## Health and Morbidity Status Survey- 2012

### December 2013



Bangladesh Bureau of Statistics
Statistics and Informatics Division
Ministry of Planning
Government of the People's Republic of Bangladesh

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Air Vice Marshal (Rtd.) A K Khandker
Minister
Ministry of Planning
Government of the People's Republic
of Bangladesh

#### **MESSAGE**

I am delighted to know that Bangladesh Bureau of Statistics (BBS) has successfully completed the Health and Morbidity Status Survey (HMSS) 2012 which covered morbidity, treatment, maternal health and some other health related issues. Our democratic government is committed to ensure health for all and has endorsed highest priority for the improvement of the health situation of the citizen.

It is observed that non-communicable diseases like diabetes, heart disease, high blood pressure, cancer, arthritis are increasing in Bangladesh and these are becoming a great threat for sound health while communicable diseases like diarrhoea, dysentery, typhoid and malaria are under control.

I hope, the report will be a milestone and valuable document for users to work on the public health development process and the BBS will undertake such type of important surveys on a regular interval. It is worth mentioning that Bangladesh has shown overwhelming performances reducing high rates of maternal and child mortality and integrating post-natal care in rural areas providing health facilities at the local levels and reducing treatment costs under the government health care policy. The report will be useful for designing the country's health care policy more effectively and will help to achieve the goal of 'Health for All'. The report will also be helpful to the makers & researchers who need health information frequently on different aspects to support policy undertaking and development.

I would like to express my thanks to Mr. Md. Nojibur Rahman, Secretary, Statistics and Informatics Division (SID), Ministry of Planning and Mr. Golam Mostafa Kamal, Director General, BBS for their active guidance and assistance in conducting the survey and bringing out this publication in time.

December 2013

Air Vice Marshal (Rtd.) A K Khandker (BU), MP





# Secretary Statistics and Informatics Division Ministry of Planning Government of the People's Republic of Bangladesh

#### **FOREWORD**

Health is a basic need of every individual and access to effective health care services is a fundamental right of every citizen of Bangladesh. In this context, Bangladesh Bureau of Statistics (BBS) has conducted Health and Morbidity Status Survey (HMSS) 2012 emphasizing some of the extended variables as demanded by the stakeholders. Therefore, the data on morbidity has become the most useful information to undertake preventive measures for achieving health and quality of lives where the entire population of the country could get better access to health facility.

It may be noted that this report covers a wide spectrum of maternal health, morbidity pattern and health seeking behaviour at different ages, coverage of vaccination, injury/accident and some other important issues on health. These indicators may serve as a reference guide to users for effective policy measures on health and morbidity. It will also help us to identify the areas where interventions are necessary to improve the reproductive health of women, combating HIV/AIDS and other diseases.

I hope the results of this survey will provide valuable inputs in addressing health issues properly and will facilitate in achieving some goals of MDGs. Findings of the survey by socio-demographic variables such as sex, age, and prevalence of morbidity, maternal health, types of birth attendant, antenatal care would be helpful in formulating policies for better health care services.

I express my sincere appreciation to Mr. Golam Mostafa Kamal, Director General of BBS and his colleagues for their endeavours in completion of this report successfully. My special thanks are also extended to the members of the Technical Committee headed by Professor Dr. Barkaat-e-Khuda of Dhaka University for their support and guidance in finalizing the report.

December 2013

Md. Nojibur Rahman





## Director General Bangladesh Bureau of Statistics Dhaka

#### **PREFACE**

Bangladesh Bureau of Statistics (BBS) conducted the 'Health and Morbidity Status Survey (HMSS)' in 2012. The report provides selected health indicators on morbidity, treatment & cost thereof, maternal health, vaccination and vitamin A coverage, impairments, accidents & injuries, use of tobacco and intoxicating substance etc. The indicators will be useful for monitoring and evaluating the progress of Health, Population & Nutrition Sector Development Programme (HPNSDP) and other interventions in the health sector.

BBS has been conducting the Health and Demographic Survey (HDS) since 1994. With the recommendation of the Technical Committee, the survey (HDS) has been renamed as Health and Morbidity Status Survey (HMSS) 2012. I firmly believe that considering the importance of the survey, it should be conducted on a regular interval.

The HMSS 2012 has been conducted with the Medium Term Budgetary Framework (MTBF) of the government and collected detailed information on health and morbidity.

I like to express my gratitude to the chairman of the Technical Committee, Professor Dr. Barkaate-Khuda and other members for their contribution in analytical development of the report. I am grateful to the reviewers namely Ms. Tahmina Begum, Consultant, World Bank and Dr. Nurul Alam, Scientist, icddr,b who have provided valuable inputs for the enrichment of the report. I would like to extend my sincere thanks to Mr. Jafor Ahamed Khan, Director, Mr. Abdullah Harun Pasha, Ex-Director, Demography and Health Wing, Mr. Abul Kalam Azad, Local Consultant, Mr. Md. Emdadul Haque, Focal Point Officer & Deputy Director and all other officials of BBS who contributed actively by involving themselves in various parts of the survey and make the survey successful.

Suggestions and comments for further improvement of the report are most welcome.

December 2013

Golam Mostafa Kamal (Additional Secretary)

#### **ACKNOWLEDGEMENT**

Health and Morbidity Status Survey (HMSS) has covered wide range of topics in the areas of population, health and demography. The survey has collected detail information on morbidity, treatment and treatment expenditure, health behavior, maternal and child health care, impairment, injury, accident and on tobacco/ intoxicating substance use. It has also collected information of knowledge on HIV/AIDS and TT.

I would like to express my profound regard and deep sense of gratitude to the Secretary, Statistics and Informatics Division and Director General, Bangladesh Bureau of Statistics who suggested numerous improvements to the survey completion. Their experience of various backgrounds, interest in and knowledge of the subject, helped to shape the text and codes into its final form.

I am also grateful to Mr. Jafor Ahmed Khan, Director, Mr. Abdullah Harun Pasha, former Director, BBS, Mr. Abul Kamal Azad, Consultant and the members of the working group for their various efforts to complete the survey.

I am indebted to the members of Technical Committee for providing technical inputs in finalizing questionnaire, methodology and the report. I would like to remember the contribution of the distinguished reviewers Dr. Nurul Alam, scientist, icddr,b, Ms. Tahmina Begum, consultant, World Bank and Mr. Ruhul Amin, former Deputy Director of BBS for their great contribution to enrich the draft report. I would like to offer special thanks to Mrs. Aziza Parvin, Director, Computer Wing and Mr. Karamat Ullah, Senior Programmer along his team for capturing data and also special thanks to Mr. Tahidul Islam, Deputy Director for his laborious effort to data cleaning and providing tables according to tabulation plan and thanks to S.M Anwar Husain, Statistical Investigator for Data Processing. Special thanks are due to Mrs. Jahan Afroja Begum, Statistical Officer, Mr. Md. Feroj-Evna-Yusuf, Statistical Officer, Mrs. Syeda Marufa Shaki, Statistical Officer, Mr. Lutfor Rahman, Assistant Statistical Officer, Mr. Munirul Islam, Assistant Statistical Officer, and other staff of the wing who worked hard in data editing, coding, preparing draft report. Finally I would like to thank all supervising officers especially the Regional Statistical Officers who worked hard during data collection to ensure data quality and also thanks to the Upazila Statistical Officers and other staff of BBS who worked as data collectors.

We tried our best to make the report user friendly. Any comments or suggestions for further improvement in the next round of the survey will be appreciated.

Md. Emdadul Haque
Deputy Director
&
Focal Point Officer
Health and Morbidity Status Survey-2012

## **Contents**

MESSAGE	iii
FOREWORD	v
PREFACE	vii
ACKNOWLEDGEMENT	ix
LIST of ACRONYMS	xviii
CONCEPTS AND DEFINITIONS	xix
KEY FINDINGS	xxi
EXECUTIVE SUMMARY	XXV
CHAPTER-1	1
INTRODUCTION	1
1.1 Background	1
1.2 Rationale	1
1.3 Objectives	2
CHAPTER-2	3
METHODOLOGY	3
2.1 Sample design	3
2.2 Scope and coverage	3
2.3 Questionnaire	4
2.4 Enumerators, supervisor and trainers	4
2.5 Supervision and quality control	4
2.6 Data collection	5
2.7 Data entry, processing and validation	5
2.8 Data analysis and report writing	5
2.9 Limitations	5
CHAPTER-3	7
HOUSEHOLD AND POPULATION CHARACTERISTICS	7
3.1 Age sex composition	7
3.2 Average size of households	9
3.3 Selected characteristics of households	10
3.4 Current marital status:	11
3.5 Level of education	12
3.6 Preventive measures adopted against mosquito	12
CHAPTER-4	13
MORBIDITY	13
4.1 Introduction	13
4.2 Counting of morbidity	14
4.3 Morbidity of all ages	14
4.4 Co-morbidity	16
4.5 Morbidity over the years	18
4.6 Prevalence of measles	18
4.7 Prevalence of diarrhoea and dysentery	19

4.8 Selected morbidities	22
4.9 Morbidity by age group	25
4.10 Infant (<1 year) morbidity	
4.11 Child (under 2 years) morbidity	27
4.12 Under five child (<5 years) morbidity	
4.13 Adolescent (10-19) morbidity	30
4.14 Reproductive age (15-49 year) morbidity	32
4.15 Working age (15-64 years) morbidity	33
4.16 Elderly (64+ years) morbidity	35
CHAPTER-5	37
TREATMENT STATUS	37
5.1 Population reported morbidity	37
5.2 Source of treatment	40
5.3 Reasons for not seeking treatment	41
5.4 Treatment cost	42
5.5 Morbidity consequences	43
CHAPTER-6	47
MATERNAL HEALTH CARE	47
6.1 Type of delivery	47
6.2 Assistance during delivery	48
6.3 Places of delivery	49
6.4 Ante-natal care	50
6.5 Post-natal care	51
6.6 Average expenditure for ANC, PNC and delivery care	52
6.7 TT coverage	53
CHAPTER-7	55
VACCINATION AND VITAMIN-A COVERAGE	55
7.1 Vaccination of children	55
7.2 Coverage of vitamin-A capsule	58
CHAPTER-8	
KNOWLEDGE REGARDING HIV/AIDS, TT VACCINE & NID	59
8.1 Knowledge of HIV/AIDS	59
8.2 Knowledge of prevention of HIV/AIDS	60
8.3 Knowledge of TT doses	61
8.4 Knowledge about NID	61
CHAPTER-9	63
USE OF TOBACCO AND ABUSE OF INTOXICATING SUBSTANCE	63
9.1 Tobacco users and intoxicating substance abuser (15+year)	63
9.2 Age of initiation for tobacco users and intoxicating substance abuser	66
9.3 Tobacco users by Division	66
9.4 Average expenditure per day for using tobacco and intoxicating substance abuse	67
CHAPTER-10	69
IMPAIRMENTS AND ACCIDENTS/INIURY	69

10.1 Impaired persons	69
10.2 Rate of receiving care	70
10.3 Average expenditure	71
10.4 Injured persons	72
10.5 Rate of receiving care of injured persons	73
10.6 Average expenditure of treatment due to accident	73
REFERENCES	
APPENDICES	76
APPENDIX-A: STATISTICAL TABLES	76
APPENDIX-B: COMPARISONS WITH OTHER SOURCES	94
APPENDIX-C: TECHNICAL COMMITTEE	96
APPENDIX-D: WORKING COMMITTEE	97
APPENDIX-E: PERSONS INVOLVED	98
APPENDIX-F: QUESTIONNAIRE	99

#### **List of Table**

Table 3.1:	Percentage distribution of population by sex, age group and sex ratio	08
Table 3.2:		08
Table 3.3:		09
Table 3.4:	e ,	10
Table 3.5:	The state of the s	11
Table 3.6:		12
Table 3.7:	Distribution of population by preventive measures taken against mosquitoes, sex and	
14010 3.7.		12
Table 4.3.1:		14
Table 4.3.2:		15
Table 4.3.3:		16
Table 4.4	Prevalence of co-morbidity per 1000 population by residence and sex, December,	10
1 autc 4.4		17
Table 4.5	Comparison of proportion and prevalence of morbidity per 1000 population	1 /
1 autc 4.3		18
Table 4.6:	•	19
Table 4.7.1:	Prevalence of diarrhoea and dysentery by sources of drinking water, excreta	1)
1 4010 4.7.11.	·	20
Table 4.7.2:	Prevalence of diarrhea and dysentery per 1000 population by sources of drinking	20
1 abic 4.7.2.		21
Table 4.7.3	Prevalence of diarrhoea and dysentery per 1000 population by education and sex	<b>~</b> 1
14010 4.7.3		22
Table 4.8.1:	Proportion and prevalence of morbidity per 1000 population of the selected	
14010 4.0.1.	* * * * * * * * * * * * * * * * * * * *	23
Table 4.8.2:	Proportion and prevalence of morbidity per 1000 population by selected diseases	
14010 1.0.2.		24
Table 5.1.1		 37
Table 5.1.2	Rate of receiving treatment by age, sex and residence	38
Table 5.1.3:		38
Table 5.1.4:	Proportion of morbidity for which treatment received by type of health facility	
		39
Table 5.1.5:	Proportion of persons reported morbidity of different asset quintile received	
		40
Table 5.2:	•	40
	Proportion of persons reported illness and not seeking treatment by reasons and sex.	
Table 5.3.2:	Proportion of persons reported illness and not seeking treatment by reasons and asset	
		41
Table 5.4	Average expenditure per treatment by different types of services and types of health	
		42
Table 5.5.1:	Percent of the persons reported illness needed to be hospitalized for illness,	
		43
Table 5.5.4:	Average work days lost due to illness by morbidity, December,	
	2011- February 2012	45
Table 5.5.5:	Average work days lost due to morbidity by activities and sex, December,	
	2011- February 2012	45
Table 6.2.1:	Percentage distribution of birth attendants during delivery	48

Table 6.2.2	Proportion of ever married women aged 15-49 year by birth attendant and maternal	
	age group during last 1 year of the survey	48
Table 6.2.3	Proportion of ever married women aged 15-49 year by birth attendant and asset	4.0
T 11 621	quintile during last 1 year of the survey	48
Table 6.3.1:	Places of delivery by area of residence of married women aged 15-49 years	49
Table 6.3.2:	Proportion of ever married women aged 15-49 year asset quintile and	
	place of delivery	49
Table 6.4.2:	Proportion of ever married women aged 15-49 years who gave birth during one year	
	preceding the survey visited doctor for ANC by different asset quintile	50
Table 6.5.2:	Proportion of ever married women aged 15-49 year giving birth during one year	
	preceding the survey visited for PNC by different asset quintile	51
Table 6.5.3:	Proportion of women aged 15-49 year giving birth during one year preceding	
	the survey by birth attendant and birth order	52
Table 6.6.1:	Average expenditure for ANC, PNC and delivery care	52
Table 6.6.2:	Average expenditure for ANC, PNC, Normal and Caesarean delivery by type of	
	delivery places	53
Table 6.7	Percentage distribution of ever married women aged 15-49 year who received TT	
	during their last pregnancy by residence	53
Table 7.1.1:	Children of 12-23 months who received specific vaccines by sex and residence	55
Table 7.1.4:	Children aged 12-23 months not covered with vaccination by reasons and division	. 57
Table 7.2:	Children aged 06-59 months who received vitamin-A capsule in the last NID by	
	sex, residence and division	58
Table 8.1.1:	Knowledge of population aged 15-24 years on HIV/ AIDS by learning source by	
	sex and residence (Multiple responses)	59
Table 8.1.2:	Knowledge of population aged 15-24 years on transmission mode of HIV/AIDS by	
	sex and residence	60
Table 8.2:	Population aged 15-24 years by having the knowledge of prevention of HIV/AIDS,	
	sex and residence	60
Table 8.3:	Percentage distribution of mothers with children 00-59 months having knowledge	
	about TT doses for reproductive age by residence	61
Table 8.4:	Percentage distribution of mothers with children 00-59 months having knowledge	
	about NID for vaccination by division and residence	61
Table 9.1.1:	Rate of tobacco (smoking and smokeless) users and intoxicating substance	
	abuser (15+ years) by sex and residence	63
Table 9.1.3:	Percentage distribution of smokers, smokeless tobacco users and intoxicating	
	substance abusers by level of education	65
Table 9.2:	Proportion of Smokers, Smokeless Tobacco users and intoxicating substance	
	abusers by age of initiation and by sex (%)	66
Table 9.3:	Tobacco (smoking + smokeless) users by division and sex (%)	66
Table 9.4:	Average expenditure per day for using tobacco and narcotics by sex	67
	Prevalence of physically or mentally impaired persons by sex, residence and	
	division	69
Table 10.1.2:		70
Table 10.2:	Rate of receiving care of impaired persons from any provider by residence and	. 5
	type of difficulty for last 3 months	70
Table 10.3:	Average expenditure of treatment recipients by types of impairment	71
	Prevalence of injured persons per 1000 population by types of injury and sex	72
		72
_ ~~10 10.1.2.	110 - million of impured person of piece of accident and residence	

Table 10.5.1:	Rate of receiving care of injured persons by type of treatment providers, sex and residence	73
Table 10.6.1:	Average expenditure per treatment recipient due to accident by sex and residence,	, ,
		73
Table 10.6.2:	Average expenditure per treatment recipient due to accident by sex and injury,	
		74
Table P-1:		76
Table P-2:	Percentage distribution of population by age group, sex (Chittagong Division)	76
Table P-3:	Percentage distribution of population by age group and sex (Dhaka Division)	77
Table P-4:	Percentage distribution of population by age group and sex (Khulna Division)	77
Table P-5:		78
Table P-6:	Percentage distribution of population by age group and sex (Sylhet Division)	78
Table I-1:	Nature of accident by sex and residence (%)	79
Table I-2:		79
Table M-1	Proportion (%) and prevalence of morbidity per 1000 population by sex and selected age groups	80
Table M-2:	Proportion (%) and prevalence (Per 1000 population) of morbidity from communicable and non- communicable diseases by sex	80
Table M-4:	Proportion and prevalence of infant (<1 year) morbidity per 1000 population from	81
Table M-5:	Proportion and prevalence of child (<2 year) morbidity per 1000 population by	82
Table M-6:	Proportion and prevalence of morbidity per 1000 under five (<5 year) children from	
	•	83
Table M-7:	Proportion and prevalence of morbidity per 1000 population of the adolescents (10-19 year) from the selected diseases by sex	85
Table M-8:	Proportion and prevalence of morbidity from the selected diseases of women of reproductive age (15-49 year)	87
Table M-9:	Proportion (%) and prevalence of morbidity of per 1000 working age (15-64 year) population from the selected diseases by sex	89
Table M-10:	Proportion (%) and prevalence of morbidity per 1000 population of the elderly persons (64+year) from the selected diseases by sex	
Table V-1:	Percentage of children age 12-23 months fully immunized by sex, residence and	93
Table V 2.	division	
Table V-2: Table V-3:	Percentage of children age 12-23 months who received specific vaccines by division.  Percentage of children age 12-23 months who received specific vaccines by sex and	93
	division	93
Table C-1:		94
Table C-2:		94
Table C-3:		95
Table C-4:	Mothers received TT during last pregnancy	95
Table C-5:		95
Table C-6:		95
Table C-7:	Antenatal care received by the pregnant women	95

## **List of Figures**

Fig 4.9.1:	Prevalence of morbidity per 1000 population by age group and sex, December, 2011- February 2012.	25
Fig 4.9.2:	Prevalence of morbidity per 1000 population by age group and residence,	25
Fig 4.10:	Prevalence of morbidity per 1000 infants by sex, December, 2011- February 2012	
Fig 4.11	Prevalence of morbidity (top 10 diseases) per 1000 children (under 2 Years) by sex, December, 2011- February 2012	27
Fig 4.12.1	Prevalence of morbidity (top 10 diseases) per 1000 under five children by sex, December, 2011- February 2012.	28
Fig 4.12.2	Prevalence of morbidity (top 10 diseases) per 1000 under five children by	29
Fig 4.13.1	Prevalence of morbidity (top 10 diseases) per 1000 adolescents (10-19 years) by	30
Fig 4.13.2	Prevalence of morbidity (top 10 diseases) per 1000 adolescents (10-19 years) by	31
Fig 4.14:	Prevalence of morbidity (top 10 diseases) per 1000 females of reproductive ages	32
Fig 4.15.1	Prevalence of morbidity (top 10 diseases) per 1000 working age population (15-64 years) by sex, December, 2011- February 2012	
Fig 4.15.2	Prevalence of morbidity (top 10 diseases) per 1000 working age population (15-64 years) by sex and residence, December, 2011- February 2012	
Fig 4.16.1	Prevalence of morbidity (top 10 diseases) per 1000 elderly population (64+ years)	35
Fig 4.16.2:	Prevalence of morbidity (top 10 diseases) per 1000 elderly population (64+ years) by residence, December, 2011- February 2012	
Fig 5.5.3:	Days needed to cure from morbid condition of top 10 diseases by sex,	30 44
Fig 6.1:	Percentage distribution of type of delivery by area of residence during last one year	47
Eigung 6 4 1.	<b>,</b>	
	Visit for nost notal care by types of delivery.	
•	Visit for post-natal care by types delivery.	
Fig 7.1.2:	Children of 12-23 months who received all vaccines by divisions and residence (%)	
Fig 7.1.3:	Children of 12-23 months received all vaccines by divisions and sex (%)	5/

#### LIST of ACRONYMS

AIDS : Acquired Immune Deficiency Syndrome

ARI : Acute Respiratory Infection
BBS : Bangladesh Bureau of Statistics

BDHS : Bangladesh Demography and Health Survey

CDC : Communicable Disease Control DECO : Data Entry Control Operator

EPI : Extended Programme for Immunization

ESP : Essential Service Package

FYP : Five Year Plan

FUO : Fever with Unknown OriginGOB : Government of BangladeshHDS : Health and Demographic Survey

HH : Household

HIV : Human Immune Virus

HMSS : Health and Morbidity Status Survey

HNPSP : Health, Nutrition and Population Sector Programme

HPN : Health, Population and Nutrition

HPNSDP : Health, Population and Nutrition Sector Development Programme

HPSP : Health and Population Sector Programme

IMPS : Integrated Multi Purpose SampleJSA : Junior Statistical AssistantMDG : Millennium Development Goal

MoH & FW: Ministry of Health and Family Welfare
MTBF: Mid Term Budgetary Framework
NGO: Non-Government Organization
NID: National Immunization Day

NIPORT : National Institute of Population Research & Training NIPSOM : National Institute of Preventive and Social Medicine

NSO : National Statistical Organization

PSU : Primary Sampling Unit
SA : Statistical Assistant
SI : Statistical Investigator
SMA : Statistical Metropolitan Area
SVRS : Sample Vital Registration System

SWAp : Sector-wide Approach
TC : Technical Committee
TT : Tetanus Toxoid

USO : Upazila Statistical Officer

#### CONCEPTS AND DEFINITIONS

#### Household:

A household is defined as a single person or group of persons related or unrelated to living together and taking food from the same kitchen.

#### **Household Head:**

The member of the household who is responsible for managing the family and is recognized by the members of the household to be their head.

#### **Primary Sampling Unit (PSU):**

The initial area defined and selected for enumeration is called the first stage sample or primary sampling unit. For IMPS design the mauza was selected as a PSU for rural and the mahallah for urban areas.

#### **Prevalence:**

Prevalence is defined as the number of affected persons present in the population at a specific time divided by the number of persons in the population at that time.

#### **Period Prevalence:**

Period prevalence is defined as how many people have had the disease at any time during a certain period. In this report prevalence refers to period prevalence.

#### Period Prevalence of morbidity per 1000:

(No. of cases of a disease at any time during a certain period in the population /No. of persons in the population at that specified time) x 1000

#### **Proportion:**

A part considered in relation to the whole.

#### Penta:

Combination of vaccines namely DPT= Diphtheria, Pertussis and Tetanus, Hep B= Hepatitis B, Hib= Haemophilus Influenzae type b.

#### **Comorbidity:**

The existence of two or more diseases or conditions in the same individual at the same time.

#### **KEY FINDINGS**

#### A. Population and Household Characteristics Preventive measures adopted against mosquito among population

Use of bed net	96.2%
Use of coil and others	3.2%
Use of Nothing	0.6%
Average bed room space per HH	
National	178 sq feet
Rural	181 sq feet
Urban	168 sq feet
HHs taken loan for different item	
Food item	19%
Non- food item	28%
HHs from the nearest health facilities	
Within 1 km	12.1%
1 to 4 km	73.0%

## B. Morbidity Ranking according to prevalence of morbidity per 1000 population

Disease	Rank		Prevalence	
		Total	Male	Female
Fever (FUO)	1	52.5	50.9	54.2
Arthritis	2	14.0	10.9	17.1
Peptic Ulcer	3	13.4	12.1	14.8
High Blood Pressure	4	12.4	10.5	14.4
Dysentery	5	8.3	9.1	7.5
Diabetes	6	7.8	7.7	8.0
Diarrhoea	7	6.6	6.4	6.7
Acute respiratory infection	8	4.9	5.4	4.3
Skin Disease	9	4.3	4.4	4.2
Conjunctivitis	10	4.2	3.3	5.0
Prevalence of morbidity per 1000 in	fants (<1 year)	)		
Acute respiratory infection (ARI)				72
Diarrhoea				35
Measles				22

### Prevalence of morbidity per 1000 children (<2 years)

ARI	62
Diarrhoea	44
Measles	16
Prevalence of morbidity per 1000 children (<5 years)	
ARI	40
Diarrhoea	29
Measles	10
Prevalence of morbidity per 1000 elderly population (64+ years)	
Arthritis	77
High blood pressure	52
Diabetes	36
Treatments received by types of treatment facility	
Government	22.0%
Private	68.9%
NGO	1.7%
Abroad	0.2%
Others	7.3%
C. Maternal Health Types of delivery	
Normal	83.6%
Caesarean	16.4%
Types of birth attendants	
Doctor/ Nurse	31.5%
Others	68.5%

#### Places of delivery

Health care facility	31.4%
Home	68.6%
Ante natal care	
No consultation with doctor	21%
More than 4 times consultation with doctor	22%
Average expenditure for Ante-natal care	Tk. 1187
Post natal care	
No consultation with doctor	39%
Mothers with caesarean delivery consulted more than 4 times	14%
Mothers with normal delivery consulted more than 4 times	8%
Average expenditure for Post-natal care	Tk. 1017
D. Coverage of vaccination by doses among children (12-23 months)  BCG	88%
Measles	79%
All vaccines	70%
Coverage of vaccination among children (12-23 months)	
Highest in Rajshahi Division	81%
Highest in Rajshahi Division  Lowest in Sylhet Division	81% 61%
Lowest in Sylhet Division	
Lowest in Sylhet Division	
Lowest in Sylhet Division  E. Tobacco users among population aged 15 years and above	61%
Lowest in Sylhet Division  E. Tobacco users among population aged 15 years and above  Total	33.5%
Lowest in Sylhet Division  E. Tobacco users among population aged 15 years and above  Total  Smoking  Smokeless tobacco	33.5% 19.8%
Lowest in Sylhet Division  E. Tobacco users among population aged 15 years and above  Total  Smoking	33.5% 19.8%

#### Average expenditure per day per capita for using tobacco and intoxicating substance

Sex	Per day average expenditure (Tk)					
	smoking	intoxicating substance	smokeless tobacco			
Male	16.27	34.57	5.56			
Female	8.48	11.87	4.47			
Total	15.76	31.05	4.90			

## F. Knowledge of population aged 15 -24 regarding HIV/AIDS Sources of learning about HIV/AIDS (Multiple responses)

Television	61%
Educational Institution	22%
Radio	21%
Billboard/poster	13%
Relatives/ Friends	17%

#### Don't know about

Mode of transmission of HIV/AIDS	13%
Preventive measures of HIV/AIDS	17%

#### Prevalence of impaired persons per 1000 population

Total	7.2
Highest in Barisal Division	8.7
Lowest in Rangpur Division	3.3

#### G. Injury/accident

#### Prevalence of injured persons per 1000 population

Total	7.0
Male	9.3
Female	4.6
Prevalence of severe burn per 1000 population	
Male	0.2
Female	0.3

#### **EXECUTIVE SUMMARY**

#### Introduction

The survey on Health and Morbidity Status was conducted by Bangladesh Bureau of Statistics (BBS) in 2012 under the development programme of Medium Term Budgetary Framework (MTBF). Initially the name of the survey was Health and Demographic Survey. Considering the subject matters of the survey, members of the technical committee proposed to rename it. Henceforth, the competent authority agreed to rename it as Health and Morbidity Status Survey (HMSS) 2012.

The survey has collected detailed information on morbidity, treatment and treatment expenditures, health behaviour, maternal and child health care, use of tobacco/intoxicating substance, impairment, and injury/accident. It has also collected information about the conception on HIV/AIDS and TT. The findings of the survey will be helpful to monitor the progress of various initiatives implemented by Government for achieving the targets of MDGs in health sector.

#### Survey period & sample size

The survey was conducted throughout the country since 26<sup>th</sup> February, 2012 and continued up to 06<sup>th</sup> March, 2012 using IMPS design of BBS. IMPS design was comprised of 1000 Primary Sampling Units (PSUs) of which 640 were in the rural and 360 were in the urban areas. Each PSU comprised around 250 households .Thirty households were selected from each of the PSU following systematic random sampling technique. Thus a total number of 30,000 HHs were covered in the survey where 19200 were from rural and 10800 from urban areas.

#### **Findings**

#### **Morbidity status:**

The prevalence of overall morbidity per 1000 population of all ages during last 90 days of the survey in 2012 was 186 and in 2000 it was 188. That is, overall morbidity remains almost same from 2000 to 2012.

In 2012, the prevalence of morbidity per 1000 population of the age group 15-29 year was 96.1 and it was the lowest among different age groups. Males were more morbid compared to females from infant to the age of 14. After the age of 14, females were more morbid than males. Morbidity declined from infant to age group 15-29 and after that it increased with the increase of ages for both sexes. For all the age groups, morbidity among urban people was more compared to rural people.

According to prevalence, fever (FUO) was highest in ranking and its prevalence per 1000 population was 52.2. There was an increasing trend in non-communicable diseases like arthritis, diabetes, high blood pressure, heart diseases, cancer etc. over the years. In 2000, the prevalence of arthritis, diabetes, heart disease and cancer per 1000 population was 4.7, 2.7, 1.6 and 0.4 and those in 2012 was 14.0, 7.8, 3.3 and 0.6 respectively.

Arthritis was 2<sup>nd</sup> in ranking and its prevalence per 1000 population was 14.0 .3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> highest prevalence per 1000 population belonged to peptic ulcer, high blood pressure and dysentery respectively. Prevalence of high blood pressure in urban areas (20.2) was almost double compared to that in rural area (10.1). Diabetes in urban area (15.6) also occurred almost double than that in rural area (7.8). Prevalence of asthma & heart disease was also higher in urban areas compared to rural areas. The prevalence of diarrhoea per 1000 population decreased from 14.0 in 1994 to 6.6 in 2012.

Proportion of most of the diseases was higher among persons with lowest asset quintile and usually it had a decreasing trend among the people with upper asset quintiles. The opposite scenario existed for non-communicable diseases like diabetes, high blood pressure and cancer. The proportion of diabetes was 41.9% among persons of the highest asset quintile and in the lowest asset quintile it was 10.3%. Proportion of high blood pressure and cancer among persons of highest asset quintile was 32.4% and 32.6% respectively.

Prevalence of co-morbidity per 1000 population was 52.3. It was higher in urban areas (60.8) compared to that of rural areas (49.7). In all age group except 80 and above co-morbidity was higher in urban areas compared to rural areas. Overall co-morbidity existed more in female compared to male in both urban and rural areas.

Prevalence of measles among 1000 infants (<1 year) was 22 where it was 27.6 among males and 16.2 among females. It is remarkable that as the minimum age of receiving the vaccine of measles is 9 month., prevalence was very high among the infants.

In under five child (<5 years) age group, all the 10 top diseases had higher prevalence in male compared to female. Prevalence of fever per 1000 children under 5 years was 59.1 followed by acute respiratory infection, diarrhoea, dysentery and measles with the prevalence of 39.8, 28.5, 14.0, 9.7 respectively.

In reproductive age group of women, fever (FUO) was highest with prevalence of 56.4 per 1000 where 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> highest prevalence belonged to peptic ulcer, high blood pressure and arthritis with prevalence of 15.0, 13.1 and 12.7 respectively.

In the working age group (15-64 year), fever (FUO) had the highest prevalence with 55.9 per 1000 of where peptic ulcer, arthritis and high blood pressure had the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> highest prevalence with 18.7, 15.8 and 15.8 respectively.

Arthritis, high blood pressure, diabetes and cataract had the prevalence 76.9, 52.1, 36.4 and 31.1 respectively per 1000 elderly population (64+ year). Prevalence of tuberculosis was 3.4 (where it was 5.5 in male and 1.2 in female). Prevalence of both high blood pressure and diabetes were higher in male compared to those in female. But prevalence of arthritis per 1000 population was higher in females (91.0) than that in males (63.7).

#### **Treatment status**

For the last 90 days of the survey, about 69% treatments were received from private institute and 22% from govt. institute. About 62% treatments from doctor and 3.6% from homeopathic doctor. More than 20% treatments were received from pharmacy/dispensary worker/compounder and others. Average expenditure per treatment recipient for all visits for 3 months in the Govt. health facilities was Tk.1047 whereas it was Tk. 1057 in private health facilities, Tk.727 in NGO and Tk. 5944 in health facilities in abroad. Rate of hospitalization for females was lower compared to males in both rural and urban areas.

#### Maternal health care

About 83.6% deliveries were normal and 16.4% were caesarean among the women aged 15-49 year who gave birth during the last one year of the survey. In rural areas, 87.4% deliveries were normal and 12.6% were caesarean. In urban areas about one-third (30.7%) deliveries were caesarean. About 69% deliveries of ever married women aged 15-49 year during last 1 year of the survey occurred at home. In the rural areas home deliveries were about 74% and these were about 50% in urban areas. About 14% deliveries were in Govt. hospital, 15% were in private hospital and 2% were in NGO health care centre.

About 21.2% deliveries of ever married women aged 15-49 year during the last one year of survey were attended by doctors, 10.3% by nurse, 36.2% by trained midwives and 3.3% by health workers, 14.0% by untrained midwives and 15.0% by others.

For more than 80% deliveries of ever married women aged 15-49 during last 1 year of the survey living in lowest and 2<sup>nd</sup> lowest asset quintile, were taking place at home. About 50% deliveries of the mothers of the same age living in highest asset quintile happened in health care institutes.

It is observed that there was a negative correlation between birth order and birth attendants as doctor or nurse. With the higher birth order there was a trend of attending more untrained birth attendants during deliveries.

In all three stages ante-natal, delivery and post-natal care cost in urban area was higher than that in rural area. Average expenditure for ante-natal care was Tk.1187 whereas it was Tk.1021 in rural area and Tk.1814 in urban area. Average expenditure for delivery care in case of cesarean Tk.13032 and in case of normal delivery the cost was Tk.1251. The expenditure for caesarian delivery in rural area was Tk.12535 and Tk.13804 in urban area. For normal delivery the average expenditure in rural area was Tk.1097 while in urban area it was Tk. 1982. On an average post-natal care in rural area was Tk.889 and in urban area it was Tk.1503.

#### Use of tobacco

About 33.5% population (15+ year) used tobacco where 44.3% were male and 23% were female. More people in rural area (35.3%) used tobacco than people in urban areas (27.8%). Rate of smokers was 19.8% and the rate of smokeless tobacco (tobacco leaf, zarda, gull) users was 16.8%. More male were engaged in smoking and in abusing intoxicating substance. Rate of smoking, smokeless tobacco and intoxicating substance abusing was higher in rural compared to urban area. Smokeless tobacco users were more among females (20.2%) compared to male users (13.4%).

#### **Knowledge of HIV/AIDS**

Most of the people aged 15-24 years knew about HIV/AIDS through Television (61%). Only 17% people of that age knew about preventive measures of HIV/AIDS.

#### Coverage of vaccination

Coverage of all vaccines among children of 12-23 months was 70% where BCG was 88%. Vaccination coverage was highest in Rajshahi division (81%) and lowest in Sylhet division (61%) in 2012.

#### **Impaired persons**

Prevalence of impaired persons per 1000 population was 7.2 and it was 7.3 in rural and 6.8 in urban areas. Male were more impaired compared to females in both national and in rural areas but in urban areas females were more impaired than males. Prevalence of impaired persons per 1000 population was the highest in Barisal division (8.7) while it was the lowest in Rangpur division (3.3).

#### Injury/ Accident

Prevalence of injured persons per 1000 population for 3 months preceding to the survey was 7.0 whereas prevalence of male injured was 9.3 and that of female was 4.6. Prevalence of severe type of injury/wound per 1000 was 1.2 where it was 1.8 for male and 0.6 for female and the proportion of severe type of injured/wounded persons among the all injured persons was 17%. Other than burn, in all types of injury males were more injured than females.

## CHAPTER-1 INTRODUCTION

#### 1.1 Background

Bangladesh Bureau of Statistics (BBS) has conducted the Health and Demographic Survey under a development project entitled "Health and Demographic Survey" (HDS) from 1994 to 1998. The survey collected detailed information on fertility, mortality, morbidity, disability, treatment and treatment expenditure, contraceptive prevalence, health behavior, perception and practices of maternal and child health care. From the findings of the surveys, BBS has published 25 reports and 15 monographs and also developed a database on health and demographic information. But due to financial constraint the project activities were discontinued after 1998. After two year's gap, in the year 2000, a Health and Demographic Survey was conducted to fulfill the demand of Ministry of Health and Family Welfare (MOH & FW). The objectives of the "HDS-2000" were to provide relevant information for effective implementation of the Essential Service Package (ESP) of the MOH & FW. With introduction and development of Health, Nutrition and Population Sector Programme (HNPSP), it was also decided that the future HDS would include some more indicators related to HNPSP. After 2000, no such survey was conducted. Initially, the name of the survey was Health and Demographic Survey-2012. With the recommendation of technical committee, the competent authority has renamed it as Health and Morbidity Status Survey-2012 and the report as Health and morbidity Status Report-2012.

#### 1.2 Rationale

Government of Bangladesh has given the highest priority to achieve the goals of Millennium Development Goal (MDG) and pursuing a series of programme and policies to reduce infant and under 5 children mortality, maternal mortality, ensure safe delivery and so on. The government's policy document entitled "Unlocking the Potential" National Strategy for Accelerated Poverty Reduction has also given priority for improvement of health through increased investment in health sector in the light of MDG.

Bangladesh has been implementing sector-wide approach (SWAp) in the Health, Population and Nutrition (HPN) sector since 1998. The first SWAp the HPSP was implemented during 1998-2003 while the second programme (HNPSP) was implemented during 2003 to 2011. The third SWAp started in July 2011. The framework of HPNSDP (2011-2016) is set against the broader perspective of the GOB's commitments (Constitution, MDGs, Vision 2021, the proposed National Health Policy and the National Population Policy, National Food and Nutrition Policy) and other programmes and the Sixth Five Year Plan (6<sup>th</sup> FYP) of GOB.

In order to provide the health services to the people properly, detailed information on health and demographic situation of the country needs to be collected on a regular basis particularly data on morbidity, impairment, maternal health, use of tobacco and injury/accidents are urgently needed to make appropriate policies for achieving the targets of HPNSDP and MDG.

Bangladesh Bureau of Statistics, the National Statistical Organization (NSO) of the government is the appropriate organization for collecting, compiling and disseminating statistics on health and demographic aspects of the population. In order to update the findings of the previous surveys, Health and Morbidity Status Survey-2012 has been conducted from the Mid Term Budgetary Framework (MTBF) of the Government budget and collected detailed information on morbidity, treatment, treatment expenditure, maternal health, vaccination & vitamin-A coverage, use of tobacco and intoxicating substance, knowledge regarding HIV/AIDS at the disaggregated level.

The survey is continuous in nature and must be continued periodically to develop and update a database that could provide indicators to monitor and evaluate the progress of the latest development of HPNSDP and MDG. The survey will also facilitate to undertake appropriate policy measures by the government to reduce morbidity and to improve maternal health with the objective of Health for all by the year 2016.

The survey results will provide the current scenario of health status which will evaluate the exact development activities of the government interventions undertaken under the HPNSDP.

#### 1.3 Objectives

The main objective of the survey is to monitor the progress of the various initiatives taken by the Government of Bangladesh to reach the health related MDG's by producing data on health and demographic indicators.

The specific objectives of the survey are:

- To show current morbidity and health status specially for infants, adolescents, youths, reproductive ages and elderly persons;
- To develop a database on health situation in the country regarding the burden of diseases;
- To know about tobacco & intoxicating substance use and also about injury/accident.

#### CHAPTER-2 METHODOLOGY

#### 2.1 Sample design

Bangladesh Bureau of Statistics (BBS) has developed an Integrated Multi-Purpose Sample (IMPS) design to conduct various demographic and socio-economic surveys based on Population and Housing Census 2001. This survey has been conducted throughout the country using IMPS design of BBS. IMPS design comprised of 1000 Primary Sampling Unit (PSU) of which 640 are in the rural areas and 360 in the urban areas. Each PSU comprises around 250 households is updated on a regular basis under Sample Vital Registration System (SVRS) programme.

#### 2.2 Scope and coverage

For Health and Morbidity Status Survey-2012 (HMSS-12), thirty households (HHs) were selected for enumeration from each PSU through systematic random sampling method and 10 more households were kept reserve in each PSU to replace of households which were found absent or abolished during survey period. Thus a total number of 30,000 HHs were covered in the survey where 19200 were from rural areas and 10800 from urban areas. Using the data of the Population Census-2011, projected households for the survey period (March, 2012) is estimated. With this estimated households and sample household sampling weights are calculated for rural, urban and divisions. Accordingly rural, urban and division level estimates are produced.

#### Distribution of 1000 PSUs and sample HHs by division and residence were as follows.

Division	PSU in IMPS and HMSS-12			Sample HHs			
	National	Rural	Urban	National	Rural	Urban	
Barisal	80	55	25	2400	1650	750	
Chittagong	179	116	63	5370	3480	1890	
Dhaka	289	172	117	8670	5160	3510	
Khulna	146	89	57	4380	2670	1710	
Rajshahi	134	88	46	4020	2640	1380	
Rangpur	117	82	35	3510	2460	1050	
Sylhet	55	38	17	1650	1140	510	
Total	1000	640	360	30000	19200	10800	

#### Estimation of sampling weight by division and residence

Division	Total HHs in 2012			Sample HHs in 2012			Sampling weight		
	National	Rural	Urban	National	Rural	Urban	National	Rural	Urban
Barisal	1947842	1627255	320587	2400	1650	750	811.6	986.2	427.4
Chittagong	5995126	4468317	1526809	5370	3480	1890	1116.4	1284.0	807.8
Dhaka	11637406	7726380	3911026	8670	5160	3510	1342.3	1497.4	1114.3
Khulna	3936135	3215280	720855	4380	2670	1710	898.7	1204.2	421.6
Rajshahi	4757590	3905531	852059	4020	2640	1380	1183.5	1479.4	617.4
Rangpur	4045170	3508029	537141	3510	2460	1050	1152.5	1426.0	511.6
Sylhet	1906623	1606131	300492	1650	1140	510	1155.5	1408.9	589.2
Total	34225892	26056923	8168969	30000	19200	10800	1140.9	1357.1	756.4

The last HDS conducted in 2000 had some differences with the current one held in 2012. HDS-2000 was conducted in 372 PSUs of the IMPS of that time where 252 were from rural and 120 were from urban areas. The data collection period was from 24<sup>th</sup> August to 2<sup>nd</sup> September 2000. So the reference period (previous 90 days) for morbidity of chronic illness covered the rainy season and for acute illnesses the reference period was the last 14 days. The questionnaire was divided into four schedules. Information of schedules 2,3,4 regarding disability, occurrence of birth, occurrence of death were collected from around 250 HHs in each PSU and schedule -1 regarding population and household characteristic, current fertility, morbidity was conducted in 30 sample households in each PSU. The total households covered in HDS- 2000 for morbidity were 11219 and in HMSS-2012 total 30000 households were covered for all sections of the questionnaire.

#### 2.3 Questionnaire

The questionnaire consists of four sections and each section comprises sub-sections. In section one demographic characteristics of the household members like vaccination of children, knowledge of TT injection, impairments, injury, tobacco and knowledge of HIV/AIDS were included with eight sub-sections. Section two consists of Socio-economic characteristics of household with eighteen questions. Section three comprises of seven subsections with information regarding health condition of members of the household during 90 days preceding of the survey. Section four covers with the information related to maternal health care. The questionnaire used for the survey is presented at appendix-F

#### 2.4 Enumerators, supervisor and trainers

Experienced BBS staff was engaged as enumerators for the survey. Deputy Directors /Regional Statistical Officers/Statistical Officers/Programmers/ Upazila Statistical Officers were appointed as trainers of the enumerators as well as supervisors of a district. The training of the trainers was held during 21-01-2012 to 25-01-2012 at the headquarters from a group of master trainers consisted of the high officials from Ministry of Health and Family Welfare (NIPSOM, NIPORT, EPI Programme) and BBS. After receiving training, the trainers provided training to the enumerators (USO/SI/SA/JSA/DECO) for each enumeration area at district headquarters during 17-02-2012 to 21-02-2012. During training at each level it strictly followed practices of interview directly at the household through field visit.

#### 2.5 Supervision and quality control

Strong supervision and control measures were taken during the field work of the survey to ensure quality of enumeration. To supervise the works of every district one supervisor was engaged. The required numbers of 64 supervisors were selected from the experienced and efficient officers of Bangladesh Bureau of Statistics both from headquarters and field level. Moreover, senior officers like Directors, Focal Point Officer from the HQ of BBS visited and supervised the data collection and the Regional Statistical Officers were also responsible for ensuring quality of data in their respective regions.

#### 2.6 Data collection

The data were collected through direct interview method. Only the selected 30 households of each PSU were interviewed by the enumerators. The enumerators collected information from the head of the household, eligible, responsible member, selected male or female persons of the respective sections. Field operation of the survey was carried out throughout the country during  $26^{th}$  February to  $06^{th}$  March 2012. The reference period for morbidity, injury/accident, physically or mentally impairment was the last 90 days. As the reference period covers only winter season, morbidity data are dominated with winter season related morbidity.

#### 2.7 Data entry, processing and validation

All the filled in questionnaires received at the head quarter were edited and coded. Data processing work was completed by Computer Wing using Customized Software (CSpro), SPSS, STATA. The survey questionnaires is a long type questionnaire, consisted of interlinked four sections and twelve sub-sections which needed to cross inter relational consistency checking. A comprehensive data entry programme with necessary validity check was developed and tested for data entry by the computer wing of BBS. A batch of well-trained and experienced data entry operators were engaged to capture data into computer. The entered data were edited manually from the filled in questionnaire and also by a computer edit programme and made error free and consistent for cross-classification. Necessary tabulations were produced and inter-table consistency was verified.

#### 2.8 Data analysis and report writing

A draft tabulation plan was prepared and developed through several meetings with a Technical Working Group, chaired by Deputy Director General of BBS. The members of this group were all Directors and senior level resource persons of BBS. Prior to survey and after getting the data, tables were generated accordingly. After receiving the final tables, data were properly analyzed and a draft survey report was produced before the Technical Committee (TC). The formation of the Technical Committee is annexed at Annexure-C.

#### 2.9 Limitations

The data were collected during Feb-26 to March-6 of 2012 using the reference period of previous 90 days from the day of interview. As the reference period covers only winter season, morbidity data are dominated by illnesses related to cold. Since the disease pattern varies from season to season over the year, to overcome the effect of seasonal variation it is needed to conduct the survey through the whole year like Household Income and Expenditure Survey. Interviewers had no medical knowledge to identify the morbidity properly, but there was an effort to overcome it by incorporating some supplementary questions in the questionnaire. For making estimates of mortality due to accident is not successful as it is a rare event and the sample size is not enough to be representative. Mothers not getting TT during last pregnancy do not mean that they are at risk, because some of them might have completed TT dose before their last pregnancy and this information is not covered in this questionnaire. Options in some questions (for example, purpose of loan, source of micro credit, nature of accidents, types of transport by which accidents occurred) were not sufficient to cover most of the probable answers and as a result, big figures came in the option 'others'. To collect data on smoking and intoxicating substance abusing as the sensitive issues, some special arrangements needed to be adopted and in front of other family members the data might be underestimated. As the prevalence of intoxicating abusers is very low, the sample size should be larger.

## CHAPTER-3 HOUSEHOLD AND POPULATION CHARACTERISTICS

Only dwelling households were interviewed in the survey. A household was defined as a person or a group of persons or a family living in a house and taking food cooked together. A household might occupy more than one house or more than one household might reside in a house.

All the usual members of a dwelling household were eligible in this survey. The members who were not absent from the household for more than six months for various purposes were treated as members of the household. Relatives, residential tutors, housekeepers stayed for more than six months in a household were also treated as members of the household.

Head of the household, or spouse of the head of the household or relevant person of the household for specific issue were the respondents of the survey. If the relevant person was unreachable after several visits then the alternative respondents were the household head or the member who knew better.

In this chapter age sex composition of the population, distribution of respondents, distribution of households with some selected characteristics, distribution of population with level of education, marital status, preventive measures adopted against mosquito are presented.

#### 3.1 Age sex composition

Size of population, its growth and age-sex structure have manifold socio-economic and demographic implications. Current age- sex structure observed in any population is the result of past trends in fertility, mortality and migration. On the other hand, age-sex composition and socio-economic variables have significant effect on fertility, mortality, nuptiality. The current age structure of Bangladesh population is young; i.e. about 32.5 percent of population is under age 15. In this section, average size of households as well as some selected characteristics of households has been provided.

Table 3.1: Percentage distribution of population by sex, age group and sex ratio.

Age group (in year)	Total (%)	Male (%)	Female (%)	Sex ratio
00-04	9.1	9.3	9.0	103.3
05-09	11.4	11.5	11.3	101.3
10-14	12.0	12.4	11.6	107.4
15-19	10.0	10.9	9.2	117.7
20-24	9.0	8.6	9.3	92.9
25-29	8.0	7.5	8.6	86.6
30-34	6.8	6.2	7.4	83.3
35-39	6.6	6.0	7.1	83.7
40-44	6.2	6.0	6.3	96.1
45-49	5.2	5.6	4.7	117.9
50-54	4.8	4.6	5.0	92.4
55-59	3.6	3.8	3.4	112.3
60-64	2.5	2.7	2.4	113.3
65-69	1.8	1.9	1.7	110.5
70-74	1.4	1.5	1.4	108.0
75-79	0.8	0.9	0.7	122.8
80 & more	0.9	0.8	1.0	87.0
Total	100.0	100.0	100.0	99.7
Number of population	137737	68779	68958	99.7

In the table 3.2, population of the survey are distributed by age group, sex, residence and by division. Such background information is helpful to interpret the findings and understand the results presented later.

Table 3.2: Distribution of population by age, residence, sex and division

Age in		National			Rural			Urban	
year	Total	Male	Female	Total	Male	Female	Total	Male	Female
<1	2403	1220	1183	1613	799	814	790	421	369
01-04	9910	5040	4870	6681	3389	3292	3229	1651	1578
05-09	15425	7773	7652	10474	5261	5213	4951	2512	2439
10-14	16337	8422	7915	11011	5733	5278	5326	2689	2637
15-19	13857	7436	6421	9008	4958	4050	4849	2478	2371
20-24	12392	5961	6431	7930	3889	4041	4462	2072	2390
25-29	11184	5169	6015	6940	3236	3704	4244	1933	2311
30-34	9458	4294	5164	5872	2618	3254	3586	1676	1910
35-39	9206	4183	5023	5689	2578	3111	3517	1605	1912
40-44	8611	4237	4374	5379	2607	2772	3232	1630	1602
45-49	7196	3907	3289	4501	2415	2086	2695	1492	1203
50-54	6618	3202	3416	4268	2005	2263	2350	1197	1153
55-59	4961	2640	2321	3288	1721	1567	1673	919	754
60-64	3524	1881	1643	2291	1203	1088	1233	678	555
65-69	2429	1273	1156	1636	860	776	793	413	380
70-74	1920	993	927	1318	680	638	602	313	289
75-79	1090	586	504	765	431	334	325	155	170
80 & more	1216	562	654	840	402	438	376	160	216

#### **Division**

Barisal	11365	5724	5641	7902	3988	3914	3463	1736	1727
Chittagong	27337	13568	13769	18186	9047	9139	9151	4521	4630
Dhaka	39439	19540	19899	23834	11802	12032	15605	7738	7867
Khulna	18558	9368	9190	11495	5842	5653	7063	3526	3537
Rajshahi	16825	8409	8416	10980	5495	5485	5845	2914	2931
Rangpur	15402	7802	7600	10857	5529	5328	4545	2273	2272
Sylhet	8811	4368	4443	6250	3082	3168	2561	1286	1275
Total	137737	68779	68958	89504	44785	44719	48233	23994	24239

## 3.2 Average size of households

The table 3.3 presents the average size of HH calculated from Population and Housing Census 2011 and this survey. In this survey, the average size of HH is 4.6 and it is 4.7 in rural and 4.5 in urban areas. The corresponding HH size in population census, 2011 is 4.4, 4.4 and 4.3 respectively. Average HH size is highest in Sylhet (5.4) and lowest in Rajshahi (4.2).

Table 3.3: Average size of households by division and residence

D:-:-:-	A	verage size of ho	useholds	
Division	National	Rural	Urban	Source
Barisal	4.8	4.8	4.6	HMSS-2012
	4.5	4.5	4.4	Population Census-2011
Chittagong	5.1	5.2	4.8	HMSS-2012
	5.0	5.1	4.9	Population Census-2011
Dhaka	4.6	4.6	4.5	HMSS-2012
	4.3	4.4	4.2	Population Census-2011
Khulna	4.3	4.3	4.1	HMSS-2012
	4.2	4.2	4.1	Population Census-2011
Rajshahi	4.2	4.2	4.2	HMSS-2012
	4.1	4.1	4.1	Population Census-2011
Rangpur	4.4	4.4	4.3	HMSS-2012
	4.1	4.1	4.2	Population Census-2011
Sylhet	5.4	5.5	5.0	HMSS-2012
	5.5	5.6	5.3	Population Census-2011
Total	4.6	4.7	4.5	HMSS-2012
_	4.4	4.4	4.3	Population Census-2011

#### 3.3 Selected characteristics of households

Some selected characteristics of households found in the survey are presented in the table 3.4. According to this survey, average bed room space per household was 178 square feet. In the rural area it was 181 and in the urban area it was 168 square feet.

More than 22% HHs fully consumed their vegetables grown up at their own premises, 6.8% HHs consumed these partially, 0.2% HHs sold these and 48.9% HHs did not grow vegetables in their premises.

More than 19% HHs had loan for food item and about 28% HHs borrowed loan for non-food items during the last 3 months of the survey. More than 15% HHs received any financial or food assistance from safety net programmes of the government during last one year of the survey.

For nonfood items, about 14% HHs received loan for agriculture, about 8% for treatment followed by construction or repairing house (7.5%). Among the HHs which had micro credit, 20.1% got from Grameen Bank, 18.4% from ASA, 10.9% from BRAC, 4.8% from Govt. organization and 45.8% from others.

About 12% HHs had the health facility within 1 kilometer and 73% HHs had health facilities within 1 to 4 km and about 4% HHs had no health facility within 8 km.

Table 3.4: Percentage distribution of households by selected characteristics and residence

Selected characteristics	National	Rural	Urban
Residential facilities			
Avg. bed room space (sq. ft)	178	181	168
Avg. residents ( per bed room)	2.4	2.4	2.2
Avg. no. of rooms ( per household)	2.5	2.4	2.6
Avg. no. of bed rooms (per household)	1.9	1.9	2.0
Use of vegetables grown in own premises			
Fully consumed	22.3	25.8	11.0
Partially consumed	6.8	8.4	1.8
Fully sold	0.2	0.2	0.2
Others	21.8	20.8	24.7
Not applicable	48.9	44.7	62.3
Received loan for	19.4	21.2	13.9
food items (last 3 months)			
Received loan for non-	27.9	29.8	21.6
food items (last 3 months)			
Received any govt. financial/food assistance under safety net programme (last 1 year)	15.4	17.9	7.3

## Loan/ assistance Purpose of loan (non-food items) (last 3 months)

Treatment	7.9	7.9	7.8
Education	4.5	4.7	4.1
Construction or repairing house	7.5	7.8	6.5
Social festival/programme	2.7	2.6	2.8
Agriculture	14.4	17.0	5.7
Others	63.0	60.0	73.1
Source of micro credit			
Govt. organization	4.8	4.9	4.6
Grameen Bank	20.1	21.8	13.4
BRAC	10.9	11.9	7.2
ASA	18.4	17.7	21.0
Others	45.8	43.7	53.8
Distance from HHs to nearest heal	th care centres		
<1 kilometer	12.1	11.3	14.4
01 to 04 km	73.0	72.0	76.4
05-08 km	11.2	12.2	8.3
09 km and more	3.7	4.6	0.9

#### 3.4 Current marital status:

Table 3.5 shows that 34% of the population aged 10 and above were never married, about 60% were currently married and about 6% were widowed/separated/ divorced. In the age group of 10-14, currently married were 0.7%, never married were 99.1% and among 15-19 age group 13.5% were currently married and 85.9% were never married. Percentage of widowed persons increased with the increase of the age.

Table 3.5: Current marital status of population by different age group.

Age group		Marital S	Status ( In Pe	rcentage)		Total	Number of
(In year)	Never	Currently	Widowed	Divorced	Separated		population
	married	married					
10-14	99.1	0.7	0.2	0.0	0.0	100	16337
15-19	85.9	13.5	0.3	0.3	0.0	100	13857
20-24	47.0	51.7	0.4	0.7	0.1	100	12392
25-29	18.8	79.4	0.7	0.9	0.3	100	11184
30-34	5.9	91.8	1.2	0.8	0.3	100	9458
35-39	1.8	95.2	2.0	0.7	0.3	100	9206
40-44	1.2	93.9	3.7	0.8	0.4	100	8611
45-49	1.0	92.1	5.9	0.6	0.4	100	7196
50-54	0.8	87.2	11.0	0.6	0.5	100	6618
55-59	0.9	81.7	16.3	0.6	0.5	100	4961
60-64	0.8	75.2	22.9	0.7	0.4	100	3524
65-69	0.9	67.7	30.7	0.3	0.4	100	2429
70-74	1.1	60.9	37.2	0.4	0.4	100	1920
75-79	0.9	56.5	42.2	0.1	0.2	100	1090
80 & more	1.5	41.7	56.2	0.2	0.4	100	1216
Total	34.0	59.6	5.6	0.5	0.2	100	109999

#### 3.5 Level of education

According to table 3.6, about 29% male of the age of 5 years and above had not passed any class of school and among female it was about 35%. It is seen in the table that up to class 9, male and female were almost same. But among male about 9% and among female about 7% completed SSC. This difference (3.3%) between male and female increased more in higher education.

Table 3.6: Level of education of population 5 years and above by sex and residence

(In Percentage)

Class passed	Na	tional	R	ural	Urban	
	Male	Female	Male	Female	Male	Female
No schooling	28.5	35.4	31.0	38.1	20.4	26.5
Primary incomplete (I-IV)	22.1	20.2	23.0	20.9	19.1	17.8
Primary complete (V)	12.6	12.2	13.1	12.5	11.0	11.2
Junior Secondary incomplete (VI-VII)	8.2	8.9	8.5	9.2	8.6	9.3
Jr. Secondary complete (VIII)	5.5	6.1	5.4	5.7	6.0	7.2
Secondary incomplete (IX)	6.8	6.9	6.5	6.4	7.7	8.5
Secondary complete (X)	9.3	6.8	8.2	5.3	13.2	11.5
Higher Secondary and above (XII+)	6.6	3.3	4.2	1.8	14.5	8.4
Others	0.1	0.0	0.1	0.0	0.1	0.1
Total	100	100	100	100	100	100

#### 3.6 Preventive measures adopted against mosquito

From the table 3.7 it is seen that 96.2% population used bed nets to protect themselves against mosquito, another 2.9% use mosquito coil and 0.6% population did not adopt any preventive measure against mosquito.

Table 3.7: Distribution of population by preventive measures taken against mosquitoes, sex and residence

(In Percentage) **Preventive Measures** National Rural Urban Total Male **Female Total** Male **Female Total** Male **Female** Bed net 96.2 96.2 96.1 96.5 96.5 96.4 95.2 95.2 95.2 Mosquito Coil 2.9 2.9 2.9 2.6 2.6 2.6 3.7 3.8 3.6 Mosquito repellant mat 0.3 0.3 0.4 0.2 0.2 0.2 0.8 1.1 0.8 and others 0.5 0.4 0.6 0.6 0.6 0.6 0.7 0.4 0.3 Nothing **Total** 100 100 100 100 100 100 100 100 100

## CHAPTER-4 MORBIDITY

#### 4.1 Introduction

The data on any acute, chronic or simple morbid conditions are collected interviewing the household members. Thirty one diseases were selected to ask and few major symptoms of respective diseases were put in the questionnaire to be confirmed about the diseases if the respondents could not show the prescription done by any medical doctor. Beyond these 31 diseases there was an option of other diseases. The reference period for this part was the previous 90 days of data collection. As the data collection period was 26 February to 6 March, 2012 the reference period covers only winter season and as a result morbidity due to cold dominated over the common diseases. So the period prevalence of morbidity of this report does not represent the general scenario of the whole year. In this report the prevalence is used as period prevalence and the period prevalence means how many people have had the disease at any time during a certain period (in this survey the period was December, 2011 to February, 2012).

Data on morbidity have been displayed in tables and also shown in graphs for selected age and risk groups such as infant and child, women of reproductive age, young, adults and the elderly people. After capturing data it is found that prevalence of diseases marked as others is very high. Then revisiting the filled in questionnaires manually it was observed that fever was reported with a very high frequency in the option of the diseases 'other'. Then the fever was recoded and found with highest prevalence. Some other diseases like heart disease also recoded from the other option. As the fever was stated according to the respondents' knowledge, no other symptoms were mentioned, it was mentioned as fever (FUO- fever with unknown origin).

During the reference period all different morbidities of person were recorded in the questionnaire. If more than one morbid person during the reference period were found in a household then extra questionnaires for this part needed to be filled in.

Names of thirty one diseases that were asked for morbidity during the reference period and were verified with some specific symptoms are: Measles, Dysentery, Goitre, Epilepsy, Rabies, Chicken pox, Conjunctivitis, Night blindness, Cataract, Arthritis, Tuberculosis, Malaria, Kala-azar, Peptic ulcer, Hepatitis-b, Diabetes, High Blood Pressure, Urinary Tract Infection, Sexually Transmitted Diseases, Arsenic affected diseases, Tetanus, Pregnant Related Complications, Newborn Complications, Acute Respiratory Infection, Mumps, Whooping Cough, Diphtheria, Infection in ears, Skin Disease, Cancer/ Malignancy and Diarrhoea. The experts emphasized on knowing the prevalence of the above mentioned diseases and included in the questionnaire. Prevalence of other important diseases were calculated by recoding them as all other diseases happened during the reference period were recorded in the option "other morbidity".

#### 4.2 Counting of morbidity

Reports of more than one disease were marked and tabulated as multiple responses. When the reported diagnosis/disease was only one, it was recorded as single response. More than one disease recorded for a person in the reference period was considered as co-morbidity. At best three diseases during reference period were recorded for a person.

#### 4.3 Morbidity of all ages

In the table 4.3, proportion and prevalence of morbidity of all ages for top 20 diseases are described. Prevalence of fever (FUO) per 1000 population was 52.5 which highest in ranking and its proportion were 28.3%. Arthritis was 2<sup>nd</sup> in ranking and its prevalence per 1000 was 14.0 & proportion 7.5%. 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> highest prevalence per 1000 belonged to peptic ulcer, high blood pressure and dysentery respectively.

Table 4.3.1: Proportion and prevalence of morbidity of all ages from top 20 diseases by sex

Selected diseases		Proportion	nal morbi	dity (%)	Prevalenc	e of morbidi	ty (Per 1000)
	Rank	Total	Male	Female	Total	Male	Female
Fever (FUO)	1	28.3	29.2	27.6	52.5	50.9	54.2
Arthritis	2	7.5	6.3	8.7	14.0	10.9	17.1
Peptic Ulcer	3	7.3	7.0	7.5	13.4	12.1	14.8
High blood Pressure	4	6.7	6.0	7.3	12.4	10.5	14.4
Dysentery	5	4.5	5.2	3.8	8.3	9.1	7.5
Diabetes	6	4.2	4.4	4.1	7.8	7.7	8.0
Diarrhoea	7	3.5	3.7	3.4	6.6	6.4	6.7
Acute respiratory Infection	8	2.6	3.1	2.2	4.9	5.4	4.3
Skin Disease	9	2.3	2.5	2.1	4.3	4.4	4.2
Conjunctivitis	10	2.2	1.9	2.6	4.2	3.3	5.0
Asthma	11	2.1	2.4	1.8	3.9	4.2	3.6
Heart disease	12	1.8	2.0	1.7	3.3	3.4	3.2
Cataract	13	1.8	1.7	1.9	3.3	3.0	3.7
Hepatitis-b	14	1.5	1.9	1.2	2.8	3.4	2.3
Measles	15	1.4	1.4	1.4	2.6	2.4	2.8
Whooping cough	16	1.4	1.8	1.0	2.5	3.1	2.0
Influenza	17	1.2	1.3	1.0	2.2	2.3	2.0
Urinary Tract Infection	18	1.0	0.9	1.1	1.9	1.5	2.3
Migraine	20	1.0	0.7	1.2	1.8	1.3	2.3
Total		100	100	100	186	174	197

Proportion of most of the diseases was higher among persons with lowest asset quintile and usually it had a decreasing trend among the people with upper asset quintiles as is found in table 4.3.2. The opposite scenario existed for non-communicable diseases like diabetes, high blood pressure and cancer. The proportion of diabetes was 41.9% among persons of the highest asset quintile and in the lowest asset quintile it was 10.3%. Proportion of high blood pressure and cancer among persons of highest asset quintile was 32.4% and 32.6% respectively.

Table 4.3.2: Proportion of morbidity of selected diseases by asset quintile

Morbidity			Asset qui	ntile (%)			Number of	
•	Lowest	Second	Middle	Forth	Highest	Total	morbidity	
Measles	23.9	20.4	21.7	23.8	10.2	100	361	
Dysentery	29.4	24.4	16.8	17.2	12.2	100	1137	
Goitre	22.4	20.7	25.7	20.8	10.4	100	114	
Epilepsy	23.0	26.0	17.2	16.2	17.6	100	95	
Rabies	24.2	24.3	19.1	19.9	12.5	100	38	
Chicken pox	30.9	22.7	19.4	15.6	11.5	100	194	
Night blindness	38.5	19.3	18.0	15.5	8.8	100	148	
Arthritis	32.4	19.3	17.9	17.1	13.2	100	1923	
Tuberculosis	28.0	23.2	17.1	19.4	12.3	100	132	
Malaria	36.9	20.8	18.2	17.4	6.7	100	194	
Kala-azar	29.3	22.4	21.9	21.3	5.1	100	159	
Peptic Ulcer	31.9	21.4	17.3	17.5	11.9	100	1829	
Hepatitis-b	32.5	21.3	16.2	21.1	9.0	100	387	
Diabetes	10.3	8.7	12.2	26.9	41.9	100	1222	
High blood Pressure	20.0	13.0	13.7	20.9	32.4	100	1896	
Urinary tract infection	26.1	19.2	20.6	16.4	17.7	100	260	
Tetanus	29.1	18.8	2.8	18.6	30.7	100	31	
New born problem	11.6	31.0	22.2	22.9	12.2	100	15	
Acute respiratory infection	28.8	22.3	17.5	18.3	13.1	100	657	
Mumps	28.2	15.6	28.0	9.3	19.0	100	64	
Whooping cough	35.5	22.2	16.6	13.8	11.8	100	366	
Diphtheria	19.1	36.7	35.7	0.0	8.6	100	10	
Skin disease	24.4	20.4	20.6	20.0	14.5	100	573	
Cancer/Malignancy	15.8	14.9	15.7	21.1	32.6	100	90	
Diarrhoea	30.5	21.7	17.9	16.4	13.5	100	910	
Fever	13.9	23.8	25.7	18.7	17.7	100	7285	
Asthma	19.4	20.6	21.5	16.8	21.7	100	547	
Heart disease	12.0	20.5	22.1	24.9	20.5	100	478	
Kidney disease	17.7	20.1	24.1	17.6	20.5	100	118	
Typhoid	17.7	25.8	25.5	16.2	14.8	100	186	
Migraine	15.1	21.6	23.8	23.1	16.4	100	256	
Tumour	15.8	20.2	29.1	23.2	11.6	100	143	
Paralysis	19.4	27.1	21.1	14.5	17.9	100	108	
Low Blood Pressure	16.8	24.6	29.0	15.5	14.0	100	106	
Hernia	15.1	26.3	29.0	12.4	17.2	100	34	
Influenza	14.4	30.5	23.2	16.1	15.8	100	292	
Back pain	20.6	27.3	20.0	18.8	13.2	100	157	
Gallbladder stone	20.4	37.0	13.5	17.2	11.9	100	34	
Stroke	19.5	15.4	13.1	24.0	27.9	100	30	
Appendicitis	15.6	21.2	33.7	15.4	14.1	100	59	
Mental Disorder	25.8	17.6	16.8	19.8	19.9	100	35	
Hepatic/Liver Diseases	25.2	36.4	15.0	16.1	7.3	100	20	
Oedema	13.5	35.7	21.7	21.7	7.4	100	30	
Abscess	10.0	48.5	7.7	24.7	9.1	100	19	
Abdominal pain	23.3	24.4	25.7	15.9	10.7	100	141	
Tonsils	18.8	30.4	17.2	19.3	14.3	100	44	
Total morbidity	21.7	21.5	20.3	18.7	17.8	100	25924	

In the table 4.3.3, it is seen that among the total morbidity, 34.7% were in Dhaka division which was highest and in Sylhet it was lowest (4.8%). In Dhaka, Rangpur and Sylhet division male were reported more morbidity compared to female.

Table 4.3.3: Proportion of morbidity by division

Division	Proportion of morbidity (%)					
	Total	Male	Female			
Barisal	4.9	4.4	5.4			
Chittagong	14.0	13.9	14.1			
Dhaka	34.7	34.8	34.7			
Khulna	15.1	14.7	15.5			
Rajshahi	12.5	12.5	12.5			
Rangpur	13.8	14.6	13.2			
Sylhet	4.8	5.2	4.5			
Total	100	100	100			

#### 4.4 Co-morbidity

From the table 4.4 it is observed that prevalence of co-morbidity per 1000 population was 52.3. It was higher in urban areas (60.8) compared to that of rural areas (49.7). In all age group except 80 and above co-morbidity was higher in urban areas compared to rural areas. Overall co-morbidity existed more in female compared to male in both urban and rural areas. The table also shows that co-morbidity was high among the infants, and then it decreased up to age 14. After that co-morbidity again increased with the increase of age up to age of 79. In the rural areas up to the age of 19, co-morbidity was higher among male compared to female, then up to the age of 54 co-morbidity in female was higher compared to male. In the urban areas, from the age of 10 to 59, co-morbidity in female existed more compared to male.

Table 4.4 Prevalence of co-morbidity per 1000 population by residence and sex, December, 2011- February 2012

(Per 1000 population)

Age group		National			Rural		(- •	Urban	opulation)
(In year)	Total	Male	Female	Total	Male	Female	Total	Male	Female
<1	42.9	46.1	39.7	40.9	43.3	38.5	50.2	55.2	44.3
00-04	30.7	36.4	24.7	29.6	34.5	24.5	34.6	43.4	25.5
05-09	18.0	20.7	15.3	16.9	20.3	13.6	21.9	22.2	21.6
10-14	14.9	15.7	13.9	14.1	15.4	12.8	17.5	16.9	18.1
15-19	19.4	19.7	19.0	17.7	18.6	16.6	24.9	23.7	26.1
20-24	24.2	18.3	29.6	24.0	17.7	29.9	24.8	20.1	28.7
25-29	36.8	25.7	46.3	36.1	23.2	47.3	38.7	33.0	43.5
30-34	54.5	42.6	64.4	56.2	45.9	64.5	49.6	33.6	63.9
35-39	66.3	50.1	79.8	60.6	42.0	75.9	83.1	73.6	91.2
40-44	72.9	59.9	85.4	69.4	58.9	79.1	83.6	62.6	104.9
45-49	91.6	75.0	111.1	88.5	75.3	103.8	101.0	73.9	134.0
50-54	101.4	92.4	109.7	92.4	85.7	98.3	130.6	112.4	149.6
55-59	125.8	123.1	128.8	114.8	116.1	113.5	164.6	146.5	186.8
60-64	136.7	145.9	126.2	128.5	137.4	118.7	163.4	172.5	152.2
65-69	149.0	153.9	143.7	147.2	154.3	139.2	155.9	152.2	159.9
70-74	173.0	180.7	164.7	156.6	160.3	152.6	237.5	258.8	213.6
75-79	199.1	199.3	198.8	190.1	176.2	208.3	238.6	318.9	164.2
80 & more	174.2	226.4	128.9	175.2	227.3	127.3	170.4	222.6	134.5
Total	52.3	49.0	55.6	49.7	46.7	52.6	60.8	56.5	65.1
Number of persons with co-morbidity	13770	6380	7390	8288	3871	4417	5482	2509	2973

#### 4.5 Morbidity over the years

Comparison of proportion and prevalence of morbidity over the years are shown in table 4.5. There is an increasing trend in non-communicable diseases like arthritis, diabetes, high blood pressure, heart diseases, cancer etc. over the years. In 2000, the prevalence of arthritis, diabetes, heart disease and cancer per 1000 population was 4.7, 2.7, 1.6 and 0.4 and those in 2012 was 14.0, 7.8, 3.3 and 0.6 respectively.

Prevalence of diarrhoea and anemia per 1000 population decreased from 14.0 in 1994 to 6.6 in 2012. Prevalence of tuberculosis per 1000 population was same in 1994 and 2012 but in 2000 it was 0.9. Prevalence of whooping cough and measles was also found higher in 2012 compared to 2000.

Table 4.5 Comparison of proportion and prevalence of morbidity per 1000 population over the years

Selected diseases	Proportional morbidity (Per 1000 population)			Prevalence of morbidity			
	HDS-1994	HDS 2000	HMSS 2012	HDS 1994	HDS 2000	HMSS 2012	
Diarrhoea	7.7	5.0	3.5	14.0	9.4	6.6	
Goitre	0.1	0.1	0.5	0.2	0.2	0.8	
Anemia	1.8	1.3	0.2	3.3	2.4	0.3	
Kala-azar	0.3	0.1	0.6	0.4	0.3	1.2	
Measles	0.5	0.7	1.4	0.9	1.3	2.6	
Pneumonia	0.6	1.3	0.0	1.1	2.4	0.1	
Tetanus	0.0	0.0	0.1	0.1	0.1	0.2	
Tuberculosis	0.6	0.5	0.6	1.0	0.9	1.0	
Diphtheria	0.1	0.0	0.0	0.1	0.0	0.1	
Whooping cough	0.5	0.2	1.4	1.0	0.3	2.5	
Arthritis	-	2.5	7.5	-	4.7	14.0	
Cancer	-	0.2	0.4	-	0.4	0.6	
Diabetes	-	1.4	4.2	-	2.7	7.8	
Heart Disease	-	0.9	1.8	-	1.6	3.3	

#### 4.6 Prevalence of measles

In the table 4.6, the prevalence of measles in different ages is shown. It is remarkable that the prevalence of measles among 1000 infants (<1 year) was 22 where it was 27.6 among male and 16.2 among female. i.e. before reaching the age of getting the vaccine of measles prevalence was very high as the minimum age of taking the vaccine of measles was 9 month. It might be the one of the causes of increasing the prevalence of measles. People of all ages also suffer from measles.

Table 4.6: Prevalence of measles per 1000 population by age, sex and residence.

Age group		Nationa	l		Rural			Urban	
(In year)	Total	Male	Female	Total	Male	Female	Total	Male	Female
<01	22.0	27.6	16.2	19.5	25.6	13.5	30.8	34.2	26.7
01-04	6.7	6.3	7.1	6.4	5.6	7.3	7.6	8.8	6.4
05-09	3.8	3.7	4.0	3.8	4.1	3.6	3.9	2.3	5.5
10-14	1.4	1.2	1.5	1.5	1.3	1.6	1.0	0.9	1.1
15-19	1.2	0.8	1.6	0.8	0.4	1.3	2.4	2.3	2.4
20-24	1.1	1.6	0.6	1.2	1.6	0.7	0.8	1.4	0.3
25-29	1.2	0.0	2.3	1.1	0.0	2.0	1.6	0.0	2.9
30-34	2.2	2.1	2.3	2.2	2.6	1.9	2.3	0.7	3.8
35-39	2.1	1.0	2.9	2.1	0.9	3.2	1.8	1.4	2.2
40-44	1.9	1.9	1.8	2.0	2.5	1.6	1.5	0.4	2.5
45-49	2.2	1.2	3.3	2.1	0.9	3.5	2.4	2.2	2.7
50-54	1.2	1.2	1.2	1.2	1.1	1.3	1.0	1.6	0.5
55-59	2.6	2.3	2.9	2.8	2.3	3.5	1.6	2.3	0.8
60-64	2.3	1.8	2.9	2.7	2.4	3.0	1.2	0.0	2.6
65-69	1.4	1.4	1.4	1.1	0.8	1.4	2.5	3.4	1.5
70-74	1.3	0.0	2.8	1.7	0.0	3.5	0.0	0.0	0.0
75-79	2.6	1.8	3.5	1.4	0.0	3.3	7.4	10.9	4.2
80 & more	2.3	5.0	0.0	2.6	5.4	0.0	1.5	3.6	0.0
Total	2.6	2.4	2.8	2.6	2.4	2.7	2.8	2.6	3.0

### 4.7 Prevalence of diarrhoea and dysentery

Table 4.7.1 deals with prevalence of diarrhoea by sources of drinking water and excreta disposal facilities. Most diarrhoea and dysentery occurred among those who used non-water sealed toilet and also used pond/ river/ ditch/canal water for drinking and in that situation prevalence of this disease was 27 per 1000 population. In the rural areas, prevalence of diarrhoea and dysentery was highest for them who used non-water sealed toilet and use river/ ditch/ canal water (57) and for rural areas the highest prevalence was for them who used katcha (non sanitary) toilet and used pond water (29). Here 0 represents non availability of data. In the cross tabulations of excreta disposal facilities and source of drinking water, some cells of the table had very rare event.

Table 4.7.1: Prevalence of diarrhoea and dysentery by sources of drinking water, excreta disposal facilities and residence, December, 2011- February 2012

(Per 1000 population)

Source of drinking		Excreta disposal	l facilities	·	population)			
water	Sanitary (water	Sanitary(non-	Katcha (non-	Open field	Total			
	sealed)	water sealed)	sanitary)					
		National						
Tap	10	12	9	15	10			
Tube well/deep tube we	ell 14	15	17	19	15			
Well/masonry well	5	0	15	15	11			
Pond	16	27	17	0	20			
River/ditch/canal	0	27	17	22	18			
others	5	0	0	0	2 15			
T	otal 13	15	17	18	15			
Rural								
Tap	10	2	12	20	8			
Tube well/deep tube we	ell 15	15	17	18	16			
Well/masonry well	6	0	15	15	12			
Pond	16	30	16	0	20			
River/ditch/canal	0	57	18	22	19			
others	8	0	0	0	3			
Total	14	15	17	18	16			
Urban								
Tap	9	15	7	9	11			
Tube well/deep tube we	ell 12	12	13	23	12			
Pond	22	7	29	0	14			
T	otal 11	12	13	20	12			

The table 4.7.2 reveals that among the different age group from 0 to 14, highest prevalence of diarrhoea and dysentery happened in the age group 5-9 years who used non-water sealed toilet and use river/ditch/canal water (1000). For the age group 0-4 the prevalence was 329 for using non-water sealed toilet and drinking pond water. The highest prevalence of diarrhoea and dysentery for the age group 10-14 was 146 for those who had no toilet facility and used tube well water.

Table 4.7.2: Prevalence of diarrhea and dysentery per 1000 population by sources of drinking water, excreta disposal facilities and age group, December, 2011- February 2012

Source of drinking		Total			
water	Sanitary(wat	Excreta disposa Sanitary (non-	Katcha (non-	Open field	
	er sealed)	water sealed)	sanitary)		
		Age 0-4 years			
Tap	118	136	94	255	122
Tube well/deep tube well	158	157	179	178	166
Well/masonry well	48	0	186	134	115
Pond	262	329	208	0	279
River/ditch/canal	0	204	166	263	189
others	82	0	0	0	28
Total	153	155	178	178	163
		Age 5-9 years			
Tap	104	113	79	128	105
Tube well/deep tube well	135	128	134	133	132
Well/masonry well	46	0	130	121	104
Pond	197	229	129	0	192
River/ditch/canal	0	1000	117	132	127
others	43	0	0	0	20
Total	131	127	133	131	130
		Age 10-14 years			
Tap	90	117	76	128	96
Tube well/deep tube well	127	118	129	146	126
Well/masonry well	82	0	112	101	95
Pond	174	176	114	0	162
River/ditch/canal	0	239	128	263	159
others	60	0	0	0	20
Total	122	118	128	145	124

From the table 4.7.3, it is observed that prevalence (23.2) of diarrhoea and dysentery per 1000 population was highest among no schooling people and it was higher in male (25.1) compared to female (21.5). Lowest prevalence (6.4) of diarrhoea and dysentery per 1000 population was among the people with Higher Secondary and above.

Table 4.7.3 Prevalence of diarrhoea and dysentery per 1000 population by education and sex December, 2011- February 2012

Level of education		Total	Male	Female
No schooling (0)		23.2	25.1	21.5
Primary incomplete (I-IV)		10.0	10.7	9.2
Primary complete (V)		11.4	12.1	10.6
Secondary incomplete (VI-IX)		28.3	28.1	28.5
Secondary complete (X)		9.1	11.4	6.0
Higher Secondary and above (XII+)		6.4	6.4	6.2
Others		15.4	21.1	0.0
	Total	14.9	15.5	14.2

#### 4.8 Selected morbidities

In the table 4.8.1, proportion and prevalence of morbidity per 1000 population of the selected diseases by residence are shown. Arthritis, peptic ulcer and high blood pressure had prevalences of 14.8, 14.2 and 10.1 per 1000 population respectively in rural areas. But in urban areas, prevalence of high blood pressure was 20.2 and that of diabetes was15.6 per 1000 population. Prevalence of high blood pressure in urban areas was almost double of that in rural area. Diabetes in urban area also occurred almost three times higher than that in rural area. Prevalences of asthma & heart disease were also higher in urban areas compared to rural areas.

Table 4.8.1: Proportion and prevalence of morbidity per 1000 population of the selected diseases by residence, December, 2011- February 2012

Selected Diseases	Proportional morbidity			evalence of mo per 1000 popula		
	National	Rural	Urban	National	Rural	Urban
Arthritis	7.5	8.2	5.6	14.0	14.8	11.2
Peptic Ulcer	7.2	7.8	4.5	13.5	14.2	11.0
High blood Pressure	6.7	5.5	10.2	12.4	10.1	20.2
Dysentery	4.5	5.0	2.9	8.3	9.1	5.8
Diabetes	4.2	3.0	7.8	7.8	5.5	15.6
Diarrhoea	3.5	3.7	3.0	6.6	6.7	6.0
Acute respiratory Infection	2.6	2.8	2.0	4.9	5.1	4.0
Skin Disease	2.3	2.4	2.1	4.3	4.3	4.2
Conjunctivitis	2.2	2.4	1.8	4.2	4.3	3.7
Asthma	2.1	2.0	2.5	3.9	3.6	4.9
Heart disease	1.8	1.7	2.1	3.3	3.1	4.2
Cataract	1.8	1.8	1.7	3.3	3.3	3.3
Hepatitis-b	1.5	1.6	1.4	2.8	2.9	2.7
Measles	1.4	1.4	1.4	2.6	2.6	2.8
Whooping cough	1.4	1.4	1.2	2.5	2.6	2.3
Urinary Tract Infection	1.0	1.1	0.9	1.9	1.9	1.7
Pregnancy related	0.9	0.9	0.9	1.7	1.6	1.8
Ear infection	0.8	0.9	0.7	1.5	1.6	1.3
Malaria	0.8	0.9	0.5	1.5	1.6	0.9
Chicken pox	0.8	0.8	0.7	1.4	1.4	1.4
Typhoid	0.7	0.7	0.7	1.4	1.3	1.5
Kala-azar	0.6	0.7	0.5	1.2	1.2	1.0
Night blindness	0.6	0.7	0.4	1.1	1.2	0.8
Tuberculosis	0.6	0.6	0.4	1.0	1.1	0.7
Goitre	0.5	0.5	0.3	0.8	0.9	0.5
Epilepsy	0.4	0.4	0.2	0.7	0.8	0.5
Cancer/Malignancy	0.4	0.4	0.3	0.6	0.6	0.7
Mumps	0.2	0.2	0.3	0.5	0.4	0.6
Arsenic	0.2	0.1	0.2	0.3	0.2	0.5
Rabies	0.1	0.1	0.2	0.3	0.2	0.3
Tetanus	0.1	0.1	0.2	0.2	0.1	0.3
New born problem	0.1	0.1	0.0	0.1	0.1	0.1
diphtheria	0.0	0.0	0.0	0.1	0.1	0.1
Pneumonia	0.0	0.0	0.0	0.1	0.1	0.1
Total Morbidity	100	100	100	186	181	199

In the table 4.8.2, Proportion and prevalence of morbidity per 1000 population by selected diseases are shown by sex. Among male, prevalence of arthritis, peptic ulcer and high blood pressure per 1000 population were 10.9, 12.1 and 10.5 respectively whereas among female prevalences of these three diseases were 17.1, 14.8 and 14.4 respectively during the last 90 days of the survey. Prevalence of heart disease per 1000 population was 3.3 and it was more prevalent in male compared to female.

Table 4.8.2: Proportion and prevalence of morbidity per 1000 population by selected diseases by sex, December, 2011- February 2012

<b>Selected Diseases</b>	Proportional morbidity (%)				alence of mor	
	Total	Male	Female		Total Male	
Arthritis	7.5	6.3	8.7	14.0	10.9	<b>Female</b> 17.1
Peptic Ulcer	7.3	7.0	7.5	13.4	12.1	14.8
High blood Pressure	6.7	6.0	7.3	12.4	10.5	14.4
Dysentery	4.5	5.2	3.8	8.3	9.1	7.5
Diabetes	4.2	4.4	4.1	7.8	7.7	8.0
Diarrhoea	3.5	3.7	3.4	6.6	6.4	6.7
Acute respiratory Infection	2.6	3.1	2.2	4.9	5.4	4.3
Skin Disease	2.3	2.5	2.1	4.3	4.4	4.2
Conjunctivitis	2.2	1.9	2.6	4.2	3.3	5.0
Asthma	2.1	2.4	1.8	3.9	4.2	3.6
Heart disease	1.8	2.0	1.7	3.3	3.4	3.2
Cataract	1.8	1.7	1.9	3.3	3.0	3.7
Hepatitis-b	1.5	1.9	1.2	2.8	3.4	2.3
Measles	1.4	1.4	1.4	2.6	2.4	2.8
Whooping cough	1.4	1.8	1.0	2.5	3.1	2.0
Influenza	1.2	1.3	1.0	2.2	2.3	2.0
Urinary Tract Infection	1.0	0.9	1.1	1.9	1.5	2.3
Malaria	0.8	0.9	0.7	1.5	1.6	1.3
Chicken pox	0.8	1.0	0.6	1.4	1.7	1.1
Typhoid	0.7	0.7	0.7	1.4	1.3	1.5
Kala-azar	0.6	0.6	0.6	1.2	1.1	1.2
Night blindness	0.6	0.7	0.5	1.1	1.2	1.1
Tuberculosis	0.6	0.7	0.4	1.0	1.3	0.8
Goitre	0.5	0.4	0.5	0.8	0.8	0.9
Cancer/Malignancy	0.4	0.3	0.4	0.6	0.6	0.7
Mumps	0.2	0.2	0.3	0.5	0.4	0.5
Rabies	0.1	0.2	0.1	0.3	0.3	0.2
Tetanus	0.1	0.1	0.1	0.2	0.1	0.2
Diphtheria	0.0	0.1	0.0	0.1	0.1	0.0
Total	100	100	100	186	174	197

#### 4.9 Morbidity by age group

Fig 4.9.1 shows the prevalence of morbidity per 1000 population during the last 90 days of the survey by sex and selected age groups. Among the aged group (60+) the prevalence of morbidity was 476.3 per 1000 population. The lowest prevalence of morbidity was 96.1 and it belonged to age group (15-29). Male was more morbid compared to female from infant to the age of 14. After the age of 14, females were more morbid than male. Morbidity declined from infant to age group (15-29) and after that it increased with the increase of ages for both sexes.

From the Fig 4.9.2 it is seen that for all the age groups, morbidity among urban people were more compared to rural people.

Fig 4.9.1: Prevalence of morbidity per 1000 population by age group and sex, December, 2011-February 2012

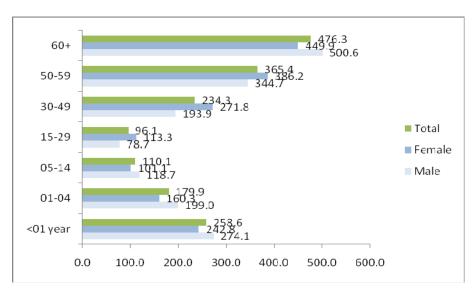
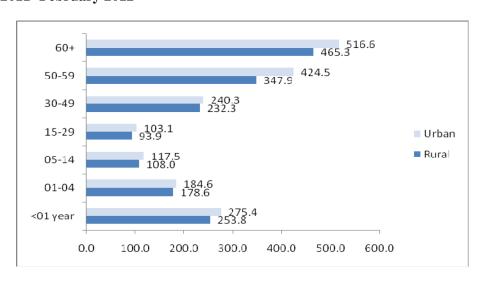


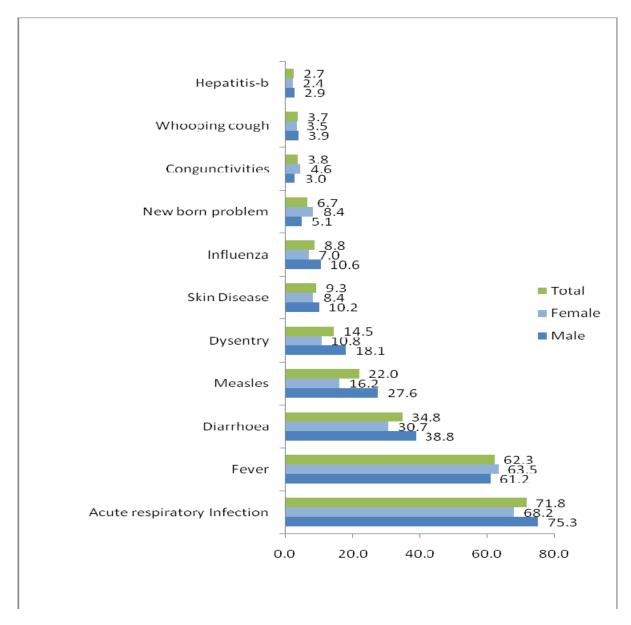
Fig 4.9.2: Prevalence of morbidity per 1000 population by age group and residence, December, 2011- February 2012



#### 4.10 Infant (<1 year) morbidity

Prevalence of morbidity (top 10 diseases) per 1000 infants by sex is shown in fig 4.10. Acute respiratory infection, fever, diarrhoea, measles occurred more with the prevalence per 1000 infants (<1 year) 71.8, 62.3, 34.8 and 22.0 respectively during the last 90 days of the survey. Male infants had higher prevalence of measles compared to female infants. Among the top 10 diseases for this age group fever, newborn problem and conjunctivitis were less in female and the rest 7 diseases like acute respiratory infection, diarrhoea, measles, skin disease, influenza, whooping cough, hepatitis-b occurred more in male compared to female.

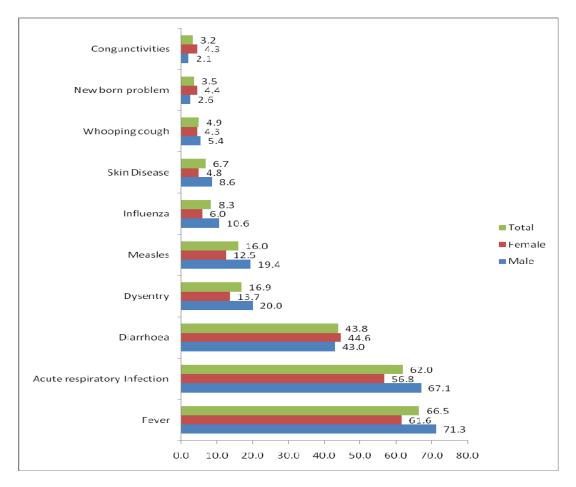
Fig 4.10: Prevalence of morbidity per 1000 infants by sex, December, 2011- February 2012



#### 4.11 Child (under 2 years) morbidity

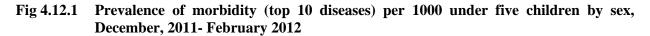
In the fig 4.11, prevalence of morbidity (top 10 diseases) per 1000 children (under 2 Years) has been described by sex. After fever (FUO), Acute respiratory infection (ARI) had the highest prevalence (62.1) per 1000 children of age less than 2 years. Among them male child's prevalence of ARI was higher (67.1) than that of female child (56.8). Next higher prevalence for this age group belonged to diarrhoea with 43.8 where prevalence per 1000 in male was 43.0 and that in female was 44.6.

Fig 4.11 Prevalence of morbidity (top 10 diseases) per 1000 children (under 2 Years) by sex, December, 2011- February 2012



## 4.12 Under five child (<5 years) morbidity

According to Fig 4.12.1, in this age group, all the 10 top diseases had higher prevalence in male compared to female. Prevalence of fever per 1000 children under 5 years was 59.1 followed by acute respiratory infection, diarrhoea, dysentery, measles with the prevalence 39.8, 28.5, 14.0, 9.7 respectively.



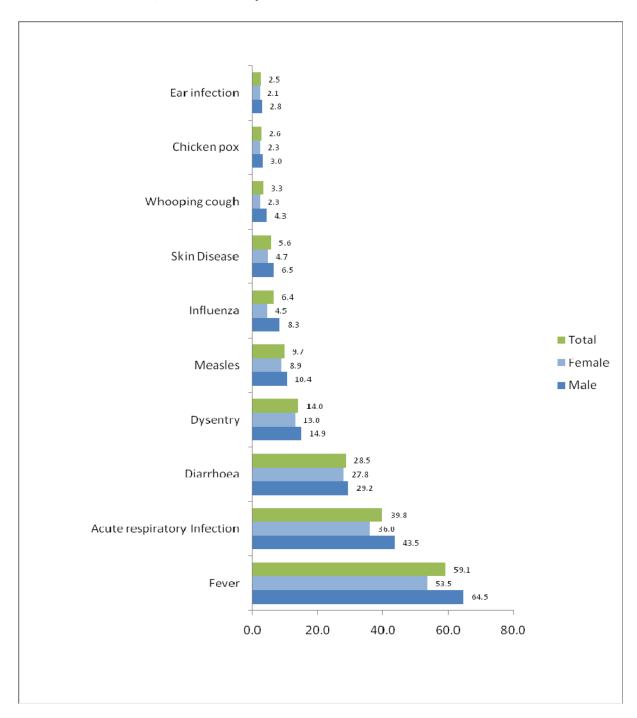
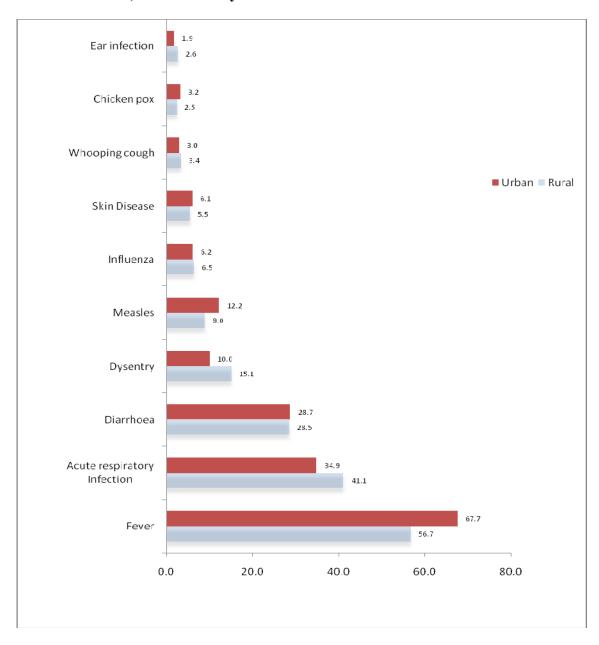


Figure 4.12.2 shows the prevalence of morbidity (top 10 diseases) per 1000 under five children by residence. Acute respiratory infection, diarrhoea occurred more with the prevalence of 39.8 and 28.5 respectively per 1000 children under five (<5 years). Fever (FUO), measles were more prevalent in urban areas compared to rural areas. Diarrhoea, skin disease, influenza had almost same prevalence in both urban and rural areas.

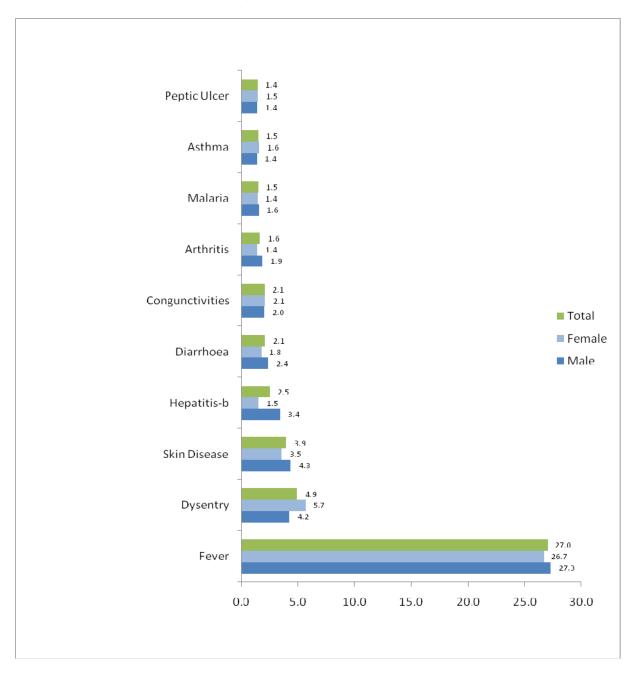
Fig 4.12.2 Prevalence of morbidity (top 10 diseases) per 1000 under five children by residence, December, 2011- February 2012



## 4.13 Adolescent (10-19) morbidity

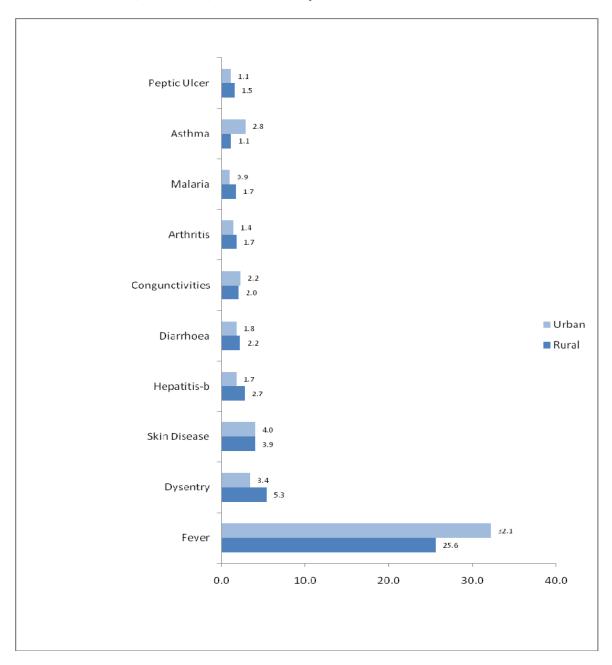
Prevalence of morbidity (top 10 diseases) per 1000 adolescents by sex is described in figure 4.13.1. Fever's (FUO) prevalence was 27.0 per 1000 adolescents (10-19). Dysentery had the prevalence of 4.9 which was the 2<sup>nd</sup> highest in this age group and next higher prevalence belong to skin disease with 3.9.

Fig 4.13.1 Prevalence of morbidity (top 10 diseases) per 1000 adolescents (10-19 years) by sex, December, 2011- February 2012



According to the figure 4.13.2 below dysentery, hepatitis-b, diarrhoea, arthritis, malaria, peptic ulcer happened more in rural areas compared to urban areas in this age group (10-19 years).

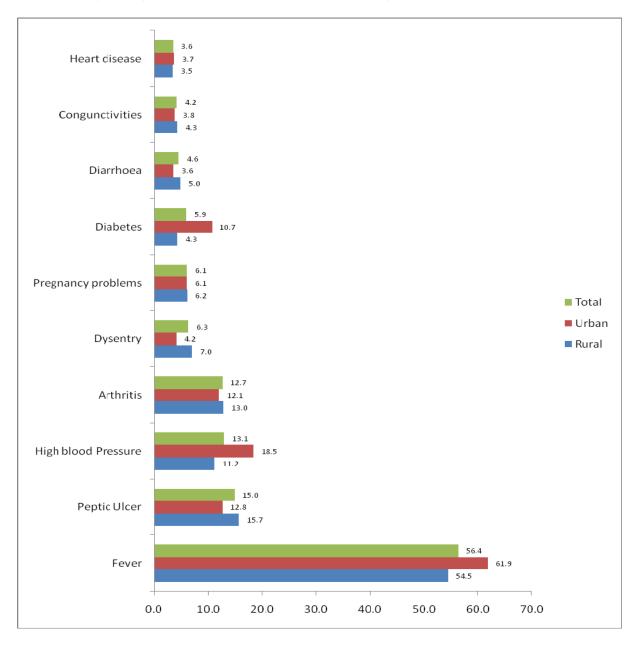
Fig 4.13.2 Prevalence of morbidity (top 10 diseases) per 1000 adolescents (10-19 years) by residence, December, 2011- February 2012



## 4.14 Reproductive age (15-49 year) morbidity

According to figure 4.14, in reproductive age group of women, Fever (FUO) was highest with prevalence of 56.4 per 1000 where 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> highest prevalence belonged to peptic ulcer, high blood pressure and arthritis with prevalence of 15.0, 13.1 and 12.7 respectively. Diabetes, high blood pressure and fever had higher prevalence in urban areas compared to those in rural areas.

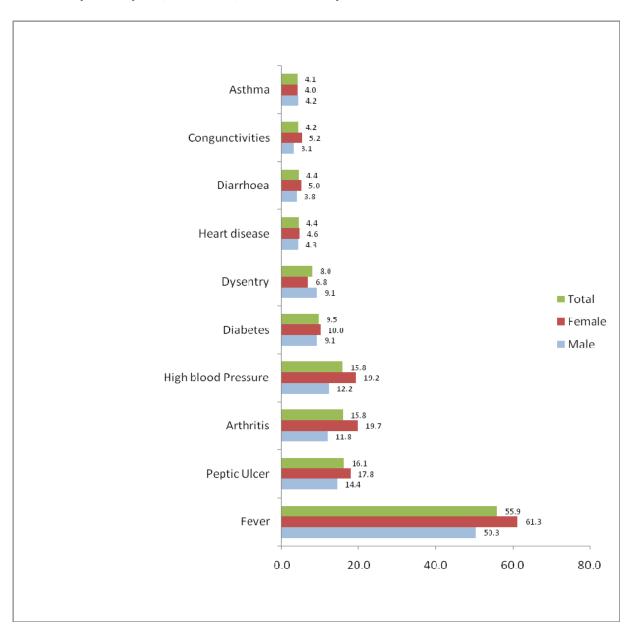
Fig 4.14: Prevalence of morbidity (top 10 diseases) per 1000 females of reproductive ages (15-49 year) by residence, December, 2011- February 2012



#### 4.15 Working age (15-64 years) morbidity

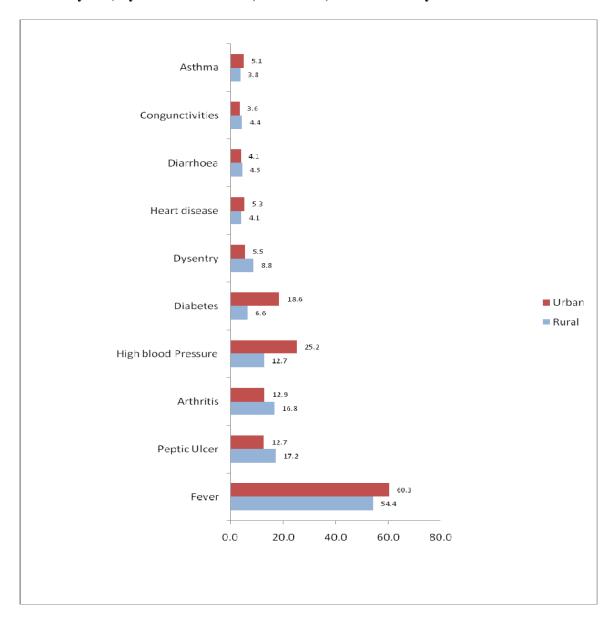
Figure 4.15.1 shows the prevalence of morbidity (top 10 diseases) per 1000 working age population by sex. Fever (FUO) had the highest prevalence with 55.9 per 1000 of the working age group (15-64), where peptic ulcer, arthritis and high blood pressure had the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> highest prevalence with 18.7, 15.8 and 15.8 per 1000 respectively. Prevalence of fever (FUO), peptic ulcer, arthritis, high blood pressure, diabetes, diarrhoea and conjunctivitis was higher in female compared to male.

Fig 4.15.1 Prevalence of morbidity (top 10 diseases) per 1000 working age population (15-64 years) by sex, December, 2011- February 2012



According to fig. 4.15.2 prevalence of diabetes, high blood pressure and fever were more in urban areas compared to rural areas.

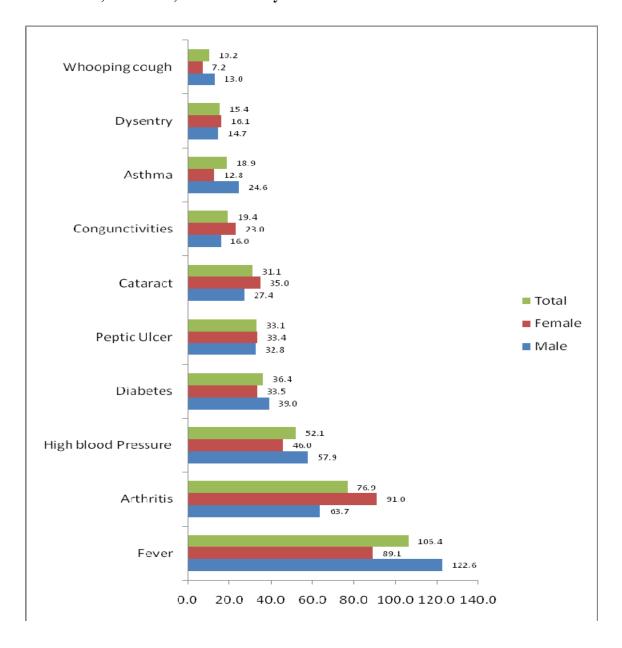
Fig 4.15.2 Prevalence of morbidity (top 10 diseases) per 1000 working age population (15-64 years) by sex and residence, December, 2011- February 2012



#### 4.16 Elderly (64+ years) morbidity

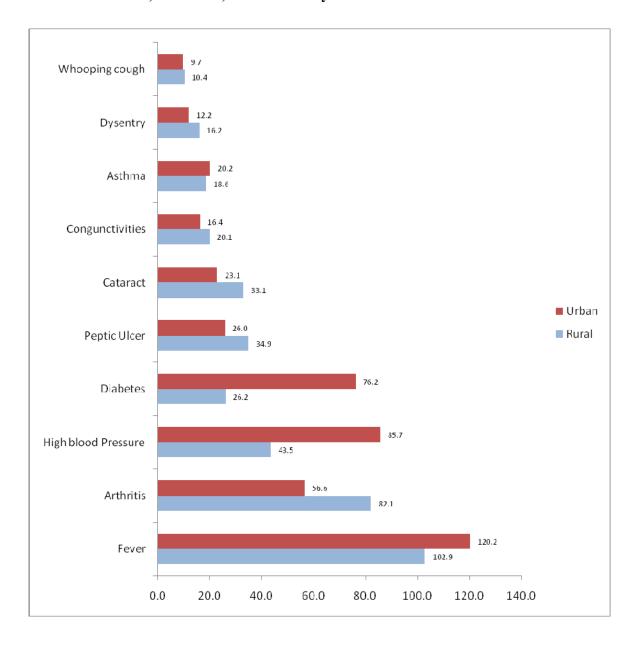
In the figure 4.16.1, prevalence of morbidity (top 10 diseases) per 1000 elderly population is shown by sex. Fever (FUO) had the highest prevalence with 106.40 per 1000 of elderly persons (64+). Arthritis, high blood pressure, diabetes and cataract were the 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> with the prevalence 76.9, 52.1, 36.4 and 31.1 per 1000 elderly population respectively. Prevalence of tuberculosis was 3.4 (where it was 5.5 in male and 1.2 in female). Prevalence of both high blood pressure and diabetes were higher in male compared to those in female. But prevalence of arthritis was higher in female (91.0) than that of male (63.7).

Fig 4.16.1 Prevalence of morbidity (top 10 diseases) per 1000 elderly population (64+ years) by sex, December, 2011- February 2012



According to figure 4.16.2, arthritis, peptic ulcer, cataract, conjunctivitis, dysentery and whooping cough occurred more among elderly people in rural areas compared to urban areas but people of urban areas suffered more in high blood pressure, diabetes and asthma compared to people of rural area.

Fig 4.16.2: Prevalence of morbidity (top 10 diseases) per 1000 elderly population (64+ years) by residence, December, 2011- February 2012



## CHAPTER-5 TREATMENT STATUS

Health behavior and consequences of morbidity are described in this chapter. For each person at best three illnesses happened during the 90 days preceding the survey were recorded to know the treatment status. For each morbidity, at best four different treatment facilities and in each treatment facility at best three different sources of receiving treatment were allowed to record. If the sick person was unable to respond then the person who could reply was interviewed. Treatment facilities were categorized as government, private, NGO, abroad, self and others. In this case, treatment from pharmacy/ dispensary had a chance to be counted as private health facility.

## 5.1 Population reported morbidity

The table 5.1.1 reveals that the highest proportion of morbidity was more than 8% in the age group 40 to 54 years and 2<sup>nd</sup> highest morbidity was more than 7% in the age group 01-04, 35-39 and 55-59 years. Up to ages of 19 years, males were reported with more morbidity compared to female. From the age 20-54, morbidity in female was more compared to male. After the age of 55 years, again morbidity in male prevailed more compared to female. In the age group 0 to 14 years morbidity was higher among rural people compared to that of urban people. From the age 35 to 64 years, morbidity in urban areas was higher than rural areas.

Table 5.1.1 Proportion of population reported morbidity by sex, age group and residence

							, , ,		(In	Percentage)
Age			Nationa	l		Rural			Urban	
(In years)	-	Total	Male	Female	Total	Male	Female	Total	Male	Female
<1		2.5	2.8	2.2	2.5	2.8	2.3	2.3	2.9	1.8
01-04		7.1	8.5	5.9	7.4	8.7	6.2	6.3	7.9	5.0
05-09		5.4	6.3	4.6	5.5	6.4	4.6	5.2	6.0	4.5
10-14		4.3	5.0	3.8	4.5	5.2	3.8	3.9	4.3	3.6
15-19		4.3	4.9	3.7	4.2	5.0	3.4	4.5	4.6	4.4
20-24		4.3	3.5	5.0	4.3	3.6	4.9	4.3	3.3	5.1
25-29		5.5	3.7	7.0	5.3	3.5	7.0	5.8	4.6	6.9
30-34		6.5	4.9	8.0	6.7	5.0	8.2	6.0	4.4	7.3
35-39		7.9	6.1	9.4	7.6	5.7	9.3	8.7	7.3	9.9
40-44		8.3	7.2	9.3	8.1	7.1	9.1	8.9	7.4	10.1
45-49		8.4	8.3	8.6	8.3	8.2	8.4	8.8	8.5	9.1
50-54		8.9	8.4	9.3	8.6	8.0	9.1	9.9	9.7	10.1
55-59		7.6	8.2	7.1	7.6	8.2	7.1	7.7	8.4	7.1
60-64		5.8	6.8	4.9	5.7	6.6	4.8	6.0	7.2	5.0
65-69		4.3	5.0	3.7	4.5	5.3	3.8	3.9	4.3	3.5
70-74		3.9	4.4	3.5	3.9	4.3	3.5	3.8	4.5	3.2
75-79		2.4	2.9	2.1	2.6	3.0	2.3	2.0	2.6	1.5
80 & more		2.7	3.2	2.2	2.9	3.5	2.3	2.1	2.3	1.9
Total		100	100	100	100	100	100	100	100	100
Number	of	18598	8688	9910	11827	5588	6239	6771	3100	3671
persons										
reported										
morbidity										

Table 5.1.2 shows the distribution of population reported morbidity who received treatment. Among population reported morbidity for the last 90 days of the survey, 71.9 % received treatment. In urban areas, the percentage was little higher (72.5%) than that of rural (71.7%) areas. The rate of receiving treatment among male was higher than that of female in both rural and urban areas. The rate of receiving treatment decreased with the increase of age from 00 to 29 years.

Table 5.1.2 Rate of receiving treatment by age, sex and residence

(In Percentage)

Age group	National Rural						Urban	r creentage)	
(In years)	Total	Male	Female	Total	Male	Female	Total	Male	Female
0-04	81.8	80.8	83.1	82.2	81.5	83.2	80.4	78.7	82.6
05-09	77.0	76.2	78.1	77.0	75.7	78.6	77.2	77.9	76.4
10-14	73.5	73.0	74.2	73.7	72.1	75.7	73.1	76.4	69.6
15-19	70.9	70.1	71.9	71.6	70.3	73.2	69.1	69.3	68.9
20-24	70.7	70.1	71.0	70.1	69.5	70.5	72.3	72.4	72.3
25-29	68.7	71.3	67.4	68.0	71.6	66.4	70.7	70.7	70.7
30-34	70.7	71.6	70.2	70.6	70.4	70.7	71.1	75.7	68.7
35-39	69.1	70.7	68.1	69.2	73.2	67.0	68.7	64.4	71.4
40-44	70.9	70.7	71.1	69.6	69.4	69.7	74.6	74.7	74.6
45-49	71.7	71.4	72.0	71.4	70.1	72.5	72.7	75.3	70.7
50-54	73.5	75.3	72.2	73.5	75.0	72.3	73.7	75.9	71.9
55-59	69.5	70.3	68.6	69.4	69.7	69.1	69.6	72.1	67.2
60-64	69.6	69.0	70.4	68.9	68.9	68.9	71.6	69.2	74.4
65-69	69.8	70.9	68.5	69.8	71.0	68.3	70.0	70.9	69.0
70-74	67.8	69.0	66.4	67.3	68.1	66.4	69.3	71.7	66.4
75-79	66.7	66.9	66.4	66.9	66.6	67.3	65.8	68.2	62.3
80 & more	69.0	69.7	68.1	68.0	69.2	66.3	73.4	72.4	74.4
Total	71.9	72.4	71.5	71.7	72.1	71.3	72.5	73.2	71.8

Proportion of treatments received by treatment facility and sex are shown in table 5.1.3. About 69% treatments were received from private institute and 22% from govt. institute. More female go to private and NGO for treatment compared to male. From Govt. institute and from abroad more male received treatment compared to female.

Table 5.1.3: Proportion of treatments received by type of treatment facility and sex

			(In percentage)
Types of treatment facility	Total	Male	Female
Government	22.0	23.0	21.2
Private	68.9	67.7	69.9
NGO	1.7	1.6	1.7
Abroad	0.2	0.3	0.2
Others (Religious, traditional etc)	7.3	7.5	7.1

According to table 5.1.4 about 70% treatments were received from private health facilities, about 27% were from govt. health facilities and about 3% were from NGO health facilities. Most of the morbidities were treated in the private health facilities. More than 50% treatments of rabies, tuberculosis, tetanus, new born problem, hormonal problem, tumour, stroke, bronchitis were done in government health facilities.

Table 5.1.4: Proportion of morbidity for which treatment received by type of health facility during last 90 days of the survey.

Measles	during last 70 days of					(In percentage)
Dysentery						Total
Goitre         27.7         69.1         3.2         100           Rabies         32.8         61.2         60         100           Rabies         58.1         41.9         0.0         100           Chicken pox         26.8         61.6         11.6         100           Conjunctivitis         28.1         65.2         6.7         100           Night blindness         33.7         53.9         12.4         100           Arthritis         23.0         74.3         2.7         100           Tuberculosis         50.0         36.4         13.6         100           Malaria         33.0         64.2         2.8         100           Malaria         33.0         64.2         2.8         100           Mepatitis-b         22.6         74.6         2.8         100           Peptic Ulcer         23.0         73.8         3.2         100           High blood Pressure         23.8         74.9         4.3         100           High blood Pressure         23.8         71.9         4.3         100           Urinary Tract Infection         23.8         71.9         4.3         100 <th< td=""><td>Measles</td><td></td><td></td><td>~ —</td><td></td><td>100</td></th<>	Measles			~ —		100
Epilepsy					3.0	100
Rabies	Goitre			69.1		
Chicken pox         26.8         61.6         11.6         100           Conjunctivitis         28.1         65.2         6.7         100           Night blindness         33.7         53.9         12.4         100           Arthritis         23.0         74.3         2.7         100           Tuberculosis         50.0         36.4         13.6         100           Malaria         33.0         64.2         2.8         100           Kala-azar         29.2         67.4         3.5         100           Peptic Ulcer         23.0         73.8         3.2         100           Hepatitis-b         22.6         74.6         2.8         100           Hepatitis-b         22.6         74.6         2.8         100           High blood Pressure         23.8         74.3         1.9         100           Urnary Tract Infection         23.8         74.3         1.9         10           Transmitted Diseases         18.5         79.0         2.5         100           Tetaus         52.2         47.8         0.0         100           New born problem         54.5         50.0         100           Mum	Epilepsy					100
Conjunctivitis         28.1         65.2         6.7         100           Night blindness         33.7         53.9         12.4         100           Arthritis         23.0         74.3         2.7         100           Tuberculosis         50.0         36.4         13.6         100           Malaria         33.0         64.2         2.8         100           Kala-arar         29.2         67.4         3.5         100           Peptic Ulcer         23.0         73.8         3.2         100           Hepatitis-b         22.6         74.6         2.8         100           Diabetes         25.6         71.6         2.8         100           Diabetes         25.6         71.6         2.8         100           High blood Pressure         23.8         74.3         1.9         100           Urinary Tract Infection         23.8         71.9         4.3         100           Transmitted Diseases         18.5         79.0         2.5         100           Tetatus         52.2         47.8         0.0         100           Acute respiratory Infection         32.9         66.1         1.0         100 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Night blindness   33.7   53.9   12.4   100						
Arthritis	Conjunctivitis					
Tuberculosis	Night blindness					100
Malaria         33.0         64-2         2.8         100           Kala-azar         29.2         67.4         3.5         100           Peptic Ulcer         23.0         73.8         3.2         100           Hepatitis-b         22.6         74.6         2.8         100           Diabetes         25.6         71.6         2.8         100           High blood Pressure         23.8         74.3         1.9         100           Urinary Tract Infection         23.8         71.9         4.3         100           Transmitted Diseases         18.5         79.0         2.5         100           Tetanus         52.2         47.8         0.0         100           New born problem         54.5         45.5         0.0         100           Acute respiratory Infection         32.9         66.1         1.0         100           Munps         35.2         59.3         5.6         100           Whooping cough         31.3         65.5         3.2         100           Diphtheria         30.0         70.0         0.0         100           Ear infection         22.8         71.0         6.2         100 <td>Arthritis</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Arthritis					
Rala-azar   29.2   67.4   3.5   100     Peptic Ulcer   23.0   73.8   3.2   100     Peptic Ulcer   23.0   73.8   3.2   100     Diabetes   25.6   71.6   2.8   100     Diabetes   25.6   71.6   2.8   100     Urinary Tract Infection   23.8   74.3   1.9   100     Urinary Tract Infection   23.8   71.9   4.3   100     Transmitted Diseases   18.5   79.0   2.5   100     New born problem   54.5   45.5   0.0   100     New born problem   54.5   45.5   0.0   100     New born problem   32.9   66.1   1.0   100     Numps   35.2   59.3   5.6   100     Whooping cough   31.3   65.5   3.2   100     Diphtheria   30.0   70.0   0.0   100     Ear infection   22.8   71.0   6.2   100     Skin Disease   33.0   63.2   3.7   100     Cancer/Malignancy   37.6   61.2   1.2   100     Diarrhoea   32.2   64.9   2.9   100     Fever   22.4   75.1   2.5   100     Asthma   41.5   54.6   3.9   100     Heart disease   38.8   58.2   2.9   100     Kidney disease   34.5   63.2   2.3   100     Heart disease   35.7   55.4   8.9   100     Heart disease   35.7   55.4   8.9   100     Tumour   51.2   46.3   2.4   100     Tumour   51.2   46.3   2.4   100     Nasal polyps   52.0   44.0   4.0   100     Nasal polyps   52.0   44.0   4.0   100     Nasal polyps   52.0   44.0   4.0   100     Appendicitis   18.4   73.7   7.9   100     Bronchitis   50.0   50.0   50.0   100     Appendicitis   18.4   73.7   7.9   100     Apdominal pain   45.0   50.0   50.0   50.0     Total   27.3   69.5   3.2   100     Total   27.3   69.5   3.2   100						
Peptic Ulcer	Malaria					100
Hepatitis-b	Kala-azar			67.4	3.5	100
Diabetes         25.6         71.6         2.8         100           High blood Pressure         23.8         74.3         1.9         100           Urinary Tract Infection         23.8         71.9         4,3         100           Transmitted Diseases         18.5         79.0         2.5         100           Tetanus         52.2         47.8         0.0         100           New born problem         54.5         45.5         0.0         100           Acute respiratory Infection         32.9         66.1         1.0         100           Mumps         35.2         59.3         5.6         100           Whooping cough         31.3         65.5         3.2         100           Diphtheria         30.0         70.0         0.0         100           Ear infection         22.8         71.0         6.2         100           Skin Disease         33.0         63.2         3.7         100           Cancer/Malignancy         37.6         61.2         1.2         100           Diarrhoea         32.2         64.9         2.9         100           Fever         22.4         75.1         2.5         100	Peptic Ulcer					
High blood Pressure	Hepatitis-b		22.6		2.8	100
Urinary Tract Infection   23.8   71.9   4.3   100     Transmitted Diseases   18.5   79.0   2.5   100     Tetanus   52.2   47.8   0.0   100     New born problem   54.5   45.5   0.0   100     Acute respiratory Infection   32.9   66.1   1.0   100     Mumps   35.2   59.3   5.6   100     Whooping cough   31.3   65.5   3.2   100     Diphtheria   30.0   70.0   0.0   0.0     Ear infection   22.8   71.0   6.2   100     Skin Disease   33.0   63.2   3.7   100     Skin Disease   33.0   63.2   3.7   100     Cancer/Malignancy   37.6   61.2   1.2   100     Diarrhoea   32.2   64.9   2.9   100     Fever   22.4   75.1   2.5   100     Fever   22.4   75.1   2.5   100     Fever   41.5   54.6   3.9   100     Kidney disease   34.5   63.2   2.3   100     Kidney disease   34.5   63.2   2.3   100     Typhoid   42.6   55.1   2.2   100     Migraine   35.2   61.8   3.0   100     Tumour   51.2   46.3   2.4   100     Tumour   51.2   46.3   2.4   100     Paralysis   42.1   57.9   0.0   100     Paralysis   42.1   57.9   55.0   2.5   100     Hermia   42.9   52.4   4.8   100     Hormonal problem   50.0   25.0   25.0   25.0   100     Influenza   34.4   61.2   4.4   100     Back pain   31.0   66.0   3.0   100     Gallbladder stone   27.6   72.4   0.0   100     Bronchitis   50.0   50.0   50.0   0.0     Appendicitis   18.4   73.7   7.9   100     Abdominal pain   45.0   50.0   5.0   100     Total   27.3   69.5   3.2   100	Diabetes				2.8	100
Transmitted Diseases	High blood Pressure				1.9	100
Tetanus         52.2         47.8         0.0         100           New born problem         54.5         45.5         0.0         100           Acute respiratory Infection         32.9         66.1         1.0         100           Mumps         35.2         59.3         5.6         100           Whooping cough         31.3         65.5         3.2         100           Diphtheria         30.0         70.0         0.0         100           Ear infection         22.8         71.0         6.2         100           Skin Disease         33.0         63.2         3.7         100           Cancer/Malignancy         37.6         61.2         1.2         100           Diarrhoea         32.2         64.9         2.9         100           Fever         22.4         75.1         2.5         100           Asthma         41.5         54.6         3.9         100           Heart disease         38.8         58.2         2.9         100           Kidney disease         34.5         63.2         2.3         100           Typhoid         42.6         55.1         2.2         100           Mig	Urinary Tract Infection		23.8	71.9	4.3	100
New born problem         54.5         45.5         0.0         100           Acute respiratory Infection         32.9         66.1         1.0         100           Mumps         35.2         59.3         5.6         100           Whooping cough         31.3         65.5         3.2         100           Diphtheria         30.0         70.0         0.0         100           Ear infection         22.8         71.0         6.2         100           Skin Disease         33.0         63.2         3.7         100           Cancer/Malignancy         37.6         61.2         1.2         100           Diarrhoea         32.2         64.9         2.9         100           Fever         22.4         75.1         2.5         100           Asthma         41.5         54.6         3.9         100           Heart disease         38.8         58.2         2.9         100           Kidney disease         34.5         63.2         2.3         100           Typhoid         42.6         55.1         2.2         100           Migraine         35.2         61.8         3.0         100           Tu	Transmitted Diseases		18.5	79.0	2.5	100
Acute respiratory Infection         32.9         66.1         1.0         100           Mumps         35.2         59.3         5.6         100           Whooping cough         31.3         65.5         3.2         100           Diphtheria         30.0         70.0         0.0         100           Ear infection         22.8         71.0         6.2         100           Skin Disease         33.0         63.2         3.7         100           Cancer/Malignancy         37.6         61.2         1.2         100           Diarrhoea         32.2         64.9         2.9         100           Fever         22.4         75.1         2.5         100           Asthma         41.5         54.6         3.9         100           Heart disease         38.8         58.2         2.9         100           Kidney disease         34.5         63.2         2.3         100           Typhoid         42.6         55.1         2.2         100           Migraine         35.2         61.8         3.0         10           Tumour         51.2         46.3         2.4         10           Tooth Ache <td>Tetanus</td> <td></td> <td>52.2</td> <td>47.8</td> <td>0.0</td> <td>100</td>	Tetanus		52.2	47.8	0.0	100
Acute respiratory Infection         32.9         66.1         1.0         100           Mumps         35.2         59.3         5.6         100           Whooping cough         31.3         65.5         3.2         100           Diphtheria         30.0         70.0         0.0         100           Ear infection         22.8         71.0         6.2         100           Skin Disease         33.0         63.2         3.7         100           Cancer/Malignancy         37.6         61.2         1.2         100           Diarrhoea         32.2         64.9         2.9         100           Fever         22.4         75.1         2.5         100           Asthma         41.5         54.6         3.9         100           Heart disease         38.8         58.2         2.9         100           Kidney disease         34.5         63.2         2.3         100           Typhoid         42.6         55.1         2.2         100           Migraine         35.2         61.8         3.0         10           Tumour         51.2         46.3         2.4         10           Tooth Ache <td>New born problem</td> <td></td> <td>54.5</td> <td>45.5</td> <td>0.0</td> <td>100</td>	New born problem		54.5	45.5	0.0	100
Mumps         35.2         59.3         5.6         100           Whooping cough         31.3         65.5         3.2         100           Diphtheria         30.0         70.0         0.0         100           Ear infection         22.8         71.0         6.2         100           Skin Disease         33.0         63.2         3.7         100           Cancer/Malignancy         37.6         61.2         1.2         100           Diarrhoea         32.2         64.9         2.9         100           Fever         22.4         75.1         2.5         100           Asthma         41.5         54.6         3.9         100           Heart disease         38.8         58.2         2.9         100           Kidney disease         34.5         63.2         2.3         100           Typhoid         42.6         55.1         2.2         100           Migraine         35.2         61.8         3.0         100           Tumour         51.2         46.3         2.4         100           Anemia         45.8         54.2         0.0         100           Paralysis         42.1 </td <td></td> <td></td> <td>32.9</td> <td></td> <td>1.0</td> <td>100</td>			32.9		1.0	100
Whooping cough         31.3         65.5         3.2         100           Diphtheria         30.0         70.0         0.0         100           Ear infection         22.8         71.0         6.2         100           Skin Disease         33.0         63.2         3.7         100           Cancer/Malignancy         37.6         61.2         1.2         100           Diarrhoea         32.2         64.9         2.9         100           Fever         22.4         75.1         2.5         100           Asthma         41.5         54.6         3.9         100           Heart disease         38.8         58.2         2.9         100           Kidney disease         34.5         63.2         2.3         100           Typhoid         42.6         55.1         2.2         100           Migraine         35.2         61.8         3.0         100           Tumour         51.2         46.3         2.4         100           Tooth Ache         35.7         55.4         8.9         100           Anemia         45.8         54.2         0.0         100           Paralysis         4			35.2	59.3	5.6	100
Diphtheria         30.0         70.0         0.0         100           Bar infection         22.8         71.0         6.2         100           Skin Disease         33.0         63.2         3.7         100           Cancer/Malignancy         37.6         61.2         1.2         100           Diarrhoea         32.2         64.9         2.9         100           Fever         22.4         75.1         2.5         100           Asthma         41.5         54.6         3.9         100           Heart disease         38.8         58.2         2.9         100           Kidney disease         34.5         63.2         2.3         100           Typhoid         42.6         55.1         2.2         100           Migraine         35.2         61.8         3.0         100           Tumour         51.2         46.3         2.4         100           Tooth Ache         35.7         55.4         8.9         100           Anemia         45.8         54.2         0.0         100           Paralysis         42.1         57.9         0.0         100           Low Blood Pressure         <						100
Ear infection         22.8         71.0         6.2         100           Skin Disease         33.0         63.2         3.7         100           Cancer/Malignancy         37.6         61.2         1.2         100           Diarrhoea         32.2         64.9         2.9         100           Fever         22.4         75.1         2.5         100           Asthma         41.5         54.6         3.9         100           Heart disease         38.8         58.2         2.9         100           Kidney disease         34.5         63.2         2.3         100           Typhoid         42.6         55.1         2.2         100           Migraine         35.2         61.8         3.0         100           Tumour         51.2         46.3         2.4         100           Tooth Ache         35.7         55.4         8.9         100           Anemia         45.8         54.2         0.0         100           Paralysis         42.1         57.9         0.0         100           Nasal polyps         52.0         44.0         4.0         100           Low Blood Pressure	Diphtheria			70.0	0.0	100
Cancer/Malignancy         37.6         61.2         1.2         100           Diarrhoea         32.2         64.9         2.9         100           Fever         22.4         75.1         2.5         100           Asthma         41.5         54.6         3.9         100           Heart disease         38.8         58.2         2.9         100           Kidney disease         34.5         63.2         2.3         100           Typhoid         42.6         55.1         2.2         100           Migraine         35.2         61.8         3.0         100           Tumour         51.2         46.3         2.4         100           Tooth Ache         35.7         55.4         8.9         100           Anemia         45.8         54.2         0.0         100           Paralysis         42.1         57.9         0.0         100           Nasal polyps         52.0         44.0         4.0         100           Low Blood Pressure         42.5         55.0         2.5         100           Hernia         42.9         52.4         4.8         100           Hormonal problem <t< td=""><td></td><td></td><td>22.8</td><td>71.0</td><td>6.2</td><td>100</td></t<>			22.8	71.0	6.2	100
Cancer/Malignancy         37.6         61.2         1.2         100           Diarrhoea         32.2         64.9         2.9         100           Fever         22.4         75.1         2.5         100           Asthma         41.5         54.6         3.9         100           Heart disease         38.8         58.2         2.9         100           Kidney disease         34.5         63.2         2.3         100           Typhoid         42.6         55.1         2.2         100           Migraine         35.2         61.8         3.0         100           Tumour         51.2         46.3         2.4         100           Tooth Ache         35.7         55.4         8.9         100           Anemia         45.8         54.2         0.0         100           Paralysis         42.1         57.9         0.0         100           Nasal polyps         52.0         44.0         4.0         100           Low Blood Pressure         42.5         55.0         2.5         100           Hernia         42.9         52.4         4.8         100           Hormonal problem <t< td=""><td>Skin Disease</td><td></td><td>33.0</td><td>63.2</td><td>3.7</td><td>100</td></t<>	Skin Disease		33.0	63.2	3.7	100
Diarrhoea         32.2         64.9         2.9         100           Fever         22.4         75.1         2.5         100           Asthma         41.5         54.6         3.9         100           Heart disease         38.8         58.2         2.9         100           Kidney disease         34.5         63.2         2.3         100           Typhoid         42.6         55.1         2.2         100           Migraine         35.2         61.8         3.0         100           Tumour         51.2         46.3         2.4         100           Tooth Ache         35.7         55.4         8.9         100           Anemia         45.8         54.2         0.0         100           Paralysis         42.1         57.9         0.0         100           Nasal polyps         52.0         44.0         4.0         100           Low Blood Pressure         42.5         55.0         2.5         100           Hernia         42.9         52.4         4.8         100           Hormoal problem         50.0         25.0         25.0         25.0         100           Influenza </td <td></td> <td></td> <td></td> <td>61.2</td> <td></td> <td>100</td>				61.2		100
Fever         22.4         75.1         2.5         100           Asthma         41.5         54.6         3.9         100           Heart disease         38.8         58.2         2.9         100           Kidney disease         34.5         63.2         2.3         100           Typhoid         42.6         55.1         2.2         100           Migraine         35.2         61.8         3.0         100           Tumour         51.2         46.3         2.4         100           Tooth Ache         35.7         55.4         8.9         100           Anemia         45.8         54.2         0.0         100           Paralysis         42.1         57.9         0.0         100           Paralysis         52.0         44.0         4.0         100           Low Blood Pressure         42.5         55.0         2.5         100           Hernia         42.9         52.4         4.8         100           Hormonal problem         50.0         25.0         25.0         100           Influenza         34.4         61.2         4.4         100           Back pain         31.0 <td></td> <td></td> <td>32.2</td> <td>64.9</td> <td>2.9</td> <td>100</td>			32.2	64.9	2.9	100
Asthma       41.5       54.6       3.9       100         Heart disease       38.8       58.2       2.9       100         Kidney disease       34.5       63.2       2.3       100         Typhoid       42.6       55.1       2.2       100         Migraine       35.2       61.8       3.0       100         Tumour       51.2       46.3       2.4       100         Tooth Ache       35.7       55.4       8.9       100         Anemia       45.8       54.2       0.0       100         Paralysis       42.1       57.9       0.0       100         Nasal polyps       52.0       44.0       4.0       100         Low Blood Pressure       42.5       55.0       2.5       100         Hernia       42.9       52.4       4.8       100         Hormonal problem       50.0       25.0       25.0       100         Influenza       34.4       61.2       4.4       100         Back pain       31.0       66.0       3.0       100         Stroke       68.0       32.0       0.0       100         Bronchitis       50.0       50.0<			22.4			100
Heart disease         38.8         58.2         2.9         100           Kidney disease         34.5         63.2         2.3         100           Typhoid         42.6         55.1         2.2         100           Migraine         35.2         61.8         3.0         100           Tumour         51.2         46.3         2.4         100           Tooth Ache         35.7         55.4         8.9         100           Anemia         45.8         54.2         0.0         100           Paralysis         42.1         57.9         0.0         100           Nasal polyps         52.0         44.0         4.0         100           Low Blood Pressure         42.5         55.0         2.5         100           Hernia         42.9         52.4         4.8         100           Hormonal problem         50.0         25.0         25.0         100           Influenza         34.4         61.2         4.4         100           Back pain         31.0         66.0         3.0         100           Stroke         68.0         32.0         0.0         100           Stroke         68.0			41.5		3.9	
Kidney disease         34.5         63.2         2.3         100           Typhoid         42.6         55.1         2.2         100           Migraine         35.2         61.8         3.0         100           Tumour         51.2         46.3         2.4         100           Tooth Ache         35.7         55.4         8.9         100           Anemia         45.8         54.2         0.0         100           Paralysis         42.1         57.9         0.0         100           Nasal polyps         52.0         44.0         4.0         100           Low Blood Pressure         42.5         55.0         2.5         100           Hernia         42.9         52.4         4.8         100           Hormonal problem         50.0         25.0         25.0         100           Influenza         34.4         61.2         4.4         100           Back pain         31.0         66.0         3.0         100           Gallbladder stone         27.6         72.4         0.0         100           Bronchitis         50.0         50.0         0.0         100           Appendicitis			38.8			100
Typhoid         42.6         55.1         2.2         100           Migraine         35.2         61.8         3.0         100           Tumour         51.2         46.3         2.4         100           Tooth Ache         35.7         55.4         8.9         100           Anemia         45.8         54.2         0.0         100           Paralysis         42.1         57.9         0.0         100           Nasal polyps         52.0         44.0         4.0         100           Low Blood Pressure         42.5         55.0         2.5         100           Hernia         42.9         52.4         4.8         100           Hormonal problem         50.0         25.0         25.0         100           Influenza         34.4         61.2         4.4         100           Back pain         31.0         66.0         3.0         100           Gallbladder stone         27.6         72.4         0.0         100           Stroke         68.0         32.0         0.0         100           Appendicitis         18.4         73.7         7.9         100           Allergy         3						100
Migraine         35.2         61.8         3.0         100           Tumour         51.2         46.3         2.4         100           Tooth Ache         35.7         55.4         8.9         100           Anemia         45.8         54.2         0.0         100           Paralysis         42.1         57.9         0.0         100           Nasal polyps         52.0         44.0         4.0         100           Low Blood Pressure         42.5         55.0         2.5         100           Hernia         42.9         52.4         4.8         100           Hormonal problem         50.0         25.0         25.0         100           Influenza         34.4         61.2         4.4         100           Back pain         31.0         66.0         3.0         100           Gallbladder stone         27.6         72.4         0.0         100           Stroke         68.0         32.0         0.0         100           Appendicitis         50.0         50.0         0.0         100           Allergy         35.5         58.1         6.5         100           Abdominal pain					2.2	100
Tumour         51.2         46.3         2.4         100           Tooth Ache         35.7         55.4         8.9         100           Anemia         45.8         54.2         0.0         100           Paralysis         42.1         57.9         0.0         100           Nasal polyps         52.0         44.0         4.0         100           Low Blood Pressure         42.5         55.0         2.5         100           Hernia         42.9         52.4         4.8         100           Hormonal problem         50.0         25.0         25.0         100           Influenza         34.4         61.2         4.4         100           Back pain         31.0         66.0         3.0         100           Gallbladder stone         27.6         72.4         0.0         100           Stroke         68.0         32.0         0.0         100           Appendicitis         50.0         50.0         0.0         100           Allergy         35.5         58.1         6.5         100           Abdominal pain         45.0         50.0         50.0         5.0         100 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>100</td></t<>						100
Anemia       45.8       54.2       0.0       100         Paralysis       42.1       57.9       0.0       100         Nasal polyps       52.0       44.0       4.0       100         Low Blood Pressure       42.5       55.0       2.5       100         Hernia       42.9       52.4       4.8       100         Hormonal problem       50.0       25.0       25.0       100         Influenza       34.4       61.2       4.4       100         Back pain       31.0       66.0       3.0       100         Gallbladder stone       27.6       72.4       0.0       100         Stroke       68.0       32.0       0.0       100         Appendicitis       50.0       50.0       0.0       100         Allergy       35.5       58.1       6.5       100         Abdominal pain       45.0       50.0       5.0       5.0       100         Total       27.3       69.5       3.2       100			51.2	46.3	2.4	100
Paralysis       42.1       57.9       0.0       100         Nasal polyps       52.0       44.0       4.0       100         Low Blood Pressure       42.5       55.0       2.5       100         Hernia       42.9       52.4       4.8       100         Hormonal problem       50.0       25.0       25.0       100         Influenza       34.4       61.2       4.4       100         Back pain       31.0       66.0       3.0       100         Gallbladder stone       27.6       72.4       0.0       100         Stroke       68.0       32.0       0.0       100         Appendicitis       50.0       50.0       0.0       100         Appendicitis       18.4       73.7       7.9       100         Abdominal pain       45.0       50.0       5.0       5.0       100         Tonsils       23.1       76.9       0.0       100         Total       27.3       69.5       3.2       100	Tooth Ache		35.7	55.4	8.9	100
Paralysis       42.1       57.9       0.0       100         Nasal polyps       52.0       44.0       4.0       100         Low Blood Pressure       42.5       55.0       2.5       100         Hernia       42.9       52.4       4.8       100         Hormonal problem       50.0       25.0       25.0       100         Influenza       34.4       61.2       4.4       100         Back pain       31.0       66.0       3.0       100         Gallbladder stone       27.6       72.4       0.0       100         Stroke       68.0       32.0       0.0       100         Appendicitis       50.0       50.0       0.0       100         Appendicitis       18.4       73.7       7.9       100         Abdominal pain       45.0       50.0       5.0       5.0       100         Tonsils       23.1       76.9       0.0       100         Total       27.3       69.5       3.2       100	Anemia		45.8	54.2	0.0	100
Nasal polyps       52.0       44.0       4.0       100         Low Blood Pressure       42.5       55.0       2.5       100         Hernia       42.9       52.4       4.8       100         Hormonal problem       50.0       25.0       25.0       100         Influenza       34.4       61.2       4.4       100         Back pain       31.0       66.0       3.0       100         Gallbladder stone       27.6       72.4       0.0       100         Stroke       68.0       32.0       0.0       100         Appendicitis       50.0       50.0       0.0       100         Appendicitis       18.4       73.7       7.9       100         Abdominal pain       45.0       50.0       5.0       5.0       100         Tonsils       23.1       76.9       0.0       100         Total       27.3       69.5       3.2       100	Paralysis				0.0	100
Low Blood Pressure       42.5       55.0       2.5       100         Hernia       42.9       52.4       4.8       100         Hormonal problem       50.0       25.0       25.0       100         Influenza       34.4       61.2       4.4       100         Back pain       31.0       66.0       3.0       100         Gallbladder stone       27.6       72.4       0.0       100         Stroke       68.0       32.0       0.0       100         Appendicitis       50.0       50.0       0.0       100         Appendicitis       18.4       73.7       7.9       100         Allergy       35.5       58.1       6.5       100         Abdominal pain       45.0       50.0       5.0       5.0       100         Tonsils       23.1       76.9       0.0       100         Total       27.3       69.5       3.2       100			52.0			100
Hernia       42.9       52.4       4.8       100         Hormonal problem       50.0       25.0       25.0       100         Influenza       34.4       61.2       4.4       100         Back pain       31.0       66.0       3.0       100         Gallbladder stone       27.6       72.4       0.0       100         Stroke       68.0       32.0       0.0       100         Bronchitis       50.0       50.0       0.0       100         Appendicitis       18.4       73.7       7.9       100         Allergy       35.5       58.1       6.5       100         Abdominal pain       45.0       50.0       5.0       100         Tonsils       23.1       76.9       0.0       100         Total       27.3       69.5       3.2       100	Low Blood Pressure			55.0		
Hormonal problem         50.0         25.0         25.0         100           Influenza         34.4         61.2         4.4         100           Back pain         31.0         66.0         3.0         100           Gallbladder stone         27.6         72.4         0.0         100           Stroke         68.0         32.0         0.0         100           Bronchitis         50.0         50.0         0.0         100           Appendicitis         18.4         73.7         7.9         100           Allergy         35.5         58.1         6.5         100           Abdominal pain         45.0         50.0         5.0         100           Tonsils         23.1         76.9         0.0         100           Total         27.3         69.5         3.2         100			42.9			
Influenza       34.4       61.2       4.4       100         Back pain       31.0       66.0       3.0       100         Gallbladder stone       27.6       72.4       0.0       100         Stroke       68.0       32.0       0.0       100         Bronchitis       50.0       50.0       0.0       100         Appendicitis       18.4       73.7       7.9       100         Allergy       35.5       58.1       6.5       100         Abdominal pain       45.0       50.0       5.0       100         Tonsils       23.1       76.9       0.0       100         Total       27.3       69.5       3.2       100						
Back pain       31.0       66.0       3.0       100         Gallbladder stone       27.6       72.4       0.0       100         Stroke       68.0       32.0       0.0       100         Bronchitis       50.0       50.0       0.0       100         Appendicitis       18.4       73.7       7.9       100         Allergy       35.5       58.1       6.5       100         Abdominal pain       45.0       50.0       5.0       100         Tonsils       23.1       76.9       0.0       100         Total       27.3       69.5       3.2       100						100
Gallbladder stone       27.6       72.4       0.0       100         Stroke       68.0       32.0       0.0       100         Bronchitis       50.0       50.0       0.0       100         Appendicitis       18.4       73.7       7.9       100         Allergy       35.5       58.1       6.5       100         Abdominal pain       45.0       50.0       5.0       100         Tonsils       23.1       76.9       0.0       100         Total       27.3       69.5       3.2       100						100
Stroke         68.0         32.0         0.0         100           Bronchitis         50.0         50.0         0.0         100           Appendicitis         18.4         73.7         7.9         100           Allergy         35.5         58.1         6.5         100           Abdominal pain         45.0         50.0         5.0         100           Tonsils         23.1         76.9         0.0         100           Total         27.3         69.5         3.2         100						100
Bronchitis         50.0         50.0         0.0         100           Appendicitis         18.4         73.7         7.9         100           Allergy         35.5         58.1         6.5         100           Abdominal pain         45.0         50.0         5.0         100           Tonsils         23.1         76.9         0.0         100           Total         27.3         69.5         3.2         100						100
Appendicitis       18.4       73.7       7.9       100         Allergy       35.5       58.1       6.5       100         Abdominal pain       45.0       50.0       5.0       100         Tonsils       23.1       76.9       0.0       100         Total       27.3       69.5       3.2       100						100
Allergy       35.5       58.1       6.5       100         Abdominal pain       45.0       50.0       5.0       100         Tonsils       23.1       76.9       0.0       100         Total       27.3       69.5       3.2       100						100
Abdominal pain         45.0         50.0         5.0         100           Tonsils         23.1         76.9         0.0         100           Total         27.3         69.5         3.2         100						
Tonsils         23.1         76.9         0.0         100           Total         27.3         69.5         3.2         100						
Total 27.3 69.5 3.2 100						100
	•	Total				100
<b>Number of morbidity</b> 5786 14721 671 2117	Number of morbidity	2				21178

Most treatments were received from private health facilities for persons of all economic status according to the data in the table 5.1.5. About 75% of people of highest asset quintile received treatment from private health facilities, 22% of that group received treatment in the govt. health facilities and the rest 3% from NGO health facilities.

Table 5.1.5: Proportion of persons reported morbidity of different asset quintile received treatment from different health facility

	percentage)	

Health facility	Asset quintile					
-	Lowest	Second	Middle	Forth	Highest	Total
Government	27	26	29	29	22	27
Private	69	71	68	68	75	70
NGO	3	3	3	3	3	3
Total	100	100	100	100	100	100

#### **5.2 Source of treatment**

In the table 5.2, proportion of treatments received during last 90 days is presented by source of treatment and sex. Among the treatments received, about 62% are from doctor, 3.6% are from homeopathic doctor. More than 20% treatments are taken from Pharmacy/Dispensary worker/Compounder and others.

Table 5.2: Proportion of treatments received by source of treatment and sex

(In percentage)

			(III percentag
Sources of treatment	Total	Male	Female
Doctor	61.8	61.4	62.2
Health Worker (Govt.)	5.4	5.2	5.5
Paramedics/Medical Technologist	3.8	3.8	3.9
Health worker(NGO)	2.0	1.8	2.2
Homeopathic Doctor	3.6	3.6	3.7
Kabirazi/Unani/Ayurbedic	1.8	2.1	1.5
Religious/Traditional	1.0	1.0	1.1
Pharmacy/Dispensary worker/Compounder/ Family	20.6	21.2	20.0
treatment/ Self treatment/ Others	20.6	21.2	20.0
Total	100	100	100

#### **5.3** Reasons for not seeking treatment

Proportion of persons reported illness without seeking treatment is shown in table 5.3.1 by reasons and sex. Among those who did not seek treatment, 38% were for lack of money (about 39% are female and 37% are male), about 20% were for not getting medical personnel in hospital and 3<sup>rd</sup> highest cause for not taking treatment was that considering disease not serious and its percentage was 14.5%.

Table 5.3.1: Proportion of persons reported illness and not seeking treatment by reasons and sex

				(In Percentage)
Reasons for not taking treatment		Total	Male	Female
Lack of money		38.0	37.1	38.8
Lack of companion		2.0	1.8	2.2
Disease was not serious		14.5	15.0	14.2
Disease was tolerable		8.7	9.5	8.0
Not curable		1.7	1.6	1.8
Not availability of female doctor		0.5	0.1	0.7
Inconvenience of transport		8.5	8.9	8.1
Far distance of treatment centre		2.2	1.5	2.7
Long waiting time for treatment		0.7	0.2	1.1
Often absence of medical personnel in hospital		19.9	21.1	19.0
Negligence of doctors' for diagnosis		0.1	0.0	0.1
Medicine not available		2.5	2.4	2.5
Others		0.9	0.9	0.9
	Total	100	100	100

The table 5.3.2 shows that among the persons reported illness but did not seek treatment, 28% were from lowest asset quintile, 24%, 20%, 14% and 15% were from  $2^{nd}$ , middle, fourth and highest asset quintile respectively. Those who did not seek treatment for lack of money, 41% were in lowest quintile, 23% were in  $2^{nd}$  lowest quintile.

# 5.3.2: Proportion of persons reported illness and not seeking treatment by reasons and asset quintile

(In Percentage)

Reasons for not seeking treatment	Asset quintile					
	Lowest	Second	Middle	Forth	Highest	Total
Diseases was not serious	20	22	21	15	21	100
Disease was tolerable	27	25	18	15	15	100
Far distance of treatment centre	34	14	19	16	17	100
Lack of money	41	23	15	10	11	100
Wait for long time	13	59	9	8	12	100
Often absence of medical personnel in	18	24	24	18	17	100
hospital						
Negligence of doctors for diagnosis	34	0	66	0	0	100
Lack of companion	15	19	30	11	25	100
Medicine not available.	16	26	29	8	21	100
Not availability of female doctor	34	36	19	0	11	100
Not curable	19	35	13	18	16	100
Inconvenience of transport	16	26	27	18	14	100
Others	29	12	26	16	18	100
Total	28	24	20	14	15	100

#### **5.4 Treatment cost**

Table 5.4 reveals that for the last 90 days of the survey, average expenditure per treatment recipient for all visits in the Govt. health facilities was Tk.1047 whereas it was Tk. 1057 in private health facilities, Tk.727 in NGO and Tk. 5944 in health facilities in abroad. In all types of facilities medicine cost is the highest portion of expenditure. In Govt. facilities the average medicine cost is Tk. 568 and it is Tk.515 in private, Tk. 410 in NGO health facilities and Tk.1388 in abroad. Number of total treatment recipients in a specific type of health facilities is the denominator and the total expenditure in the respective facilities for all the treatment received is the numerator for calculating the average expenditure per treatment recipient of the respective type of facilities. For calculating the average expenditure for different type of services of a specific type of health facility, total expenditure for the specific services in the specific type of health facility is used as the numerator and the number of total treatment recipients in the respective type of facility is used as the denominator number is ignored as there was no scope in the questionnaire to separate the cost according to visit. Rather in this calculation total cost of all visits of a specific type of services in a health facility for the previous 90 days of the survey for the recipient was recorded.

Table 5.4 Average expenditure per treatment by different types of services and types of health facilities

(Figure in Tk.)

Types of services	Government	Private	NGO	Abroad
Medicine	568	515	410	1388
Doctor's fee	32	73	48	141
Pathological test	133	159	99	840
Surgical cost	91	106	37	728
Hospital/clinic rent & other	59	80	30	1741
Exp. for patient's attendant	71	51	40	617
Transport cost	93	73	63	488
Total	1047	1057	727	5944

#### **5.5 Morbidity consequences**

According to table 5.5.1, among the persons reported illness for the last 90 days of the survey, 1.6% needed to be hospitalized where 3.1% were male and only 0.1% were female. Rate of hospitalization for female was lower compared to male in both rural and urban areas. Here 0 represents data less than 0.1

Table 5.5.1: Percent of the persons reported illness needed to be hospitalized for illness, December, 2011- February 2012

Residence	Morbid persons hospitalized (%)				
	Total	Male	Female		
Rural	1.5	2.9	0.1		
Urban	1.9	3.9	0.0		
National	1.6	3.1	0.1		

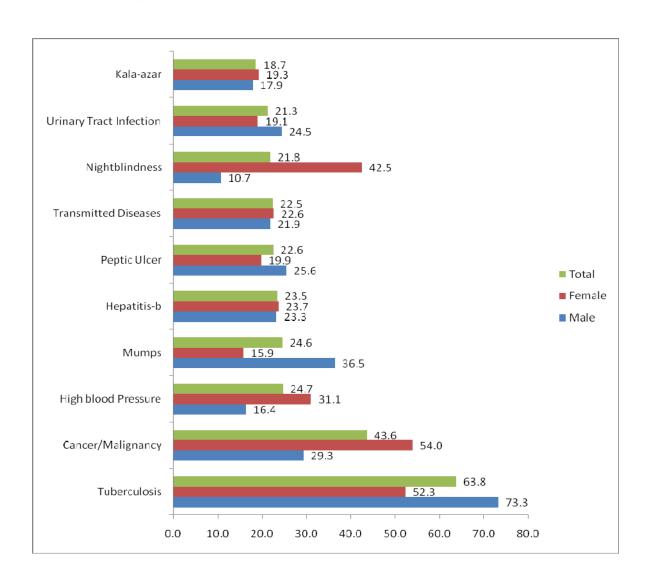
On an average 8.5 days needed to stay in hospital due to illness among the hospitalized people during last 90 days of the survey. The average days in hospital were 8.5 for male and 9.0 for female. In the urban areas, duration of staying in hospital for female was almost double (17.9 days) than that for male (8.8 days).

5.5.2: Average days in hospital for hospitalized people suffering from illness

Residence	A	verage days in hospital	I
	Total	Male	Female
Rural	8.4	8.4	7.7
Urban	8.9	8.8	17.9
National	8.5	8.5	9.0

Figure 5.5.3.deals with days needed to cure from morbid condition of top 10 diseases by sex. If respondent was cured during the last 90 days of the survey, then he or she was asked how many days were needed to be cured from the specific illness. Highest average days to cure from disease were 63.8 for tuberculosis. 2<sup>nd</sup> highest days needed for being cured were 43.6 for cancer/malignancy. To be cured from tuberculosis, male needed 73.3days and female needed 52.3 days. Again to be cured from cancer/malignancy, male needed 29.4 days and female needed 54.0 days.

Fig 5.5.3: Days needed to cure from morbid condition of top 10 diseases by sex, December, 2011-February 2012



In the table 5.5.4, average work days lost due to illness in the previous 90 days of the survey are described. Tuberculosis, Upper back pain and Hepatitis-b caused average days lost 18.8, 15.0 & 12.9 respectively. For the upper back pain, female lost almost double days (16.5) compared to male (8.4).

Table 5.5.4: Average work days lost due to illness by morbidity, December, 2011- February 2012

Diseases		Average work days lost	
_	Total	Male	Female
Tuberculosis	18.8	19.1	18.2
Upper Back pain	15.0	8.4	16.5
Hepatitis-b	12.9	14.2	11.1
Cancer/Malignancy	11.7	9.6	13.3
Mumps	10.1	12.3	8.3
Kala-azar	9.7	8.9	10.3
Peptic Ulcer	9.7	9.9	9.5
Urinary Tract Infection	7.8	9.2	6.9
Malaria	7.5	7.3	7.7
Rabies	7.4	9.6	3.0
Goitre	7.3	7.8	6.9
Transmitted Diseases	6.3	6.4	6.2
Fever (FUO)	6.3	6.8	5.8
Measles	5.8	5.4	6.2
Cataract	5.8	6.0	5.5
High blood Pressure	5.2	4.7	5.5
Chicken pox	5.1	5.7	4.3
Night blindness	4.8	4.7	4.9
Influenza	4.7	4.7	4.7
Whooping cough	4.6	4.6	4.5
Nasal polyps	4.5	4.8	4.2
Epilepsy	4.5	5.6	3.4
Mental Disorder	4.5	4.0	5.0
Gynecology Problem	4.5	n. a	4.5
Neck pain	4.4	3.8	4.9
Thalassemia	4.3	4.0	7.0
Conjunctivitis	4.2	4.6	3.9

Table 5.5.5 shows the average work days lost due to morbidity for the last 90 days of the survey by activities. Highest working days lost due to morbidity in taxi/tempo driving activities and it was 14.0 days. Agriculture, daily wage, business activities hampered on an average of 11.3, 11.1& 10.6 days respectively.

Table 5.5.5: Average work days lost due to morbidity by activities and sex, December, 2011-February 2012

Type of Activities			Average work days los	t
	·	Total	Male	Female
Household work		9.9	8.8	10.0
Agriculture		11.3	11.4	10.2
Daily wage		11.1	11.2	10.3
Van/Rickshaw drive		9.3	9.5	8.4
Taxi/Tempo drive		14.0	16.0	6.6
Absent in garments		8.6	8.3	8.9
Absent in industry/Factory		9.9	10.2	9.0
In service		10.6	10.1	11.9
Business		10.6	11.0	9.2
Employment		10.2	10.1	10.8
Others		9.3	9.5	9.1
	Total	10.2	10.6	9.9

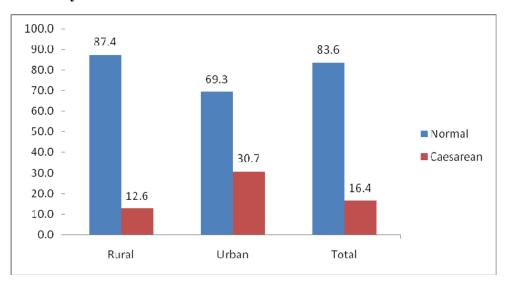
## CHAPTER-6 MATERNAL HEALTH CARE

Ever married women aged 15-49 years who gave birth during last 1 year of the survey were eligible for the information regarding places of birth, birth attendants, type of delivery, delivery cost, ante natal, post natal care, TT injection during pregnancy etc.

## **6.1** Type of delivery

Fig 6.1 shows that about 83.6% deliveries were normal and 16.4% were caesarean among the women aged 15-49 years who gave birth during the last one year of the survey. In rural areas, 87.4% deliveries were normal and 12.6% deliveries were caesarean. In urban areas about one-third (30.7%) deliveries were caesarean.

Fig 6.1: Percentage distribution of type of delivery by area of residence during last one year of the survey.



#### **6.2** Assistance during delivery

Table 6.2.1 describes that about 21.2% deliveries were attended by doctors, 10.3% by nurses, 36.2% by trained midwives and, 14.0% deliveries were with untrained midwives and 15.0% were with others.

Table 6.2.1: Percentage distribution of birth attendants during delivery.

	Doctor	Nurse	Trained midwife	Health Worker	Untrained midwife	Others
Rural	18.1	8.4	38.4	3.3	15.9	16.0
Urban	32.8	17.6	27.9	3.5	6.7	11.5
National	21.2	10.3	36.2	3.3	14.0	15.0

In the table 6.2.2 it is seen that among ever married women aged from 15 to 29 year, proportion of birth attendants as doctor were increasing than with the increase of age of mothers up to age of 44 year, the proportion of birth attendant as doctor decreased.

Table 6.2.2 Proportion of ever married women aged 15-49 year by birth attendant and maternal age group during last 1 year of the survey

Age			Type	of birth att	endants			Number of
group	Doctor	Trained	Nurse	Health	Untrained	Others	Total	Women
(In year)		midwife		worker	midwife			
15-19	21.6	33.3	12.9	4.8	13.2	14.2	100	176
20-24	21.7	35.4	12.3	3.6	12.9	14.2	100	802
25-29	22.7	36.0	10.2	2.5	14.2	14.5	100	663
30-34	20.2	39.6	9.0	2.9	13.0	15.4	100	338
35-39	16.9	35.8	7.3	4.6	18.0	17.4	100	181
40-44	16.1	36.9	6.9	1.3	18.5	20.2	100	132
45-49	24.0	37.3	5.0	6.8	12.7	14.2	100	98
Total	21.2	36.2	10.3	3.3	14.0	15.0	100	2390

From the table 6.2.3 it is seen that doctor as birth attendant was among 38.8% of the women of highest asset quintile and 13.3% and 6.8% of the lowest and  $2^{nd}$  lowest quintile respectively.

Table 6.2.3 Proportion of ever married women aged 15-49 year by birth attendant and asset quintile during last 1 year of the survey

<b>Asset Quintile</b>		Type of birth attendants								
	Doctor	Trained midwife	Nurse	Health worker	Untrained midwife	Others				
Lowest	13.3	26.0	13.4	11.7	27.9	24.1	21.5			
Second	6.8	16.8	14.7	16.6	23.0	24.8	16.5			
Middle	18.7	22.6	18.2	31.1	20.6	19.3	20.8			
Forth	22.5	17.2	21.0	17.0	16.6	14.4	18.2			
Highest	38.8	17.4	32.8	23.6	11.9	17.5	23.0			
T	otal 100	100	100	100	100	100	100			
No of ever married women aged 15-49 year		835	273	84	310	344	2390			

## **6.3 Places of delivery**

In the table 6.3.1, it is seen that one year preceding the survey about 69% deliveries occurred at home. In the rural areas home deliveries were higher (74%) and these were lower (50%) in urban areas. About 14% deliveries were in Govt. hospital, 15% were in private hospital and 2% were in NGO health care centre.

Table 6.3.1: Places of delivery by area of residence of married women aged 15-49 years.

(In Percentage)

Places of delivery	National	Rural	Urban	No of ever married women aged 15-49
Govt. hospital/health centre	14.2	12.2	22.1	374
NGO health centre	2.2	1.8	3.5	57
Private hospital/health centre	15.0	12.5	24.6	385
Home	68.6	73.5	49.8	1574
Total	100	100	100	2390

From the table 6.3.2, it is clear that for more than 80% deliveries of ever married women aged 15-49 years living in lowest and  $2^{nd}$  lowest asset quintile, were taking place at home. Only 50% deliveries of the mothers of same age living in highest asset quintile happened in health care institutes i. e. other than home.

Table 6.3.2: Proportion of ever married women aged 15-49 year asset quintile and place of delivery

Asset quintile	Delivery places						
- <u>-</u>	Govt. hospital / health centre	N.G.O health centre	Private hospital/health centre	Home	_		
Lowest	9.2	2.7	7.4	80.7	100		
Second	9.2	2.4	7.6	80.9	100		
Middle	14.6	0.9	12.9	71.7	100		
Forth	18.1	1.5	17.6	62.8	100		
Highest	19.3	3.2	27.4	50.2	100		
Total	14.3	2.2	15.0	68.6	100		

#### 6.4 Ante-natal care

According to Figure 6.4.1 about 21% of ever married women aged 15-49 who gave birth during one year preceding the survey did not consult doctor for ante-natal care. More than 4 visits for ante-natal care were made by 22% mothers. About 49% mothers with caesarean delivery visit more than 4 times for ante-natal care and 17% mothers with normal delivery consulted more than 4 times.

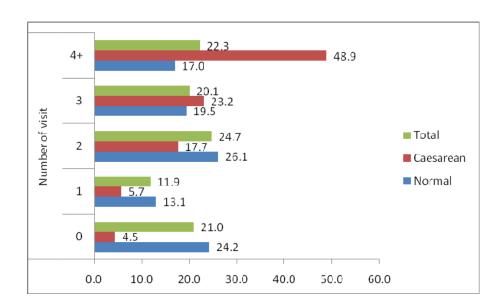


Figure 6.4.1: Visit for ante-natal care and by types of delivery

In the table 6.4.2, it is clear that frequency of visits for ante natal care were more among ever married women aged 15-49 who gave birth during one year preceding the survey of upper quintile asset. More than 4 visits were done by 10.8% mothers of lowest quintile and 16.3% by mothers of 2<sup>nd</sup> quintile, 18.4% by mothers of middle quintile, 26.7% by mothers of fourth quintile and 37.2% by mothers of highest quintile.

Table 6.4.2: Proportion of ever married women aged 15-49 years who gave birth during one year preceding the survey visited doctor for ANC by different asset quintile

Asset quintile	;	Frequency to visits						
		0	1	2	3	4+		
Lowest		32.3	12.9	29.1	14.9	10.8	100	
Second		26.0	13.0	24.0	20.7	16.3	100	
Middle		22.7	13.3	27.8	17.9	18.4	100	
Forth		12.2	12.4	23.7	24.9	26.7	100	
Highest		12.3	8.4	19.3	22.8	37.2	100	
T	otal	21.0	11.9	24.7	20.1	22.3	100	

#### 6.5 Post-natal care

According to figure 6.5.1, about 43% ever married women aged 15-49 giving birth with normal and about 20% women of that age group with caesarean delivery during last one year of the survey did not go for post-natal care consultation. Single visit for postnatal care was made more in case of normal delivery. Frequency of visits to doctor for postnatal care was higher in case of caesarean delivery (14.2%) compared to normal delivery (7.8%).

Number of visit 3 ■ Total 2 ■ Caesarean ■ Normal 1 38.8 0 19.4 42.6 0.0 10.0 20.0 30.0 40.0 50.0

Figure 6.5.1: Visit for post-natal care by types delivery

According to table 6.5.2 more than four visits to doctor to consult for post natal care was lowest among ever married women aged 15-49 of lowest asset quintile giving birth during one year preceding the survey and it was highest among those of highest asset quintile.

Table 6.5.2: Proportion of ever married women aged 15-49 year giving birth during one year preceding the survey visited for PNC by different asset quintile

Asset		Fre	quency to vis	sit		Total
quintile	0	1	2	3	4+	
Lowest	46.3	17.4	23.9	6.5	5.8	100
Second	46.6	19.7	16.7	9.7	7.3	100
Middle	40.2	20.9	19.8	10.8	8.3	100
Forth	29.3	21.0	27.0	13.6	9.1	100
Highest	32.4	16.0	26.4	12.1	13.0	100
Total	38.8	18.9	23.0	10.5	8.8	100

In the table 6.5.3, it is observed that there is a negative correlation between birth order and birth attendants as doctor or nurse. With the higher birth order there was a trend of more untrained birth attendants.

Table 6.5.3: Proportion of women aged 15-49 year giving birth during one year preceding the survey by birth attendant and birth order

Birth attendant Birth Order							
	1	2	3	4	5	6 and above	
Doctor	26.3	22.2	17.6	14.4	12.5	14.4	21.2
Trained midwife	32.4	34.5	42.4	40.3	47.6	31.6	36.2
Nurse	13.7	10.5	8.2	8.2	4.6	3.8	10.3
Health worker	3.5	3.3	3.7	1.1	2.3	7.0	3.3
Untrained midwife	11.9	13.4	12.6	17.2	20.6	23.5	14.0
Others	12.1	16.2	15.6	18.8	12.4	19.9	15.0
Total	100	100	100	100	100	100	100
Number of women	797	760	405	219	100	109	2390

## 6.6 Average expenditure for ANC, PNC and delivery care

In the table 6.6.1 it is observed that in all three stages ante-natal, delivery and post-natal care cost in urban area was higher than that in rural area. Average expenditure for ante-natal care was Tk.1187 in which it was Tk.1021 in rural area and Tk.1814 in urban area. Average expenditure for delivery care in case of cesarean Tk.13032 and in case of normal delivery the cost was Tk.1251. The expenditure for caesarian delivery in rural area was Tk.12535 and Tk.13804 in urban area. For normal delivery the average expenditure in rural area was Tk.1097 and in urban area it was Tk.1982. Average post-natal care in rural area was Tk.889 and in urban area it was Tk.1503.

Table 6.6.1: Average expenditure for ANC, PNC and delivery care

Residence		Ave	rage expenditure (T	k.)
	ANC	PNC	Caesarian delivery	Normal delivery
Rural	1021	889	12535	1097
Urban	1814	1503	13804	1982
National	1187	1017	13032	1251

According the table 6.6.2, average expenditure for ANC, PNC, normal and caesarean delivery is highest in Private hospital, 2<sup>nd</sup> highest expenditure for these is in Govt. Hospital/ health centres and the lowest expenditure is in NGO health centres.

Table 6.6.2: Average expenditure for ANC, PNC, Normal and Caesarean delivery by type of delivery places

Delivery places		Average	e. expenditure (Tk)	
	ANC	PNC	Caesarean Delivery	Normal Delivery
Govt. hospital/health centre	1505	1555	10752	2936
N.G.O health centre	998	578	8670	2108
Private hospital/health centre	2830	1910	14572	5546
Total	1187	1017	13032	1251

## **6.7 TT coverage**

Ever married women aged 15-49 year who received TT for their last pregnancy during last 1 year of survey are shown in table 6.7. About 58% of women aged 15-49 received TT during last pregnancy. Recipients of TT among mothers during last pregnancy in rural areas was little higher than that in urban areas. Mothers not received TT during last pregnancy does not mean that they were at risk, because some of them might have fulfilled their TT doses before the last pregnancy. In the questionnaire there was no scope to find out who completed the TT doses before the last pregnancy.

Table 6.7 Percentage distribution of ever married women aged 15-49 year who received TT during their last pregnancy by residence

Use of TT	National	Rural	Urban
TT received	58.2	58.4	57.8
TT not received	41.8	41.6	42.2
Total	100	100	100

## CHAPTER-7 VACCINATION AND VITAMIN-A COVERAGE

Vaccination coverage for children of 12-23 months and coverage of vitamin-A capsule for the children 06-59 months are addressed by sex, residence and divisions in this chapter. Reasons for not taking vaccines are also shown here. Mothers or caregiver of the children aged 00-23 months were asked whether the child had been vaccinated or not. If the response was positive then she or he was asked to show the card issued as a document of vaccination. If they failed to show the card then using the recall method the information regarding vaccination were collected. All mothers or caregivers of children aged 06-59 months were asked whether their children had been taken or not vitamin-A capsule in the last National Immunization Day (NID).

#### 7.1 Vaccination of children

According to table 7.1.1, vaccines for BCG, Penta-1,2,3, OPV-1,2,3 were separately covered among more than 80% children of age 12-23 months and the coverage of vaccine for measles was 79%. Coverage of all vaccines together for this age group is 70%. More male children were vaccinated than female children and more urban children are vaccinated than rural children of this age group.

Table 7.1.1: Children of 12-23 months who received specific vaccines by sex and residence

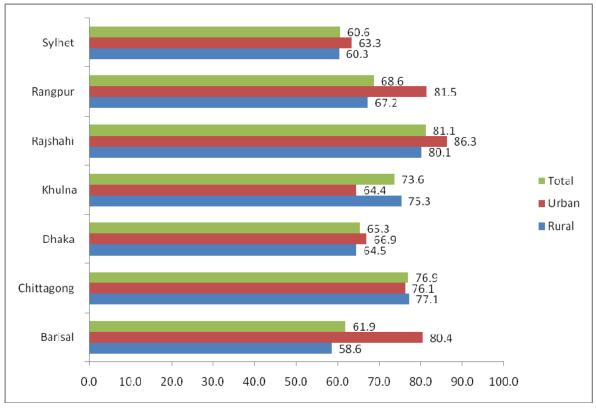
(In Percentage)

Vaccines		National			Rural			Urban	<u> </u>
	Total	Male	Female	Total	Male	Female	Total	Male	Female
BCG	88.3	89.2	87.3	88.0	88.8	87.1	89.4	90.7	88.2
Penta-1	90.4	91.4	89.3	90.1	90.9	89.3	91.5	93.5	89.4
Penta-2	87.6	88.2	86.9	87.2	87.5	86.8	88.9	90.6	87.1
Penta-3	84.6	85.9	83.3	84.2	85.4	82.9	86.0	87.6	84.5
OPV-1	84.2	85.1	83.2	83.6	84.5	82.6	86.4	87.2	85.5
OPV-2	82.7	84.0	81.2	82.1	83.1	81.0	84.8	87.7	81.9
OPV-3	80.2	82.1	78.2	79.8	81.6	77.8	81.9	84.1	79.6
Measles	79.5	80.9	78.0	79.3	80.8	77.6	80.3	81.2	79.4
All vaccines	70.2	71.2	69.2	69.8	71.1	68.4	71.7	71.6	71.8

*Note:* (*Penta*= *DPT*, *HEP B and Hib*)

Figure 7.1.2 shows that coverage of all vaccines among children of age 12-23 months was highest in Rajshahi division (81.1%) and lowest in Sylhet division (60.6%). In all divisions other than Khulna, coverage of vaccine was higher in urban area than in rural area. In Khulna division, this coverage was 75.3% in rural area and 64.4% in urban area. Difference between urban and rural children in vaccinations was highest in Barisal division and there coverage in urban area was 80.4% and in rural area it was 58.6%.

Fig 7.1.2: Children of 12-23 months who received all vaccines by divisions and residence (%)



According to the figure 7.1.3 the gap of coverage of all vaccines between male and female was more in Khulna division where male coverage was 78% and female coverage was 69%. In Chittagong and Barisal divisions more female children of this age group were vaccinated than male children.

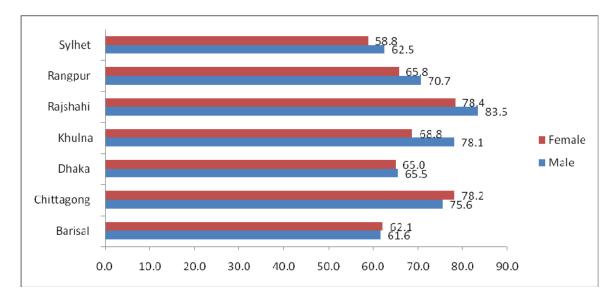


Fig 7.1.3: Children of 12-23 months received all vaccines by divisions and sex (%)

Table 7.1.4 shows that about 6.0% children of age 12-23 months were out of vaccination. The main reason for not getting vaccine was lack of knowledge about necessity of vaccine and it was 3.0%.

Table 7.1.4: Children aged 12-23 months not covered with vaccination by reasons and division

						()	In Percen	tage)
Reasons	Barisal	Chittagong	Dhaka	Khulna	Rajshahi	Rangpur	Sylhet	Total
Under weight	0.0	0.5	0.7	0.5	0.5	0.0	1.0	0.5
Lack of								
knowledge on	4.1	1.4	3.8	2.3	1.5	2.0	7.4	3.0
necessity of	4.1	1.4	3.0	2.3	1.5	2.0	7.4	3.0
vaccine								
No								
knowledge								
about doses	0.0	0.6	1.0	0.0	0.0	0.5	1.4	0.6
of given								
vaccine								
Don't know								
the place of	0.0	0.4	0.5	0.0	0.5	0.5	0.3	0.4
vaccine center								
Illness of	0.3	0.4	0.4	0.0	1.0	0.5	0.0	0.4
baby	0.3	0.4	0.4	0.0	1.0	0.5	0.0	0.4
Fear of side	0.8	0.2	0.1	0.0	0.5	0.2	0.0	0.2
effects	0.8	0.2	0.1	0.0	0.5	0.2	0.0	0.2
Others	0.8	0.2	1.1	0.2	0.0	1.5	2.9	0.9
Total	5.9	3.7	7.5	2.9	4.0	5.3	13.1	6.0

## 7.2 Coverage of vitamin-A capsule

According to table 7.2, about 81% children aged 06-59 months were covered with vitamin-A capsule in the last National Immunization Day (NID) before the survey. Among the divisions Chittagong had the highest coverage with 86% and Barisal and Sylhet had the lowest coverage with 75%. In the rural areas the coverage was 79% and that in urban areas were 85%.

Table 7.2: Children aged 06-59 months who received vitamin-A capsule in the last NID by sex, residence and division

								(In Pe	rcentage)
Division	l	National			Rural			Urban	
_	Total	Male	Female	Total	Male	Female	Total	Male	Female
Barisal	75	76	74	75	75	74	76	78	74
Chittagong	86	85	86	84	84	85	90	90	91
Dhaka	81	82	80	80	82	78	83	82	84
Khulna	82	81	83	81	80	83	85	87	83
Rajshahi	80	81	79	79	80	77	85	85	85
Rangpur	78	78	77	76	77	76	87	90	84
Sylhet	75	77	73	74	77	72	81	82	80
Total	81	81	80	79	80	79	85	85	85

## CHAPTER-8 KNOWLEDGE REGARDING HIV/AIDS, TT VACCINE & NID

HIV/AIDS is one of the threats to mankind. HIV means Human immune deficiency virus and AIDS means Acquired Immune Deficiency Syndrome. HIV is responsible for the diseases which totally destroy our immunity and thus result death. TT means Tetanus Toxoid which is a vaccine given to prevent tetanus disease. This chapter deals with knowledge regarding HIV/ AIDS among population aged 15-24 years. As the issue of HIV/ AIDS is very sensitive, there were some special instructions in collecting the data. For this issue interviewers were asked to interview every individual of the age group 15- 24 year with a very special care and efficiency. In spite of 3 times visiting a household if a respondent of this age group was unavailable and unwilling to respond then he or she was marked as absent or unwilling.

Information on knowledge of receiving TT vaccine for the reproductive ages among the mothers having children of 00-59 months and knowledge of National Immunization Day (NID) among these mothers were also included in this chapter. Mothers were asked whether they knew about receiving TT vaccine to protect newborn and mother from tetanus. If the answer was positive then they were asked to tell the schedules of vaccines.

## 8.1 Knowledge of HIV/AIDS

Table 8.1.1 describes the population aged 15-24 years by having the knowledge of learning source of HIV/AIDS (Multiple responses). Television was the main source (62.5%) of information of learning about HIV/AIDS and 83.8% of population aged 15-24 years heard it from this electronic media. About 22% population of this age group learnt it from educational institutes and about 22% heard it from radio.

Table 8.1.1: Knowledge of population aged 15-24 years on HIV/ AIDS by learning source by sex and residence (Multiple responses)

(In Percentage)

Sources of learning	_	National Rural				Urbar	1		
about HIV/AIDS	Total	Male	Female	Total	Male	Female	Total	Male	Female
Radio	21.3	21.9	20.7	20.4	20.8	19.8	24.4	25.4	23.4
Television	62.5	63.8	61.0	59.2	61.2	57.1	72.9	73.2	72.7
Billboard/Poster	12.8	14.4	11.2	10.9	12.5	9.2	19.1	21.1	17.3
News papers	12.9	14.1	11.6	10.7	12.1	9.1	20.1	21.1	19.2
Educational Institutes	21.7	20.8	22.8	21.0	20.2	21.9	24.0	22.6	25.3
Relative/Friends	17.3	17.3	17.2	17.2	17.5	16.9	17.4	16.6	18.2
Others	2.1	1.9	2.4	2.1	1.9	2.2	2.4	2.0	2.8

Populations aged 15-24 years by having the knowledge of transmission mode of HIV/AIDS are shown in table 8.1.2 (multiple responses). About 47% of population aged 15-24 years thought that using used needles/syringes was the way of transmission of HIV/AIDS. About 13% population of this age group did not know about the transmission process of HIV/AIDS.

Table 8.1.2: Knowledge of population aged 15-24 years on transmission mode of HIV/AIDS by sex and residence

(In Percentage) Knowledge of **National** Rural Urban HIV/AIDS **Total** Male **Female Total** Male **Female** Total Male **Female** transmission Sex without condom 32.4 34.1 42.4 40.1 34.5 36.0 33.0 30.6 41.2 Using used 47.3 47.7 46.9 43.8 45.0 42.5 58.8 57.2 60.3 needles/syringes Unsafe blood 28.2 28.4 27.9 25.6 26.1 25.0 36.6 36.3 36.9 transfusions Sharing razors and 18.0 20.4 15.5 16.8 19.2 14.2 22.0 24.4 19.7 blades Intercourse with HIV/AIDS affected 13.4 13.0 13.9 12.6 12.4 12.8 16.1 14.9 17.3 Husband/ wife 3.8 3.2 2.9 4.7 4.7 4.7 By born 3.5 3.3 3.5 Don't know 12.9 12.2 13.6 13.9 13.0 15.0 9.5 9.4 9.6

## 8.2 Knowledge of prevention of HIV/AIDS

In the table 8.3, population aged 15-24 years is described by having the knowledge of prevention of HIV/AIDS (Multiple response). About 40% population aged 15-24 years had the knowledge of preventive measures of HIV/AIDS as avoiding sharing syringe. About 17% population of this age group did not know about preventive measures.

Table 8.2: Population aged 15-24 years by having the knowledge of prevention of HIV/AIDS, sex and residence

(In Percentage) Knowledge about Rural Urban **National HIV/AIDS** Total Male **Female** Total Male **Female** Total Male Female prevention Protected sex 33.3 34.4 32.2 30.9 32.4 29.2 41.1 41.1 41.0 Transfusion of 36.8 37.2 36.4 33.9 35.0 32.6 46.5 45.1 47.7 unscreened blood Avoid sharing syringe 38.3 48.0 39.4 40.5 38.3 36.6 34.8 48.3 48.6 Avoid sharing razors 14.6 16.4 12.6 13.2 15.1 11.1 19.0 21.1 17.2 /blades Not giving birth by HIV/ AIDS infected 9.3 8.6 10.0 8.5 8.0 9.1 11.7 10.7 12.7 Husband/ wife Don't know 16.9 15.9 17.9 17.9 16.7 19.2 13.5 13.2 13.7

#### 8.3 Knowledge of TT doses

Mothers with children 00-59 months having knowledge about TT doses for reproductive health are shown in table 8.4 by residence. Among mothers with children 00-59 months, 24% had correct knowledge regarding TT doses for reproductive age. More mothers in rural (24.8%) had correct knowledge compared to mothers in urban area (22.7%).

Table 8.3: Percentage distribution of mothers with children 00-59 months having knowledge about TT doses for reproductive age by residence

Residence	Mother having knowledge about TT doses (%)							
	TT2	TT3	TT4	TT5	All TT			
Rural	37.6	36.6	33.3	30.2	24.8			
Urban	36.5	35.5	34.3	30.9	22.7			
National	37.3	36.4	33.5	30.3	24.4			

## 8.4 Knowledge about NID

The table 8.5 deals with mothers with children 00-59 months having knowledge about National Immunization Day (NID). Among mothers 83% knew about national immunization day whereas this was 81% in rural and 89% in urban area. Mothers of Dhaka division (86%) were the highest in this regard and mothers of Sylhet division (77%) were in the lowest among divisions.

Table 8.4: Percentage distribution of mothers with children 00-59 months having knowledge about NID for vaccination by division and residence

Division		National	Rural	Urban
Barisal		81	80	84
Chittagong		80	78	87
Dhaka		86	84	90
Khulna		85	84	89
Rajshahi		84	83	89
Rangpur		82	81	90
Sylhet		77	76	85
	Total	83	81	89

## CHAPTER-9 USE OF TOBACCO AND ABUSE OF INTOXICATING SUBSTANCE

This chapter describes about use of tobacco and narcotics among population 15 years and above. All the individuals of this age group were asked separately and help of other members of the household were also sought if needed. For information of this part, interviewers were instructed to be cautious enough and to be tactful. Assistance from the Local Registrars of SVRS project of BBS living in the same PSU was also helpful in collecting data on these types of sensitive issues. Age of initiation for smoking, tobacco & narcotic use, expenditure for tobacco and narcotic in the previous day of data collection, distribution of tobacco and narcotic users by sex, residence, division and level of education are presented in the chapter.

## 9.1 Tobacco users and intoxicating substance abuser (15+year)

Table 9.1.1 shows that about 33.5% population (15+) used tobacco where 44.3% were male and 23% were female. More people in rural area (35.3%) used tobacco than people in urban areas (27.8%). Rate of smokers was 19.8% and the rate of smokeless tobacco (tobacco leaf, zarda, gull) was 16.8%. More male were engaged in smoking (36.7%) and in abusing intoxicating substance (1.3%). In using smokeless tobacco female (20.2%) were more compared to male (13.4%). Rate of smoking, smokeless tobacco and intoxicating substance abusing was higher in rural areas compared to urban areas.

Table 9.1.1: Rate of tobacco (smoking and smokeless) users and intoxicating substance abuser (15+ years) by sex and residence

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		Age group	(year)	Total	Number of tobacco	
	15-19	20-34	35-49	50+		users 15+
Male	7.7	33.4	61.4	65.2	44.3	20126
Female	2.1	10.3	32.5	44.9	23.0	10423
Total	5.2	21.1	46.7	55.2	33.5	30549

#### Rate of smoker by age group and sex

(In percentage)

		Age group	Total	Number of smokers		
	15-19	20-34	35-49	50+		15+
Male	6.7	29.6	52.6	49.2	36.7	16641
Female	0.8	1.6	4.5	6.0	3.2	1467
Total	4.0	14.7	28.1	28.0	19.8	18108

## Rate of smokeless tobacco user by age group and sex

(In Percentage)

		Age group (	Total	No of smokeless		
	15-19	20-34	35-49	50+		tobacco users 15+
Male	1.3	6.7	17.2	26.5	13.4	6016
Female	1.3	9.0	28.9	39.5	20.2	9141
Total	1.3	7.9	23.2	32.9	16.8	15157

## Rate of intoxicating substance abuser by age group and sex

(In Percentage)

		Age group (year)					Number of intoxicating
		15-19	20-34	35-49	50+		substance abuser
Male		0.3	1.2	1.9	1.6	1.3	593
Female		0.1	0.2	0.5	0.5	0.4	151
To	tal	0.2	0.7	1.2	1.1	0.8	744

## Rate of tobacco user by sex and residence

(In Percentage)

	Rural	Urban	Total
Male	46.1	38.7	44.3
Female	24.8	17.3	23.0
Total	35.3	27.8	33.5

## Rate of smoker by age group and sex

(In Percentage)

	Rural	Urban	Total
Male	37.9	32.7	36.7
Female	3.6	2.2	3.2
Total	20.6	17.2	19.8

## Rate of smokeless tobacco user by sex and residence

(In Percentage)

	Rural	Urban	Total
Male	14.5	9.8	13.4
Female	21.8	15.3	20.2
Total	18.2	12.6	16.8

## Rate of intoxicating substance abuser user by sex and residence

(In Percentage)

	Rural	Urban	Total
Male	1.4	1.0	1.3
Female	0.4	0.1	0.4
Total	0.9	0.6	0.8

According to table 9.1.3, there exists a negative correlation between education and the use of tobacco (both smoking and smokeless) and abuse of intoxicating substance. As the level of education increases, the use of tobacco and intoxicating substance decreases. Overall rate of smoking was 19.8% and it was 27.3% among persons without education, 22.2% among persons with primary, 47% of non-educated people aged 10 years and above use tobacco & narcotics and it was the highest portion among people of different level of education and about 24% of this group of people do smoking. About 45% of HSC and above used tobacco & narcotics.

Table 9.1.3: Percentage distribution of smokers, smokeless tobacco users and intoxicating substance abusers by level of education

	Rate of S	mokers 15+ year l	by education	
		Male	Female	Total
Level of	No schooling	56.2	5.7	27.3
education	I-IV	39.2	3.4	22.2
	V	38.3	2.2	20.5
	VI-IX	26.3	1.1	13.3
	SSC	19.7	0.9	11.8
	HSC and above	17.2	0.4	11.5
	Others	8.7	0.0	5.8
	Total	36.7	3.2	19.8
	Number of smokers	16641	1467	18108
	Rate of Smokele	ss tobacco user 15	+ year by educatio	n
		Male	Female	Total
Level of	No schooling	21.1	33.4	28.2
education	I-IV	14.6	22.1	18.2
	V	13.8	18.4	16.1
	VI-IX	8.8	7.9	8.3
	SSC	7.2	4.7	6.2
	HSC and above	5.9	3.1	5.0
	Others	11.7	13.4	12.2
	Tota	l 13.4	20.2	16.8
	Number of smokeless tobacco	6016	9141	15157
	users			

	Rate of intoxicating	g substance abuser	15+ year by educat	tion
		Male	Female	Total
Level of	No schooling	2.4	0.7	1.4
education	I-IV	1.5	0.3	0.9
	V	1.1	0.1	0.6
	VI-IX	0.7	0.1	0.4
	SSC	0.6	0.1	0.4
	HSC and above	0.6	0.1	0.4
	Total	1.3	0.4	0.8
	Intoxicating substance	593	151	744
	abusers			

#### 9.2 Age of initiation for tobacco users and intoxicating substance abuser

According to table 9.2, about 44% smokers start it at the age of 20-34 year. More than 47% of intoxicating substance abusers started it at the age of 20-34 year and 33% of the users started it at 16-19 year. About 53% of smokeless tobacco users started it at the age of 20-34 year.

Table 9.2: Proportion of Smokers, Smokeless Tobacco users and intoxicating substance abusers by age of initiation and by sex (%)

		A C	· . • 4 • . 4 •		\		
			initiation of		•		
	5-9	10-14	15-19	20-34	35-49	50+	Total
Male	0.6	12.5	39.7	43.6	3.2	0.5	100
Female	1.1	11.5	28.0	46.5	10.1	2.8	100
Total	0.6	12.4	38.7	43.9	3.7	0.7	100
	A	ge of initiati	on of smokel	ess tobacco ı	use (In year)		
	5-9	10-14	15-19	20-34	35-49	50+	Total
Male	2.4	6.1	21.4	51.5	14.7	3.9	100
Female	2.2	6.4	19.2	53.4	16.1	2.8	100
Total	2.3	6.3	20.1	52.7	15.5	3.2	100
	Age	of initiation	of intoxicatir	ng substance	abuse (In yea	r)	
	5-9	10-14	15-19	20-34	35-49	50+	Total
Male	3.2	12.4	31.9	46.8	4.6	1.1	100
Female	1.3	7.3	36.7	49.0	3.5	2.1	100

#### 9.3 Tobacco users by Division

2.8

**Total** 

Table 9.3 shows that about 45% of population aged 15 years and above of Sylhet division used tobacco and it was highest among divisions whereas the percentage of tobacco users for national level was 33.5%. The least tobacco users were in Rajshahi division and it was 28.9%. About 52.5% male and 37.5% female of Sylhet division were tobacco users.

47.3

4.4

1.3

100

33.0

Table 9.3: Tobacco (smoking + smokeless) users by division and sex (%)

11.3

Division	Male	Female	Total
Barisal	37.8	26.8	32.3
Chittagong	44.3	24.2	34.0
Dhaka	43.4	25.2	34.1
Khulna	42.1	16.5	29.4
Rajshahi	43.6	14.3	28.9
Rangpur	48.7	20.8	34.9
Sylhet	52.5	37.5	44.8
T	Total 44.3	23.0	33.5

## 9.4 Average expenditure per day for using tobacco and intoxicating substance abuse

Expenditure on the specific item in the previous day of data collection was recorded. So expenditure was under estimated for those who did not spend for these purposes every day. Table 9.4 describes that per day average expenditure for smoking per capita was Tk. 15.8, for narcotic Tk. 31.1 and for smokeless tobacco Tk. 4.9. On an average per day expenditure incurred by a male smoker was Tk. 16.3 and by female Tk. 8.5. In case of intoxicating substance a male abuser spent per day Tk. 34.6 while a female abuser spent Tk. 11.9. It is revealed that males were more addicted than female and spent more money.

Table 9.4: Average expenditure per day for using tobacco and narcotics by sex

			(Figure in Taka)
Sex	Per day avg. exp for smoking	Per day avg. exp for intoxicating substance abuse	Per day avg. exp for tobacco (smokeless)
Male	16.3	34.6	5.6
Female	8.5	11.9	4.5
Total	15.8	31.1	4.9

## CHAPTER-10 IMPAIRMENTS AND ACCIDENTS/ INJURY

According to recommendation of Washington Group, information on six types of impairments was collected. This chapter also includes prevalence of accidents/ injury, expenditure due to accident, type of treatment etc.

Impairment means any loss or abnormality of physiological and psychological function. The estimates have been produced at national, rural, urban and divisional levels. The results documented here were based on single response, i.e. a person had been identified as disabled on the basis of the most serious impairment as considered by the respondent from amongst the impairments reported. No multiple responses on disabilities/impairments were used on the tables, only single responses on disabilities/impairments had been used. The question to identify a person as impaired was whether the HH had any member with any kind of impairments. Once identified as impaired, a special interview of impaired person was conducted on categories of impairments like difficulties in seeing, hearing, walking/climbing, remembering/concentrating, self-care, communicating to others and about treatment expenditure for the last 90 days of the survey.

#### 10.1 Impaired persons

Prevalence of impaired persons per 1000 population was 7.2 at national level and it was 7.3 in rural and 6.8 in urban areas as revealed in Table 10.1.1. Male were more (7.5) impaired compared to female (6.8) in both national and in rural but in urban areas female were more impaired than male. Prevalence of impaired persons was highest in Barisal division (8.7) and it was lowest in Rangpur division (3.3).

Table 10.1.1: Prevalence of physically or mentally impaired persons by sex, residence and division

(Per 1000 population) National Urban Division Rural Total Female **Female** Female Male Total Male **Total** Male Barisal 8.7 10.4 12.5 10.0 15.1 3.2 12.2 7.8 1.8 Chittagong 6.6 9.9 4.8 10.0 11.2 8.9 2.5 5.8 1.7 Dhaka 3.7 5.6 5.0 6.1 4.0 2.3 4.6 2.5 1.5 Khulna 7.0 10.2 5.2 8.6 8.9 8.3 4.7 2.7 16.1 Rajshahi 4.0 6.1 5.3 5.6 4.9 2.2 8.2 2.8 1.1 Rangpur 3.3 4.7 2.5 4.7 4.7 4.7 1.1 4.4 0.7 Sylhet 7.6 11.1 5.7 10.2 11.7 8.8 3.6 7.8 3.0 7.2 7.5 7.3 6.7 7.0 Total **7.8** 6.8 6.6 6.8 Number of 1055 543 512 673 358 315 382 185 **197** impaired persons

In the table 10.1.2, distribution of impaired persons is shown by type of impairments, sex and residence. Persons with difficulty walking/climbing were most among different type of impairments and its prevalence per 1000 population was 3.3, 2<sup>nd</sup> most impairments were difficulty seeing with the prevalence 1.4 per 1000 population.

Table 10.1.2: Prevalence of impaired persons by type of difficulties, sex and residence

(Per 1	1000	popu]	lation)	
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							(1 01	1000 po	pulation
Type of difficulty		Total			Rural			Urban	
Type of difficulty	Total	Male	Female	Total	Male	Female	Total	Male	Female
Seeing	1.4	1.5	1.4	0.8	0.7	1.0	1.2	0.8	1.7
Hearing	0.8	0.8	0.8	1.9	2.1	1.7	0.7	0.6	0.8
Walking/ climbing	3.3	3.5	3.0	1.5	1.8	1.2	3.3	3.8	2.9
Remembering/ concentrating	0.7	0.7	0.7	1.0	1.0	0.9	0.7	0.6	0.9
Self care	0.3	0.3	0.4	0.7	0.8	0.7	0.3	0.3	0.3
Communicating	0.6	0.7	0.5	0.6	0.6	0.6	0.5	0.6	0.5
Total	7.2	7.5	6.8	7.3	7.8	6.7	6.8	6.6	7.0

#### 10.2 Rate of receiving care

In the questionnaire, there was no scope to identify whether the treatment received was from trained or untrained health care provider. According to table 10.2, among the impaired persons 99.7% are receiving treatment from any provider. 100% of the people having difficulty with walking/ climbing, remembering/ concentrating, self care & communicating and 99.4% people with seeing difficulty, 98.0% with hearing difficulty received treatment.

Table 10.2: Rate of receiving care of impaired persons from any provider by residence and type of difficulty for last 3 months

(In Percentage) Total Rural Urban Type of difficulty Female Female Total Male **Total** Male Female **Total** Male 98.8 Seeing 99.4 100.0 99.2 98.6 100.0 100.0 100.0 100.0 98.0 100.0 96.2 98.7 100.0 97.3 95.8 100.0 92.8 Hearing Walking/climbing 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Remembering/ 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 concentrating Self care 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Communicating Total 99.7 99.7 99.7 99.7 99.6 100.0 99.1 99.8 99.6

## 10.3 Average expenditure

In the table 10.3, it is found that average expenditure for impaired persons for 3 months preceding to the survey was Tk.4225. Average expenditure for impairment related to remembering/ concentrating was highest (Tk.5608) and the lowest average expenditure was for impairment unable to maintain self care (Tk.2527). Among the different parts of treatment, expenditure for medicine was highest (Tk.2521) and it was lowest for surgery (Tk.130). The average cost of surgery is lowest due to recipient of surgery was very fewer compared to other types of treatment.

Table 10.3: Average expenditure of treatment recipients by types of impairment.

Type of	Average Expenditure (Tk)							
Impairment	Medicine	Prescription	Communi cation	Medical test	Surgical cost	Clinic/hos pital rent	Others Exp.	Average Exp.
Difficulty seeing	1724	345	296	578	298	111	222	3574
Difficulty hearing	1392	240	257	387	305	79	168	2829
Difficulty walking/ climbing	2860	349	294	422	71	164	304	4465
Difficulty remembering/ concentrating	3490	534	487	663	25	88	321	5608
Difficulty with self-care	1583	183	221	293	11	98	138	2527
Difficulty communicating	3396	391	431	601	16	401	328	5564
Total	2521	351	318	483	130	154	269	4225

## 10.4 Injured persons

Table 10.4.1 deals with prevalence of injured persons per 1000 population by types of injury and sex. Prevalence of injured persons per 1000 populations for 3 months preceding to the survey was 7.0 whereas prevalence of male injured was 9.3 and that of female was 4.6. Prevalence of severe type of injury/wound per 1000 was 1.2 where it was 1.8 for male and 0.6 for female and the proportion of severe type of injured/wounded persons among the all injured persons is 17%. Other than burn, in all types of injury male were more injured than female. Prevalence of severe burn per 1000 population in female was 0.3.

Table 10.4.1 Prevalence of injured persons per 1000 population by types of injury and sex

Types of Injury		Total	Male	Female
Severe injury/Wound		1.2	1.8	0.6
Swelling any parts of body		0.9	1.2	0.5
Pounded/Bruised		1.2	1.8	0.5
Fractured		1.3	1.6	0.9
Severe burn		0.2	0.2	0.3
Violence		0.1	0.1	0.0
Sprained		1.2	1.3	1.0
Suicide		0.1	0.1	0.0
Others		0.9	1.1	0.6
	Total	7.0	9.3	4.6

Table 10.4.2 describes that people of urban areas had accident more compared to people of rural areas except beside houses, in school and in field. Out of 7.0 injured per 1000 population 2.0 had accident in house, 1.5 beside houses, 1.3 in other working places.

Table 10.4.2: Prevalence of injured person by place of accident and residence

(Per 1000 population)

Place of Accident		National	Rural	Urban
Inside the house		2.1	2.0	2.2
Near the house		1.5	1.6	1.5
On way to school		0.3	0.3	0.5
Inside school		0.1	0.1	0.1
On way to work		0.9	0.7	1.3
On way to field		0.1	0.1	0.2
In work place		1.9	1.9	1.9
In play ground		0.1	0.1	0.2
	Total	7.0	6.7	7.8

## 10.5 Rate of receiving care of injured persons

Table 10.5.1 shows the distribution of injured persons by type of treatment providers and sex. About 61% of the injured persons went to doctor, 18% received treatment from Pharmacy/self-treatment or others. About 6% injured person went to Kabirazi/Unani/Ayurbedic. In the rural area, about 60% of injured persons and in urban area about 66% of injured consulted with doctor.

Table 10.5.1: Rate of receiving care of injured persons by type of treatment providers, sex and residence

								(In Pe	rcentage)	
Types of treatment	Types of treatment To			otal Rural				Urban		
Provider	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Doctor	61.2	63	57.5	59.7	61.2	56.5	65.7	67.9	60.8	
Health worker (Govt.)	6.0	6.5	4.8	6.0	6.9	4.3	5.9	5.6	6.4	
Health worker (NGO)	3.5	3.5	3.6	3.9	3.8	4.1	2.3	2.4	2.2	
Paramedics/Medical Technologist	3.3	3.5	2.9	3.8	4.1	3.2	2.0	1.9	2.2	
Homeopathic Doctor	1.3	1.5	0.8	1.4	1.9	0.4	0.9	0.4	2.1	
Kabirazi/Unani/ Ayurbedic	5.6	4.1	8.8	7.0	5.2	10.5	1.9	1.1	3.8	
Religious/ Traditional	1.2	0.8	2.1	1.3	1.1	1.8	0.9	0.0	3.0	
Pharmacy/										
Self Treatment/										
Others	18.0	17.2	19.4	17	16	19.2	20.5	20.6	19.8	
Total	100	100	100	100	100	100	100	100	100	

## 10.6 Average expenditure of treatment due to accident

Table 10.6.1 presents that average expenditure of treatment per accident was Tk.4521 whereas it was Tk.4875 for urban and Tk.4396 for rural areas. This average expenditure was Tk.4937 for male whereas it was Tk.3675 for female.

Table 10.6.1: Average expenditure per treatment recipient due to accident by sex and residence, December, 2011-February 2012

Residence	Average expenditure (Tk.)					
	Total	Male	Female			
Rural	4396	4752	3693			
Urban	4875	5445	3620			
National	4521	4937	3675			

The table 10.6.2 shows that the highest average treatment cost for last 90 days was Tk.8248 for fractured bone and this expenditure was Tk.9521 for male and Tk.5917 for female. Lowest average treatment cost was Tk.601 due to violence whereas it was Tk.225 for male and Tk.1204 for female.

Table 10.6.2: Average expenditure per treatment recipient due to accident by sex and injury, December, 2011-February 2012

T	A	verage expenditur	e (Tk.)
Type of Injury —	Total	Male	Female
Severe injury/Wound	7239	7868	5235
Swelling any parts of body	1957	1940	1997
Pounded/Bruised	2605	2796	1928
Dislocation	2640	4079	828
Fractured	8248	9521	5917
Severe burn	5795	5319	6006
Violence	601	225	1204
Sprained	2452	3150	1533
Attempt to suicide	1833	2040	1332
Others	3601	2903	4861
Total	4521	4937	3675

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# APPENDICES APPENDIX-A: STATISTICAL TABLES

Table P-1: Percentage distribution of population by age group and sex (Barisal Division)

Age group (In				
year)	Total	Male	<b>Female</b>	Sex ratio
00-04	8.5	8.1	8.9	92.8
05-09	11.0	11.4	10.7	108.3
10-14	13.1	13.2	12.9	104.3
15-19	10.2	11.3	9.0	127.3
20-24	8.1	8.3	7.9	107.7
25-29	8.0	7.7	8.4	93.1
30-34	6.1	5.2	6.9	76.9
35-39	6.6	5.8	7.4	80.2
40-44	5.6	5.6	5.6	102.9
45-49	4.8	4.9	4.6	109.5
50-54	5.2	4.7	5.6	84.6
55-59	3.8	4.2	3.3	128.1
60-64	3.2	3.3	3.2	105.3
65-69	2.1	2.2	2.0	110.4
70-74	1.9	2.1	1.7	127.9
75-79	0.8	0.9	0.7	122.9
80 & more	1.3	1.2	1.4	84.7
Total	100.0	100.0	100.0	101.5
No. of population	11365	5724	5641	

Table P-2: Percentage distribution of population by age group, sex (Chittagong Division)

Age group (In year)	Total	Male	Female	Sex ratio
00-04	9.8	10.1	9.4	106.1
05-09	12.6	12.9	12.3	103.2
10-14	13.1	13.4	12.8	103.2
15-19	10.8	11.9	9.8	119.2
20-24	9.6	9.4	9.8	94.1
25-29	7.6	7.1	8.1	87.1
30-34	6.2	5.4	7.1	76.0
35-39	5.9	5.4	6.3	84.5
40-44	5.6	5.2	5.9	87.7
45-49	4.5	4.4	4.6	93.4
50-54	4.3	4.2	4.3	95.0
55-59	3.4	3.6	3.1	115.7
60-64	2.3	2.5	2.2	113.0
65-69	1.6	1.6	1.5	105.7
70-74	1.3	1.4	1.2	112.9
75-79	0.7	0.8	0.7	124.0
80 & more	0.8	0.7	0.9	77.3
Total	100.0	100.0	100.0	98.5
No. of population	27337	13568	13769	

Table P-3: Percentage distribution of population by age group and sex (Dhaka Division)

Age group (In year)	Total	Male	Female	Sex ratio
00-04	9.2	9.4	9.0	102.3
05-09	11.5	11.5	11.5	98.2
10-14	11.8	12.4	11.2	108.6
15-19	9.6	10.2	9.0	111.1
20-24	8.8	8.2	9.5	84.9
25-29	8.2	7.5	8.8	84.0
30-34	6.9	6.6	7.2	90.0
35-39	6.4	5.8	7.0	80.6
40-44	6.2	6.1	6.2	96.5
45-49	5.3	5.7	4.9	112.5
50-54	4.8	4.7	4.9	94.5
55-59	3.6	3.8	3.5	107.4
60-64	2.6	2.8	2.5	108.7
65-69	1.8	2.0	1.7	117.2
70-74	1.4	1.6	1.3	115.0
75-79	0.8	0.9	0.7	133.0
80 & more	1.0	0.9	1.0	84.7
Total	100.0	100.0	100.0	98.2
No. of population	39439	19540	19899	

Table P-4: Percentage distribution of population by age group and sex (Khulna Division)

Age group (In year)	Total	Male	Female	Sex ratio
00-04	7.9	7.9	7.8	104.9
05-09	10.0	10.0	10.1	100.9
10-14	11.0	11.7	10.4	115.5
15-19	9.7	11.1	8.4	135.1
20-24	8.8	8.7	8.9	101.0
25-29	8.1	7.3	9.0	83.3
30-34	7.3	6.4	8.3	79.0
35-39	7.4	6.6	8.1	83.4
40-44	6.8	6.8	6.9	99.9
45-49	5.7	6.5	4.8	140.4
50-54	5.1	4.8	5.5	88.1
55-59	3.8	4.0	3.5	116.0
60-64	2.8	3.1	2.5	123.2
65-69	1.9	2.0	1.9	106.1
70-74	1.6	1.4	1.9	75.4
75-79	1.1	1.1	1.2	95.1
80 & more	0.9	1.0	0.8	117.0
Total	100.0	100.0	100.0	101.9
No. of population	18558	9368	9190	

Table P-5: Percentage distribution of population by age group and sex (Rajshahi Division)

Age group (In year)	Both	Male	Female	Sex ratio
00-04	8.8	9.0	8.7	102.7
05-09	9.9	10.0	9.9	101.2
10-14	10.6	10.8	10.4	104.5
15-19	9.8	10.6	9.0	117.0
20-24	9.0	8.8	9.2	96.0
25-29	8.6	8.0	9.1	88.7
30-34	7.3	6.7	8.0	83.7
35-39	7.4	6.9	7.9	87.6
40-44	6.6	6.5	6.6	99.4
45-49	5.7	6.3	5.1	124.1
50-54	4.8	4.6	5.0	91.3
55-59	3.9	4.1	3.8	107.8
60-64	2.6	2.7	2.4	111.2
65-69	1.9	2.0	1.8	110.6
70-74	1.4	1.3	1.4	95.2
75-79	0.8	0.9	0.8	118.9
80 & more	0.9	0.8	1.0	78.0
Total	100.0	100.0	100.0	99.9
No. of population	16825	8409	8416	

Table P-6: Percentage distribution of population by age group and sex (Sylhet Division)

Age group (In year)	Total	Male	Female	Sex ratio
00-04	10.1	9.9	10.3	94.4
05-09	13.8	14.4	13.1	107.2
10-14	13.3	13.7	12.9	104.0
15-19	10.5	11.1	9.9	109.5
20-24	9.1	9.0	9.1	96.7
25-29	7.1	6.5	7.6	84.0
30-34	6.3	5.7	6.8	82.3
35-39	5.7	4.8	6.5	72.1
40-44	5.9	6.0	5.7	103.1
45-49	4.3	4.8	3.8	125.7
50-54	4.5	4.3	4.8	87.4
55-59	3.2	3.4	3.1	108.1
60-64	2.3	2.3	2.3	98.6
65-69	1.6	1.4	1.9	70.9
70-74	1.2	1.3	1.1	113.3
75-79	0.6	0.6	0.5	119.4
80 & more	0.7	0.7	0.7	110.1
Total	100.0	100.0	100.0	98.3
No. of population	8811	4368	4443	

Table I-1: Nature of accident by sex and residence (%)

Nature of accident		Nationa	l		Rural		Urban		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Traveling	33.0	38.0	23.0	32.3	37.7	21.7	35.6	39.5	26.9
Drowned	2.0	2.0	2.0	2.0	2.0	2.1	1.0	0.5	2.0
Violence by Husband/wife	1.0	0.0	1.0	0.4	0.3	0.5	1.5	0.8	3.1
Violence by intimate partner	0.0	0.0	0.0	0.2	0.3	0.0	0.4	0.6	0.0
Acid throwing	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.3	0.0
Violence by head of the household/ housewife	0.0	0.0	0.0	0.1	0.0	0.4	0.1	0.2	0.0
Violence by Neighbor/spoiled	4.0	5.0	4.0	4.9	5.2	4.4	2.9	3.7	1.2
Severe diseases	1.0	1.0	1.0	0.3	0.3	0.5	2.5	1.9	3.9
Electric shock	2.0	2.0	1.0	1.9	2.1	1.5	2.3	2.9	0.9
Snake bite	1.0	0.0	1.0	0.8	0.4	1.4	0.6	0.4	0.9
Hanging/poisoning	0.0	0.0	0.0	0.5	0.5	0.4	0.1	0.2	0.0
Others	55	50	66	56.5	51.2	67.0	52.1	47.9	61.2
Total	100	100	100	100	100	100	100	100	100

Table I-2: Type of transport/vehicles by which the accident occurred (%)

Types of vehicle/	National				Rural		Urban		
transport	Both	Male	Female	Both	Male	Female	Both	Male	Female
Bus	5.9	6.4	4.9	5.8	6.1	5.4	6.1	7.3	3.4
Truck	8.1	7.7	9.0	8.3	7.9	9.2	7.6	7.2	8.5
Train	0.6	0.9	0.0	0.9	1.3	0.0	0.0	0.0	0.0
Motor car	3.3	3.7	2.4	3.3	3.7	2.4	3.3	3.6	2.5
Motor-cycle	11.5	14.7	5.0	10.3	13.1	5.0	14.9	19.4	5.2
Baby taxi	3.2	3.9	1.9	3.2	4.0	1.6	3.4	3.7	2.7
Bi-Cycle	4.4	4.6	4.0	4.6	4.8	4.0	3.9	3.9	4.0
Rickshaw/Van	7.9	7.2	9.2	7.1	6.6	8.0	10.1	8.7	13.2
Boat	16.1	12.7	23.1	15.9	12.4	22.6	17.0	13.5	24.6
Launch/steamer	0.9	0.9	0.9	0.7	0.8	0.5	1.6	1.3	2.2
Others	17.1	19.0	13.1	18.8	20.8	14.8	12.2	14.0	8.2
Not applicable	20.9	18.2	26.3	21.2	18.5	26.6	20.0	17.4	25.6
Total	100	100	100	100	100	100	100	100	100

Table M-1 Proportion (%) and prevalence of morbidity per 1000 population by sex and selected age groups.

Age group (In year)	Proportio	on of morbid	ity (%)	Prevalence of morbidity (Per 1000 population)			
	Total	Male	Female	Total	Male	Female	
Total	100	100	100	185.5	174.4	196.7	
<1 Year	2.5	2.8	2.2	258.6	274.1	242.8	
0-4	7.1	8.5	5.9	179.9	199.0	160.3	
5-14	19.3	22.6	16.4	110.1	118.7	101.2	
15-29	14.0	12.2	15.6	96.1	78.7	113.3	
30-49	31.2	26.4	35.3	234.3	193.9	271.8	
50-59	16.5	16.6	16.4	365.4	344.7	386.2	
60+	19.1	22.2	16.2	476.3	500.6	449.9	
<5	9.6	11.3	8.0	195.3	213.5	176.5	
5-14	8.6	9.9	7.4	72.2	74.0	70.2	
15-49(Female)			51.0			190.2	
15-59	19.3	41.1	36.3	59.5	121.2	117.0	

Table M-2: Proportion (%) and prevalence (Per 1000 population) of morbidity from communicable and non-communicable diseases by sex.

Selected diseases	Propor	rtional n	orbidity	Prevale	nce of m	orbidity
	Total	Male	Female	Total	Male	Female
1. Communicable diseases that occurred						
during last 90 days						
Chicken pox	0.8	1.0	0.6	1.4	1.7	1.1
Diarrhoea	3.5	3.7	3.4	6.6	6.4	6.7
Diphtheria	0.0	0.1	0.0	0.1	0.1	0.0
Influenza	1.2	1.3	1.0	2.2	2.3	2.0
Malaria	0.8	0.9	0.7	1.5	1.6	1.3
Measles	1.4	1.4	1.4	2.6	2.4	2.8
Mumps	0.2	0.2	0.3	0.5	0.4	0.5
Rabies	0.1	0.2	0.1	0.3	0.3	0.2
Tetanus	0.1	0.1	0.1	0.2	0.1	0.2
Tuberculosis	0.6	0.7	0.4	1.0	1.3	0.8
Typhoid	0.7	0.7	0.7	1.4	1.3	1.5
Whooping cough	1.4	1.8	1.0	2.5	3.1	2.0
2. Non-communicable diseases that occurred during last 90 days						
Arthritis	7.5	6.3	8.7	14.0	10.9	17.1
Asthma	2.1	2.4	1.8	3.9	4.2	3.6
Heart disease	1.8	2.0	1.7	0.9	0.7	1.0
Hypertension	6.7	6.0	7.3	12.4	10.5	14.4
Cancer	0.4	0.3	0.4	0.6	0.6	0.7
Diabetes	4.2	4.4	4.1	7.8	7.7	8.0
Tumour	0.6	0.3	0.8	1.0	0.6	1.5

Table M-4: Proportion and prevalence of infant (<1 year) morbidity per 1000 population from the selected diseases.

Selected Diseases	Proporti	onal morbi	dity (%)		lence of mor	
-	Total	Male	Female	Total	Male	Female
Acute respiratory Infection	27.8	27.5	28.1	71.8	75.4	68.2
Fever (FUO)	24.1	22.3	26.2	62.3	61.2	63.5
Diarrhoea	13.5	14.2	12.6	34.8	38.8	30.7
Measles	8.5	10.1	6.7	22.0	27.6	16.2
Dysentery	5.6	6.6	4.5	14.5	18.1	10.8
Skin Disease	3.6	3.7	3.5	9.3	10.2	8.4
Influenza	3.4	3.9	2.9	8.8	10.6	7.0
New born problem	2.6	1.8	3.5	6.7	5.1	8.4
Conjunctivitis	1.5	1.1	1.9	3.8	3.0	4.6
Whooping cough	1.4	1.4	1.4	3.7	3.9	3.5
Hepatitis-b	1.0	1.1	1.0	2.7	2.9	2.4
Kala-azar	0.8	0.0	1.7	2.1	0.0	4.2
Mumps	0.8	0.2	1.5	2.0	0.6	3.5
Ear infection	0.8	0.7	0.8	2.0	1.9	2.0
Malaria	0.7	1.3	0.0	1.7	3.5	0.0
Aphtha	0.4	0.5	0.3	1.1	1.4	0.8
Chicken pox	0.4	0.3	0.4	0.9	0.8	1.1
Kidney disease	0.1	0.0	0.2	0.3	0.0	0.6
Hernia	0.3	0.4	0.3	0.9	1.0	0.7
Cataract	0.3	0.1	0.4	0.7	0.3	1.0
Asthma	0.3	0.0	0.5	0.7	0.0	1.3
Tetanus	0.3	0.0	0.5	0.6	0.0	1.3
Epilepsy	0.2	0.4	0.0	0.5	1.0	0.0
Typhoid	0.2	0.4	0.0	0.5	1.1	0.0
Tumour	0.2	0.0	0.4	0.5	0.0	1.1
Autism	0.2	0.4	0.0	0.5	1.1	0.0
Diabetes	0.2	0.1	0.3	0.5	0.3	0.7
Urinary Tract Infection	0.2	0.3	0.0	0.4	0.9	0.0
Diphtheria	0.2	0.3	0.0	0.4	0.9	0.0
Peptic ulcer	0.2	0.3	0.0	0.4	0.9	0.0
Transmitted Diseases	0.2	0.0	0.3	0.4	0.0	0.8
Others	0.4	0.7	0.0	0.9	1.8	0.0
Total Morbidity	100.0	100.0	100.0	258.6	274.1	242.8

Table M-5: Proportion and prevalence of child  $(<2\ year)$  morbidity per 1000 population by sex from the selected diseases

Diseases	Proporti	onal mort	oidity		lence of moi	
	T-4-1	(%) Mala	El-		1000 popula	
E (EUO)	Total	Male	Female	Total	Male	Female
Fever (FUO)	26.0	25.7	26.4	66.5	71.3	61.6
Acute respiratory Infection	24.2	24.2	24.3	62.1	67.1	56.8
Diarrhoea	17.1	15.5	19.1	43.8	43.0	44.6
Dysentery	6.6	7.2	5.9	16.9	20.0	13.7
Measles	6.3	7.0	5.4	16.0	19.4	12.5
Influenza	3.3	3.8	2.6	8.3	10.6	6.0
Skin Disease	2.6	3.1	2.1	6.7	8.6	4.8
Whooping cough	1.9	2.0	1.9	4.9	5.5	4.3
New born problem	1.4	0.9	1.9	3.5	2.6	4.4
Conjunctivitis	1.2	0.7	1.9	3.2	2.1	4.3
Kala-azar	0.9	0.7	1.2	2.3	1.9	2.7
Chicken pox	0.8	0.7	1.0	2.1	2.0	2.3
Hepatitis-b	0.7	0.5	0.9	1.8	1.5	2.2
Ear infection	0.6	0.4	0.8	1.6	1.2	1.9
Mumps	0.6	0.4	0.8	1.5	1.2	1.8
Aphtha	0.6	0.7	0.4	1.5	2.0	1.0
Others	0.6	0.8	0.2	1.4	2.3	0.6
Malaria	0.6	1.0	0.0	1.4	2.8	0.0
Asthma	0.5	0.5	0.5	1.2	1.3	1.1
Epilepsy	0.3	0.4	0.2	0.8	1.1	0.4
Night blindness	0.3	0.4	0.2	0.7	1.1	0.4
Cataract	0.2	0.3	0.2	0.6	0.7	0.5
Tetanus	0.2	0.2	0.3	0.6	0.4	0.7
Goitre	0.2	0.2	0.2	0.5	0.5	0.6
Typhoid	0.2	0.4	0.0	0.5	1.0	0.0
Peptic ulcer	0.2	0.4	0.0	0.5	1.0	0.0
Heart disease	0.2	0.3	0.0	0.5	1.0	0.0
Tumour	0.2	0.0	0.4	0.5	0.0	1.0
Hernia	0.2	0.2	0.2	0.5	0.5	0.4
Diabetes	0.2	0.2	0.2	0.4	0.4	0.4
Kidney disease	0.2	0.2	0.1	0.4	0.5	0.3
Tuberculosis	0.1	0.0	0.2	0.3	0.0	0.6
Paralysis	0.1	0.0	0.2	0.3	0.0	0.6
Autism	0.1	0.2	0.0	0.3	0.5	0.0
Burn Injury	0.1	0.2	0.0	0.3	0.5	0.0
Abdominal pain	0.1	0.2	0.0	0.3	0.5	0.0
Cancer/Malignancy	0.1	0.0	0.2	0.2	0.0	0.5
Urinary Tract Infection	0.1	0.2	0.0	0.2	0.4	0.0
diphtheria	0.1	0.2	0.0	0.2	0.4	0.0
Transmitted Diseases	0.1	0.0	0.2	0.2	0.0	0.4
Leg Injury	0.1	0.0	0.2	0.2	0.0	0.4
Arthritis	0.0	0.1	0.0	0.1	0.2	0.0
Total		100.0	100.0	255.9	277.6	233.6

Table M-6: Proportion and prevalence of morbidity per 1000 under five (<5 year) children from the selected diseases by sex

Selected Diseases	Proportio	on of morb	idity (%)	Prevalence of morbidity (Per 1000 population)			
	Total	Male	Female	Total	Male	Female	
Fever (FUO)	30.3	30.2	30.3	59.1	64.5	53.5	
Acute respiratory Infection	20.4	20.4	20.4	39.8	43.5	36.0	
Diarrhoea	14.6	13.7	15.8	28.5	29.2	27.8	
Dysentery	7.2	7.0	7.4	14.0	14.9	13.0	
Measles	5.0	4.9	5.0	9.7	10.4	8.9	
Influenza	3.3	3.9	2.5	6.4	8.3	4.5	
Skin Disease	2.9	3.1	2.7	5.6	6.5	4.7	
Whooping cough	1.7	2.0	1.3	3.3	4.3	2.3	
Chicken pox	1.4	1.4	1.3	2.6	3.0	2.3	
Ear infection	1.3	1.3	1.2	2.5	2.8	2.1	
Conjunctivitis	1.2	1.1	1.5	2.4	2.2	2.6	
Hepatitis-b	1.0	1.0	0.9	1.9	2.2	1.6	
Kala-azar	0.9	0.5	1.3	1.7	1.2	2.3	
New born problem	0.7	0.5	0.9	1.3	1.0	1.7	
Typhoid	0.6	0.5	0.8	1.3	1.0	1.5	
Others	0.6	0.6	0.6	1.2	1.3	1.0	
Malaria	0.6	1.0	0.1	1.1	2.1	0.2	
Asthma	0.6	0.6	0.5	1.1	1.3	0.8	
Mumps	0.5	0.3	0.7	1.0	0.7	1.3	
Urinary Tract Infection	0.4	0.5	0.3	0.8	1.0	0.5	
Aphtha	0.3	0.4	0.3	0.7	0.8	0.6	
Leg Injury	0.3	0.4	0.3	0.7	0.8	0.5	
Tumour	0.3	0.2	0.4	0.6	0.4	0.8	
Burn Injury	0.3	0.3	0.3	0.6	0.6	0.6	
Rabies	0.3	0.5	0.1	0.6	1.0	0.2	
Arthritis	0.3	0.4	0.1	0.6	0.9	0.1	
Tetanus	0.3	0.2	0.3	0.5	0.5	0.6	
Night blindness	0.2	0.4	0.1	0.5	0.7	0.2	
Goitre	0.2	0.2	0.2	0.4	0.5	0.4	
Cataract	0.2	0.2	0.3	0.4	0.3	0.5	
Epilepsy	0.2	0.2	0.1	0.3	0.4	0.2	
Diabetes	0.2	0.2	0.1	0.3	0.5	0.1	
Diphtheria	0.2	0.3	0.0	0.3	0.6	0.0	
Hernia	0.1	0.2	0.1	0.3	0.4	0.1	
Peptic ulcer	0.1	0.2	0.1	0.3	0.4	0.2	
Kidney disease	0.1	0.1	0.2	0.3	0.2	0.3	
Paralysis	0.1	0.1	0.2	0.3	0.2	0.3	
Migraine	0.1	0.2	0.1	0.3	0.3	0.2	
Heart disease	0.1	0.2	0.0	0.2	0.4	0.0	
Tonsils	0.1	0.1	0.1	0.2	0.3	0.2	
Cancer/Malignancy	0.1	0.1	0.1	0.2	0.2	0.2	
Autism	0.1	0.2	0.0	0.2	0.4	0.0	

Selected Diseases	Proportio	n of morb	idity (%)	Prevalence of morbidity (Per 1000 population)			
-	Total	Male	Female	Total	Male	Female	
Allergy	0.1	0.1	0.1	0.2	0.2	0.2	
Abdominal pain	0.1	0.2	0.0	0.2	0.3	0.0	
Tuberculosis	0.1	0.0	0.2	0.2	0.0	0.3	
Arsenic	0.1	0.0	0.1	0.1	0.1	0.1	
Abscess	0.1	0.0	0.1	0.1	0.0	0.2	
Upper Back pain	0.1	0.0	0.1	0.1	0.0	0.2	
Anemia	0.0	0.1	0.0	0.1	0.2	0.0	
Hepatic/Liver Diseases	0.1	0.0	0.1	0.1	0.0	0.2	
Transmitted Diseases	0.0	0.0	0.1	0.1	0.0	0.2	
Haemorrhyds	0.0	0.1	0.0	0.1	0.2	0.0	
Meningitis	0.0	0.0	0.1	0.1	0.0	0.2	
Hurt in hand	0.0	0.0	0.1	0.1	0.0	0.2	
Oedema	0.0	0.1	0.0	0.1	0.2	0.0	
Bronchitis	0.0	0.0	0.1	0.1	0.0	0.1	
Nasal polyps	0.0	0.0	0.0	0.0	0.1	0.0	
Fracture leg	0.0	0.0	0.0	0.0	0.1	0.0	
Epistaxix	0.0	0.0	0.0	0.0	0.1	0.0	
Neck pain	0.0	0.0	0.0	0.0	0.0	0.1	
Total Morbidity	100.0	100.0	100.0	195.3	213.5	176.5	

Table M-7: Proportion and prevalence of morbidity per 1000 population of the adolescents (10-19 year) from the selected diseases by sex

Selected diseases	Proportio	nal mork	oidity (%)		Prevalence of morbidity (Per 1000 Population)			
	Total	Male	Female	Total	Male	Female		
Fever (FUO)	37.4	36.9	38.0	27.0	27.3	26.7		
Dysentery	6.8	5.7	8.1	4.9	4.2	5.7		
Skin disease	5.5	5.8	5.0	4.0	4.3	3.5		
Hepatitis-b	3.5	4.6	2.2	2.5	3.4	1.5		
Diarrhoea	2.9	3.2	2.5	2.1	2.4	1.8		
Conjunctivitis	2.8	2.8	3.0	2.1	2.0	2.1		
Arthritis	2.3	2.5	2.0	1.7	1.9	1.4		
Malaria	2.1	2.1	2.1	1.5	1.6	1.4		
Asthma	2.1	1.9	2.3	1.5	1.4	1.6		
Peptic ulcer	2.0	1.9	2.1	1.4	1.4	1.5		
Chicken pox	2.0	2.3	1.5	1.4	1.7	1.1		
Measles	1.8	1.4	2.2	1.3	1.0	1.5		
Influenza	1.5	1.3	1.8	1.1	0.9	1.3		
Pregnant	1.4	-	3.1	1.0	-	2.2		
Others	1.4	1.7	1.0	1.0	1.3	0.7		
Whooping cough	1.3	1.5	1.2	1.0	1.1	0.8		
Typhoid	1.3	0.9	1.8	1.0	0.7	1.3		
Migraine	1.3	1.1	1.6	0.9	0.8	1.1		
Kala-azar	1.3	1.3	1.3	0.9	1.0	0.9		
Hurt in hand	1.2	2.0	0.4	0.9	1.5	0.3		
Ear infection	1.2	1.5	0.9	0.9	1.1	0.7		
Abdominal pain	1.2	0.9	1.5	0.8	0.7	1.0		
Epilepsy	1.1	1.0	1.1	0.8	0.8	0.8		
Acute respiratory infection(ARI)	1.0	1.2	0.8	0.7	0.9	0.6		
Appendicitis	0.9	0.5	1.3	0.6	0.3	0.9		
Goitre	0.8	0.9	0.7	0.6	0.7	0.5		
Urinary tract infection	0.8	0.6	1.0	0.6	0.4	0.7		
Leg injury	0.8	1.0	0.5	0.6	0.8	0.4		
Tuberculosis	0.7	0.5	0.9	0.5	0.4	0.6		
Night blindness	0.6	0.7	0.5	0.4	0.5	0.4		
Tumour	0.6	0.5	0.6	0.4	0.4	0.4		
Mumps	0.5	0.8	0.3	0.4	0.6	0.2		
Transmitted Diseases	0.5	0.8	0.2	0.4	0.6	0.1		
Heart disease	0.5	0.5	0.6	0.4	0.3	0.4		
Cataract	0.5	0.5	0.4	0.4	0.4	0.3		
Tooth Ache	0.5	0.5	0.5	0.3	0.3	0.4		
Gynecology problem	0.5	-	1.0	0.3	-	0.7		
Tonsils	0.5	0.5	0.5	0.3	0.4	0.3		
Sore throat	0.5	0.3	0.6	0.3	0.2	0.4		
Rabies	0.4	0.5	0.3	0.3	0.3	0.2		
Nasal Polyps	0.4	0.6	0.2	0.3	0.4	0.1		
Allergy	0.3	0.6	0.0	0.2	0.5	0.0		

Selected diseases		Proportio	nal morb	oidity (%)		ce of morl 0 Populat	oidity (Per tion)
	_	Total	Male	Female	Total	Male	Female
Mental Disorder		0.3	0.3	0.3	0.2	0.3	0.2
Diabetes		0.3	0.3	0.2	0.2	0.2	0.2
Cancer		0.3	0.6	0.0	0.2	0.4	0.0
Burn injury		0.3	0.4	0.1	0.2	0.3	0.1
Aphtha		0.3	0.4	0.1	0.2	0.3	0.1
Epistaxix		0.2	0.3	0.1	0.2	0.3	0.1
High blood pressure		0.2	0.2	0.2	0.2	0.2	0.2
Anemia		0.2	0.3	0.1	0.1	0.2	0.1
Low blood pressure		0.1	0.1	0.2	0.1	0.1	0.1
Oedema		0.1	0.0	0.3	0.1	0.0	0.2
Kidney disease		0.1	0.1	0.2	0.1	0.1	0.1
Paralysis		0.1	0.2	0.0	0.1	0.2	0.0
Haemorrhyds		0.1	0.2	0.0	0.1	0.2	0.0
Albinism		0.1	0.1	0.1	0.1	0.1	0.1
Thalassemia		0.1	0.2	0.0	0.1	0.1	0.0
Hernia		0.1	0.1	0.0	0.1	0.1	0.0
Diphtheria		0.1	0.1	0.0	0.0	0.1	0.0
Osteolysis		0.1	0.1	0.0	0.0	0.1	0.0
Autism		0.1	0.0	0.1	0.0	0.0	0.1
Oesophagitis		0.1	0.0	0.1	0.0	0.0	0.1
Arsenic		0.1	0.1	0.0	0.0	0.1	0.0
Tetanus		0.0	0.0	0.1	0.0	0.0	0.1
Hormonal problem		0.0	0.1	0.0	0.0	0.1	0.0
Fracture leg		0.0	0.1	0.0	0.0	0.1	0.0
Hepatic/ Liver diseases		0.1	0.1	0.0	0.0	0.1	0.0
Upper back pain		0.0	0.0	0.1	0.0	0.0	0.1
Pneumonia		0.0	0.0	0.0	0.0	0.0	0.0
	Total	100.0	100.0	100.0	72.2	74.0	70.2

Table M-8: Proportion and prevalence of morbidity from the selected diseases of women of reproductive age (15-49 year)

Selected diseases	Proportion	nal morb	idity (%)		Prevalence of morbidity (Per 1000 Population)			
	National	Rural	Urban	National	Rural	Urban		
Fever (FUO)	29.6	29.2	30.8	56.4	54.5	61.9		
Peptic ulcer	9.2	9.7	7.6	17.5	18.2	15.3		
High blood pressure	6.9	6.0	9.2	13.1	11.3	18.5		
Arthritis	6.7	6.9	6.0	12.7	13.0	12.1		
Dysentery	3.3	3.8	2.1	6.3	7.0	4.2		
Pregnancy problems	3.2	3.3	3.0	6.2	6.2	6.1		
Diabetes	3.1	2.3	5.4	5.9	4.3	10.8		
Diarrhoea	2.4	2.7	1.8	4.6	5.0	3.6		
Conjunctivitis	2.2	2.3	1.9	4.2	4.4	3.9		
Heart disease	1.9	1.9	1.9	3.6	3.5	3.7		
Transmitted diseases	1.8	2.0	1.4	3.5	3.7	2.8		
Skin disease	1.7	1.6	2.0	3.3	3.0	4.0		
Migraine	1.7	1.8	1.5	3.2	3.3	3.0		
Asthma	1.6	1.4	2.0	3.0	2.6	3.9		
Urinary tract infection	1.5	1.5	1.5	2.9	2.9	3.0		
Hepatitis-b	1.4	1.5	1.1	2.6	2.8	2.2		
Gynecology problem	1.3	1.3	1.3	2.4	2.3	2.6		
Others	1.1	1.2	1.1	2.2	2.2	2.1		
Measles	1.0	1.0	1.2	2.0	1.9	2.3		
Tumour	1.0	1.1	0.9	2.0	2.0	1.9		
Abdominal pain	1.0	1.0	1.0	1.9	1.8	2.1		
Cataract	0.9	0.8	1.1	1.7	1.5	2.3		
Ear infection	0.9	1.0	0.7	1.7	1.8	1.3		
Influenza	0.9	0.8	1.0	1.7	1.6	1.9		
Malaria	0.8	0.9	0.4	1.5	1.8	0.9		
Typhoid	0.8	0.7	1.1	1.5	1.3	2.2		
Kidney disease	0.7	0.7	0.8	1.4	1.3	1.6		
Back pain	0.7	0.7	0.6	1.3	1.3	1.3		
Kala-azar	0.6	0.7	0.4	1.2	1.3	0.8		
Leg injury	0.6	0.5	0.8	1.2	1.0	1.7		
Low blood pressure	0.6	0.7	0.4	1.1	1.2	0.9		
Whooping cough	0.6	0.5	0.8	1.1	0.9	1.6		
Goitre	0.6	0.6	0.4	1.1	1.2	0.7		
Tooth ache	0.5	0.5	0.4	0.9	0.9	0.9		
Osteolysis	0.4	0.4	0.4	0.8	0.8	0.9		
Chicken pox	0.4	0.4	0.4	0.8	0.8	0.7		
Cancer	0.4	0.4	0.4	0.8	0.8	0.7		
Appendicitis	0.4	0.5	0.1	0.8	1.0	0.2		
Acute respiratory infection (ARI)	0.4	0.5	0.3	0.8	0.8	0.6		
Tuberculosis	0.4	0.4	0.3	0.7	0.8	0.6		
Epilepsy	0.4	0.5	0.1	0.7	0.9	0.2		
Hurt in hand	0.3	0.3	0.3	0.6	0.6	0.7		

Selected diseases	Proportion	nal morb	idity (%)	Prevalence 1000	of morbi Populatio	• .
	National	Rural	Urban	National	Rural	Urban
Anemia	0.3	0.3	0.3	0.6	0.6	0.5
Night blindness	0.3	0.3	0.1	0.5	0.6	0.2
Gallbladder stone	0.2	0.3	0.2	0.5	0.5	0.4
Mental disorder	0.2	0.2	0.4	0.4	0.3	0.8
Sore throat	0.2	0.2	0.3	0.4	0.4	0.6
Mumps	0.2	0.2	0.2	0.4	0.4	0.4
Haemorrhyds	0.2	0.2	0.2	0.4	0.4	0.4
Nasal Polyps	0.2	0.2	0.2	0.4	0.4	0.4
Tonsils	0.2	0.2	0.2	0.4	0.4	0.4
Oedema	0.2	0.2	0.2	0.4	0.4	0.3
Caesarean baby	0.2	0.2	0.1	0.3	0.3	0.3
Allergy	0.2	0.2	0.2	0.3	0.3	0.3
Paralysis	0.2	0.2	0.2	0.3	0.3	0.3
Arsenic	0.1	0.1	0.2	0.3	0.2	0.3
Tetanus	0.1	0.1	0.1	0.2	0.2	0.3
Neck pain	0.1	0.1	0.3	0.2	0.1	0.5
Epistaxix	0.1	0.1	0.0	0.2	0.3	0.0
Upper back pain	0.1	0.1	0.2	0.2	0.1	0.4
Aphtha	0.1	0.1	0.1	0.2	0.2	0.2
Stoke	0.1	0.1	0.1	0.2	0.2	0.1
Burn injury	0.1	0.1	0.1	0.2	0.1	0.3
Hepatic/Liver diseases	0.1	0.1	0.1	0.2	0.2	0.1
Rabies	0.1	0.0	0.2	0.2	0.0	0.5
Post operative infection	0.1	0.1	0.1	0.1	0.1	0.2
Fracture leg	0.1	0.1	0.1	0.1	0.1	0.2
Oesophagitis	0.0	0.1	0.0	0.1	0.1	0.0
Hernia	0.0	0.0	0.1	0.1	0.0	0.1
Pneumonia	0.0	0.0	0.0	0.1	0.1	0.1
Hormonal Problem	0.0	0.0	0.0	0.1	0.1	0.0
Autism	0.0	0.0	0.0	0.0	0.1	0.0
Abscess	0.0	0.0	0.0	0.0	0.1	0.0
Diphtheria	0.0	0.0	0.0	0.0	0.1	0.0
Total Morbidity	100.0	100.0	100.0	190.2	186.7	201.0

Table M-9: Proportion (%) and prevalence of morbidity of per 1000 working age (15-64 year) population from the selected diseases by sex

Diseases	Proport	ional mor	bidity		Prevalence of morbidity (Per 1000 population)			
	Total	Male	Female	Both	Male	Female		
Fever (FUO)	28.0	28.8	27.4	55.9	50.3	61.3		
Peptic Ulcer	9.2	9.6	9.2	18.7	16.8	20.7		
Arthritis	7.9	6.8	8.8	15.8	11.8	19.7		
High blood Pressure	7.9	7.0	8.6	15.8	12.2	19.2		
Diabetes	4.8	5.2	4.5	9.5	9.1	10.0		
Dysentery	4.0	5.2	3.1	8.0	9.1	6.8		
Heart disease	2.2	2.5	2.0	4.4	4.3	4.6		
Diarrhoea	2.2	2.2	2.2	4.4	3.8	5.0		
Conjunctivitis	2.1	1.8	2.3	4.2	3.1	5.2		
Asthma	2.1	2.4	1.8	4.1	4.2	4.0		
Skin Disease	2.0	2.4	1.7	3.9	4.1	3.8		
Hepatitis-b	1.7	2.3	1.3	3.5	4.1	2.9		
Cataract	1.3	1.4	1.3	2.7	2.4	3.0		
Pregnant	1.3	0.0	2.3	2.6	0.0	5.2		
Migraine	1.3	1.0	1.5	2.5	1.7	3.3		
Transmitted Diseases	1.1	0.6	1.6	2.3	1.0	3.5		
Whooping cough	1.1	1.6	0.8	2.2	2.7	1.7		
Others	1.1	1.3	1.0	2.2	2.2	2.2		
Urinary Tract Infection	1.1	0.8	1.3	2.2	1.3	3.0		
Measles	0.8	0.7	0.9	1.7	1.3	2.0		
Influenza	0.8	0.9	0.7	1.7	1.6	1.7		
Back pain	0.8	0.9	0.7	1.5	1.6	1.5		
Leg Injury	0.7	0.9	0.6	1.5	1.6	1.4		
Ear infection	0.7	0.7	0.8	1.5	1.1	1.8		
Malaria	0.7	0.8	0.7	1.4	1.4	1.5		
Typhoid	0.7	0.7	0.7	1.4	1.3	1.6		
Tumour	0.7	0.4	0.9	1.3	0.7	2.0		
Abdominal pain	0.6	0.5	0.8	1.3	0.8	1.7		
Tuberculosis	0.6	0.9	0.4	1.2	1.6	0.9		
Kala-azar	0.6	0.7	0.5	1.2	1.2	1.2		
Kidney disease	0.6	0.5	0.6	1.2	0.9	1.4		
Gynecology problem	0.6	0.0	1.0	1.1	0.0	2.2		
Low Blood Pressure	0.5	0.4	0.6	1.1	0.7	1.4		
Hurt in hand	0.5	0.8	0.4	1.1	1.3	0.8		
Goitre	0.5	0.5	0.5	1.0	0.9	1.1		
Night blindness	0.5	0.5	0.4	0.9	0.9	1.0		
Tooth Ache	0.5	0.3	0.6	0.9	0.5	1.3		
Chicken pox	0.5	0.7	0.3	0.9	1.1	0.6		
Epilepsy	0.4	0.5	0.3	0.8	0.8	0.8		
Cancer/Malignancy	0.4	0.3	0.4	0.8	0.6	0.9		
Acute respiratory Infection	0.4	0.4	0.3	0.7	0.7	0.7		
Haemorrhyds	0.4	0.6	0.2	0.7	1.0	0.5		

Diseases	Proport	ional mor (%)	bidity		nce of morl 00 populat	
	Total	Male	Female	Both	Male	Female
Paralysis	0.3	0.4	0.3	0.7	0.8	0.6
Osteolysis	0.3	0.2	0.4	0.6	0.3	0.9
Appendicitis	0.3	0.2	0.4	0.6	0.4	0.8
Nasal polyps	0.2	0.3	0.2	0.4	0.5	0.3
Burn Injury	0.2	0.4	0.1	0.4	0.6	0.2
Mumps	0.2	0.2	0.2	0.4	0.3	0.4
Allergy	0.2	0.2	0.2	0.4	0.3	0.4
Arsenic	0.2	0.2	0.2	0.3	0.3	0.4
Mental Disorder	0.2	0.2	0.2	0.3	0.3	0.4
Anemia	0.2	0.0	0.3	0.3	0.1	0.6
Gallbladder stone	0.2	0.1	0.2	0.3	0.2	0.5
Tonsils	0.1	0.1	0.2	0.3	0.2	0.3
Hernia	0.1	0.3	0.0	0.3	0.5	0.1
Oedema	0.1	0.1	0.2	0.3	0.1	0.4
Sore throat	0.1	0.1	0.2	0.2	0.1	0.3
Aphtha	0.1	0.1	0.1	0.2	0.2	0.2
Hepatic/Liver Diseases	0.1	0.1	0.1	0.2	0.2	0.2
Abscess	0.1	0.2	0.0	0.2	0.3	0.0
Epistaxix	0.1	0.1	0.1	0.2	0.2	0.2
Rabies	0.1	0.1	0.1	0.2	0.2	0.2
Stoke	0.1	0.1	0.1	0.2	0.1	0.2
Neck pain	0.1	0.1	0.1	0.2	0.2	0.2
Tetanus	0.1	0.1	0.1	0.2	0.1	0.2
Fracture leg	0.1	0.1	0.1	0.2	0.2	0.1
Caesarean Baby	0.1	0.0	0.1	0.1	0.0	0.3
Upper Back pain	0.1	0.0	0.1	0.1	0.1	0.2
Post operative infection	0.1	0.0	0.1	0.1	0.1	0.1
Pneumonia	0.0	0.1	0.0	0.1	0.1	0.1
Geriatric	0.0	0.0	0.1	0.1	0.0	0.1
diphtheria	0.0	0.0	0.0	0.1	0.1	0.0
Oesophagitis	0.0	0.0	0.0	0.0	0.0	0.1
Albinism	0.0	0.0	0.0	0.0	0.0	0.1
Hormonal problem	0.0	0.0	0.0	0.0	0.0	0.0
Bronchitis	0.0	0.0	0.0	0.0	0.0	0.0
Thalassemia	0.0	0.0	0.0	0.0	0.0	0.0
Autism	0.0	0.0	0.0	0.0	0.0	0.0
Shock by electricity	0.0	0.0	0.0	0.0	0.0	0.0
Total Morbidity	100.0	100.0	100.0	199.7	174.8	224.0

Table M-10: Proportion (%) and prevalence of morbidity per 1000 population of the elderly persons (64+year) from the selected diseases by sex

Selected Diseases	Proportional morbidity (%)				nce of mork 00 populat	•
	Total	Male	Female	Total	Male	Female
Fever (FUO)	21.0	22.9	18.8	106.4	122.6	89.1
Arthritis	15.2	11.9	19.1	76.9	63.7	91.0
High blood Pressure	10.3	10.8	9.7	52.1	57.9	46.0
Diabetes	7.2	7.3	7.1	36.4	39.0	33.5
Peptic Ulcer	6.5	6.1	7.0	33.1	32.8	33.4
Cataract	6.1	5.1	7.4	31.1	27.4	35.0
Conjunctivitis	3.8	3.0	4.9	19.4	16.0	23.0
Asthma	3.7	4.6	2.7	18.9	24.7	12.8
Dysentery	3.0	2.8	3.4	15.4	14.7	16.1
Whooping cough	2.0	2.4	1.5	10.2	13.0	7.2
Heart disease	1.9	2.4	1.3	9.7	12.9	6.3
Diarrhoea	1.8	2.1	1.5	9.2	11.2	7.1
Night blindness	1.7	1.7	1.6	8.6	9.3	7.8
Urinary Tract Infection	1.2	1.7	0.7	6.2	9.0	3.3
Paralysis	1.2	1.3	1.1	6.0	6.8	5.1
Skin Disease	1.1	1.0	1.3	5.8	5.6	6.0
Tuberculosis	0.7	1.0	0.3	3.4	5.5	1.2
Back pain	0.7	0.7	0.6	3.3	3.9	2.7
Influenza	0.6	0.6	0.6	3.1	3.4	2.9
Others	0.6	0.6	0.5	2.8	3.4	2.2
Leg Injury	0.6	0.6	0.5	2.8	3.0	2.5
Low Blood Pressure	0.5	0.7	0.3	2.6	3.6	1.5
Cancer/Malignancy	0.5	0.5	0.4	2.3	2.6	2.0
Typhoid	0.4	0.6	0.3	2.2	2.9	1.5
Ear infection	0.4	0.5	0.4	2.2	2.6	1.8
Kala-azar	0.4	0.3	0.6	2.1	1.4	2.8
Geriatric	0.4	0.2	0.7	2.0	0.9	3.2
Stoke	0.4	0.5	0.3	2.0	2.5	1.3
Haemorrhyds	0.4	0.6	0.2	1.9	3.0	0.8
Acute respiratory Infection	0.4	0.4	0.4	1.8	2.0	1.7
Measles	0.4	0.3	0.4	1.8	1.7	1.9
Transmitted Diseases	0.3	0.2	0.5	1.7	1.2	2.3
Hepatitis-b	0.3	0.3	0.3	1.6	1.7	1.5
Kidney disease	0.3	0.3	0.3	1.6	1.6	1.6
Tumour	0.3	0.3	0.4	1.6	1.4	1.8
Abdominal pain	0.3	0.4	0.2	1.4	2.1	0.7
Migraine	0.3	0.2	0.3	1.4	1.3	1.4

Selected Diseases	Proport	ional mor (%)	bidity		nce of mork 00 populat	•
	Total	Male	Female	Total	Male	Female
Malaria	0.3	0.5	0.0	1.3	2.5	0.0
Goitre	0.2	0.1	0.3	1.1	0.6	1.6
Hernia	0.2	0.3	0.0	0.9	1.8	0.0
Arsenic	0.2	0.2	0.2	0.9	1.1	0.7
Osteolysis	0.2	0.1	0.3	0.9	0.4	1.4
Epilepsy	0.2	0.2	0.1	0.8	1.3	0.4
Gallbladder stone	0.2	0.2	0.1	0.8	1.0	0.6
Hurt in hand	0.2	0.1	0.2	0.8	0.8	0.8
Tooth Ache	0.2	0.2	0.2	0.8	0.9	0.7
Tetanus	0.2	0.2	0.1	0.8	0.8	0.7
Allergy	0.1	0.1	0.1	0.6	0.6	0.6
Sore throat	0.1	0.0	0.2	0.5	0.0	1.1
Chicken pox	0.1	0.1	0.1	0.5	0.6	0.3
Pneumonia	0.1	0.2	0.0	0.4	0.8	0.0
Burn Injury	0.1	0.1	0.1	0.4	0.5	0.3
Oedema	0.1	0.1	0.0	0.4	0.7	0.0
Rabies	0.1	0.0	0.1	0.3	0.1	0.6
Anemia	0.1	0.0	0.1	0.3	0.0	0.7
Epistaxix	0.1	0.1	0.1	0.3	0.4	0.3
Nasal polyps	0.1	0.1	0.1	0.3	0.4	0.3
Appendicitis	0.1	0.1	0.0	0.3	0.6	0.0
Aphtha	0.1	0.0	0.1	0.3	0.1	0.4
Tonsils	0.1	0.1	0.0	0.2	0.5	0.0
Fracture leg	0.0	0.0	0.1	0.2	0.0	0.4
Mental Disorder	0.0	0.1	0.0	0.2	0.4	0.0
Hepatic/Liver Diseases	0.0	0.0	0.1	0.2	0.0	0.4
Gynecology problem	0.0	0.0	0.1	0.2	0.0	0.4
Bronchitis	0.0	0.1	0.0	0.2	0.3	0.0
Pregnant	0.0	_	0.0	0.1	-	0.2
Mumps	0.0	0.0	0.0	0.1	0.0	0.2
Post operative infection	0.0	0.0	0.0	0.1	0.1	0.0
Abscess	0.0	0.0	0.0	0.1	0.0	0.1
Total Morbidity	100.0	100.0	100.0	505.9	534.8	475.1

Table V-1: Percentage of children age 12-23 months fully immunized by sex, residence and division

Division	]	Nationa	1		Rural			Urban	
	Total	Male	Female	Tota	Male	Female	Total	Male	Female
Barisal	62	62	62	59	58	59	80	78	83
Chittagong	77	76	78	77	75	79	76	77	75
Dhaka	65	66	65	65	65	63	67	66	68
Khulna	74	78	69	75	80	70	64	66	63
Rajshahi	81	83	78	80	82	78	86	95	79
Rangpur	69	71	66	67	70	63	81	74	95
Sylhet	61	63	59	60	62	59	63	71	56
Total	70	71	69	70	71	68	72	72	72

Table V-2: Percentage of children age 12-23 months who received specific vaccines by division

Vaccines	Barisal	Chittagong	Dhaka	Khulna	Rajshahi	Rangpur	Sylhet	Total
BCG	90	90	86	92	95	90	76	88
Penta-1	90	94	89	94	94	90	77	90
Penta-2	88	93	85	90	95	86	73	88
Penta-3	80	90	83	88	92	80	71	85
OPV-1	80	88	82	89	91	83	71	84
OPV-2	75	87	80	89	89	82	69	83
OPV-3	70	85	78	87	88	79	69	80
Measles	73	86	78	80	87	77	65	79
All vaccines	62	77	65	74	81	69	61	70

Table V-3: Percentage of children age 12-23 months who received specific vaccines by sex and division.

Vaccines	Ba	risal	Chit	tagong	DI	naka	Kh	ulna	Raj	shahi	Rai	ngpur	Sy	lhet
	Male	Female												
BCG	91	89	88	92	87	84	94	90	96	93	92	86	78	75
Penta-1	89	90	94	95	90	89	96	91	96	92	92	86	79	76
Penta-2	86	90	92	93	85	85	94	87	97	92	87	85	76	70
Penta-3	82	78	90	90	83	82	92	85	94	90	82	78	75	68
OPV-1	79	81	87	90	82	82	94	84	93	88	84	81	75	68
OPV-2	73	77	86	87	81	80	94	84	92	86	83	80	72	66
OPV-3	71	69	85	84	78	77	92	82	90	85	81	75	73	65
Measles	77	69	85	86	78	78	87	73	87	87	79	74	69	62
All vaccines	62	62	76	78	66	65	78	69	83	78	71	66	63	59

#### APPENDIX-B: COMPARISONS WITH OTHER SOURCES

Table C-1: Female population 15 years and above by marital status and age group

(In percentage) **Marital Status** Age group Source (In year) **Never married Currently married** Widowed **Divorced** 73.1 26.0 0.3 0.6 HMSS-2012 15-19 77.1 SVRS-2010 28.0 0.5 0.4 54.3 44.7 0.0 BDHS-2011 0.6 22.7 75.4 0.5 1.2 HMSS-2012 20-24 25.4 76.2 8.0 1.0 SVRS-2010 13.4 83.7 0.4 1.3 BDHS-2011 5.6 91.7 1.0 1.3 HMSS-2012 25-29 7.9 91.6 1.1 1.0 SVRS-2010 3.0 93.2 1.3 1.0 BDHS-2011 1.2 HMSS-2012 1.8 94.8 1.8 30-34 2.7 94.7 2.0 1.0 SVRS-2010 1.2 94.3 1.8 1.0 BDHS-2011 0.8 94.4 3.3 1.2 HMSS-2012 35-39 93.4 SVRS-2010 1.4 3.3 1.2 91.9 BDHS-2011 0.8 4.6 1.4 0.5 90.5 7.0 1.4 HMSS-2012 40-44 1.2 89.6 7.2 1.4 SVRS-2010 7.2 0.3 89.8 0.8 BDHS-2011 0.5 85.2 12.3 1.2 HMSS-2012 45-49 1.0 82.1 13.9 1.6 SVRS-2010 0.2 13.3 1.5 BDHS-2011 82.3

Table C-2: Comparison of prevalence of morbidity per 1000 population between HMSS/2012 and HDS/2000

Selected diseases		Prevalenc	e of morbidity	
	Total	Male	Female	Source
Arthritis –	14.0	10.9	17.1	HMSS-2012
Arumus –	4.7	4.2	5.3	HDS-2000
Dontio Illoon	11.5	10.4	12.6	HMSS-2012
Peptic Ulcer –	15.2	14.4	16.1	HDS-2000
Diabetes -	7.8	7.7	8.0	HMSS-2012
Diabetes –	2.7	3.3	2.0	HDS-2000
Diarrhoea -	6.6	6.4	6.7	HMSS-2012
Diamioea	9.4	9.4	9.4	HDS-2000
Tuberculosis -	1.0	1.3	0.8	HMSS-2012
Tuberculosis —	0.9	1.2	0.6	HDS-2000
Goitre -	0.8	0.8	0.4	HMSS-2012
Goine	0.2	0.0	0.4	HDS-2000
Asthma -	3.9	4.2	3.6	HMSS-2012
Asuma	5.1	5.1	5.2	HDS-2000
Influenza –	2.2	2.3	2.0	HMSS-2012
Illitueliza –	3.4	2.9	3.9	HDS-2000
Malaria –	1.5	1.6	1.3	HMSS-2012
Maiana –	2.8	2.7	2.9	HDS-2000
Typhoid	1.4	1.3	1.5	HMSS-2012
Typhoid –	2.1	2.3	2.0	HDS-2000
Pneumonia –	0.1	0.1	0.0	HMSS-2012
r neumonia –	2.4	2.6	2.3	HDS-2000

Table C-3: Prevalence of morbidity per 1000 children (<2 year) from selected diseases

		Prevalenc	e morbidity	
Selected diseases	Total	Male	Female	Source
	43.8	43.0	44.6	HMSS-2012
Diarrhoea	9.4	9.5	9.4	HDS-2000
	16.0	19.4	12.5	HMSS-2012
Measles	1.3	1.3	1.4	HDS-2000
	0.5	0.5	0.6	HMSS-2012
Goitre	0.2	0.0	0.4	HDS-2000
	4.9	5.5	4.3	HMSS-2012
Whooping cough	0.3	0.4	0.3	HDS-2000
	2.3	1.9	2.7	HMSS-2012
Kala-azar	0.3	0.3	0.2	HDS-2000
	1.4	2.8	0.0	HMSS-2012
Malaria	2.8	2.7	2.9	HDS-2000
	0.6	0.4	0.7	HMSS-2012
Tetanus	0.1	0.1	0.0	HDS-2000
	0.2	0.4	0.0	HMSS-2012
Diphtheria	0.0	0.0	0.0	HDS-2000

Table C-4: Mothers received TT during last pregnancy

(In percentage)

Use of TT at national level	HDS-2000	HMSS-2012
TT Received	69.9	58.2
TT not received	30.1	41.8

Table C-5: Assistance by doctor during delivery

(In percentage)

Residence	HMSS-2012	MICS-2009	BDHS-2011
National	21.2	20.5	22.2
Rural	18.1	15.9	17.5
Urban	32.8	39.4	38.4

Table C-6: Knowledge about mode transmission of HIV/AIDS of population aged 15-24 years

(In percentage)

Knowledge transmission		HIV/AIDS	HMS	S-2012	BDH	S-2011
-			Male	Female	Male	Female
Using used n	eedles/sy	ringes*	47.7	46.9	78.3	71.5
Unsafe blood	l transfus	sions	28.4	27.9	81.0	71.2

Note: \* BDHS- unsterilized

Table C-7: Antenatal care received by t	the pregnant women	(In percentage)
Number of ANC visits	HMSS-2012	BDHS-2011
None	21.0	32.1
1	11.9	15.3
_2	24.8	14.4
3	20.1	12.5
4+	22.3	25.5
Don't Know/ missing	-	0.1
Median number of visits	-	3.3
Total	100.0	100.0

#### APPENDIX-C: TECHNICAL COMMITTEE

#### **Technical Committee of the suvey**

01	Prof. Barkat-e-Khuda, Economics Department, University of Dhaka	Chairperson
02	Director General/ Deputy Director General, BBS	Member
03	Joint Secretary, Statistics and Informatics Division	Member
04	Representative, Chairman, Applied Statistics Department, University of	Member
	Dhaka	
05	Representative, Ministry of Health and Family Welfare (Not below DS)	Member
06	Director (Research), NIPORT	Member
07	Director (MIS), DG Health, Dhaka	Member
08	Representative, Department of Gender Studies, University of Dhaka	Member
09	Director (Demography), icddr,b	Member
10	Project Director, SVRS Project, BBS	Member
11	Dr. Nurul Alam, Scientist, icddr,b	Member
12	Ms. Tahmina Begum, consultant, World Bank	Member
13	Dr. M Amir Hossain, Professor, ISRT	Member
15	Abdur Razzaque, Scientist, icddr,b	Member
14	Director, Demography and Health Wing, BBS	Member Secretary

The Terms and Conditions of the Technical Committee are as follows:

- (1) To review the technical activities and progress of the wing and guide for undertaking future survey activities;
- (2) To identify the data gaps in the areas of population, health and demography and suggest ways and means for the improvement of data collection, compilation and dissemination system;
- (3) To provide technical backstopping for conducting health survey including HIV/AIDS and health expenditure, nutrition, demography and population composition related surveys between the census years to meet the annual data needs;
- (4) To suggest techniques for improvement of migration and urbanization related data and development of MNSDS (Minimum National and Social Data Set) and indicators of MDGs;
- (5) To suggest suitable studies/investigations in the field of fertility, mortality, morbidity, nutrition to complement the census results;
- (6) To undertake critical studies of different approaches to population projection and recommend method suitable for the country;
- (7) To recommend improvement of urbanization, migration statistics and other social statistics;
- (8) Any other tasks assigned by the NSC from time to time.

## APPENDIX-D: WORKING COMMITTEE

01	Director, Demography and Health Wing, BBS	Chairperson
02	Director, Computer Wing, BBS	Member
03	Director, Industry & Labour Wing, BBS	Member
04	Director ,Census Wing, BBS	Member
05	Project Director, MICS Project, BBS	Member
06	Project Director , SVRS Project, BBS	Member
07	Project Director , Nutritional Surveillance Project, BBS	Member
08	Focal Point Officer, Gender Statistics, BBS	Member
09	Mr. Mohammad Shaheen, DD, BBS	Member
10	Mr. Jatan Kumar Saha, System Analyst, BBS	Member
11	Consultant, Health & Morbidity Status Survey, BBS	Member
12	Focal Point Officer, Health & Morbidity Status Survey, BBS	Member Secretary

## **Terms and Conditions:**

- (1) To improve the draft tabulation plan prepared by consultant of the project
- (2) Any other issues for the improvement of the survey report

#### APPENDIX-E: PERSONS INVOLVED

- 01) Mr. Md. Abul Kalam Azad, Local Consultant
- 02) Mr. Md. Tahidul Islam, Deputy Director, Demography and Health Wing
- 03) Mr. Md. Karamat Ali, Senior Programmer, Computer Wing
- 04) Mrs. Jahan Afroza Begum, Statistical Officer, Demography and Health Wing
- 05) Md. Alamgir Hossen, Statistical Officer, Census Wing
- 06) Mr. Md. Feroj-Evna-Yusuf, Statistical Officer, Demography and Health Wing
- 07) Mrs. Syeda Marufa Saki, Statistical Officer, Demography and Health Wing
- 08) Mr. Monirul Islam, Assistant Statistical Officer, Demography and Health Wing
- 09) Mr. Md. Lutfor Rahman, Assistant Statistical Officer, Demography and Health Wing
- 10) Mr. S. M. Anwar Husain, Statistical Investigator, MSCW Project
- 11) Mr. Md. Emdadul Haque, Deputy Director and Focal Point Officer

### **APPENDIX-F: QUESTIONNAIRE**

Government of the peoples Republic of Bangladesh Demography and Health Wing Bangladesh Bureau of Statistics Statistics Division E-27/A Agargaon, Dhaka-1207

(Confidential)

Collected data will be used only for research and planning

### Questionnaire Health and Demographic Survey-2012

**SVRS Household No.** 

**PSU Number** 

Area code

Survey of personal characteristics, illness, medical or routine checkup, disability and impairment, treatment and treatment cost of injured by accident and death, information about reproductive health care and socio-economic characteristics. of household members

Sample household No.

RI	MO Div Dist U/Zilla				
			Identification Sample Area		
	Area	Code	Area	Code	
			Upazila		
	Division		Union/Ward		
	Region		Sample Area(Mouza/Mohallah		
	District		Village	<u> </u>	
Rric	ef Instructions:				
1.		ousehold of a	sample area will be collected in the first, se	econd and fourth section	n of the questionnaire
2.			for each and every ill/death/ medical or rou		
3.			e checked-uppersons in the household, use s		
	be attached with the main questionnaire.				
	Accurate information about the illness of				
5.	Main objectives of the questionnaire are	to collect int	ormation about illness and treatment expen	diture. So it must be ke	eeped in mind that not a mild and simple or
	an general niness/death// medical or rou	ше спескеа-	uppersons would not be omitted from the co	ount and it will be ensu	ired that hobody is under enumerated.
	Name of the data collector		Name of the s	upervisor	
	Designation				
	Signature with date			1 date	
	Signature with dute		Signature with		•••••••

# Section-1 1.1 Demographic Characteristics of the Household Members

1.Line	2.Name of the	3.Relations	4.Sex	5.Age	6.Marit	7.Lev	el of	8.What was your a	ctivity in	the last	9. Whether	10.What
no.	household	hip to the	Male-1	(Comple	t al	educa	ıtion	wee	ek		he or she	do you
	members	head of the	Female	ed	status	(Passe	d the	(a)Write in details	(b)Code	of	was sick/	measures
		household	-2	year)Be	(Code)	Clas	ss)	of occupation,	occupation	on	injured last	to protect
				ow 1		Coo	de	persons of age 10+	(From t	he code	90 days?*	against
				year "00	"			(From the code list)	list)		Yes-1	mosquito
											No-2	es?
												(Code)
1	2	3	4	5	6	7		8	9	)	10	11
1												
2												
3												
4												
5												
6												
7												
8												
9												
0												

- Relationship to the head of the household Code: Head of the household-1, Husband/wife -2, Son/daughter-3, Brother/sister-4, Father/mother-5, Others-6
- Marital status Code: Unmarried-1, Married-2, Widowed-3, Divorced-4, Separated-5.
- Level of education: Not passed any Class -00, Passed Class-i-01, Passed Class-ii -02, Passed Class-iii -03, Passed Class-iv -04, Passed Class-v -05, Passed Class-vi -06, Passed Class-vii -07, Passed Class-viii -08, Passed Class-ix -09, Passed SSC or equivalent -10, Passed HSC or equivalent -12, Graduate or equivalent-16, Post graduate or equivalent-17, Doctor/Engineer/Agriculturalist -19, Diploma-20, Vocational-21, Others-99
- Protect against mosquitoes Code:Bed net -1, Mat-3, Refiller- 4, Aerosol/spray -5, Incense/fumes-6, Others-7, Nothing-9.
- \* Information on severe illness/general illness/physical/mental problem, injured happened during last 3 months/90 days shall have to be collected in this questionnaire.

## 1.2 Information for immunized children of age 00-23 month:

Name of chage(According		no. and			Infor	mation	of Va	ccina	tion	of all c	child o	f the h	ouseh	old o	f age (	00-23 1	montl	1	
1.Line number	2.Name of child	3.Age of child		5.Is the	6.If the answer	7.Is immuniz	8.Surce of			of the queded=2 and								xpenditure (	
of child		(month)		child immu nized? Yes-1 No-2	of Q.5 is no then reason (Code)	ation card ava- ilable? Yes-1 No-2	Vaccine Govt-1 NGO-2 Others-3	Dose Week	9. BCG	10.Penta -1 (DPT, Hep- b,Hib)	11. Penta-2	12. Penta-3	13. OPV-1	14. OPV-2	15. OPV-3	16. Measles	Transp	Medicine and Other Cost	Total
1	2	3	4	5	6	7	8	9 Dose	10	11	12	13	14	15	16	17	18	19	20
								Week											
								Dose											
								Week											

<sup>\*</sup> **Reasons for non-immunization code**:Under weight-1, Unaware of need for immunization -2, Unaware of need for different doses-3, Place, time and source of immunization unknown-4, Due to illness of baby-5, Fear of side effects-6, Lack of money -7, Far distance to immunization centre-8, Other reasons-9.

## 1.3 Information about the receiving of vitamin A capsule and the TT program of the mother(All the child of age 00-59 months and mother's information about TT program for the last 6 months)

1.Line	2.Name of	3.Age	4.Mothers	5. Do you	Information of a	ll the child	8. Do you	9. If the	answer o	f the que	stion no.8	3 is yes	10. Do	11.How	12. Is there
number	child	of child	line no.	Know	of 06-59 months		know about	then to	ell the tim	ne schedu	le of 5 do	oses?	you know	many	any
of child		(month)		about	6. Is the child	7.If any	the	TT 1 <sup>st</sup>	TT 2nd	TT 3rd	TT4th	TT 5th	the time	times	defective
				national	has taken	cost for	doses of TT to	dose	dose	dose	dose	dose	schedule	for attends	lambs/disa
				vaccinatio	vitamin "A"	vitamin	prevent		(month)	(month)	(month)	(month)	of child	vaccinatio	bility of
				n day?	capsule in the	"A"	mother and						vaccinatio	n	the child?
				Yes-1	last vaccination	(TK.)	newborn baby						n? Yes-1	Centre to	If answer
				No-2	day? Yes-1		from the						No-2	complete	is yes then
					No-2		tetanus? Yes-1							the doses?	put the
							No-2								code
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
								•							

Disability code of the child: Low vision -১, One eyeফ-২, Blind-৩, Hard of hearing -8, Damage/paralyzed of hand/leg-5, Waist problem-6, Gangrene-7, Loss of memoy-8, Nightblindness-9, Others-10.

## 1.4 Personal information of the Physical/Mental impaired persons of the household's member

1.Li	ine	2.Name of the	3.If more than one	7	Treatment Expe	enditure of the Phys	ical/Mental impa	aired persons	during last 3 mo	onths	
num	ber	Physical/Mental	problem/ impairments	4.Medicine (TK.)	5.Prescription	6.Communication	7.Medical	8.Surgical	9.Clinic/	10.Other	11.Total
		impaired persons	then put the Code of the		fees (TK.)	Exp.	treatment Exp.	Exp.	Hospital rent	Expenses	Expenditure
			main problem			(TK.)	(TK.)	(TK.)	(TK.)	(TK.)	(TK.)
1		2	3	4	5	6	7	8	9	10	11

Code of Physical/Mental problem/impairment: Visual impairments-1, Problem in hearing -2, Problem in mobility -3, Cognition-4, Problem in self care-5, Problem in communication-6

## 1.5 Information of the persons of this household who has injury and accident during last 90 days

	1.Line	2.Name of the	3.Whether the	4.Type of	5.How the	6. Place of	7.Where did you	8. Teatment	9.Type of Vehicle	10.Code of disability
n	umber	injured person	person is alive or	Wound/	Wound/Injury	Injury	seek treatment	cost in	for Injury &	/impairments due to
			dead?	Injury	was occurred?	(From the code	for your Injury	Injury/Accident	Accident	Injury/accident
			Alive-1	(From the code	(From the code	list)	(Code)	(TK.)	(From the code list)	(From the code list)
			Dead-2(Code)	list)	list)					
	1	2	3	4	5	6	7	8	9	10

## 1.6 Information of the died persons due to accident of this household during last 90 days

1.Line	2.Name of the died	3.Sex	4.Age at	5.Marital	6.Level of	7.Usual activity/	8.How the	9. Place	10.Where did	11.Teatment	9.If the accident
number	person due to	Male-1	death	status	education (Code)	economic	Accident	of	you seek	cost in death	by Vehicle,
	Accident	Female-2	(Completed	(Code)	(From the code	occupation	was	Injury	treatment for	due to	type of Vehicle
			year)	(From the	list)	(From the code	occurred?	(From the	your Injury	Injury/Accide	(From the code
				code list)		list)	(From the	code list)	(Code)	nt	list)
							code list)			(TK.)	
1	2	3	4	5	6	7	8	9	10	11	12

## 1.7 Information of all the persons of this household of age 10+ who use tobacco leaves /zarda/gul /smoking /narcotics

1.Lin	2.Name of the	3.Do you use	4.Do you use	5. What type of	6. Age	of	7. Age of	8.Age of	f	If the answe	er of the question no	.3 and or 4 is yes	then fill up the
numb	er person	sadapata/	any	tobacco/narcoti	initiatio	n of	initiation of	initiation	1	actua	l cost of yesterday	in respective box	in Taka.
		zarda/gul/	narcotics?	cs do you use	smokin	ng?	any	ofsadapata		9. Cost of	10. Cost use of	11. Cost of	12.Total cost
		smoking	Yes-1	?			narcotics?	zarda/gul	1	smoking	any drugs	sadapata/	
		e.t.c? Yes-1	No-2	(Code)						(TK.)	(TK.)	zarda/gul	
		No-2		(Multiple response								e.t.c	
		140-2		possible)								(TK.)	
				possioie)									
1	2	3	4	5	6		7	8		9	10	11	12

Smoking/drugs/tobacco Code: Smoking-1, Tobacco leaves (Sadapata)-2, Zarda/gul-3, Wine-4, Hemp (gaza)-5, Hashish (Charash)-6, Heroine-7, Fensidil-8, Injection-9, Yaba-10, Others-11

## 1.8 Information about knowledge and awareness on HIV/AIDS of the household member's of age 15-24:

1.Line number	2. Name of the person	3.Have you everheard of HIV/AIDS? Yes-1 No-2	4. If the answer of the question no.3 is yes then where did you heard about HIV/AIDS?(Code) (Multiple response possible)	(Code) (Multiple response possible)	6. Do you know how does HIV/AIDS to be prevented? (Code) (Multiple response possible)	7.Remarks(If the respondent was absent after 3 times visit) Absent-1 No answer-1
1	2	3	4	5	6	7

Everheard of HIV/AIDS Code : Radio-1, Television-2, Billboard/Poster-3, News papers-4, Educational Institute-5, Relative/Friend-6, Others-7

**Spread out of HIV/AIDS Code**: Sex without condom -1, Using used needles/syringes -2, Unsafe blood transfusions -3, Use sharing razors and blades -4,

Intercourse with HIV/AIDS affected Husband/ wife -5, By born -6, Does not know -7

Prevention of HIV/AIDS Code : Protected sex -1, Transfusion of unscreened blood -2, Avoid sharing syringe -3, Avoid sharing razors /blades-4,

Avoid birth of HIV/AIDS affected Husband/ wife -5, Does not know -6 |

## Section 2 Socio-Economic Characteristics of Household

[En-circle the appropriate code)

2.01 Owner Dwelling (6 the cod	Circle	2.02 Religion of Household the cod	(Circle	2.03 Typ House (Cir code	cle the	2.04 Construction Material Floor of Main House of t (Circle the co	the Housel				2.05 Dwelli	ng
Ownership	Code	Religion	Code	House	Code	Materials of Construction	Wall	Roof	Floor	No. of Rooms	No. of Living Rooms	Area of Living Rooms (Sq.Ft)
Own	1	Islam	1	Separate	1	Straw/ Bamboo / Polythene/ Canvass	1	1				
Rented	2	Hindu	2	Apartment	2	Clay/Un-burnt Brick	2		2			
Rent Free	3	Christian	3	Conjoined /Barrack	3	Tin (CI Sheet)	3	3				
		Buddha	4			Wood	4		4			
		Other	5	]		Tally		5				
						Brick-Cement	6	6	6			
						Mosaic/Tiles			7			
						Other	8	8	8			

2.06 Main Source of Water fo	or –		2.07 Source of Cooking Fuel		2.08 Source of I	Light	2.09 Toilet Facility	
(Circle the	e code)		(Circle the code)		(Circle the c	ode)	(Circle the code)	
Source	Drinking	Other Use	Source of Fuel	Code	Source	Code	Toilet Facility	Code
Тар	1	1	Wood / Bamboo	1	Electricity	1	Sanitary (Water Sealed)	1
Tube well /Deep Tube well	2	2	Kerosene	2	Solar Energy	2	Sanitary (Non-water Sealed)	2
Ring Well/Dug Well	3	3	Gas/LPG	3	Kerosene	3	Non-sanitary/Kutcha	3
Pond	4	4	Electricity	4	Biogas	4	Open Space	4
River/Ditch/Canal	5	5	Straw/Leaves/Dry Cow Dung	5	Others	5		
Others	6	6	Biogas	6				
			Others	7				

2.10 Did any member of this 2.11 Apart from food did			od did	2.12 If answer to question	on 2.11 is	2.13 Did any member	r took small	2.14 Did this househol	d receive any	
household borrowed/to-	ok loan	borrow/took loan fro	om any	yes, for what purpo		loan for income generating work		food or financial help(Relief/Old-Age		
for buying food during	lying food during last 3 source during last 3 months		nonths?	borrowing/lendingtook p	lace?	during last 1 year?		Allowance / Widow Allowance/ Food		
months?		(Circle the code	e)	(Circle the code	)	(Circle the co	de)	for Education help	etc) from	
(Circle the code)	)							Government during last	1 year? (Circle	
								the code)	-	
Did Borrowed/	Code	Did Borrowed/	Code	Reason for Borrowing /	Code	Organization paying	Code	Did it receive	Code	
took Loan?		took Loan?		Lending?		small loan		Government help?		
Yes	1	Yes	1	Treatment	1	Government	1	Yes	1	
						Organization				
No	2	No	2	Education	2	Grameen Bank	2	No	2	
				House building	3	BRAC	3			
				repairing						
				Social festival/program	4	ASA	4			
				Agriculture	5	Others (Mention)	5			
				Others( Mention)	6					

2.15 Does the Househo	old Own	the following Assets?		2.16 What do you do	with the	2.17 Does member	er of this	2.18 What is the distance of	the
	(Circle t	he code)		vegetables grown in the	household	household read the	following	nearest Government/ Pri	ivate
Description of Asset	Code	Description of	Code	compound?		Books/News Paper reg	ularly?	Hospital/NGO Hospital	/
		Asset		(Circle the code	e)	(Circle the co	ode)	Community /Satellite Clinic? (K.	M)
Radio	01	Cycle	10						
Television	02	Motor Cycle	11						ļ
Dish Antenna Connection	03	Animal driven car	12	Use of Vegetables	Code	Book/Newspaper	Code	Distance (K.M)	
Mobile Phone	04	Rickshaw	13	Eat all	1	Daily	1		
Computer	06	Motor car/ Truck/Bus	15	Partly sell	2	Weekly/Fortnightly/ Monthly Periodicals	2		
Fridge/Deep Fridge	07	Engine-driven Boat	16	Sell totally	3	Story/Novel	3		
Almirah/ Ware drop	08	Tractor /Shallow Engine	17	Others (Mention)	4	Others (Mention)	4		
Sewing machine	09	Others (Mention)	18						

#### **Section 3:**

Information regarding health condition of last 90 days, that is, information regarding serious illness, general illness, death, physical Injury, medical and routine check up done during last 90 days

#### 3.01 Information of person who experienced illness/death/medical or routine check-up for diagnosis of disease

l l	Line No.	Name	Kind of person/patient (use the given code)	Age (Completed Year)	Sex	Occupation Code (As per occupation code list)
	1	2	3	4	5	6

- Kind of Sick/Person Code: Sick Person-1; Checked-up person-2; Dead person-3; Injured Person-4; Other-5.
- Use line number 90-99 for dead person.

If there are more than one ill/death/ medical or routine checkup persons in the household, use separate third section of the questionnaire for each person and will be attached with the main questionnaire

3.02 Supplementary questions for accurate diagnosis of disease by person who was exposed to sickness/death/medical or routine check-up for any of the following 31 diseases during last 90 days:

[ If any person living in the household has fallen sick or medically checked up during last 90 days for any of the following 31 diseases, concerned prescriptions and reports are required to be verified for diagnosis of disease. If it is not thus possible then get the replies of the supplementary questions and encircle correct answer.]

	1. Ask Questions for diagnosis of Measles			2. Ask Questions for diagnosis of Dysentery					
Q.No	.No Symptom Last 90 days		Q .No	Symptom	Last 90	) days			
1	First 3 days: Did the Child suffer from cough with high fever and red eye etc?	Yes	No	1	Were there loose motion with stomach squeeze for three or more times?	Yes	No		
2	After 3 days: Did remission of fever and showing of red spot on the face seen?	Yes	No	2.	Was there blood in the stools or blood like excrete?	Yes	No		
3.	After following 3 days: Did black seed of dandruff spotted?	Yes	No		Was mucus/ dysentery secreted with stools?	Yes	No		
4.	Did any other member have/ had similar symptom?	Yes	No						
5.	Have you yet taken vaccination for measles?	Yes	No						

3. Ask Questions for diagnosis of Goitre				4. Ask	Ask Questions for diagnosis of Epilepsy					
Q.No	Symptom	Last 9	Last 90 days (		Symptom	Last 90 d	lays			
1	Does /did the front side of neck inflated	Yes	No	1.	Did ever lose the sense by shaking or shivering hands and	Yes	No			
	like solid mass?				legs?					
2	Does the shape of the mass changes	Yes	No	2.	Was there symptom of pouring saliva or biting of tongue?	Yes	No			
	with pressure?									
3	Does its position change/ move?	Yes	No	3.	After getting sense was there pain in leg, headache, sleepy feeling?	Yes	No			

5. As	k Questions for diagnosis of Rabies	6. Ask	Questions for diagnosis of Chicken pox				
Q.N	Symptom	Last	Last 90 days		Symptom	Last 90	0 days
0							
1	Did dog or any other animal (cat,fox,mogoose,rat,mole-	Yes	No	1.	Is/was there mini boil like water vesicle on	Yes	No
	rat etc) bite?				the entire body with light fever?		
2	Did take vaccination of dog biting after the biting of the	Yes	No				
	mentioned animals?						[
3	Was there symptom of uneasiness in the biting place,	Yes	No				
	restlessness, problem in drinking water, fear from water,						
	air or light after one week to three months of biting?						

7. Ask (	Questions for diagnosis of Conjunctivitis			8. Ask	Questions for diagnosis of Night blindness		
Q.No	Symptom	Last 9	0 days	Q.No	Symptom	Last 90 d	ays
1.	Is/was frequent water shedding with itching or burning sensation?	Yes	No	1.	Is there trouble in seeing during night?	Yes	No
2.	Is/was the eye became red?	Yes	No	2.	Is there trouble in seeing during in the day?	Yes	No
				3.	Is there any white spot in the eye?	Yes	No

9. Ask Questions for diagnosis of Cataract				10. Ask Questions for diagnosis of Arthritis					
Q.No	Symptom	Last 90	days	Q.No	Symptom	Last 9	00 days		
1.	Is/was trouble in seeing?	Yes	No	1.	Is there symptom of pain in bone joint, problem in walking or often inflation of bone joint?	Yes	No		
2.	Is/was feeling of light cover on the eye?	Yes	No						
3.	Does it seem white it torch light is focused on the eye?	Yes	No			·			

11. Ask	Questions for diagnosis of Tuberculosis			12. As	sk Questions for diagnosis of Malaria		
Q.No	Symptom	Last	Last 90		Symptom	Last 90 da	
		day	ys				
1.	Is/was there cough for three or more weeks continuously?	Yes	No	1.	Is/was Fever with cold and shivering?	Yes	No
2.	Does appetite reduced?	Yes	No	2.	Is/was remission of fever after some time?	Yes	No
3.	Does the weight reduced?	Yes	No	3.	Is/was fever irregularly after ½ days?	Yes	No
4.	Was there blood with cough?	Yes	No	4.	Did go or resided in malaria proven areas 1 month	Yes	No
					before the occurrence of fever?		
5.	Was there hidden fever off and on?	Yes	No				
6.	Does the fever come in the evening, body sweat in the	Yes	No				
	dawn?						
7.	Was there inflammation of gland, neck?	Yes	No				
8.	Does/did any member of family suffer from TB?	Yes	No				
9.	Did take medicine for TB before?	Yes	No				
10.	Have taken TB vaccination till now?	Yes	No				
11	Was the Glands inflamated?	Yes	No				

13 Ask Questions for diagnosis of Kala-azar					k Questions for diagnosis of Peptic Ulcer		
Q.No	Symptom	Last 9	0 days	Q.No	Symptom	Last 9	0 days
1.	Has/had fever for 2 or more weeks?	Yes	No	1.	Has/had pain/trouble on the chest?	Yes	No
2.	Feel/did feel weak due to fever?	Yes	No	2.	Does /did bitterness of pain in empty stomach increased?	Yes	No
3.	Did weight reduce after fever?	Yes	No	3.	Has/ had sour eructation?	Yes	No
4.	Did live or visit Kala-azar proven area during last one and half years?	Yes	No				
5.	Did tar like motion or blood vomiting take place?	Yes	No				

15. Ask	Questions for diagnosis of Hepatitis-b	16. Ask Questions for diagnosis of Diabetes					
Q.No	Symptom	Last 9	0 days	Q.No	Symptom	Last 90	days
1.	Is/was the colour of urine and eye was yellow?	Yes	No	1.	Did hear the name of diabetes?	Yes	No
2.	Has/had no appetite with light fever?	Yes	No	2	Did show the doctor for diabetes?	Yes	No
3.	Does/did vomiting take place along with vomiting	Yes	No	3.	Did confirm diabetes ever by showing doctor	Yes	No
	tendency?				or blood test?		
				4.	Do you maintain any rules/habit for diabetes?	Yes	No

17. Ask Q	Questions for diagnosis of High Blood Pressure			18. Asl	<b>Questions for diagnosis of Urinary Tract Infection</b>		
Q.No	Symptom	Last 9	Last 90 days		Symptom	Last 90 days	
1.	Did show the Doctor for high blood pressure?	Yes	No	1.	Did feel pain in the urinary tract during urinate?	Yes	No
2.	Did the Doctor confirm existence of blood pressure?	Yes	No	2.	Is/was urinate off and on?	Yes	No
3.	Did follow rules for controlling high blood pressure?	Yes	No	3.	Has/had pain on abdomen?	Yes	No
19. Ask <b>Q</b>	Questions for diagnosis of Sexually Transmitted Disease	ses		20. Asl	k Questions for diagnosis of Arsenic		
Q.No	Symptom	Last 9	90 days	Q.No	Symptom	Last 9	0 days
1.	Did excrete come with urine?	Yes	No	1.	Did you make arsenic test on the drinking water?	Yes	No
2.	Does feel pain during urinate?	Yes	No	2.	Do you drink arsenic free water?	Yes	No
3.	Has any wound in the sexual organ?	Yes	No	3.	Is/was sign of dry skin or hand/feet seen?	Yes	No
4.	Is the wound painless or itching free?	Yes	No	4.	Has/had any boil seen on the skin?	Yes	No
				5.	Has/had the mark of itching on the spot?	Yes	No
				6.	Are aware of arsenic attack?	Yes	No

21. Ask	Questions for diagnosis of Tetanus	22. Ask Q	uestions	for diagn	osis of Pregnant		
Q.No	Symptom	Last 90	days	Q.No	Symptom	Last 9	0 days
	(From the age of 3 days)		•				·
01.	Can the child suck breast milk?	Yes	No	1.	Has/had water on the foot/body?	Yes	No
02.	Can the child cry loudly?	Yes	No	2.	Has/had severe headache or problem light blindness?	Yes	No
03.	Do the mouth and jaw of the child become hard?	Yes	No	3.	Can she sleep properly?	Yes	No
04.	Does the backside of the child band like bow during convulsion?	Yes	No	4.	Was there bleeding during pregnancy?	Yes	No
05.	Did convulsion/ above mentioned symptoms shown to child during 3-28 days of birth?	Yes	No	5.	Did convulsion took place?	Yes	No
06.	Was the umbilical cord of the child was cut by untidy knife/scissors/.blade?	Yes	No				
07.	Has the mother of the child taken TT vaccination during pregnancy?	Yes	No				
08.	Has the mother taken 5 doses of TT vaccination?	Yes	No				
	(For children of age above 1 year)			•			
09.	Can the child cry loudly?	Yes	No				
10.	Does the child's mouth and jaw become hard?	Yes	No				
11.	Does the child body bend backward like bow during convulsion?	Yes	No				
12.	Has it been taken 3 doses of preventive vaccination for tetanus till today?	Yes	No				
	DPT-1	Yes	No				
	DPT-2	Yes	No				
	DPT-3	Yes	No	23. Ask (	Questions for diagnosis of the Problems of New	vly Born	
(For E	,			Q.No			
13.	Is/was wound for more than 3 or more days?	Yes	No	1	Did cry loudly after birth?	Yes	No
14.	Is/was shivering?	Yes	No	2.	Did the body become blue after birth?	Yes	No
15.	Do feel pain in jaw while opening the mouth?	Yes	No	3.	Can suck the breast milk?	Yes	No
				4.	Is /was shivering?	Yes	No
				5.	Is there suffocation problem?	Yes	No

24. Ask	Questions for diagnosis of Acute Respiratory Infecti	25. Ask Questions for diagnosis of Mumps					
Q.No	Symptom	Last	90 days	Q.No	Symptom	Last 90 days	
1.	Has/had the child fever with cold-cough?	Yes	No	1.	Does/did the jaw /jaw bottom lying in front of ear swell?	Yes	No
2.	Did the child inhale off and on?	Yes	No	2.	Is /was fever and discomfort side by side?	Yes	No
3.	Is/was there trouble in inhaling?	Yes	No	3.	Does the mouth dry up?	Yes	No
4.	Does/did the chest cage drop down during inhaling?	Yes	No				

26. Ask	Questions for diagnosis of Whooping Cough			27. As			
Q.No	Symptom	Last 9	0 days	Q.No	Symptom	Last 90	days
1.	Does the Cough continuing for more than 3 weeks?	Yes	No	1.	Is/was the child suffer from light fever with cough?	Yes	No
2.	Does the cough continue for longer time once it is started?	Yes	No	2.	Is/was neck inflammation?	Yes	No
3.	Is /was there symptom of fever with cough, dropping of water through nose, becoming of eye and mouth reddish etc?	Yes	No	3.	Is/was trouble in taking food?	Yes	No
4.	Does blood freeze due to severe cough?	Yes	No	4.	Is/was there any white covering inside the throat?	Yes	No
5.	Did take three doses of preventive vaccination for whooping cough ever?	Yes	No	5.	Is/was trouble in inhaling?	Yes	No
6.	Did these symptoms were seen even after vaccination?	Yes	No	6.	Have three doses of preventive vaccination been taken for Diphtheria till now? If yes, make sure by seeing the card.	Yes	No
				7.	Has the symptom seen even after preventive vaccination?	Yes	No

28 Asl	Questions for diagnosis of Ear Infection			29. As	29. Ask Questions for diagnosis of Skin Disease							
Q.No	Symptom	Last 9	00 days	Q.No	Symptom	Last	90					
						day	ys					
1.	Did water or putrid fall due to ear sepsis?	Yes	No	1.	Is/was there small or big boil on the skin due to prickly heat or itching?	Yes	No					
				2.	Does/did serum fall due to itching?	Yes	No					
				3.	Does/did putrid like serum fall ever?	Yes	No					

30 As	k Questions for diagnosis of cancer			31. As	k Questions for id					
Q.No	Symptom	Last 9	0 days	Q.No	Symp	Symptom				
1.	Are you suffering from dangerous diseases?	Yes	No	1.			or watery stools for 3 or more s',indicatesdiarrhoea)			
2.	Is the disease is cancer?	Yes	No	2.	If yes, what we days?(Circle the c		toms of diarrhoea in last 90			
3.	If the disease is cancer then the doctor traceout the place where it was affected?	Yes	No		(a) Dry mouth	(b)Thirst	(c) Dry wrinkled skin	(d) Sunken	eyes	
	(a) Breast/Uterus	Yes	No		1	2	3	4		
	(b) Stomach	Yes	No		One or more answ	ver of the above	e mention box indicates the 'dehy	dration'		
	(c) Liver	Yes	No	3.	Treatment of diar	rhoea		Last 90	days	
	(d) Pharynx	Yes	No		(a) On saline pacl	ket		Yes	No	
	(e) Oesophugus	Yes	No		(b)Home made or	e saline		Yes	No	
	(f) Luckemia	Yes	No		(c)Others			Yes	No	
	(g) Others	Yes	No							

32 As	k Questions for diagnosis of Others(Sp	ecify	)	33. As	33. Ask Questions for diagnosis of of Others (Specify)						
Q. No	Symptom	Last 9	0 days	Q.No	Symptom	Last 90	days				
1.		Yes	No	1.		Yes	No				
2.		Yes	No	2.		Yes	No				
3.		Yes	No	3.		Yes	No				

### 3.3 Information of Sick/ Dead/Wounded/ Medical or Routine Checked up persons:

1. Lin	2. Name of	3. Code of	4.Did treatment	5. If no treat-	6. Was there	7. If loss	8. For	9. If answer	of question	10. How	11. Was he	12.If
No	Disease	Diseases	of sickness/	ment done put	loss of work	occurred-	how	4 is yes, the	n type of	many	cured due	answer to
	(One or more		medical or	reason code	due to	Kind of loss	many	institute		days was	to	Q11 is
	diseases)		routine check-	(From Code	sickness	code.	days	treatment/cl	necked –up	in	treatment?	yes, how
			up?	list)	/check-up?	(From Code	lost?	has done?		hospital?		many days
			[Yes-1 No-2]		[Yes-1 No-2]	list)	(Days)	Institute	Indoor -1	(Days)	[Yes-1	required
								code	Outdoor-2		No-2]	to cured?
									Other -3			
1	2	3	4	5	6	7	8	9	10	11	12	13

Medical Institute Code: Government -1, Private-2, NGO-3, Abroad-4, Own-5, Others(exorcism ,traditional)-6

#### 

1.Li	ne 2. Fro	m whom					Ex	penditure for Tre	atment / Medi	cal or Routin	e check-up			
N	treatm	ent/pres-		Medicin	e	Doctor Pathological and other tests		10.	11.Hospital rent	12.	13.	14.		
	cript	ion was	3. From	4. Type	5.	6.Type	7.	8. From where	9.	Operation	& other	Expenditure	Transport	Total
		ken?	where of Expenditure of Doctor					tests were	Expenditure	cost(Taka)	expenditure	for	cost (Taka)	Expenditure
	(C	Code)	medicine medicine (Taka) Doctor Fee				Fee	done?	(Taka)		(Taka)	attendants		
			procured			(Code)	(Taka)	(Code)				(Taka)		
			(code)											
1	2	2	3	4	5	6	7	8	9	10	11	12	13	14

N.B. Different codes needed for filling-in the questionnaire are given in the' code list'. Write the appropriate code as answer to question from the set code list

#### 

1.	Line	2. From	whom		Expenditure for Treatment / Medical or Routine check-up										
		treatment/	pres-	Med	licine		Doc	tor	Pathological an	d other tests	10.	11.Hospital	12. Expendi-	13.	14.
		cription	was	3.From	4. Type	5.Expenditure	6.Type	7.	8. From where	9.	Operation	rent & other	ture for	Transport	Total
		taken?		where	of	(Taka)	of	Doctors	tests were	Expenditure	cost(Taka)	expenditure	attendants	cost (Taka)	Expenditure
		(Code)		medicine	medicine		Doctor	Fee	done?	(Taka)		(Taka)	(Taka)		
				procured			(Code)	(Taka)	(Code)						
				(code)											
	1	2		3	4	5	6	7	8	9	10	11	12	13	14

N.B. Different codes needed for filling-in the questionnaire are given in the' code list'. Write the appropriate code as answer to question from the set code list.

## 3.3.3 Name of Medical Institution...... Medical Institution Code:

1.L	ine	2. From whom					Expen	diture for Treatn	nent / Medical	or Routine c	heck-up			
N	0	treatment/pres-		Medici	ne	Do	ctor	Pathological and other tests		10.	11.Hospital	12.	13.	14.
		cription was	3.From	4. Type	5.Expenditure	6.Type	7.	8. From where	9.	Operation	rent & other	Expendit-	Transport	Total
		taken?	where	of	(Taka)	of	Doctors	tests were	Expenditure	cost(Taka)	expenditure	ure for	cost (Taka)	Expenditure
		(Code)	medicine	medicine		Doctor	Fee	done?	(Taka)		(Taka)	attendants		
			procured			(Code)	(Taka)	(Code)				(Taka)		
			(code)											
1		2	3	4	5	6	7	8	9	10	11	12	13	14

Medical Institute Code: Government -1, Private-2, NGO-3, Abroad-4, Own-5, Others (exorcism, traditional)-6

3.3.4 Name of Medical Institution	<b>Medical Institution Code:</b>	-
5.5.4 Name of Medical Institution	Medical Institution Code:	

1.Line	2. From whom					Exp	enditure for Treat	ment / Medica	al or Routine	check-up			
No	treatment/pres-		Medicii			ctor	Pathological and other tests		10.	11.Hospital rent &	12. Expendit-	13.	14.
	cription was	3.From	4. Type	5.Expenditure	6.Type	7.	8. From where	9.	Operation	other expenditure	ure for	Transport	Total
	taken?	where	of	(Taka)	of	Doctors	tests were done?	Expenditure	cost(Taka)	(Taka)	attendants	cost (Taka)	Expenditure
	(Code)	medicine	medicine		Doctor	Fee	(Code)	(Taka)			(Taka)		
		procured			(Code)	(Taka)							
		(code)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14

N.B. Different codes needed for filling-in the questionnaire are given in the' code list'. Write the appropriate code as answer to question from the set code list.

## **Section 4:** Information related to Fertility and Maternal Health Care

## 4.1 Information of live births given by the ever married women of age 15-49 years of the household during last one year

1.	2. Name	3. Age of	4.Child-	5.	6. Date	7. Type of	8. Who	9.	10. How	11. Prenatal	12.Expen	13. How	14. Post	15.	16. Is
Line	of	Mother	Boy or	Name	of Birth	birth	helped	Where	many	Expenditure	diture during	many	natal Expen	Total	the
No.	Mother	(Completed	Girl?	of	of Child	Normal-1	during	birth	doctors	(Taka)	delivery.	times	diture	Expenditure	child
		Years)	Boy-1	Child	(For	Scessorian-2	child	took	were		(Taka)	doctors	(Taka)	(Taka)	still
			Girl-2		children		birth?	place?	consulted			were			alive?
					of age <1		(Code)	(Code)	before			consulted			
					year)				birth?			after birth?			Yes-1
															No-2
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

**Birth Attendant Code** : Doctor-1 , Expert Midwife-2, Nurse-3, Health worker-4, Non-expert midwife-5, Other-6.

Place of delivery code : Government Hospital/Health care Centre-1, NGO Health Centre -2, Private Hospital/health care centre-3, At home-4.

## 4.2 Information of all the children given birth by the ever married women of age 15-49 years of these households

1.I	ine	2. Name of	of 3. What is How many of your children out of total live births							8. What	9. Do you	10. If answer	11. Was '	ΓΤ vaccine-		
]	No	M1other	your du	uration	(Inclu	ding live births	of last 1	2 months)						to Q9 is yes, is		
			of ma	arriage	e 4. Live in this household			5. Live in other 6. Died		Died	7. Total	age during	health	TT recorded in	pregnancy'	? If yes, at
			life(Com	plete			places		places number		number	first live	card?	the health	what n	nonth of
			years)	_				•			of your	births?	Yes-1	card?	pregnancy	was taken?
							1				children	(Complete		Yes-1	(Mor	
					Boy	Girl	Boy	Girl	Boy	Girl		year)		No-2	Month	Month
	1	2	3		4	5	6	7	8	9	10	11	12	13	14	15

### 4.3 Information regarding use of family planning methods by the non-pregnant currently married women of age 15-49 years of this household

During collection of information of this question inform the respondent politely that using family planning method one can delay /stop birth of children

Question-1: Do you or your husband use any family planning method to stop or delay child birth?

•					
Circle the applicable code	:	Yes-	1	No-	2

If answer to Q1 is yes then fill-in one column for each user and write the line number of the user in column 1 for the first user, in column 2 for the second user and so on. Then encircle the applicable method code from the lines mentioned below.

Method(Modern and	Line No of Acceptor							
Traditional)								
Modern Method:	Code							
Condom	1	1	1	1	1	1	1	1
Pill	2	2	2	2	2	2	2	2
Injection	3	3	3	3	3	3	3	3
Vasectomy	4	4	4	4	4	4	4	4
IUD/CT	5	5	5	5	5	5	5	5
Ligation	6	6	6	6	6	6	6	6
Foam Tablet	7	7	7	7	7	7	7	7
Implant/norplant	8	8	8	8	8	8	8	8
Traditional Method:								
Withdrawal	9	9	9	9	9	9	9	9
Safe period	10	10	10	10	10	10	10	10
Others (Mention)	11	11	11	11	11	11	11	11
No reply	88	88	88	88	88	88	88	88
Do not know	98	98	98	98	98	98	98	98

Question-2: How much was spent due to use of the above methods during last 1 year?

Total Expenditure (Taka)				

Time taken to fill-in the questionnaire (Minu							