

## REFERENCES

- Andrew Crees and David Parker, 1994, Cost analysis in primary health care; PP 63-66.
- D. P. A Bandy and H L Gad (1992) "Cost analysis of schistosomiasis " London, SW 7, 2 B, UK. Pp. 646.
- Durkin-Lolgley, Modern health services and health care behavior, Journal of health and social behavior, 1989, Vol-30: 412-13.
- Directorate of Health Services, Bangladesh; Health information report, 1993.
- Gule Afroz Mahbub, Country Profile on Women and Men in Bangladesh, 1993; Pp 5-9.
- International center for diarrhoeal disease research, Bangladesh; National rehydration program, 1979; Pp 1-3.
- ICDDR,B,(a) 1991, Community participation in the management of diarrhoeal diseases.
- ICDDR,B(b) Annual Report, 1993.
- ICDDR,B(c) 1994, Diarrhoeal disease research; Pp 188-189.
- Kara Hanson & Lucy Gilson, 1993. Cost resource use and financing methodology for basic health services.
- Krongkaew Medhi, "The Distribution and access to Basic Health services in Thailand" August 1979, Pp. 65
- Lucy Gilson, "Government health care charges: Is equity being abandoned ?" EPC publication Number 15, 1988, Pp. 23,32-33.
- Primary Health Care Management Program, Cost Analysis, 1988; Pp 3-5.
- Research protocol, "Evaluation of Trimethoprim sulphamethaxazole in the treatment of diarrhoea" (1988), International center for diarrhoeal disease research (ICDDR), Dhaka, Bangladesh.
- Statistical year book, 1993 ; Bangladesh Bureau of Statistics Government of Bangladesh.
- Thomas R. Zastowny, Klaus J. Roghmann and Gail cafferata, (1989), "Patients satisfaction and the use of Health Services exploration in causality" Pp. 718.
- Programme for Control of Diarrhoeal diseases, World Health Organization, 1990.

## APPENDIX

Appendix I

QUESTIONNAIRES:

ID Number /\_/\_/\_/\_/

Title: Cost Analysis of Childhood diarrhoeal Inpatients: A Case Study of Naraynganj District Hospital.

Instruction for interviewer:

A) Dear interviewer this questionnaire is designed for research purpose only. The main purpose of this study is to account the expenditure incurred by the family of children admitted in hospital for diarrhoea.

B) Read the questionnaire carefully.

C) Do not leave any space blank.

Please re-check after the completion of the questionnaire:

- ID number
- ID hospital registration number.
- Not referral patient.
- To avoid double counting ( by looking hospital record number)

(Please tick ( /) or fill in the blanks as would be required according to the questions).

ID Hospital record number /\_/\_/\_/\_/\_/

Interviewer name:.....

Date:..... Time:.....

This questionnaire has three parts:

1. General information of patient and parents.
2. Cost information.
3. Parents knowledge and attitude about rural health care system.

**PART I General information of the patient and parents:**

**Patient:**

1. Sex of child Male [ ] Female [ ]

2. Age of child

[ ] 0- 12 months

[ ] 13- 24 "

[ ] 25- 36 "

[ ] 37- 48 "

[ ] 49- 60 "

## Parents:

## 3. Information about the person who take the patient to the hospital

Information of person who take the patient to hospital	Parent		Grand parent		Other
	Mother	Father	Person 1	Person 2	Other
3.1 Age					
3.2 Sex: 1 Male 2 Female					
3.3 Work or not: 1 Yes 2 No					
3.4 Occupation: 1 House wife 2 Farmer 3 Labor 4 Business 5 Govt. service 6 Other					
3.5 Education 1 No formal edn. 2 Primary 3 Secondary 4 Graduate & above					
3.6 Average income (per month in Taka) 1 < 3,000 2 3,000-5,000 3 > 5,000					
3.7 Average income (per day in Taka)					

\* 1 \$ = 40.00 Taka.

## 4. How many persons are there in your family (Number of persons)?

[ ] < 3

[ ] 3-5

[ ] > 5

5. Do you have any other financial support ?

Yes     No

If "YES"

6. How much do you earn per month from that source ?

< 3000

3000- 5000

> 5000

7. What is your total family income per month (in taka)?

< 5000

5000- 10,000

> 10,000

8. Whether local or non local people:

Information about travelling	Home to H.center	Home to H.complex	Home to Dist. hospital
8.1 Distance(in km.)			
8.2 Time (in minutes)			
8.3 How do you go			
1 By bus			
2 By train			
3 By taxi			
4 By rickshaw			
5 By foot			
6 More than one			
8.4 How much it costs (in Taka)			

**PART II Cost information:**

9. Did you pay any registration fee for admission ?

Yes     No

If "Yes" then,

10. How much did you pay for registration ?

..... Taka.

11. Where did you admit your patient ?

Paying bed     Non-paying bed

If in paying bed then,

12. How much did you pay for bed charge ?

..... Taka.

13. How long did you stay in this hospital ?

< 5 days

5-10 days

> 10 days

14. How much did you spent for medicines and others ?

..... Taka.

15. Did you have any type of clinical laboratory investigation ?

Yes     No    If "Yes"

16. How much did you pay for the such investigations ?

..... Taka (See from the hospital record).

17. How much do you spend for your food while staying in the hospital /day?

< 100 Taka.

100-300 Taka.

> 300 Taka.

18. How much did you spend for food/fruits for your patient /day ?

< 100 Taka.

100-300 Taka.

> 300 Taka.

19. How many days were you absent from your work ?

< 5 days

5-10 days

> 10 days

20. How much amount your daily income you lost during your absent period (in Taka)?

< 1,000

1,000-3000

> 3,000

21. Did you visit your house every day ?

Yes     No        If "Yes" then,

22. How much did you pay for your transportation per visit (in Taka)?

< 50

50-100

> 100

PART III: Parent's knowledge and attitude about rural health care system.

23. Satisfaction about Health center; Please answer the following question ( Choose only one answer "Yes" or "No")

Sl.nos.	Questions	Answer	
		Yes	No
23.1	Have you ever use Health center ? Why..... ..... If yes, please answer the following questions:		
23.2	Is it convenient for you to go to the Health center from your home to see a doctor ? Why .....		
23.3	Are you satisfied with the quality of drugs in Health center ? Why .....		
23.4	Are the doctors available all the times in health center ? Why .....		
23.5	Did the doctors pay attention when you tell him about health ? Why .....		
23.6	Did you have to wait to see a doctor in Health center ? Why .....		
	If "Yes" how long you have to wait for him ? ..... minutes		



## 24. Satisfaction about Health complex:

Sl.nos.	Question	Answer	
		Yes	No
24.1	Have you ever use Health complex ? If yes, please answer the following questions:		
24.2	Is it convenient for you to go to the Health complex from your home to see a doctor ? Why.....		
24.3	Are you satisfied with the quality of drugs in Health complex ? Why .....		
24.4	Do you think that the laboratory facilities are enough in Health complex ? Why .....		
24.5	Are you satisfied about the laboratory facilities in Health complex ? Why .....		
24.6	Are the doctors available all the times in Health complex ? Why .....		
24.7	Did the doctors pay attention when you tell him about your Health ? Why .....		
24.8	Did you have to wait to see a doctor in Health complex ? Why .....		
	If Yes how long you have to wait for him ? ..... in minutes.		

Continued in the next page:

## Continuation:

24.9	Are you satisfied with the way of doctors diagnosis and tretment in Health complex ? Why ..... .....		
24.10	Did you like the nursing service towards the patient at Health complex ? Why ..... .....		
24.11	Did you like the quality of food for patient at Health complex ? Why ..... .....		
24.12	Are you satisfied in the way of food services in Health complex ? Why ..... .....		

## 25. Satisfaction about District Hospital:

Sl.nos.	Question	Answer	
		Yes	No
25.1	Is it convenient for you to go to the District hospital from your home to see a doctor ? Why .....		
25.2	Are you satisfied with the quality of drugs in District hospital ? Why .....		
25.3	Do you think that the laboratory facilities are enough in District hospital ? Why .....		
25.4	Are you satisfied about the laboratory facilities in District hospital ? Why .....		
25.5	Are the doctors available all the times in District hospital ? Why .....		
25.6	Did the doctors pay attention when you tell him about your health ? Why .....		
25.7	Did you have to wait to see a doctor in the District hospital ? Why .....  If Yes how long you have to wait for him ? ..... in minutes.		

Continued on the next page:

Continuation:

25.8	Are you satisfied with the way of doctors diagnosis and treatment in District hospital ? Why .....		
25.9	Did you like the nursing service towards the patient at District hospital ? Why .....		
25.10	Did you like the quality of food for patient at District hospital ? Why .....		
25.11	Are you satisfied in the way of food services in District hospital ? Why .....		

Definition of variables and abbreviation :

SC	Sex of the child.
AC	Age of the child.
AP	Age of the parent.
SP	Sex of the parent.
OCCU	Occupation of parent.
EDU	Education of parent.
AYM	Average income per month.
AYD	Average income per day.
TYM	Total income per month.
TUC	Time in health center.
THC	Time in health complex.
TDH	Time in District Hospital.
HUC	How to go health center.
HHC	How to go health complex.
HDH	How to go District Hospital.
D-1	Distance in health center.
D-2	Distance in health complex.
D-3	Distance in District hospital.
C-1	Cost in health center.
C-2	Cost in health complex.
C-3	Cost in District Hospital.
RF	Registration Fee.
BC	Bed charge.
MC	Medicine cost/drug cost.
LC	Laboratory cost.
FCA	Food cost attendant.
FCP	Food cost patient.
WL	Wage lost.
TCT	Total transport cost.
TCP	Transport cost patient.
TCA	Transport cost attendant.

## ITEM OF THE TOTAL PATIENT & ATTENDENT COST

APPENDIX 2

IDNO	D-1	D-2	D-3	C-1	C-2	C-3	RF	BC	MC	LC	FCA	FCP	WL	TCT	GTOT	Category
1	6	6	21	8	10	30	8	0	380	145	420	120	720	0	1823	Rural
2	3.5	9	19	20	22	32	8	188	350	320	400	160	0	180	1638	Rural
3	4	17	27	0	32	45	8	0	270	220	300	240	250	0	1333	Rural
4	5	1.5	27	10	0	43	8	0	380	350	240	120	300	160	1601	Rural
5	3.5	7	22	25	30	40	8	0	305	170	240	100	360	0	1223	Rural
6	6	7	24	20	20	36	8	0	330	350	420	200	840	0	2184	Rural
7	8	14	3	15	20	15	8	0	195	80	250	80	80	120	828	Urban
8	7	4	18	20	10	32	8	0	300	120	600	180	420	0	1660	Rural
9	3	6	17	0	11	28	0	0	110	285	240	120	320	0	1103	Rural
10	6	11	25	15	22	45	8	235	235	170	400	80	1000	240	2413	Rural
11	1.5	5	17	10	10	25	8	188	230	175	600	240	1000	200	2666	Rural
12	10	5	14	40	10	50	8	0	210	200	240	80	0	0	788	Rural
13	5	12	20	0	15	30	8	0	500	250	350	210	420	0	1768	Rural
14	3	8	23	0	20	40	8	0	280	350	320	160	600	120	1878	Rural
15	4	5	18	8	12	30	8	0	275	380	260	80	240	0	1273	Rural
16	23	6	2	40	18	12	8	188	320	350	400	80	0	100	1458	Urban
17	1	6	24	0	14	40	8	0	650	525	960	480	1550	480	4693	Rural
18	9	10	6	15	15	15	8	0	300	180	300	180	300	0	1283	Rural
19	10	4	18	15	8	30	8	0	350	180	640	240	720	240	2408	Rural
20	8	10	2.5	20	30	8	8	0	225	255	240	120	250	100	1206	Urban
21	12	5	20	20	12	30	8	0	420	330	600	120	700	0	2208	Rural
22	3	4	22	0	0	33	8	0	240	165	420	140	0	0	1006	Rural
23	1	7	20	0	20	50	8	0	300	170	480	160	500	300	2028	Rural
24	7	9	1.5	40	25	15	8	188	280	340	280	160	300	120	1691	Urban
25	15	10	2	40	25	8	8	188	120	0	200	120	0	45	689	Urban

IDNO	D-1	D-2	D-3	C-1	C-2	C-3	RF	BC	MC	LC	FCA	FCP	WL	TCT	QTOT	Category
26	7	2	18	25	0	50	8	0	400	170	270	180	450	0	1528	Rural
27	8	5	22	20	16	38	8	0	380	210	560	280	1120	160	2756	Rural
28	5	10	21	8	22	50	8	0	280	320	320	100	520	200	1798	Rural
29	3	8	25	0	15	45	8	0	280	200	320	100	0	200	1153	Rural
30	3	3	22	0	0	35	8	0	260	210	540	200	420	210	1883	Rural
31	10	5	20	0	15	40	8	0	180	190	320	120	320	160	1338	Rural
32	5	11	24	10	20	35	8	235	250	380	750	200	850	140	2848	Rural
33	20	12	4	50	90	20	8	188	115	180	280	120	0	120	1031	Urban
34	17	7	2	50	20	8	8	0	330	280	300	150	160	100	1336	Urban
35	7	2	24	22	0	44	8	0	260	235	490	210	490	0	1737	Rural
36	0.5	8	26	0	15	50	8	0	180	260	320	160	240	0	1218	Rural
37	11	6	24	26	20	50	8	376	580	210	800	240	2000	500	4764	Rural
38	3	7	30	0	10	50	8	0	400	220	1200	240	1200	500	3818	Rural
39	3	5	20	15	20	35	8	0	300	380	800	300	1250	420	3493	Rural
40	8	6	3	20	15	12	8	188	340	320	400	250	600	125	2243	Urban
41	1	9	20	0	25	40	8	0	340	270	960	240	1280	480	3618	Rural
42	0.25	11	13	0	30	50	8	0	148	275	280	120	240	200	1321	Rural
43	5	7	18	0	20	50	8	0	300	250	420	210	280	0	1518	Rural
44	4	4	16	20	16	28	8	0	300	120	240	160	280	100	1236	Rural
45	7	3	25	0	10	50	0	0	250	230	350	210	490	0	1580	Rural
46	6.5	9	21	15	20	25	8	0	425	320	420	280	840	200	2518	Rural
47	5	3	28	22	15	56	8	0	590	320	480	190	780	330	2744	Rural
48	5	1	22	25	0	60	8	0	400	550	600	160	1000	360	3138	Rural
49	17	7	2	22	15	8	8	0	250	330	240	80	200	64	1180	Urban
50	4	0.5	25	20	8	50	8	0	400	270	350	200	600	300	2178	Rural
51	13	9	3	30	22	10	8	0	540	330	480	240	300	60	1968	Urban
52	5	5	18	0	12	40	8	0	370	425	360	180	1200	240	2823	Rural

IDNO	D-1	D-2	D-3	C-1	C-2	C-3	RF	BC	MC	LC	FCA	FCP	WL	TCT	GTOT	Category
53	20	11	1.5	60	25	16	8	188	320	440	240	200	300	160	1872	Urban
54	3	3	27	0	0	40	0	0	140	0	240	120	120	0	560	Rural
55	25	15	4	50	30	15	8	188	200	230	360	240	220	120	1581	Urban
56	5	6	12	10	10	20	8	0	225	180	400	250	400	180	1663	Rural
57	2	6	24	0	15	30	8	0	220	190	280	160	280	120	1288	Rural
58	6	1.5	12	25	12	20	8	0	220	0	200	80	160	0	688	Rural
59	9	5	16	12	8	20	8	0	250	180	560	210	350	0	1578	Rural
60	0.5	1.25	13.5	0	18	46	8	0	430	0	160	100	100	0	844	Rural
61	2	7	16	0	16	26	8	0	210	175	450	150	250	200	1469	Rural
62	7	24	2	20	45	10	8	188	140	280	400	280	150	160	1616	Urban
63	1.5	5	18	0	25	30	8	0	140	190	360	160	200	0	1088	Rural
64	5	1.5	17	10	0	20	8	0	230	215	450	200	0	0	1123	Rural
65	3	3	22	0	0	34	8	0	380	185	900	420	420	150	2497	Rural
66	4	3	18	0	0	50	8	0	480	230	840	280	420	120	2428	Rural
67	9	8	4	20	20	15	8	0	180	245	400	250	375	150	1623	Urban
68	10	8	1	20	15	10	8	188	190	360	400	240	300	80	1776	Urban
69	4	4	20	0	0	25	8	0	175	150	320	120	240	0	1038	Rural
70	9	3	25	15	8	35	8	0	350	225	560	350	560	280	2368	Rural
71	5	2	28	32	20	48	8	188	370	290	1000	240	1200	0	3344	Rural
72	1	3	20	0	10	30	8	0	360	270	800	500	650	250	2888	Rural
73	1.5	7	19	0	12	22	8	0	490	350	360	120	520	80	1950	Rural
74	4	4	15	20	20	50	8	0	500	215	320	180	280	0	1553	Rural
75	5	1	12	0	8	15	8	0	300	365	400	250	600	90	2028	Rural
76	2	5	30	0	15	30	8	0	280	210	750	200	400	120	1998	Rural
77	6	4	27	15	12	25	8	0	200	160	250	150	200	0	993	Rural
78	13	9	3	20	32	12	8	0	310	220	320	120	240	150	1380	Urban
79	3.5	4	24	0	0	40	8	0	170	145	640	200	240	80	1523	Rural





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