what was recorded on the pink card.

10. Weeks of gestation according to ANC attendance [ ] [ ]

1<sup>st</sup> = .....week of gestation.

2<sup>nd</sup> = .....week of gestation.

3<sup>rd</sup> = .....week of gestation.

4<sup>th</sup> = .....week of gestation.

5<sup>th</sup> = .....week of gestation.

6<sup>th</sup> = .....week of gestation.

7<sup>th</sup> = .....week of gestation.

8<sup>th</sup> = .....week of gestation.

9<sup>th</sup> = .....week of gestation.

10<sup>th</sup> = .....week of gestation.

11. Did the pregnant women have adequate ANC attendance ?

[ ]

[ ] 1. Yes

[ ] 0. No

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## Appendix 2

Summary table for different factors affecting of ANC Attendance

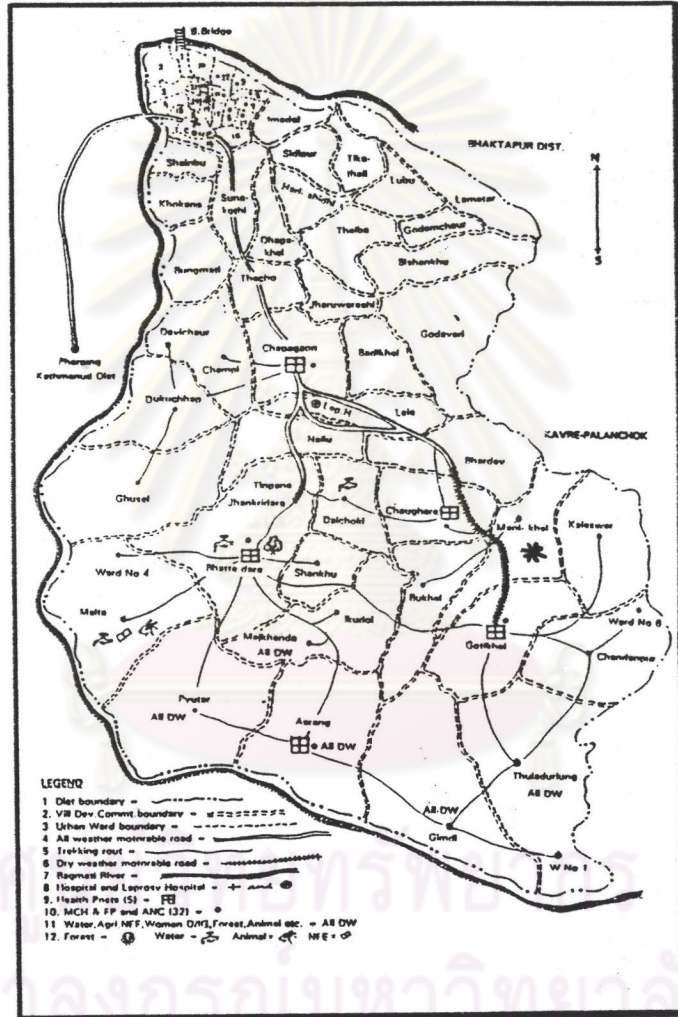
Factors	No	%	Attend of ANC		X <sup>2</sup>	p-value
			No	%		
<b>Age groups</b>						
15-19	36	13.6	26	72.2	30.84	< 0.001
20-24	83	31.4	51	61.4		
25-29	50	18.9	28	56.0		
30-34	51	19.3	19	14.3		
≥ 35	44	16.7	9	20.5		
<b>Religion</b>						
Hindu	124	47.0	82	66.1	22.03	< 0.001
Buddhist	140	53.0	51	36.4		
<b>Caste</b>						
Brahmins	88	33.3	61	69.3	21.62	< 0.001
Chhetri	21	8.0	12	57.1		
Tamang	119	45.1	45	37.8		
Others	36	13.6	15	41.7		
<b>Education</b>						
Illiterate	190	72.0	65	34.2	70.61	< 0.001
Literate	74	28.0	68	91.8		
<b>Family type</b>						
Single	118	44.7	73	61.9	11.89	< 0.001
Joint	117	44.3	50	42.7		
Extended	29	11.0	10	34.5		
<b>Annual Income</b>						
< 5,000 Rs.	110	41.7	27	24.5	55.95	< 0.001
6-10,000 Rs.	118	44.7	75	63.6		
≥ 11,000 Rs.	36	13.6	31	86.1		
<b>Gravida</b>						
1-2	49	18.6	35	71.4	11.10	< 0.001
3-4	44	16.7	22	50.0		
≥ 5	171	64.8	76	44.4		

Factors	No	%	Attend of ANC		X <sup>2</sup>	p-value
			No	%		
<b>Status</b>						
Without complication	99	37.5	39	39.4	6.96	< 0.001
With complication	165	62.5	94	57.0		
<b>ANC service available</b>						
Yes	224	84.8	123	92.5	10.98	< 0.001
No	40	15.2	10	25.0		
<b>Distance</b>						
< 3 kilometers	125	47.3	40	32.0	41.28	< 0.001
4-6 kilometers	79	29.9	44	55.7		
≥ 7 kilometers	60	22.7	49	81.7		
<b>Convenient of transportation</b>						
Convenient	102	38.6	83	81.4	61.87	< 0.001
Inconvenient	162	61.4	50	30.9		
<b>Service cost for ANC service</b>						
Yes	15	19.3	45	88.2	169	< 0.001
No	213	80.7	88	41.3		
<b>Pink card</b>						
With pink card	117	44.3	112	95.7	169.61	< 0.001
Without pink card	147	55.7	21	14.3		
<b>Impression on health personnel</b>						
Good service and good attention	28	21.1	19	67.9	12.31	< 0.001
Bad service and bad attention	77	57.9	33	42.9		
Others	28	21.0	6	21.4		

จุฬาลงกรณ์มหาวิทยาลัย

Appendix 3

Map of Community



Note: Manikhel Village \*



## VITAE

Miss Sangita Maharjan was born on October 22<sup>nd</sup> 1961 in Kathmandu District, Nepal. She graduated in Community Health Nursing with Bachelor degree in the year 1988 from Institute of Medicine Nursing Campus, Maharajgunj. She has been enrolled in the Master of Science in Health Development (Health Programme Management) at faculty of Medicine, Chulalongkorn University since 1993. Her present position is health post supervisor in the United Mission to Nepal, Community Development and Health Project.

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