

2009

Coverage **Evaluation** Survey





























Coverage Evaluation Survey

All India Report

All rights reserved
Copyright © The United Nations Children's Fund (UNICEF) 2010
The CES 2009 reports and fact sheets are available for download from Resource Centre at our website http://www.unicef.org/india/health.html

UNICEF UNICEF House 73, Lodi Estate, New Delhi – 110003. INDIA

Telephone: +91-11-24690401 Fax: +91-11-24627521 Website: www.unicef.in

Contents

ACKNOWLEDG	EMENT	ix
LIST OF ACRON	IYMS	xi
EXECUTIVE SU	MMARY	xiii
CHAPTER 1	INTRODUCTION	1
1.1	BACKGROUND OF THE STUDY	
1.2	OBJECTIVES OF THE EVALUATION	
1.3	WHAT CHANGE IN CES 2009	3
1.4	TIME TAKEN FOR PLANNING AND IMPLEMENTATION OF SURVEY	
1.5	RESOURCES USED FOR CES 2009	3
CHAPTER II	METHODOLOGY	5
2.1	SURVEY DESIGN AND SAMPLE IMPLEMENTATION	5
2.2	RECRUITMENT, TRAINING AND FIELDWORK	9
2.3	DATA PROCESSING AND ANALYSIS	9
2.4	QUALITY CONTROL AND MONITORING OF DATA COLLECTION	11
CHAPTER III	PROFILE OF SAMPLE HOUSEHOLDS	13
3.1	PROFILE OF SAMPLED VILLAGES	13
3.2	PROFILE OF SAMPLED HOUSEHOLDS	14
3.3	HOUSING CHARACTERISTICS	15
3.4	POSSESSION OF BANK ACCOUNT AND BELOW POVERTY LINE (BPL) CARD	18
3.5	HOUSEHOLD WEALTH INDEX	18
CHAPTER IV	ROUTINE IMMUNIZATION	23
4.1	BACKGROUND PROFILE OF MOTHER WITH CHILD AGED 12-23 MONTHS	24
4.2	AWARENESS ABOUT IMMUNIZATION	25
4.3	AVAILABILITY OF IMMUNIZATION CARD	25
4.4	IMMUNIZATION STATUS OF THE CHILDREN	29
4.5	DROP OUT RATE	
4.6	COVERAGE OF BOOSTER DOSE OF DPT AND OPV	42

4.7	HEPATITIS B COVERAGE	46
4.8	PLACE OF IMMUNIZATION	49
4.9	DISTANCE TRAVELLED AND TIME TAKEN FOR CHILD'S IMMUNIZATION	54
4.10	SOURCE OF INFORMATION	56
4.11	USE OF SAFE INJECTION	62
4.12	REASONS FOR NON-IMMUNIZATION	64
CHAPTER V	MATERNAL CARE SERVICES	67
5.1	BACKGROUND CHARACTERISTICS OF WOMEN SELECTED FOR MATERNAL CARE	67
5.2	REGISTRATION OF PREGNANCY	68
5.3	ANTE NATAL CARE	73
5.4	REASON FOR NOT RECEIVING THE ANC SERVICES	85
5.5	ACCESSIBILITY OF ANC SERVICES	85
5.6	COMPLICATION DURING PREGNANCY	86
5.7	NATAL CARE	88
5.8	REASONS FOR NOT GOING TO HEALTH INSTITUTION FOR DELIVERY	102
5.9	COMPLICATIONS DURING DELIVERY	105
5.10	LEVEL OF AWARENESS AND UTILIZATION OF JSY SCHEME AND RECEIPT	
	OF MATERNAL AND CHILD HEALTH (MCH) CARD	105
5.11	ASSISTANCE RECEIVED FROM THE ASHA	114
5.12	AVAILABILITY OF BED FACILITY AND COUNSELLING AT THE TIME OF DELIVERY	117
5.13	TRANSPORT ARRANGEMENT	122
5.14	CARE OF THE NEW BORN	124
5.15	POST NATAL CARE	127
5.16	KNOWLEDGE ABOUT DANGER SIGNS OF NEW BORN	129
CHAPTER VI	BREASTFEEDING PRACTICES AND CHILD NUTRITION	133
6.1	BREASTFEEDING PRACTICES	
6.2	BREASTFEEDING PRACTICES ACCORDING TO BACKGROUND CHARACTERISTICS	136
6.3	BREAST FEEDING PRACTICES ACCORDING TO STATES/UTS	137
6.4	CURRENT STATUS OF BREASTFEEDING	142
6.5	COMPLEMENTARY FEEDING PRACTICES	144
6.6	VITAMIN A COVERAGE	147
6.7	USE OF IODIZED SALT	152
CHAPTER VII	CHILD MORBIDITY AND CARE SEEKING PRACTICES	155
7.1		
7.2	TREATMENT- SEEKING BEHAVIOUR FOR DIARRHOEA	
7.3	MANAGEMENT OF ACUTE RESPIRATORY INFECTION	
7.4	USE OF BED-NETS AMONG CHILDREN	169
CHAPTER VIII	CONCLUSIONS AND WAY FORWARD	171
APPENDICES A	ND QUESTIONNAIRES	173
APPENDIX 1	LIST OF VARIABLES FOR DEVELOPMENT OF WEALTH INDEX	175
APPENDIX 2	CHILD IMMUNIZATION COVERAGE QUESTIONNAIRE	176
APPENDIX 3	MATERNAL CARE SERVICES QUESTIONNAIRE	192
APPENDIX 4	VILLAGE QUESTIONNAIRE	213
APPENDIX 5	SAMPLING ERROR ESTIMATION	215
APPENDIX 6	COMPARISON WITH DLHS3 AND NFHS3	224

List of Tables, Figures and Maps

CHAPTER II	METHODOLOGY	
Table 2.1: St	ate-wise number of respondents interviewed and response rate	8
	PROFILE OF SAMPLE HOUSEHOLDS	
Table 3.1:	Percentage distribution of sampled villages according to background characteristics	
Table 3.2:	Percentage sampled villages with health and education facilities	
Table 3.3:	Percentage distribution of the sampled households according to selected	
Table 3.4:	Percentage distribution of households according to housing characteristics	
Table 3.5:	Percentage of households having savings account and bpl card	
Table 3.6a:	Percentage of households according to wealth index – total	19
Table 3.6b:	Percentage of households according to wealth index - rural	
Table 3.6c:	Percentage of households according to wealth index – urban	21
CHAPTER IV	ROUTINE IMMUNIZATION	
Table 4.1:	Percentage of children aged 12-23 months according to selected background characteristics	
	and profile of their parents	24
Table 4.2:	Percentage of mothers/care giver of children aged 12-23 months having knowledge of vaccines	25
Table 4.3:	Percentage of children aged 12-23 months according to issue of immunization card and	
	reasons for not receiving the card	26
Table 4.4:	Percentage of children aged 12-23 months who showed an immunization card	
	to interviewers according to background characteristics	27
Table 4.5:	Percentage of children aged 12-23 months who showed an immunization card	
	to interviewers according to States/UT	28
Table 4.6:	Percentage of children aged 12-23 months who received specific vaccination	
Table 4.7:	Percentage of children age 12-23 months who received specific vaccination (according to either	
	vaccination card or mother's report) according to selected background characteristics	32
Table 4.8:	Percentage of children aged 12-23 months who received specific vaccination	
	(according to either vaccination card or mother's report) according to States/UT	33
Table 4.8a:	Percentage of children age 12-23 months who received specific vaccination	
	(according to vaccination card or mother's report) according to States/UT-Rural	34
Table 4.8b:	Percentage of children age 12-23 months who received specific vaccination	
10010 4.00.	(according to vaccination card or mother's report) according to States/UT-Urban	35
Table 4.8c:	Percentage of children age 12-23 months who received full immunization (according to vaccination	
14016 4.06.	card or mother's report) according to States and Selected Background Characteristics	36
Table 4.9a:	Child immunization drop-out rates among children aged 12-23 months according	30
Table 4.3a.	to background characteristics	20.20
Table 4 Ob	Child immunization drop-out rates among children aged 12-23 months according to States/UT	
	· · · · · · · · · · · · · · · · · · ·	
	Percentage of children age 18-23 months who received booster dose of DPT and OPV	42
Table 4.11a:	Percentage of children aged 18-23 months who received OPV/DPT booster doses	40.40
T 4 44	according to selected background characteristics	42-43
Table 4.11b:	Percentage of children aged 18-23 months who received OPV/DPT booster doses	45
	according to States/UT	45
Table 4.12:	Percentage of children age 12-23 months who received Hepatitis B vaccination	
	(according to either vaccination card or mother) in Hepatitis B implementing States	
	according to selected background characteristics	47
Table 4.13:	Percentage of children age 12-23 months who received Hepatitis B vaccine	
	according to States/UT	48

Table 4.14:	Percentage of children aged 12-23 months who were partially or fully immunized	
	by place of immunization, according to selected background characteristics	. 49-50
Table 4.15a:	Percentage of children aged 12-23 months who were partially or fully immunized	
	according to place of immunization, for most vaccines, according to States/UT - Total	51
Table 4.15b:	Percentage of children aged 12-23 months who were partially or fully immunized	
	according to place of immunization for most vaccines according to States/UT - Rural	52
Table 4.15c:	Percentage of children aged 12-23 months who were partially or fully immunized	
	according to place of immunization for most vaccines according to States/UT - Urban	53
Table 4.16: F	Percentage of children aged 12-23 months who received at least one vaccine	
	according to the distance covered to reach the place for last immunization and time	
	taken to reach that place	. 54-55
Table 4.17: F	Percentage of children aged 12-23 months who received at least one vaccine according	
	to the distance travelled to reach the place for last immunization and time taken to reach	
	that place according to States/UT	. 55-56
Table 4.18:	Percentage of children aged 12-23 months who received at least one vaccine according to sources	
	of information about immunization by selected background characteristics - (Multiple responses)	57
Table 4.19a:	Percentage of children aged 12-23 months who received at least one vaccine according	
	to sources of information about immunization by States/UT - Total (Multiple responses)	58
Table 4.19b:	Percentage of children age 12-23 months who received at least one vaccine according	
	to sources of information about immunization by States/UT - Rural (Multiple responses)	59
Table 4.19c:	Percentage of children aged 12-23 months who received at least one vaccine according	
	to sources of information about immunization by States/UT - Urban (Multiple responses)	60
Table 4.20:	Percentage of children aged 12-23 months who made more than 1 visit for immunization	
	and the reasons for more than one visit for last immunization	61
Table 4.21:	Percentage of children aged 12-23 months who had to visit more than once for immunization	
	according to the reasons for more than one visit for last immunization segregated by States/UT	. 61-62
Table 4.22:	Percentage of children aged 12-23 months who received at least one injectable vaccine	
	from public facility according to safe injection practices - Total	63
Table 4.23:	Percentage of children aged 12 -23 months who received no vaccination or partial	
	vaccination according to the reasons for none or partial immunization	. 65-66
Figure 4.1	Immunization among 12-23 month children	30
Figure 4.2	Immunization Status Among 12-23 month children by States	37
Figure 4.3	Child Immunization – Left-out and Drop-out Rates	38
Figure 4.4	Reasons for partial or no immunization (multiple responses)	64
Map 4.1	Full Immunization Coverage	31
Map 4.2	BCG-DPT3 Drop-out rates	40
Map 4.3	DPT Booster Dose	44
CHAPTER V	MATERNAL CARE SERVICES	
Table 5.1:	Percentage distribution of women who delivered during 12 months preceding	
	the survey according to selected background characteristics	68
Table 5.2:	Percentage of women, who delivered during 12 months preceding the survey,	
	according to pregnancy registration	69
Table 5.3a:	Percentage of women who delivered during 12 months preceding the survey	
	according to the place of registration of pregnancy according to States/UTs - Total	70

Contents

Table 5.3b:	Percentage of women who delivered during 12 months preceding the survey,	
	according to the place of registration of pregnancy according to States/UT - Rural	71
Table 5.3c:	Percentage of women who delivered during 12 months preceding the survey	
	according to the place of registration of pregnancy according to States/UT - Urban	72
Table 5.4:	Percentage of women who delivered during 12 months preceding the survey,	
	according to number of ANC received and place of last ANC	74
Table 5.5:	Percentage of women who delivered during 12 months preceding the survey and	
	who received iron supplementation and its sources	75
Table 5.6:	Percentage of women who delivered during 12 months preceding the survey and received	
	antenatal care, TT injections and IFA tablets according to selected background characteristics	77
Table 5.7a:	Percentage of women who delivered during 12 months preceding the survey and who	
	received antenatal care, TT injections and IFA tablets according to States/UT - Total	79
Table 5.7b:	Percentage of women who delivered during 12 months preceding the survey and who	
	received antenatal care, TT injections and IFA tablets according to States/UT - Rural	80
Table5.7c:	Percentage of women who delivered during 12 months preceding the survey and who	
	received antenatal care, TT injections and IFA tablets according to States/UT - Urban	81
Table 5.8:	Percentage of women who delivered during 12 months preceding the survey according	
	to specific components of antenatal care, counselling for danger signs during pregnancy	
	and antenatal care advice received	83
Table 5.9:	Percentage of women who delivered during 12 months preceding the survey in terms of specific	
10010 0101	components of antenatal care received according to States/UTs	84
Table 5.10:	Percentage of women who delivered during 12 months preceding the survey and the	0 .
Table 5.16.	reasons for not receiving antenatal check up	85
Table 5 11:	Percentage of women who delivered during last 12 months in terms of the accessibility	
Tubic 5.11.	to ANC services in the village/area	86
Table 5.12:	Percentage of women who delivered during 12 months preceding the survey vis a vis type	00
10010 0.12.	of complications experienced during pregnancy and source of treatment	87
Table 5 13	Percentage of women who delivered during 12 months preceding the survey,	07
Table 5.15.	the place of delivery and assistance during delivery	99_90
Table 5 14:	Percentage of women who delivered during 12 months preceding the survey according	.00-03
14.	to nature of delivery and place of delivery	90
Table 5 15:	Percentage of women who delivered during 12 months preceding the survey according to place	03
Table 5.15.	of delivery and assistance received during home delivery according to background characteristics	01
Table 5 16a:	Percentage of women who delivered during 12 months preceding the survey vis a vis place	3 1
Table 5. Toa.	of delivery and assistance during home delivery according to States/UT - Total	0.4
Table E 16b		94
Table 5. Tob.	Percentage of women who delivered during 12 months preceding the survey according to place of delivery and assistance during home delivery by States/UT - Rural	0.5
Toble E 16er		90
Table 5. Toc.	Percentage of women who delivered during 12 months preceding the survey according	0.0
T-51- F 17.	to place of delivery and assistance during home delivery by States/UT - Urban	90
Table 5.17:	Percentage of women who delivered in institution during 12 months preceding the survey	07
T.I. 5.40	according to transport used at the time of delivery	97
Table 5.18:	Percentage of women who delivered in a health facility according to the duration	•
T.I. 5.40	of stay after delivery in the health facility	98
Table 5.19:	Percentage of women who delivered in a government health facility according	
T.I	to the duration of stay after delivery in the health facility	99
Table 5.20:	Percentage of women who delivered in health facility and stayed at least for 48 hours after	
	delivery in the health facility according to background characteristics (normal/assisted delivery)	100

Table 5.21:	Percentage of women who delivered in health facility and had normal or assisted delivery	
	according to the duration of stay after delivery in the health facility by States and UTs	101
Table 5.22:	Percentage of women who delivered at home during 12 months preceding the survey	
	according to reasons for not delivering the baby in an institution by background	
	characteristics (Multiple responses)	103
Table 5.23a:	Percentage of women who delivered at home during 12 months preceding the survey according	
	to reasons for not delivering the baby in an institution by States/UT - Total (Multiple responses)	104
Table 5.24:	Percentage of women who delivered during 12 months preceding the survey according	
	to type of perceived complications during deliver	105
Table 5.25:	Percentage of women who were aware of the JSY scheme and received MCH card during	
	delivery according to background characteristics	106
Table 5.26a:	Percentage of women who aware of JSY scheme and received MCH card according to	
	States/UT - Total	108
Table 5.26b:	Percentage of women who were aware of JSY scheme and received MCH card according	
	to States/UT - Rural	109
Table 5.26c:	Percentage of women who were aware of JSY scheme and received MCH card according	
10010 012001	to States/UT - Urban	110
Table 5.27:	Percentage of women delivered during 12 months preceding the survey according to the	110
14510 3.27.	government assistance received under JSY and the background characteristics	112
Table 5.28:	Percentage of women who delivered at a health facility according to the government	112
14016 3.20.	assistance received under JSY by States/UT	112
Table E 20:	Percentage of women who received monetary benefits under the JSY scheme and when	113
Table 5.29:	,	111
Т-Ы- Г 20.	they received them	114
Table 5.30:	Percentage of women who delivered at a government health facility according to the	445
T.I. 5.04	help received from ASHA and the background characteristics	115
Table 5.31:	Percentage of women who delivered at a government health facility according to the	440 447
T.I. 500	help received from ASHA by States/UT	116-117
Table 5.32:	Percentage of women who delivered in the institution by the bed facility and counselling	
	received according to background characteristics	118
Table 5.33a:	Percentage of women who delivered in the institution according to the bed facility and	
	counselling received by States/UTs - Total	119
Table 5.33b:	Percentage of women who delivered in an institution according to the bed facility and	
	counselling received by States/UTs - Rural	120
Table 5.33c:	Percentage of women who delivered in an institution according to the bed facility and	
	counselling received by States/UTs - Urban	121
Table 5.34:	Percentage of women who delivered in health facility under JSY according to person	
	who made transport arrangement according to background characteristics	122
Table 5.35:	Percentage of women who delivered in health facility according to person who made	
	transport arrangement according to States/UTs	123
Table 5.36:	Newborn care availed by women who delivered at home during 12 months preceding the survey.	124
Table 5.37:	Percentage of women who delivered at home during 12 months preceding the survey by	
	care to the newborn perceived according to selected background characteristics	125
Table 5.38:	Percentage of women who delivered at home during 12 months preceding the survey	
	by childcare at the time of delivery according to States/UT	126
Table 5.39:	Percentage of women who delivered during 12 months preceding the survey according	
	to postnatal care, place of check up and type of care received	127-128
Table 5.40:	Percentage of newborns receiving postnatal care and type of care	129

Contents

Table 5.41:	Percentage of women who delivered during 12 months preceding the survey by knowledge	
	of danger signs for newborn according to background characteristics (prompted response)	130-131
Table 5.42:	Percentage of women who delivered during 12 months preceding the survey according	
	to knowledge of danger signs for newborn according to States/UTs (prompted response)	132
Figure 5.1:	Antenatal Care: Number of times care received	76
Figure 5.2:	Institutional Deliveries by Background Characteristics	90
Figure 5.3:	Place of Delivery	90
Figure 5.4:	Reasons for not delivering at institution	102
Map 5.1:	Full ANC	78
Map 5.2:	Skilled Birth Attendance	93
CHAPTER V	I BREASTFEEDING PRACTICES AND CHILD NUTRITION	
Table 6.1:	Percentage of children born during 12 months preceding the survey according to breast	
	feeding practices	134-135
Table 6.2:	Percentage of mothers who breast fed the child within one hour and one day of birth	
	and fed colostrum according to selected background characteristics	136-137
Table 6.3a:	Percentage of mothers who breastfed the child within one hour or one day of birth	
	and fed colostrum according to States/UT - Total	138
Table 6.3b:	Percentage of mothers who breastfed the child within one hour or one day of birth	
	and fed colostrum according to States/UT - Rural	140
Table 6.3c:	Percentage of mothers who breastfed the child within one hour or one day of birth	
	and fed colostrum according to States/UT - Urban	141
Table 6.4:	Percentage of children according to breastfeeding status and age	142
Table 6.5:	Median duration of exclusive breastfeeding to children born to mothers who	
	delivered during 12 months preceding the survey age below 12 months	143
Table 6.6:	Percentage of children below 2 year of age by the type of feeds received	
	during first 6 months of life according to background characteristics	144-145
Table 6.7:	Percentage of children by the type of feeds received during first 6 months	
	of life according to States and UTs	145-146
Table 6.8:	Percentage of infants according to the type of feeds received during first 6 months	
	of life and age of starting complementary feeding	147
Table 6.9:	Percentage of children age 12-23 months who received vitamin A according to	440.440
T-1-1- C 10-	selected background characteristics	
	Percentage of children age 12-23 months who received Vitamin A according to States/UT	
1able 6.11:	Percentage of households with iodine content of the common salt used for cooking	
	according to States and UTs - Total	152-153
Map 6.1:	Early Initiation of Breastfeeding	139
Map 6.2:	Vitamin A - First Dose	150
CHAPTER V	II CHILD MORBIDITY AND CARE SEEKING PRACTICES	
Table 7.1:	Percentage of children under two years who had diarrhoea during two weeks	
	preceding the survey by selected background characteristics	156-157
Table 7.2:	Percentage of children under 2 years who had diarrhoea during two weeks	
	preceding the survey by States/UT	158

Table 7.3:	Health seeking practices and treatment received by children less than 2 year	
	of age who had diarrhea according to selected background characteristics	160
Table 7.4:	Health seeking practices and treatment received by children less than 2 year of age	
	who had diarrhea according to States/UT	161
Table 7.5:	Percentage of children under 2 years who had diarrhoea in two weeks preceding	
	the survey by amount of breastfeeding and fluids offered	162
Table 7.6a:	Percentage of children under 2 years who had diarrhoea in two weeks preceding	
	the survey by amount of breastfeeding and fluids offered according to States/UTs - Total	163
Table 7.6b	Percentage of children under 2 years who had diarrhoea in two weeks preceding	
	the survey by amount of breastfeeding & fluids offered according to States/UTs - Rural	164
Table 7.6c:	Percentage of children under 2 years who had diarrhoea in two weeks preceding	
	the survey by amount of breast feeding and fluids offered according to States/UTs - Urban	165
Table 7.7:	Percentage of children under 2 years who had ARI during 2 weeks preceding the survey	
	and sought treatment from health facility or provider by selected background characteristics 166-	167
Table 7.8:	Percentage of children under 2 years who had ARI during 2 weeks preceding the survey	
	and sought treatment from health facility or provider by States/UTs	168
Table 7.9:	Percentage of children aged 12-23 months using bed-net by residence	169
Table 7.10:	Percentage of children age 12-23 months using bed-nets by States/UT169-	170
Map 7.1:	ORT or increased fluids for diarrhoea management	159

Acknowledgements

This report was made possible with the advice and contributions of many people, both inside and outside UNICEF.

We are grateful to the Ministry of Health and Family Welfare, Government of India for facilitating the CES 2009, constituting and convening the Technical Advisory Committee (TAC).

We are thankful to the TAC for providing oversight and coordinating various activities related to CES 2009 including survey design, sampling, survey methodology, questionnaires, quality assurance, tabulation plan, data analysis, final tabulation and data presentation. We acknowledge the contributions made by the following persons who attended the meetings of the TAC:

Dr. P. M. Kulkarni, Professor, Jawaharlal Nehru University - Chairperson Ms. Madhu Bala, Additional Director General (Statistics), MOHFW

Dr. Ratan Chand, Chief Director, Statistics, MOHFW

Dr. Rajesh Bhatia, Director (Statistics), MOHFW

Dr. Pradeep Haldar, Asst. Commissioner, (Immunization), MOHFW

Dr. Himanshu Bhushan, Asst. Commissioner (Maternal Health), MOHFW

Dr. Maneesha Malhotra, Asst. Commissioner (Maternal Health), MOHFW

Dr. Baya Kishore, Asst. Commissioner (Child Health) MOHFW

Mr. L. Ladusingh, International Institute of Population Sciences, Mumbai

Dr. Henri van den Hombergh, Chief, Health, UNICEF

Dr. Satish Gupta, UNICEF

Dr. Dhananjoy Gupta, UNICEF

Mr. R. G. Mitra, UNICEF

Mr. Shantanu Gupta, UNICEF

Dr. Pavitra Mohan, UNICEF

Representative from Central Statistics Organization Representative from National Sample Survey Organization Representatives from ORG Centre for Social Research

We extend the gratitude to the survey monitoring team led by the National Institute of Health and Family Welfare (NIHFW) in collaboration with Population Research Centres (PRC) under the technical guidance from Dr. Deoki Nandan, Dr. V. K. Tiwari, Dr. Pushpanjali Swain, Dr. P Deepak, Dr. M. Hemanta Meitiei. The field monitoring was performed by:

NIHFW Dr. M. Hemanta Meitei, Dr. Lam Khan Piang,

Dr. P. Deepak, Mr. Parimal Parya, Dr. Pradeep Kumar, Dr. V.K Tiwari, Dr. Pushpanjali Swain, Mr. S.P. Singh,

Dr. V.K. Srivastava

(King George Medical College, Lucknow)

AIIH&PH, Kolkata Dr. S.R. Karmakar, Dr. Lina

PRC, ISEC, Bangalore Mr. C. Yogananda, Dr. M. Lingaraju
PRC, Sagar Dr. Nikhilesh Parchure, Dr. Reena
PRC, Baroda Dr. Devamoni Dey, Mrs. Gayatri S. Desai
PRC, Bhubaneswar Dr. Kanakalata Devi, Mr. Satyanarayan Swain

Technical assistance and oversight for the survey was provided by UNICEF team that included: Dr. Dhananjoy Gupta, Dr. Pavitra Mohan, Dr. Henri van den Hombergh, Dr. R. G. Mitra, Mr. Shantanu Gupta, Dr. V. K. Anand, Dr. Satish Gupta, Ms Laila Iren Lochting, Ms. Kimberly Allen, and Dr. Mohamed Ayoya

The report was written by a UNICEF team comprising Dr. Dhananjoy Gupta, Dr. Pavitra Mohan, Mr. Parvesh K. Chopra

The report was reviewed by Dr. Henri, van den Hombergh, Dr. V. K. Anand, Ms Laila Iren Lochting, Mr. Shantanu Gupta and Dr. R. G. Mitra, and Mr. CVS Prasad

The concept, design, technical oversight for the National and State Fact sheets were provided by UNICEF team consisting of Dr. Dhananjoy Gupta, Dr. Pavitra Mohan, Dr. Henri van den Hombergh, Mr. Sharad Singh, Mr. Shantanu Gupta

The survey was conducted by ORG Centre for Social Research, New Delhi

The report was edited by Dr Brian Mark Mendonça, New Delhi

Funding for the survey was provided by IKEA Social Initiative

Graphic designing of the report and the fact sheets were carried out by Lopez Design, New Delhi

Printed at S. Narayan & Sons, New Delhi

Photo Credits for front page: UNICEF India Photo Archive

Acronyms

AD Auto Disable
ANC Ante Natal Care
ANM Auxiliary Mid-Wife
AP Andhra Pradesh
APL Above Poverty Line

ARI Acute Respiratory Infection

AS Asset Score

ASHA Accredited Social Health Activist

AW Anganwadi

AWC Anganwadi Centre AWW Anganwadi Worker

AYUSH Ayurveda, Yoga and Naturopathy,

Unani, Siddha and Homeopathy

BCG Bacille Calmette-Guérin

BP Blood Pressure
BPL Below Poverty Line

CBO Community Based Organization
CEB Census Enumeration Block
CES Coverage Evaluation Survey
CHC Community Health Centre

CS Can't Say

CSPro Census and Survey Processing System

DK Don't Know

DLHS District Level Household Survey
DPT Diphtheria, Pertussis and Tetanus
EPI Expanded Program of Immunization

Hep B Hepatitis B HH House Hold

HHAS House Hold Asset Score

HP Himachal Pradesh
HPS High Performing State
HPS High Performing State
HSC Health Sub-Centre
HW(M) Health Worker – Male

ICDS Integrated Child Development Scheme

IFA Iron and Folic Acid J&K Jammu and Kashmir **JSY** Janani Suraksha Yojana LHV Lady Health Visitor LPG Liquefied Petroleum Gas LPS Low Performing State LPS Low Performing State Maternal and Child Health MCH

MOHFW Ministry of Health and Family Welfare

MP Madhya Pradesh

NFHS National Family Health Survey NGO Non-Governmental Organization

NIHFW National Institute of Health and Family Welfare

NRHM National Rural Health Mission

OBC Other Backward Class
OPV Oral Polio Vaccine
ORS Oral Rehydration Salt
ORT Oral Rehydration Therapy
PHC Primary Health Centre

PNC Post Natal Care
PPC Post Partum Centre

PPS Probability Proportional to Size PRC Population Research Centre **PSU Primary Sampling Unit** RΙ **Routine Immunization** SBA Skilled Birth Attendant SC Scheduled Caste SD Standard Deviation ST Scheduled Tribe

TAC Technical advisory Committee
TBA Traditional Birth Attendant

TN Tamil Nadu
TT Tetanus Toxoid
TV Television

UFWC Urban Family Welfare Centre

UHC Urban Health Centre
UHP Urban Health Post

UIP Universal Immunization Program
UNICEF United Nations Children's Fund

UP Uttar Pradesh
UT Union Territory
WB West Bengal

Executive Summary

Promotion of maternal care and child health is one of the key goals of the Government of India. The Government of India launched the National Rural Health Mission (NHRM) in 2005 to improve health care for the rural population throughout the country with specific focus on 18 States which have weak public health indicators. NRHM seeks to improve the access for rural people, especially poor women and children, to equitable, affordable, accountable and effective primary health care. Maternal health care, promotion of institutional deliveries, home-based newborn care, integrated management of childhood illnesses (IMNCI) and routine immunizations are the key interventions under NRHM.

At the request of Government of India, UNICEF planned and conducted a coverage evaluation survey in 2009 (CES 2009) to assess the impact of NRHM strategies on coverage levels of maternal, newborn and child-health services including immunization among women and children. CES 2009 covered all the States and Union Territories of India and was undertaken with funding from IKEA Social Initiative.

ORG Centre for Social Research (ORG CSR) was entrusted to carry out the nation-wide survey. Towards this, ORG CSR was given responsibility for the development of survey design, research instruments, training, data collection, supervision of field work, data entry, analysis and report writing. Ministry of Health and Family Welfare, Government of India constituted a Technical Advisory Committee (TAC) to provide technical guidance on various activities related to CES 2009. This

included sampling, survey methodology, questionnaires, quality guidance, tabulation plan, data analysis and final tabulation data presentation. Data collection was monitored independently by the National Institute of Health and Family Welfare, New Delhi, in collaboration with Population Research Centers.

The field work was carried out between November 2009 and January 2010. The data was collected from 22,604 mothers/caretakers of children aged 12-23 months and 22,984 mothers who delivered during 12 months prior to the survey. Two bilingual questionnaires (in local language and English), one for mothers/care-givers of children aged 12-23 months and second for women who delivered during 12 months preceding the survey were used. Both the questionnaires had an initial section on the household profile. A separate questionnaire for village information was used to collect the information regarding village profile.

SURVEY DESIGN

The data for the CES 2009 was collected from mothers or care takers of child aged 12-23 months for child care services and from women who delivered during 12 months preceding the survey. Sample for each state was estimated to give results at 5% margin of error and 95% confidence interval. It was decided to have deep stratification that will make the samples more efficient and sampling biases get reduced considerably. Further, more sample was covered from bigger states. In each state, rural-urban sample was allocated in 60 to 40 ratios.

Sampling in Rural Areas

For selecting the sample in rural areas in a state, a two stage sampling procedure was followed i.e., selection of villages at the first stage followed by the selection of households. Further, in first stage, districts were grouped into regions considering geographical contiguity as per procedure followed in NFHS-3. The state rural sample was allocated to regions in proportion to their respective rural population sizes. All the villages in each geographical region were further stratified into three strata viz., villages with <50 households,

villages with 51-200 households and villages with more than 200 households. The number of PSUs in each region was allocated to each stratum in proportion to the total rural population in the region. In each region, the required number of villages was selected using PPS systematic random sampling procedure using '%SC/ST population' or '% female literacy', both as per 2001 Census, as implicit variables.

Sampling in Urban Areas

In each state all the towns were stratified in to five strata viz., metros, towns with more than 10 lakh population, towns with 5 lakh to 10 lakh population, towns with 1 lakh to 5 lakh population and towns with less than 1 lakh population. Total state urban sample was allocated to different strata in proportion to the urban population and in each stratum wards were selected using PPS systematic random sampling procedure. From each ward, one census enumeration block (CEB) was selected randomly.

Selection of Households

In each selected village/CEB complete listing of the households was done to identify households with children 12-23 months, households with mothers who delivered during last 12 months. In each village/CEB, 10 households with child age 12-23 months and 10 mothers who delivered in the last 12 months were selected using systematic random sampling procedure and from selected households all eligible mothers/care givers were interviewed.

PROFILE OF SAMPLED VILLAGES

More than four-fifths of the sampled villages were connected with all-weather roads and among the remaining villages, 32.1 percent with a motorable road. About 97 percent of the sampled villages had *Anganwadi* centres. Seventy-seven percent villages had at least one ASHA and 99 percent of the sampled villages had at least one health facility. About 95 percent villages had a primary government school and 36 percent had a middle school. Secondary/Higher secondary school existed in 34.2 percent of the villages. Ninety-seven percent of the villages had at least one education facility.

PROFILE OF SAMPLED HOUSEHOLDS

The mean household size¹ was 6.37 persons per household (6.48 in rural and 6.09 in urban areas). About 80 percent households were Hindu, 14.7 percent were Muslim and others religions were 5.3 percent. Twenty three percent of the household heads belonged to scheduled caste, 7.8 percent to scheduled tribes and 41.3 percent to Other Backwards Classes.

Data from questionnaires about housing conditions and possession of housing amenities such as improved source of drinking water; type of toilet facilities; fuel used for cooking; type of house; electricity; and household assets shows that for 47.7 percent of the households, the main source of drinking water was piped water. 40.9 percent used a hand pump and only 3.6 percent households depended on well-water. Seventy-three percent of the households had an electricity connection.

Around one-fourth of the households lived in *kachcha*² houses, 39.4 percent in *semi-pucca*³, and 35.7 percent lived in *pucca*⁴ houses.

Thirty-seven percent of the households used flush toilet facility and 16.7 percent pit latrine. Around 58.4 percent households in rural areas and 12.4 percent households in urban areas were without toilet facility and used open field for defecation.

Overall 52.8 percent of the households reported to have bank account/post office account. Around 37.6 percent of household had a BPL card (42.5 percent rural and 24.7 percent urban).

ROUTINE IMMUNIZATION

The vaccination of children against six preventable diseases viz., tuberculosis, diphtheria, pertussis,

tetanus, poliomyelitis and measles has been a cornerstone of child health care in India. As a part of the National Health Policy, the Universal Immunization Programme (UIP) is being implemented on a priority basis. The standard immunization schedule developed for the child immunization programme specifies the age at which each vaccine is to be administered and the number of doses to be given. Routine vaccinations received by infants and children are usually recorded on a vaccination card issued to a child. The analysis showed that 90.8 percent of the mothers received an immunization card for their children and 51.5 percent could show it to the interviewer.

At the all-India level, 61 percent of children aged 12-23 months received full immunization. The coverage of immunization was higher in urban areas (67.4 percent) compared to that in rural areas (58.5 percent). About 8 percent of the children did not receive even a single vaccine.

The analysis of the Hepatitis B coverage in Hep B implementing States shows that 70.7 percent of the children received the first injection of Hepatitis B. This percentage reduced to 58.9 percent for children who received all 3 injections of Hepatitis B.

Full immunization coverage was lower among children of illiterate mothers (45.3 percent) compared with children of mothers who had completed at least higher secondary (76.6 percent). Only 47.3 percent of children from lowest quintile households were fully immunized compared with 75.5 percent of children from highest quintile households.

To achieve universal immunization, it is important to understand at what stage children drop out from receiving all required vaccines. The analysis showed that 14.7 percent children who received BCG vaccine, did not get all vaccines till Measles. Around 17. 7 percent children dropped out between BCG and DPT3, 10.3 percent between DPT1 and Measles and 13.3 percent between DPT1 and DPT3.

Not representative of the general population since the households selected in survey had either at least one child of age 12-23 months or at least one woman who delivered a baby in the previous 12 months

² A kachcha is a building made of natural materials such a mud, grass, bamboo, thatch or sticks and is therefore a short-lived structure

³ A combination of the kachcha and pucca style

⁴ A pucca is a structure made from materials resistant to wear, such as forms of stone or brick, mortar, cement, clay tiles, metal or other durable materials

Higher drop-out rate from BCG to Measles was observed in States such as Uttar Pradesh (30.9 percent), Bihar (29.3 percent), Arunachal Pradesh (27.0 percent), Madhya Pradesh (24.0 percent), Jharkhand (22.8 percent) and Rajasthan (20.6 percent). The drop-out rate was low in Goa (1.3 percent), Himachal Pradesh (2.2 percent), Maharashtra (3.7 percent), Sikkim (0.1 percent) and Tamil Nadu (0.6 percent).

As per the immunization schedule, a child should get the booster dose of DPT and OPV between the ages of 16-24 months. The coverage of children by booster dose of DPT and OPV was analysed among children aged 18-23 months. About 41 percent of children received the booster dose of DPT and 37.9 percent received the booster dose of OPV.

Place of Immunization

The public sector was reported as the prime service provider for childhood vaccinations (89.8 percent). Private sector contributed to 8.7 percent of immunizations.

Nearly 53 percent of the children received vaccination from outreach vaccination sites such as *anganwadi* centre (25.6 percent), subcentre (18.9 percent) and other places in villages (9.4 percent).

On the other hand, 49.4 percent children between the ages of 12-23 months in Bihar, 73.2 percent in Chhattisgarh, 64.9 percent in Jharkhand, 55.7 percent in Madhya Pradesh and 52.8 percent in Orissa received vaccinations at *anganwadi* centers. More children in Delhi (28.3 percent), Kerala (21 percent) and Tamil Nadu (20 percent) went to the private sector for immunization.

Distance Travelled and Time Taken for Child's Immunization

Around 44 percent of mothers travelled less than one kilometer while 39 percent traveled 1-3 kilometers to vaccinate their child. Only 17 percent of mothers reportedly travelled beyond 3 kilometers for their child's vaccination. More than 75 percent of mothers took less than 20 minutes to reach the place of immunization. The average distance travelled by a mother to reach the place of immunization was 2.2 kilometers and the average time taken was 18 minutes.

Use of Safe Injection

The national policy prescribes one auto-disabled syringe (AD syringe) to be used per immunization. Data indicates that in almost all the States both at government health facility and at outreach centres, a large majority of the children were vaccinated using safe injection or AD syringes.

Reasons for Non-Immunization

Around 28 percent of mothers, whose child received partial or no immunization, did not feel the need of adhering to the schedule of immunization. Twenty six percent did not know what vaccines were needed and when; and about 10.8 percent did not know the place of immunization.

MATERNAL CARE SERVICES

Registration of Pregnancy

Overall, 91.9 percent of mothers registered their last pregnancy. The majority of women registered their pregnancy with government health functionaries such as a government doctor (38.7 percent), ANM (14.8 percent) and an *anganwadi* worker (14.9 percent).

Antenatal Care

At the all-India level, 90.4 percent of the recently-delivered women received at least one antenatal check-up during the last pregnancy and 68.7 percent women received three or more check-ups during the antenatal period. The proportion of women who received at least one antenatal check-up was higher in urban areas (95.8 percent) as compared to rural areas (88.3 percent).

Around 59 percent women received the first antenatal check-up in the first trimester. The public sector was the main source for receiving antenatal care services - 34.4 percent women got an ANC check-up done at government hospital, 12.8 percent in a sub-centre, 10.8 percent in a PHC, and 11.1 percent in an *anganwadi* centre.

More than 70 percent women reported that their weight was taken, blood pressure was checked, blood and urine were tested, abdomen and breast examined and that they received nutritional advice.

Around 81 percent women in India reported to have received IFA tablets or syrup during the last pregnancy. The percentage of women receiving IFA supplements was comparatively higher in urban (86.1 percent) than rural areas (79.6 percent). About 36 percent mothers received 100 tablets or syrup for 3 months and 31 percent consumed tablets or syrup for 100 or more days.

At the national level, 26.5 percent women received full ANC⁵. The proportion of women with full ANC was more in urban (36.1 percent) than rural (22.8 percent) areas. It increased with the increase in educational level of women from 12.0 percent for illiterates to 50.5 percent for women who had passed at least senior secondary, and from the lowest wealth quintile (11.5 percent) to the highest (47.4 percent).

Accessibility of ANC Services

The nearest source for antenatal care services was government hospital at district/block level for around one-fourth of the women. About 21.3 percent reported the PHC and 20.0 percent the subcentre as the nearest place for ANC while another 22.0 percent women reported private doctor/clinic as the nearest place. More women in urban areas reported government and private hospital/clinic as the nearest source, than rural women.

One-third of the women reported a facility within one kilometre from their place of residence, and another 31.0 percent reported the facility within 1-2 kilometres. Around two-thirds of the women reported that it took less than 20 minutes to reach the facility for getting antenatal services.

Complications during Pregnancy

About 71.8 percent of the women faced at least one complication during pregnancy. The most common complications were giddiness/paleness (37.6 percent), swelling of face/feet (29.4 percent), excessive fatigue (25.4 percent), excessive vomiting (28.1 percent), visual disturbances (12.5 percent) and weak or no movement of foetus (10.8 percent).

Most women who faced any complication during their pregnancy consulted private doctors (54.0

percent). Others consulted government doctors (29.4 percent) and PHC (8.0 percent). About 33 percent women reportedly did not consult anybody. A comparatively higher percentage of women in rural areas (35.6 percent) did not consult anyone for complications than urban women (25.9 percent).

NATAL CARE

Place of delivery and Assistance during delivery

Overall 72.9 percent of births took place in some institution. Forty-seven percent of women delivered in public institutions such as a government hospital, PHC, CHC/rural Hospital, sub-centre as compared to 25.9 percent in a private hospital or a clinic. About 76.2 percent of the deliveries were reportedly attended by skilled health personnel.

Nearly 55.9 percent of women were motivated by their husbands or another family member to opt for institutional delivery; 48.1 percent by a skilled birth attendant; 29.5 percent by doctors; and 27.7 percent by relatives or friends. 13.8 percent of the women reported that ASHA motivated them for institution delivery.

Based on mothers' reports, almost 83.6 percent deliveries (87.5 percent in rural areas and 73.5 percent in urban areas) were normal and 15.1 percent were caesarean section. The proportion of caesarean section deliveries reported by mothers was much higher in urban areas (24.3 percent) than in rural areas (11.5 percent).

Mode of Transport, Transport Cost and Delivery Cost

Nearly 37.4 percent women used either ambulance or jeep/car to reach the health facility for delivery; 7.5 percent travelled by motor-cycle or scooter and 34.1 percent used tempo/auto/tractor to reach the health facility. Rural women reportedly travelled an average of 11.2 km. and urban women only 4.9 km. to reach the place of delivery.

⁵ Full ANC: when a woman receives all these services such as 3+ antenatal care checkups, 1+ tetanus toxoid injection and consumes 100+ iron and folic acid tablets during pregnancy

The mean transport cost for delivery was Rs. 192/. It was Rs. 243/- in rural areas and Rs. 140/- in urban areas.

Duration of Stay after Delivery

Among the women who had normal or assisted delivery, 20.2 and 20.1 percent respectively were discharged after 2 and 3 days and another 14.6 percent after 4 days of delivery. About 45 percent women stayed for less than required duration (that is at least 48 hours after the delivery) at the health facility.

About 82 percent of the women who had caesarean delivery stayed for 4 or more days in the health facility.

Women in low-performing States stayed at the health facility for a relatively longer period as compared to women in high-performing States. For instance, in low-performing States, 52.9 percent of the women with normal delivery/ assisted delivery were discharged after 48 hours as compared to 42.6 percent in high- performing States.

Reasons for Not Going to a Health Institution for Delivery

The main reasons for not delivering in an institution were 'no time to go' (40.6 percent), 'it was not necessary' (24.6 percent), 'better care at home' (20.1 percent) and 'costs too much' (17.9 percent). The 'family did not allow' was reported by 10.3 percent of the women.

LEVEL OF AWARENESS AND UTILIZATION OF JANANI SURAKSHA YOJANA

Sixty percent of the women were aware of the *Janani Suraksha Yojana (JSY)*⁶ scheme. Awareness of the JSY scheme was better among women from BPL families (64.3 percent) than APL families (57.5 percent). The scheduled caste and scheduled tribe women had better awareness of the scheme than OBC and women of general caste.

Under NRHM, more focus is given to States where maternal and infant mortality is high. Awareness about JSY was slightly high among women from high-performing States (61.1 percent) as compared to those from low-performing States (58.9 percent).

Nearly one-third of women reported that they had received some assistance during the last delivery. A higher proportion of women in rural areas (35.5 percent) received government assistance as compared to women in urban areas (24.7 percent). Around 59.3 percent women who delivered in government institutions received assistance under JSY. Significantly higher percent of women from low-performing States (40.0 percent) received JSY assistance as compared to women from high-performing States (25.5 percent).

More scheduled caste and scheduled tribe women, women from BPL families, and those from lowest wealth quintile households received government assistance than their counterparts.

Assistance Received from ASHA

Besides facilitating women's antenatal check-ups, the ASHA should help to arrange transport for the pregnant women and accompany her to the health facility.

Thirty percent of the women reported that ASHA accompanied her to the health facility for delivery and 26.7 percent further reported that ASHA stayed back with them at the health institution.

ASHA accompanied 54.3 percent of women who delivered in government institutions, in low-performing States, In 49.1 percent cases she stayed with the women. On the other hand, in the high-performing States, ASHA accompanied women only in 11.2 percent and she stayed at the health facility in 8.9 percent cases.

Post Natal Care for Mothers

Nearly three-fifths of the women reported receiving a postnatal check-up within the first 10 days of delivery. Around 21.6 percent women received at least 4 check-ups; another 8.6 percent received 3 check-ups in 3-7 days of delivery.

⁶ Janani Suraksha Yojana is a cash incentive given to women for institutional delivery by Government of India under National Rural Health Mission. For more information see JSY guidelines at www.mohfw.nic.in/layout_09-06.pdf

Around 56 percent of the women received a postnatal check-up in a public health facility and another 38 percent women received them at a private facility.

During these visits, women received services such as abdomen check-up (85.5 percent), blood pressure check (75.3 percent) and vulva and perineum examination (55.3 percent). In addition, the women were also advised on breastfeeding practice (78.0 percent), child care (75.0 percent), nutrition (71.9 percent) and family planning (55.0 percent).

NEWBORN CARE

Post Natal Care for New Born

Around two-thirds of new-born children received post-natal check-ups and 45.4 percent received at least 3 postnatal check-ups within 10 days after birth. During the visit, the child's umbilicus, skin and eyes were checked (86.4 percent), and the mother was advised on breastfeeding practices (79.6 percent) and to keep the baby warm (62.5 percent).

Public medical sector (56.7 percent) was the main service provider of postnatal check-ups.

CHILD NUTRITION

Breastfeeding practices

Around one-third of total mothers reported that they started breastfeeding the child within one hour of birth and 24.2 percent began breastfeeding within 1-2 hours after delivery. 73.1 percent women started breastfeeding their children within one day of birth.

Nearly 85 percent of women fed colostrum to their child. Colostrum feeding was practised slightly more by women of urban areas (87.2 percent) than those from rural areas (84.6 percent).

Among those who did nor feed colostrum, twofifths of the mothers did not do so due to pressure of their relatives, misconception (17.1 percent) or they were advised not to feed colostrum for first three days (10.1 percent).

Women, who belonged to a younger age group, higher education, and from higher wealth quintile, were more likely to start breastfeeding within 24 hours of birth, and feed colostrum to the child, as compared to their counterparts.

Around 81 percent of infants of less age than 2 months were exclusively breast fed. Thereafter, exclusive breast feeding rates declined rapidly and only 37 percent of children in 6-9 months of age group were exclusively breast fed. The median duration of exclusive breastfeeding was 3.8 months.

About 40.7 percent of mothers started giving water to the child before 6 months of age; 28.1 percent gave other animal milk and 12.2 percent of the mothers started with other supplements.

Feeding Practices

After six months of age, the introduction of complementary food is important for meeting the protein, energy, and micronutrient needs of the child. When the child became more than 6 months of age, about 44.9 percent of mothers started giving other fluids like juice; another 62.6 percent started with semi-solid food and 41.8 percent with solid foods.

Vitamin A Coverage

Around two-thirds of children between 12-23 months received at least one dose of Vitamin A and 59.4 percent had received it within the past six months.

Children living in urban areas, children of more educated mothers and children of higher wealth quintile households were more likely than other children to receive Vitamin A supplementation.

Use of lodized Salt

Nearly 71 percent of the cooking salt (obtained from the household during the survey and tested) was iodized at the recommended level of 15 ppm⁷ or more. In 9.3 percent of the households the cooking salt was not iodised at all and 19.3 percent used salt that was iodised inadequately (<15 ppm).

More urban households (83.2 percent) had adequately iodized salt (with 15 ppm or more iodine content) as compared to rural households (66.1 percent).

The use of iodized salt was high in north-eastern States and in States of Delhi, Goa, Haryana, Himachal Pradesh, J&K, Punjab and all UTs ranging from 80 percent to 94 percent. In States like Karnataka, Andhra Pradesh, Tamil Nadu, Uttar Pradesh, Orissa, and Jharkhand, use of non-iodised salt seemed more, as common compared to other States.

CHILD MORBIDITY

Management of Childhood Diarrhoea

Around 15.5 percent of the children had suffered from diarrhoea during two weeks preceding the survey. Mother's education, wealth index and type of sanitation facility used, influenced the prevalence of diarrhoea. Prevalence of diarrhoea during 2 weeks preceding the survey varied across States. It ranged from 4.8 percent in Sikkim to 26.2 percent in Karnataka.

Treatment-seeking behaviour shows that 76.1 percent children who suffered from diarrhoea during 2 weeks preceding the survey, received advice/treatment. Comparatively more children (48.4 percent) received advice/treatment from a private health facility/provider than a government health facility/provider (20.9 percent).

Nearly 43 percent of the mothers, whose children suffered from diarrhoea during the two weeks

preceding the survey, gave ORS to their children. Harmful practices were still prevalent during management of child hood diarrhea such as providing less than the normal breast milk (30.2 percent) or giving less fluid to drink (34.5 percent).

Management of Acute Respiratory Infection among Children

Acute Respiratory Infection (ARI), primarily pneumonia, is one of the leading causes of childhood morbidity and mortality. Early diagnosis and treatment can prevent a large proportion of ARI related deaths. 18.8 percent of children below 2 years reportedly suffered from ARI symptoms.

ARI symptoms were more common among children from households with the lowest wealth quintile (20.7 percent) than households with the highest wealth quintile (16.5 percent).

Around 83 percent of children who had ARI symptoms were taken to a health facility or health provider for treatment. More children were taken to a private health facility/provider (63.4 percent) than government health facility/provider (21.1 percent).

Use of Bed-nets Among Children

Only 28.5 percent of the households of children between the ages of 12-23 months had a bednet and 22 percent of the mothers/care givers reported that the index child slept under it all seven days. Use of bed-nets was found to be more than 85 percent (for all 7 days of the week) in malaria endemic States such as Arunachal Pradesh, Assam, Manipur, Mizoram, Tripura and West Bengal.

Chapter 1

<u>Introduction</u>

1.1 BACKGROUND OF THE STUDY

Promotion of maternal care and child health is one of the key objectives of the Reproductive and Child Health (RCH) Programme and the National Rural Health Mission (NRHM) in India. The Government of India is making concerted efforts in improving the quality and access of maternal, newborn and child care as well as immunisation services.

The National Rural Health Mission (NRHM) was launched by the Government of India on April 12, 2005, with a vision to improve health care for the rural population throughout the country. Its special focus was on 18 States which have weak public health indicators. The 18 high-focus States are Uttar Pradesh, Bihar, Rajasthan, Madhya Pradesh, Orissa, Uttaranchal, Jharkhand, Chhattisgarh, Assam, Sikkim, Arunachal Pradesh, Manipur, Meghalaya, Tripura, Nagaland, Mizoram, Himachal Pradesh and Jammu & Kashmir. All 8 North-East States, are among the States selected under the Mission, for special focus.

Among its other goals, NRHM seeks to improve the access of rural people, especially poor women and children, to equitable, affordable, accountable and effective primary health care. Maternal reproductive health care, promotion of institutional deliveries and routine immunizations are the key interventions of NRHM.

To realize its vision, NRHM has as its key components, provision of a female Accredited Social Health Activist

(ASHA) in each village; a village health plan prepared through a local team headed by the Village Health & Sanitation Committee (VHSC) with adequate support from the Panchayat; strengthening of the rural health facilities for effective preventive-curative care through Indian Public Health Standards (IPHS); and integration of vertical Health & Family Welfare Programmes and Funds, for optimal utilization of resources, infrastructure and strengthening delivery of primary healthcare.

NRHM also envisages improved facilities for institutional delivery through provision of referral, transport, escort and improved hospital care subsidized under the *Janani Suraksha Yojana* (JSY) for the Below Poverty Line (BPL) families.

The specific outputs of the Reproductive and Child Health (RCH) program (Phase II), within the overall umbrella of NRHM, contribute to the longer term goals of reducing maternal and infant mortality rates and stabilizing the population. They include:

- Increased contraceptive use by eligible couples
- Reduced unmet need for birth spacing
 Increased use of skilled care during childbirth
- Improved postnatal and newborn care
- Better access to emergency obstetric services and care of sick children
- Improved coverage for childhood immunization

At the request of the Government of India, UNICEF has been conducting a Coverage Evaluation Surveys (CES) every year since 1995 (except during 2002-04) to assess the key indicators related to the Universal Immunisation Program and maternal care services.

UNICEF organised a coverage evaluation survey in 2009 (CES 2009) to assess the utilisation of maternal, newborn and child health services including immunisation. The Coverage Evaluation Survey 2009 -- a nationwide survey covering all the States and Union Territories of India – was undertaken with the funding from IKEA Social Initiative.

1.2 OBJECTIVES OF THE EVALUATION

The basic objective of CES 2009 was to assess the maternal and child health coverage including routine immunisation levels among women and children.

The specific objectives of the survey were:

- To assess routine immunisation (RI)
- To assess the level of coverage of antenatal care (ANC), delivery care, and post-natal care (PNC)
- To assess accessibility, availability and utilization of immunisation and maternal care services including JSY
- To identify key problems in a) delivery of immunisation, b) ANC, c) delivery care and d)
 PNC services
- To assess the care-seeking behaviour for key child morbidities ARI and diarrhoea
- To assess the initiation of breastfeeding, exclusive breast-feeding and complementary feeding
- To assess availability and use of iodised salt;
 Vitamin A coverage
- To assess the utilisation of bed-nets by pregnant women and children

ORG Centre for Social Research (ORG CSR) was entrusted to carry out the nation-wide survey and was responsible for the development of survey design, research instruments, training, data collection, supervision of field work, data entry, analysis and report writing.

The Ministry of Health and Family Welfare, Government of India constituted a Technical Advisory Committee (TAC) to provide technical guidance on various activities related to CES 2009. This included sampling, survey methodology, questionnaires, quality guidance, tabulation plan, data analysis and final tabulation data presentation. The data collection was monitored independently by the National Institute of Health and Family Welfare, New Delhi, in collaboration with Population Research Centers (PRC).

CES 2009 was conducted between November 2009 and January 2010 covering all States and Union Territories.

1.3 WHAT CHANGED IN CES 2009

UNICEF had been conducting the CES in the past. A conscious effort was made to align the survey with the other large surveys and improve the quality and reliability of the estimates. The following were the major changes in the CES 2009 when compared to previous CES by UNICEF:

- A Technical Advisory Committee was set up by the MOHFW, Government of India to advise and provide technical oversight to the CES 2009.
- The sampling design was adapted to the PPS sampling method to allow for efficient selection of small villages/habitations.
- The questionnaires were reframed to align with the DLHS3/NFHS3 so that the indicators and coverage estimates are comparable with these surveys.
- Questionnaires were oriented with the current health programming in RCH-II and NRHM to include key initiatives such as JSY
- Knowledge questions were replaced with practice questions resulting in information on current practices on maternal and child health
- 6. While retaining the immunization focus, the maternal and child health portions were expanded.
- Indicator list was revised and expanded to include indicators that are useful for monitoring of the maternal and child health programming.
- 8. Presentation of National and State data, in the form of fact sheets, were developed

1.4 TIME TAKEN FOR PLANNING AND IMPLEMENTATION OF SURVEY

The planning for CES 2009 began towards the end of 2008 and the entire process was completed in December 2010. The various steps undertaken for this survey were - advocacy, survey designing, review and firming survey methodology, updating and revision of questionnaires, technical advisory meetings with the TAC, trainings, monitoring, data collection, finalizing list of indicators, data analysis, tabulation, data cleaning, quality assurance, data presentation, conceptualization and designing/ layout of fact sheets and report, report writing, editing, printing and finally the dissemination of the reports and fact sheets.

1.5 RESOURCES USED FOR CES 2009

The approximate expenditure on the entire survey was US\$ 385,6008 that was spent over 26 months. The breakup is given below:

Cost Centers	Approximate Cost in Indian Rupees
Agency fee for conducting survey	1,30,00,000
Independent monitoring	30,00,000
UNICEF cost (staff time, meetings and administrative expenses)	12,00,000
Report/fact sheet design and layout	20,00,000
Printing	6,00,000
Launch and dissemination	2,50,000
Total	1,73,50,000

Chapter 2

Methodology

2.1 SURVEY DESIGN AND SAMPLE IMPLEMENTATION

Study Universe

All children aged 12-23 months and women who delivered during 12 months preceding the survey in the urban and rural areas in the country formed the two universes of the study.

Target respondents

The information was collected from the following target respondents:

- Mothers/care givers of children aged 12-23 months
- Women who delivered during 12 months preceding the survey

Survey instruments

For each of the above respondent categories, separate questionnaires were prepared to gather the information required for the study:

- a. Questionnaire for routine immunisation coverage of children aged 12-23 months
- Duestionnaire for maternal care services of mothers who delivered during 12 months preceding the survey
- c. Village information questionnaire

While developing the questionnaire, the questions used in the CES-2006 as well as NFHS-3/DLHS-3 were consulted to increase comparability. The draft questionnaires were vetted by UNICEF, Technical Advisory Committee and the Government of India for comments. The revised questionnaires were pre-tested to check the flow of questions and necessary skips and filters. Based on the pre-

test results, the questionnaires were then modified. The modified questionnaires were examined and approved by UNICEF. The finalised questionnaires were translated into local languages.

Bilingual questionnaires in the local language and in English were used. Both the questionnaires had an initial section on the profile of the household. This section included information on usual members in the household, the main source of drinking water, type of toilet facility, type of fuel they used for cooking, household assets and durable goods, type of the house they lived in and ownership of the house and agriculture land. Information was also collected on whether any household member had a bank/post office account and BPL status of the household. In addition, in all sampled households, a test was conducted to assess the iodine content of the salt used for cooking.

The other sections in both the questionnaires were specific to the respondent category.

Child Immunization Coverage Questionnaire

- Background characteristics included respondent's age, education status, number of deliveries, live births and living children and use of insecticide treated bed-nets.
- Issue of immunization card questions covered issue and availability of immunization card, source of the card, completeness of the card and reasons for not getting the card made for the index child.
- Routine immunization coverage questions included coverage by different antigens and age at which these vaccinations were given, source of vaccination, use of disposable/Auto Disable (AD) syringe and reasons for no or partial immunisation.
- Exclusive and supplementary feeding practices questions included the length of exclusive breastfeeding and colostrum feeding and type of food given in the first 6 months and age at which supplementary feed started.
- Knowledge and awareness of immunizations questions covered knowledge of different vaccines given to the child by age 1, number of doses and age at which first dose is given, knowledge of source of vaccination and perceived importance of vaccinating a child.
- Accessibility of immunization services covered availability and accessibility to the nearest place for immunisation, ANM's visit to the village/

area, holding routine immunisation sessions and their satisfaction with immunisation sessions.

Maternal Care Services Questionnaire

- Background of the respondent included respondent's age, education status, number of deliveries, live births and living children, outcome of the last pregnancy and use of treated bed-net.
- Antenatal care section collected information on registration of pregnancy, time of registration, number of ANCs received, type of check-ups done, receipt of tetanus toxoid (TT) and iron and folic acid (IFA) tablets, place of getting these services and source of information.
- Complications during pregnancy: included questions on knowledge of complications during pregnancy and place of treatment, complications faced during index pregnancy and place of treatment.
- Natal care included questions regarding place of delivery, assistance during delivery, use of Disposable Delivery Kit (DDK), nature of complications during last delivery.
- Postnatal care questions were asked on birth preparedness, post-natal care and type of checkups done for mothers and newborns during post -natal visit.
- Breast feeding practices questions included initiation of breast feeding and colostrum feeding, breast feeding practices during fever, cough and diarrhoea.
- Janani Suraksha Yojana (JSY): Aspects elicited on included awareness of JSY scheme, assistance received under JSY scheme, transport arrangements and help provided by ASHA.
- Accessibility of maternal services covers issues on availability and accessibility of nearest place for ANC, ANM's visit to the village/area and type of services she gives.

Village Questionnaire

Village information was collected for each selected village. The village questionnaire collected information on road connectivity, health and education facilities and amenities such as electricity, drinking water, telephone, and post office.

Sample Size Calculation

The study was designed to provide State and national level estimates. While calculating the State sample, key indicators such as proportion of 12-23 month old-children fully immunized, percentage of

women with 3 ANC visits, and percentage delivery by skilled birth attendant (SBA) were considered to be studied at State level. The assumption was made that the minimum sample size required at State level should be able to estimate the true value with 5 percent margin of error at 95 percent confidence level. The true value of a given indicator was assumed at 50 percent in a given State and a design effect of 1.5. An expression for the required sample for a given State/UT is given below.

$$n = D*z^2_{1-\infty/2} * P * (1-P)/d^2$$

Where,

n = the required sample size

 $Z_{1-\alpha/2}$ = The Z - score corresponding to $'_{\alpha}$ ' level

of confidence, i.e., ± 1.96 d = the permissible margin of error

in the estimate (5 percent)

P = the assumed value of the indicator (50 percent)

D= Design Effect (1.5)

Using the above formula, the minimum sample required for urban or rural areas was 576 each for children aged 12-23 months or mothers who delivered the last 12 months. The sample for some States was further increased to take care of variations in the States due to the size and heterogeneity of the population.

In each Primary Sampling Unit (PSU) - village/census enumeration block (CEB) - on an average, a sample of 10 mothers of children 12-23 months and 10 women who delivered during last 12 months were fixed in order to have a good spread of the PSUs in a State. Based on this assumption the number of PSUs in each State was calculated.

Sampling Design

In rural areas of each State a two/three stage stratified sampling design was used with villages as the first stage units and the respondent categories as the second stage units. In bigger villages, the PSUs were segmented and two segments were selected adding one more stage of sampling. In urban areas of each State three stage sampling design was followed with wards as the first stage units and enumeration blocks and respondents as the second and third stage units.

Sample Allocation and Sampling in Rural Areas

All the districts in a State were grouped into regions considering geographical contiguity as per procedure

followed in NFHS-3. The State rural sample size was allocated to regions in proportion to their respective rural population sizes. All the villages in each geographical region were further stratified into three strata viz., villages with less than 50 households, villages with 51-200 households and villages with more than 200 households. The number of PSUs in each region was allocated to each stratum in proportion to the total rural population in the region. In each region, the required number of villages was selected using probability proportion to size (PPS) systematic random sampling procedure using '%SC/ST population' or '% female literacy', both as per 2001 Census, as implicit variables of stratification.

Sample Allocation and Sampling in Urban Areas

In each State all the towns were stratified into five strata viz., metros/towns with less than 1 lakh population, towns with 1-5 lakh population, towns with 5-10 lakh population and towns with more than 10 lakh population. Total State urban sample was allocated to different strata in proportion to the urban population and in each stratum; wards of all the towns belonging to that stratum were selected using PPS systematic random sampling procedure. Town selection was avoided to increase efficiency of sampling. From each ward, one census enumeration block (CEB) was selected randomly.

Selection of Households

In each selected village/CEB complete listing of the households was done. Based on the listing of households, two sampling frames were prepared, viz. (1) list of households with mothers of child 12 – 23 month old and (2) households with mothers who delivered during 12 months preceding the survey. In each village/CEB, 10 households with child age 12-23 months and 10 households with mothers who delivered in the last 12 months were selected using systematic random sampling procedure using these sampling frames respectively. All eligible mothers/care givers were interviewed from the selected households.

Sample Implementation

In the selected households, interviews were completed with 22,604 mothers/care givers of children aged 12-23 months. 22,984 women who delivered during the last 12 months were interviewed. In both the categories more than half of the respondents were from the rural areas. Table 2.1 shows the States/UT-wise sample covered for both categories of respondents.

Children aged 12-23 months Women Recently Delivered**								ed**
States/UTs	Rural	Urban	Total	RR*	Rural	Urban	Total	RR*
Andhra Pradesh	537	350	887	88.7	545	351	896	89.6
Arunachal Pradesh	353	232	585	97.5	347	222	569	94.8
Assam	539	336	875	95.1	538	343	881	95.8
Bihar	628	427	1055	87.9	642	424	1066	88.8
Chhattisgarh	261	261	522	87.0	272	261	533	88.8
Delhi	59	526	585	97.5	58	531	589	98.2
Goa	261	273	534	89.0	266	277	543	90.5
Gujarat	462	324	786	87.3	469	331	800	88.9
Haryana	335	299	634	99.1	337	302	639	99.8
Himachal Pradesh	275	272	547	91.2	286	277	563	93.8
Jammu & Kashmir	320	300	620	96.9	321	301	622	97.2
Jharkhand	374	261	635	90.7	371	266	637	91.0
Karnataka	433	318	751	89.4	466	323	789	93.9
Kerala	473	287	760	90.5	500	332	832	99.0
Madhya Pradesh	623	417	1040	86.7	626	420	1046	87.2
Maharashtra	624	396	1020	87.9	603	401	1004	86.6
Manipur	364	266	630	100.0	365	264	629	100.0
Meghalaya	344	242	586	97.7	341	240	581	96.8
Mizoram	366	258	624	100.0	359	260	619	99.8
Nagaland	360	281	641	100.0	359	280	639	99.8
Orissa	559	330	889	88.9	590	357	947	94.7
Punjab	301	269	570	89.1	314	269	583	91.1
Rajasthan	526	368	894	89.4	553	355	908	90.8
Sikkim	337	198	535	89.2	329	208	537	89.5
Tamil Nadu	652	416	1068	89.0	667	437	1104	92.0
Tripura	360	243	603	100.0	360	240	600	100.0
Uttar Pradesh	672	440	1112	92.7	687	448	1135	94.6
Uttarakhand	292	284	576	96.0	294	286	580	96.7
West Bengal	501	326	827	89.9	518	320	838	91.1
Andaman & Nicobar	94	75	169	84.5	101	82	183	91.5
Islands Chandigarh	57	135	192	96.0	60	127	187	93.5
Dadra & Nagar Haveli	71	109	180	90.0	71	109	180	90.0
Daman & Diu	54	115	169	84.5	56	136	192	96.0
Lakshadweep	72	74	146	91.3	77	71	148	92.5
Puducherry	96	261	357	89.3	101	284	385	96.3
Total	12635	9969	22604	91.6	12849	10135	22984	93.2

^{*} RR: Response Rate = (Number interviewed/Target sample) * 100
** Women recently delivered: Women who delivered during 12 months preceding the survey

2.2 RECRUITMENT, TRAINING AND FIELDWORK

The recruitment for listing teams and the main survey teams was done at the State level. Field executives of the respective States recruited candidates primarily from a panel of interviewers and supervisors experienced in conducting surveys in social research.

In order to maintain uniform survey procedures across States, two instruction manuals - one for listers and the other for main survey teams - were prepared. The listing manual contained procedures to be adopted for house listing and modalities of asking the information required to develop sampling frames. The interviewer's manual contained instructions for the interviewers regarding interviewing techniques, field procedures, and the method of asking questions and recording answers. Besides, the second manual explained the concepts and purpose of asking specific questions pertaining to critical indicators.

Field executives from all the States, core study team members and representatives from NIHFW & PRCs (for the purpose of monitoring of data collection) were trained in a Training of Trainers workshop organized in Delhi. The purpose of this workshop was to ensure uniform procedures to be followed for data collection in all States/ UTs. The workshop covered subjects like survey methodology, reporting structure, procedures to be followed, details of each of the three questionnaires and listing form and supervision. UNICEF representatives also participated in the Training of Trainers workshop and gave PowerPoint presentations to the participants on various aspects related to immunisation, maternal care and the importance of the study.

Fieldwork in each State was carried out by a number of interviewing teams, with each team consisting of four female interviewers and one male supervisor. These interviewers were recruited, taking into consideration their educational background, experience and other relevant qualifications. In each State three days training was given to the field staff. Training of interviewers consisted of a combination of classroom training and a field visit.

All queries were written down and clarified in order to avoid mistakes during actual interviews. A mock interview was also conducted. After the classroom training, the interviewers also practiced interviewing mothers during field trials. The field supervisor played an important role in training and ensuring the quality of data. They spot checked the addresses of the selected units interviewed, reviewed the questionnaires for completeness and consistency, met the team members daily to review the performance, and helped in solving any problems that arose during the interviews and fieldwork.

During the data collection and administration of questionnaires, the common salt used for cooking in that house hold was obtained to test the iodine content. The salt-iodine test kit, produced by MBI chemicals, Chennai (India), is a starch-based test. Test instructions suggested by the manufacturer of the kit were followed in this survey. According to the manufacturer's instructions, the test can be used semi quantitatively to measure iodine in salt at 0, 7, 15, and >30 ppm9, depending on the intensity of the colour obtained. If the test showed "no iodine" on the first testing, the test solution was added again after acidifying the salt sample with re-check solution. This was required to neutralize the presence of alkali in the salt. If the test showed "no iodine" when tested for a second time, this was taken as the true test result.

2.3 DATA PROCESSING AND ANALYSIS

Completed questionnaires were sent to the selected field offices for data processing, which consisted of office editing, coding open-ended questions, data entry, and machine editing. The data entry of filled-in questionnaires was done using CsPro (Census & Survey Processing System) with in-built range and consistency checks.

The tabulation plan was prepared and submitted to UNICEF and the Government of India for their comments and suggestions. Based on the comments received from UNICEF the tabulation plan was finalised. The required tables were generated using Statistical Package for Social Studies (SPSS). All major indicators such as

immunisation, vitamin A coverage, antenatal care, tetanus toxoid and Iron and Folic Acid (IFA) coverage, delivery care, and postnatal care were considered against rural/urban differences as well as SC/ST and other caste differences. Several critical indicators in the study were further examined according to gender, religion, age of mother, literacy of mother, and wealth quintile. The following paragraphs detail the process followed in developing asset quintiles.

Calculation of Asset Quintiles:

The CES-2009 asked about certain aspects of household ownership to determine wealth/asset quintiles. Based on the methodology used in NFHS, assets, amenities, facilities and consumer durable items were included 10. Applying principal component analysis, asset scores were computed for each single household and then normalised.

Possession of each item was converted into a dichotomous variable. For example, if a household had TV it was given a score '1' and the household which did not have TV was given a score of 0. In case a variable had more than two values/code categories, then one of them was given value '1' and the remaining values were equated to '0'. For instance, in case of type of house the pucca house was given score '1' and the remaining categories namely semi-pucca and kachha were given a score of '0'. Considering all these dichotomous variables, principal component analysis was applied and each of the above household assets was assigned a weight or a factor score derived through it. The Asset score was determined using the following formula:

Asset Score (AS) =
$$\frac{Value \ of \ Asset Variable - Mean \ of \ Asset Variable}{SD \ of \ Asset Variable} \times Asset Factor Score$$

In the next step all the AS were added at the household level to get the Total Asset Score for each of the households. Then the households were ranked according to their individual Household Asset score (HHAS) and then divided into five

quintiles with the same number of individuals in each. This provided the cut-off points or the ranges for each quintile.

Sample Weights

Sampling weights for children age 12-23 months and recently-delivered women were generated separately for rural and urban areas for each State. These design weights were used for computation of State level indicators. Then taking into account the population distribution and sample distribution, by States/UTs, the correction factors were applied on State weights to obtain the national weights. As an example, the computation of weights for rural areas in a given State for mothers with child 12-23 months was discussed below:

Let,

 f_i = Probability of selection of ith rural PSU in a State

= <u>hi</u> H<u>i</u>

Where,

hi is the total rural population of the selected PSU of the ith State

 \underline{Hi} is the total rural population of the ith State

 f_2^{ij} = Probability of selecting segment(s) from segmented jth PSU of the ith State

(in case the ith selected PSU is segmented)

= (Number of selected segments)/(number segments made in the PSU)

The value of f_2^{-i} is to be equal to one for un-segmented PSU.

 f_3 = probability of selecting kth respondent (HH) from the total listed respondents of a jth PSU of the ith s State or in segment(s) of a PSU

 $= \underline{HS_i}$ HL_i

¹⁰ Please see the Appendix-1 for the actual list of facilities, amenities and assets used for the development index.

Where HLi is the number of (HH) respondents listed in jth PSU of the ith State and $i\,HS$ is the number of respondents per PSU assigned for the jth PSU is 10.

The probability of selecting a respondent from ith State (rural) works out thus,

$$f^{i} = (f_{1}^{i*} f_{2}^{ij*} f_{3}^{ijk})$$

The non-normalized household weight for the ith State is.

$$w^{i} = 1$$

$$f^{i*}HR_{i}$$

Where, HR_{ijk} is the response rate in jth PSU of the ith State. The normalised weight (Wi^i) used in the generation of ith State is

$$W_i^d = \frac{n_i}{m_i} * w_i^i,$$

$$i=1, 2, 3......N$$
 $\Sigma n_i^* w^i$

Where n_i is the total number of mothers of child age 12-23 month interviewed in the ith State.

India weights for the respondents are further derived from the State weights Wi^i using the following procedure:

Let, $\it ns$ and $N_{\rm c}$ denote the number of households in the sample and census at a national level

$$ns = \sum n_i$$

where n_i is the corresponding sample of ith State

$$Nc = \Sigma N_{ci}$$

where $\Sigma N_{_{\rm cl}}$ is the total rural population of the i^{th} State

Wn =
$$Wi^{i}$$
 $\cdot [N_{ci}/N_{c}]$
 $[nsi/n_{s}]$

Computation of urban weights: The above procedure was followed to work out the weights for each urban stratum and thereafter national urban weights were worked out on the lines discussed above.

2.4 QUALITY CONTROL AND MONITORING OF DATA COLLECTION

The monitoring of CES by an independent agency was done to reduce the errors that may occur due to problems in training of investigators and supervision/monitoring of fieldwork. It becomes difficult to correct/compensate for errors after data compilation and analysis take place. More specifically monitoring was designed to:

- Ensure whether work (training of field investigators and actual data collection in the field) was being done as per the methodology
- 2. Ensure whether the timelines were being adhered to by the implementing agency
- 3. Provide technical support in the form of identifying any systemic error being committed by the field staff during fieldwork and bringing it to the notice of the agency's supervisors/MOHFW/UNICEF; any misinterpretation of the questions or any other matter which may lead to non sampling errors and such other matters which would have adverse effects on the survey and its results.
- Highlight logistic issue, human resources related issue and administrative problems if any.
- Ensure immediate reporting to agency's supervisors/MOHFW/UNICEF of grave inadequacies for immediate action (such as conducting re-activity).

Independent monitoring was organized with support from National Institute of Health and Family Welfare (NIHFW) and 6 Population Research Centres to check the field implementation of the survey. Since monitoring only provides representative information, a sample of 13 major States were selected after dividing the country into six zones (North, South, East, West, North-East and Central). Two States were chosen from each zone.

- North Uttar Pradesh, Rajasthan
- South Karnataka, Andhra Pradesh
- East Bihar, Orissa, West Bengal
- West Maharashtra, Gujarat
- Central Madhya Pradesh, Chhattisgarh
- North-east Manipur, Arunachal Pradesh

In each selected State, 10 percent of PSUs were monitored and in each PSU, at least four households where the mother had delivered in the last 12 months, and mothers with children were aged 12-23 months were included for monitoring.

NIHFW in consultation with MOHFW and UNICEF developed the monitoring protocol, engaged selected staff from the PRCs as deemed necessary, and acted as a coordinator for the monitoring system.

The following states were covered by the following by the monitoring agencies:

- 1. Uttar Pradesh, Rajasthan NIHFW, New Delhi
- Karnataka, Andhra Pradesh PRC ISEC, Bangalore
- 3. Bihar, Orissa PRC Bhubaneswar
- 4. Maharashtra, Gujarat PRC Baroda
- 5. Madhya Pradesh, Chhattisgarh PRC Sagar
- Manipur, Arunachal Pradesh -All India Institute of Hygiene and Public Health, Kolkata

Chapter 3

Profile of Sample Households

This chapter provides the socio-economic profile of the households where mothers with a child 12-23 months of age or recently delivered women were interviewed. In all 45,058 households were covered from all the States and Union Territories of India.

3.2 PROFILE OF SAMPLED VILLAGES

In all, information was collected from 1363 villages on maternal and child care services. Analysis of the data shows that about one-fourth of the villages had a population of less than 1,000. Most villages (52.6 percent) had 1000 – 5000 population. Around 13.4 percent had a population size of 5,001 – 10,000 and another 9.8 percent had a population of more than 10,000. Around 69 percent of the villages had 2 or more hamlets. More than a quarter of villages were less than 5 kilometres away and about half of villages were > 10 kilometres away from the nearest town. More than three-fourth of the villages were connected with all-weather roads. Among the remaining, two-thirds (67.9 percent) were connected with a *kachha* road and 32.1 percent with a motorable road (Table 3.1).

Table 3.1: Percentage distribution of sampled villages according to background characteristics	
Background Characteristics	Percentage
Population Size	
<1000	24.2
1000 – 2000	23.8
2001 - 5000	28.8
5001 – 10000	13.4
10001 and above	9.8
No. of Hamlets	
0	14.6
1	16.1
2 – 5	43.3
5+	26.0
Distance from the Nearest Town (in Kms.)
<5	28.7
5 – 10	25.5
11 – 20	27.7
20+	18.1
Villages Connected by All-Weather Roads	82.6
Type of Road (n=381)	
Kachha	67.9
Motorable	32.1
Number of Villages	1,363

Table 3.2: Percentage sampled villages with health and education facilities				
Facilities	Percentage			
Health Facilities in the Village				
Anganwadi Centre	97.4			
Sub centre	55.1			
Primary Health Centre	27.7			
Private Clinic	32.4			
Private Hospital	11.0			
Chemist Shop	41.8			
Any Facility (from those above)	98.6			
Villages with an ASHA	76.7			
Availability of Education Facilities				
Primary School – Government	94.6			
Primary School – Private	46.5			
Middle School	36.0			
Secondary/Higher Secondary School	34.2			
Madarsa	16.9			
Adult Education Centre	15.8			
Any Education Facility (from those above)	97.4			
Number of villages	1,363			

Anganwadi Centres existed in 97.4 percent of the sampled villages. Around 55.1 percent of the villages had a health sub centre, 27.7 percent had primary health centres and around one-third of them had private clinics. Nearly 11.0 percent of the villages had private hospitals (with indoor facilities). A chemist shop was available in 41.8 percent of the villages. An ASHA was reportedly working in 76.7 percent of the villages.

About 94.6 percent villages had a primary government school and 36 percent had a middle school. A Secondary/Higher secondary school existed in around one-third of the villages.

3.2 PROFILE OF SAMPLED HOUSEHOLDS

In both rural and urban areas, the number of usual members of the households was between 4 and 6 members. The mean household size was slightly higher in rural areas (6.48 persons per household) than in urban areas (6.09 persons per household). In all, 80.1 percent of households were Hindu, 14.7 percent were Muslim and 5.3 percent belonged to other religions. Comparatively more Hindus household were in rural areas (82.8 percent) than in urban areas (73.3 percent). Twenty-three percent of household heads belonged to scheduled castes, 7.8 percent to scheduled tribes, and 41.3 percent to Other Backwards Classes (OBC).

Characteristics	Rural	Urban	Total
Number of Usual Members			
< or = 4	25.4	32.2	27.3
5-6	35.0	34.1	34.9
> 6	39.6	33.7	37.8
Mean Household Size	6.48	6.09	6.37
Religious Group of Household Head			
Hinduism	82.8	73.3	80.1
Islam	12.2	21.0	14.7
Sikhism	1.5	1.5	1.5
Christianity	2.4	2.2	2.4
Other religious groups	1.1	1.9	1.4
Social Group of Household Head			
Scheduled Caste	24.2	18.7	22.6
Scheduled Tribe	9.2	4.1	7.8
Other Backward Classes	40.9	42.3	41.3
Others	25.7	34.9	28.3
Number of Households (n)	25170	19888	45058

Base = All households (HH with child 12-23 months + HH with woman recently delivered)

Note: The households selected had either at least one child between the age of 12-23 months or at least one woman who delivered during 12 months preceding the survey. Hence the estimates presented here may not be representative of the general population.

3.3 HOUSING CHARACTERISTICS

Possession of housing amenities such as improved source of drinking water, type of toilet facilities, fuel used for cooking, type of house, electricity, and household assets reflecting economic level of the household may have a positive effect on maternal and child indicators. The analysis of the data shows that for 47.7 percent of the households, the main source of drinking water was piped water, 40.9 percent used a hand pump and only 3.6 percent households depended on well water. There were large ruralurban differences in the main source of drinking water. The proportion of households using piped drinking water facility was 77.5 percent in urban areas as compared to 36.2 percent households in rural areas. Seventy three percent of the

households had an electricity connection. The proportion of households with electricity was 94.4 percent in urban areas and 65.0 percent in rural areas.

Several types of fuel were used for cooking in India. Table 3.4 shows that 46.4 percent of the selected households reported using wood as fuel for cooking, followed by liquefied petroleum gas (LPG) (26.8 percent), dung cakes (7.8 percent) and agriculture crop waste (5.1 percent). There were large rural-urban differences in use of fuel for cooking. While three-fifths of urban households relied mainly on liquid petroleum gas, around two-third of the rural households used mainly wood or dung cakes.

Sanitation plays a major role in the health of a child. 37 percent of the households used flush

toilet facility and 16.7 percent pit latrine. There was large rural-urban difference with regard to sanitation facilities. Around 58.4 percent households in rural areas were without toilets and used open field for defecation as compared to 12.4 percent households in urban areas.

Regarding the type of house, 24.8 percent of the households lived in *kachha* houses, 39.4 percent in *semi-pucca*, and 35.7 percent lived in *pucca* houses. The proportion of *pucca* houses was much higher in urban areas (56.3 percent) while the proportion of kaccha houses was more in rural areas (30.8 percent).

Housing Characteristics	Rural	Urban	Total
Main Source of Drinking Water	110101		1000
Improved Source			
Piped water into residence/yard/plot	17.4	53.0	27.3
Public tap	18.8	24.5	20.4
Hand pump into residence/yard/plot	23.6	8.9	19.5
Public hand pump	26.4	8.6	21.4
Protected dug well	4.0	1.8	3.4
Protected spring	0.3	0.1	0.2
Rain water	0.1	0.0	0.1
Non-Improved Source			
Unprotected dug well	6.5	1.2	5.0
Unprotected spring	0.4	0.1	0.3
Tanker truck	0.6	1.0	0.7
Surface water	0.4	0.1	0.3
Other source	1.5	0.7	1.3
Main Source of Lighting			
Electricity	65.0	94.4	73.2
Solar energy	0.3	0.2	0.3
Kerosene	33.7	5.1	25.7
Biogas	0.2	0.1	0.2
Gas	0.4	0.0	0.3
Oil	0.3	0.1	0.2
Others	0.1	0.1	0.1

ousing Characteristics	Rural	Urban	Total
Aain Type of Fuel used for Cooking			
Electricity	1.5	2.9	1.9
LPG/Natural gas	14.0	60.0	26.8
Biogas	0.5	1.3	0.7
Kerosene	1.4	7.7	3.2
Coal/Lignite	0.7	3.4	1.5
Charcoal	1.2	1.8	1.4
Wood	56.9	19.3	46.4
Straw/Shrub/Grass	6.8	0.8	5.2
Agricultural crop waste	6.7	1.1	5.1
Dung cakes	10.3	1.3	7.8
Others	0.1	0.2	0.1
Type of Toilet Facility	,		
Flush or pour flush toilet			
Own flush toilet	19.5	50.6	28.2
Shared flush toilet	4.6	9.4	5.9
Public flush toilet	1.1	8.2	3.1
Pit Latrine			
Own pit toilet	13.0	15.7	13.7
Shared pit toilet	1.5	2.2	1.7
Public pit toilet	1.4	1.1	1.3
No facility/Bush/Field	58.4	12.4	45.6
Others	0.5	0.5	0.5
Type of house			
Kachha	30.8	9.4	24.8
Semi-pucca	41.4	34.3	39.4
Pucca	27.8	56.3	35.7
Number of Households	25170	19888	45058

Coverage Evaluation Survey 2009

3.4 POSSESSION OF BANK ACCOUNT AND BELOW POVERTY LINE (BPL) CARD

Overall 52.8 percent of the households reported having a bank account/post office account. The proportion of households having a bank account/ post office account was 62.1 percent in urban areas compared to 49.2 percent in rural areas. Overall 37.6 percent of households reported having a BPL card (42.5 percent in rural and 24.7 percent in urban areas) (Table 3.5).

3.5 HOUSEHOLD WEALTH INDEX

Combining household amenities, assets and durables, a wealth index is computed at the national level and divided into quintiles as mentioned in Chapter 2. Table 3.6a shows the distribution of households in different States/ Union Territories according to wealth index.

As per the survey data with respect to national economic classification, the States of Bihar (75.6 percent), Jharkhand (66.9 percent) and Orissa (55.4 percent) have the highest proportion of

households in the lowest wealth quintile. The other States with around 40-50 percent of the households in the lowest wealth quintile were Madhya Pradesh (48.4 percent), Uttar Pradesh (46.2 percent), West Bengal (43.1 percent) and Chhattisgarh (44.2 percent). Goa had the most number of households (62.0 percent) in the highest category of wealth index, followed by Chandigarh (59.6 percent), Delhi (57.1 percent) and Haryana (51.4 percent). The other Union Territories and States with around 30 percent of the households in the highest category of wealth index were Punjab (46.8 percent), Lakshadweep (35.2 percent), and Mizoram (31.5 percent).

Rural-urban break-up of the data shows that more than 50 percent of households in the rural areas of Orissa (61.4 percent), Madhya Pradesh (60.3 percent), Uttar Pradesh (56.0 percent) and West Bengal (52.7 percent) belonged to the lowest wealth quintile. On the other hand, more than 50 percent of households in the urban areas of Punjab (69.5 percent), Haryana (69.4 percent), Goa (67.2 percent), Chandigarh (61.5 percent), Delhi (57.9 percent), Jammu & Kashmir (57.2 percent), Uttarakhand (52.8 percent), Himachal Pradesh (50.6 percent) and Mizoram (50.4 percent) were in the highest category of wealth index (Table 3.6b and 3.6c).

Characteristics	Rural	Urban	Total					
Households having bank account/Post office account								
Yes	49.2	62.1	52.8					
No	48.2	35.3	44.6					
Don't know	2.7	2.6	2.7					
Households having a BPL card								
Yes	42.5	24.7	37.6					
No	56.0	72.6	60.6					
Don't know	1.5	2.7	1.8					
Number of Households (n)	25170	19888	45058					

Table 3.6a: Percentage of hous	seholds acc	ording to w	vealth index	c - total		
States/UTs	Lowest	Second	Middle	Fourth	Highest	Number of households (n)
Andhra Pradesh	11.2	34.6	28.4	17.9	7.9	1763
Arunachal Pradesh	16.7	24.5	22.2	26.2	10.5	1127
Assam	36.9	36.4	11.6	10.3	4.8	1733
Bihar	75.6	14.7	5.0	2.9	1.8	2081
Chhattisgarh	44.2	27.5	12.4	10.6	5.3	1054
Delhi	0.8	6.8	13.7	21.5	57.1	1174
Goa	1.0	4.1	7.0	25.8	62.0	1077
Gujarat	13.1	28.7	24.4	21.9	11.9	1584
Haryana	3.0	6.2	14.9	24.6	51.4	1263
Himachal Pradesh	3.4	16.4	37.8	25.6	16.8	1102
Jammu & Kashmir	17.6	19.3	19.8	19.0	24.3	1238
Jharkhand	66.9	14.3	6.6	7.3	4.9	1262
Karnataka	27.8	28.7	21.0	16.4	6.1	1496
Kerala	3.3	12.8	30.3	28.3	25.4	1530
Madhya Pradesh	48.4	19.6	13.5	9.1	9.4	2086
Maharashtra	16.2	20.8	21.5	24.3	17.3	2024
Manipur	3.1	19.8	35.1	27.9	14.3	1224
Meghalaya	5.1	26.8	37.4	21.3	9.4	1159
Mizoram	6.2	14.5	23.9	23.9	31.5	1222
Nagaland	7.5	39.6	38.0	11.9	3.0	1278
Orissa	55.4	18.5	11.3	9.1	5.6	1791
Punjab	2.6	12.0	17.1	21.6	46.8	1149
Rajasthan	27.5	23.9	17.2	13.9	17.5	1796
Sikkim	6.9	39.3	40.9	12.5	0.4	1064
Tamil Nadu	9.9	24.9	23.4	26.7	15.1	2152
Tripura	5.7	43.6	31.5	11.9	7.4	1195
Uttar Pradesh	46.2	15.1	11.4	13.3	14.0	2217
Uttarakhand	16.3	17.2	25.3	18.9	22.3	1124
West Bengal	43.1	26.3	15.8	10.5	4.3	1649
Andaman & Nicobar Islands	5.5	19.6	24.5	32.5	17.9	348
Chandigarh	2.3	10.2	8.0	19.9	59.6	379
Dadra & Nagar Haveli	13.1	40.8	22.6	14.0	9.5	360
Daman & Diu	0.9	9.9	21.3	40.7	27.1	361
Lakshadweep	2.2	9.4	25.4	27.8	35.2	266
Puducherry	7.8	20.9	17.6	26.3	27.4	730
All India	20.0	20.0	20.0	20.0	20.0	45058

Table 3.6b: Percentage of house	seholds acc	ording to w	vealth index	c - rural		
States/UTs	Lowest	Second	Middle	Fourth	Highest	Number of households (n)
Andhra Pradesh	14.4	39.7	28.8	13.2	3.9	1066
Arunachal Pradesh	20.3	29.3	22.7	21.9	5.8	677
Assam	41.1	39.2	10.1	6.8	2.8	1067
Bihar	79.9	14.2	4.2	1.5	0.3	1246
Chhattisgarh	51.6	29.1	10.5	6.7	2.0	532
Delhi	0.0	0.4	23.5	29.9	46.2	117
Goa	1.9	5.4	8.6	27.2	56.9	527
Gujarat	17.4	38.0	24.7	15.5	4.3	931
Haryana	3.7	7.2	17.9	27.1	44.1	672
Himachal Pradesh	3.2	17.5	40.9	25.4	13.1	557
Jammu & Kashmir	22.2	23.2	21.6	19.5	13.5	639
Jharkhand	79.6	13.3	3.8	2.6	0.6	739
Karnataka	37.0	33.8	19.3	8.2	1.8	876
Kerala	4.1	14.3	33.2	27.1	21.4	941
Madhya Pradesh	60.3	20.5	12.0	4.4	2.9	1249
Maharashtra	23.0	26.5	25.0	16.3	9.2	1227
Manipur	3.9	23.9	38.5	26.8	7.0	711
Meghalaya	5.8	29.3	37.4	19.0	8.5	683
Mizoram	11.8	25.4	29.0	20.9	12.8	713
Nagaland	7.2	43.8	39.5	8.3	1.2	719
Orissa	61.4	19.7	10.9	6.0	2.0	1114
Punjab	3.2	14.6	22.2	24.9	35.1	613
Rajasthan	34.2	27.1	18.2	11.4	9.2	1075
Sikkim	7.0	42.0	41.2	9.7	0.0	664
Tamil Nadu	15.9	35.2	28.0	17.6	3.3	1307
Tripura	6.6	49.1	33.2	8.2	2.9	718
Uttar Pradesh	56.0	14.9	10.3	10.6	8.3	1333
Uttarakhand	19.9	20.2	30.1	18.1	11.7	568
West Bengal	52.7	27.3	12.8	5.7	1.5	1007
Andaman & Nicobar Islands	8.2	24.8	27.0	24.2	15.8	193
Chandigarh	1.1	3.6	21.1	31.3	42.9	117
Dadra & Nagar Haveli	15.5	50.6	25.8	5.4	2.8	142
Daman & Diu	1.0	12.1	27.1	43.2	16.6	110
Lakshadweep	3.1	8.0	21.9	31.0	36.1	129
Puducherry	14.5	40.8	18.0	19.0	7.7	191
All India	30.2	26.0	21.5	13.7	8.7	25170

Table 3.6c: Percentage of hous	seholds acc	ording to w	ealth index	c - urban		
States/UTs	Lowest	Second	Middle	Fourth	Highest	Number of households (n)
Andhra Pradesh	2.6	20.9	27.5	30.6	18.4	697
Arunachal Pradesh	3.0	6.7	20.4	42.1	27.8	450
Assam	8.4	17.0	21.8	34.7	18.1	666
Bihar	39.4	18.5	12.0	15.4	14.7	835
Chhattisgarh	14.6	20.9	19.9	26.5	18.1	522
Delhi	0.9	7.3	13.0	20.9	57.9	1057
Goa	0.2	2.9	5.3	24.5	67.2	550
Gujarat	5.9	13.1	23.7	32.7	24.6	653
Haryana	1.2	3.6	7.5	18.3	69.4	591
Himachal Pradesh	5.3	6.9	9.1	28.0	50.6	545
Jammu & Kashmir	3.8	7.4	14.2	17.3	57.2	599
Jharkhand	22.0	18.0	16.5	23.5	20.0	523
Karnataka	9.9	19.0	24.4	32.3	14.4	620
Kerala	0.9	8.5	21.8	31.5	37.2	589
Madhya Pradesh	15.2	17.4	17.8	22.0	27.6	837
Maharashtra	6.9	13.0	16.7	35.0	28.4	797
Manipur	0.7	8.0	25.3	30.9	35.0	513
Meghalaya	2.4	16.3	37.5	30.9	12.9	476
Mizoram	0.5	3.4	18.7	26.9	50.4	509
Nagaland	8.6	19.7	30.5	29.6	11.7	559
Orissa	22.3	11.8	13.9	26.6	25.5	677
Punjab	1.2	6.9	7.2	15.1	69.5	536
Rajasthan	5.4	13.4	14.0	22.3	45.0	721
Sikkim	5.5	17.6	38.6	34.5	3.9	400
Tamil Nadu	2.3	11.8	17.6	38.3	30.1	845
Tripura	1.1	17.1	23.0	29.6	29.2	477
Uttar Pradesh	9.2	16.1	15.7	23.5	35.4	884
Uttarakhand	5.8	8.6	11.5	21.2	52.8	556
West Bengal	18.4	23.6	23.6	22.8	11.5	642
Andaman & Nicobar Islands	0.0	9.0	19.2	49.6	22.1	155
Chandigarh	2.5	10.9	6.5	18.6	61.5	262
Dadra & Nagar Haveli	4.9	8.0	11.9	43.0	32.2	218
Daman & Diu	0.6	6.1	11.2	36.4	45.7	251
Lakshadweep	1.3	11.0	29.2	24.1	34.4	137
Puducherry	4.6	11.2	17.4	29.8	37.0	539
All India	6.2	12.1	17.6	27.6	36.6	19888

Chapter 4

Routine Immunization

The vaccination of children against six preventable diseases viz., tuberculosis, diphtheria, pertussis, tetanus, poliomyelitis and measles has been a cornerstone of child healthcare in India. As a part of the National Health Policy, the National Immunization Programme is being implemented on a priority basis. The Expanded Programme on Immunization (EPI) was initiated by Government of India in 1978 with the objective of reducing morbidity, mortality and disabilities from these six diseases by making free vaccination services easily available to all eligible children. The Universal Immunization Programme (UIP) was introduced in 1985-86. The standard immunization schedule developed for the child immunization programme specifies the age at which each vaccine is to be administered, the number of doses to be given and the route of vaccination. Routine vaccinations received by infants and children are usually recorded on a vaccination card issued for a child.

The information on routine immunization was collected from 22,604 mothers/care givers of children aged between 12-23 months. This chapter includes information on availability of the immunization card, different vaccines received by the child, injection safety and reasons for no or partial immunization.

4.1 BACKGROUND PROFILE OF MOTHER WITH CHILD AGED 12-23 MONTHS

The analysis of the profile of children and their mothers/care givers is given in Table 4.1. The table shows that 53 percent of children surveyed for the routine immunization coverage were in the age

group 12-17 months and 47 percent in the age group 18-23 months. About 47 percent of these children were female and 53 percent were males.

Most mothers were from the younger age group; 42.5 percent were less than 25 years of age and 49.9 percent were in the age group of 25-34 years. A relatively lower percentage in the former age group might be due to the trend in rise in age at marriage and age at first conception.

Characteristics	Rural	Urban	Total
	Child's Profile		
Child's age (in months)			
12-17	53.4	52.3	53.1
18-23	46.6	47.7	46.9
Gender			
Male	53.5	51.7	53.0
Female	46.5	48.3	47.0
	Profile of Mothers		
Number of Live Births			
1	35.5	43.7	37.7
2	34.5	36.2	34.9
3	15.1	11.8	14.2
4+	14.9	8.4	13.1
Mother's Age (in years)			
15-19	4.8	3.4	4.4
20-24	38.6	37.0	38.1
25-34	48.6	53.5	49.9
35-44	6.8	5.0	6.3
45+	1.3	1.2	1.3
Mother's Education			
No education	42.5	18.4	35.8
<5 years completed	6.1	5.1	5.8
5-7 years completed	16.3	16.9	16.5
8-9 years completed	15.1	16.7	15.5
10-11 years completed	11.2	17.4	12.9
12 or more years completed	8.8	25.5	13.4
Number of children# (n)	12635	9969	22604

The education level of the mothers had an important influence on routine immunization and health seeking behaviour. Table 4.1 further shows that 35.8 percent mothers were illiterate, 22.3 percent were literate but did not complete middle school and another 26.3 percent had passed high school. As expected, more urban mothers were literate (81.6 percent) than their rural counterparts (57.5 percent).

4.2 AWARENESS ABOUT IMMUNIZATION

Correct knowledge about vaccines to be given to child by one year of age, and the number of doses and age at which first dose is to be given, plays an important role in protecting children against the six diseases mentioned earlier. Table 4.2 shows that around three-fifths (58.1 percent) of the mothers knew about all the four vaccines

that need to be given to the child within the first year of life. Awareness was comparatively higher among mothers from urban areas (68.1 percent) than that of rural areas (54.3 percent). The analysis also shows that 12.2 percent mothers could not recall any one vaccine. Awareness about Hepatitis B among mothers was low compared to other routine vaccines. The main reason for the low awareness was that Hepatitis B vaccine was introduced in only 16 States and Union Territories in India.

4.3 AVAILABILITY OF IMMUNIZATION CARD

All mothers were asked whether they possessed an immunization card for their child aged 12-23 months. If the card was available, the interviewer copied the dates when the child received the dose against each vaccine. For vaccinations not

	Table 4.2: Percentage of mothers/care giver of children aged 12-23 months having knowledge of vaccines								
Immu-	Rural				Urban		Total		
nization	Voluntary	Prompted	DK/CS	Voluntary	Prompted	DK/CS	Voluntary	Prompted	DK/CS
BCG	37.3	44.5	18.2	48.4	40.1	11.4	40.4	43.3	16.3
DPT	23.7	46.1	30.2	36.3	43.5	20.3	27.2	45.4	27.5
Polio	25.7	49.0	25.3	39.0	44.6	16.4	29.4	47.8	22.8
Measles	22.2	42.3	35.5	31.5	45.1	23.4	24.8	43.0	32.2
Hepatitis B	12.4	26.5	61.1	22.9	38.7	38.4	15.3	29.9	54.8
Reported all 4 vaccines*	54	1.3		68.1		58	3.1		
Reported no vaccine	13	3.7		8.2 12.2		2.2			
Children aged 12-23 months #		12635		9969 22604		22604			

[#] unweighted cases

DK = don't know; CS = can't say

^{*} Knowledge of four vaccines elicited were BCG, OPV, DPT and Measles

recorded on the card, mothers were asked and their response, i.e. whether the vaccine was given or not given, was recorded. If the mothers could not show an immunization card, they were asked whether the child had received any vaccination. If any vaccination had been received, the details about each vaccination and number of doses were asked. Table 4.3 shows that 90.8 percent of mothers reported receiving an immunization card for their children and 51.5 percent were able to show the immunization card to the interviewer.

In urban areas, 58 percent of the children's immunization information was collected from the card. The percentage of such children was 48.9 percent in rural areas.

When asked about the reasons for not receiving the immunization card, 56.5 percent of mothers reported that they were not aware of the immunization card and another 22.6 percent said that the card was not available at the health facility (Table 4.3).

And reasons for not receiving the card Responses Rural Urban Total								
Availability of immunization card	- Harai	Olbuii	Total					
Yes, issued & seen	48.9	58.0	51.5					
Yes, issued but not seen	40.2	37.1	39.3					
Not issued	10.9	4.9	9.2					
No. of children#	12635	9969	22604					
Reasons for not receiving the card		,	'					
Nobody approached	13.4	19.5	14.3					
Card not available at the health facility	23.8	15.3	22.6					
Not aware of immunization card	56.1	58.4	56.5					
Others	6.6	6.8	6.6					
No. of children with card not issued#	1028	525	1553					

Routine Immunization

The availability of the immunization card was further analysed according to the background characteristics of the mother. The analysis of data shows that education of the mother had a positive role in safe-keeping of the card. Only about 40 percent of the illiterate mothers could show the immunization card while this

percentage rose to 64.5 percent for mothers who had passed at least higher secondary (Table 4.4). Comparatively fewer mothers from lowest wealth quintile households (43.1 percent) could show the card than mothers from household belonging to higher quintile (54.9 percent).

Background characteristics	Percent card issued and shown	No. of children#
Sex of child		
Male	52.2	12217
Female	50.6	10387
Residence		
Rural	48.9	12635
Urban	58.0	9969
Mother's Education		
No education	39.6	5732
<5 years completed	51.0	1258
5-7 years completed	53.4	3542
8-9 years completed	58.8	3760
10-11 years completed	59.5	3915
12 or more years completed	64.5	4397
Social Group		
Scheduled Caste	52.0	3972
Scheduled Tribe	43.2	3929
Other Backward Classes	49.4	7866
Others	56.1	6837
Wealth Index		
Lowest	43.1	4520
Second	53.2	4522
Middle	55.2	4520
Fourth	59.2	4522
Highest	54.9	4520
Total	51.5	22604

States/UT	Rural	Urban	Total	No. of children
Andhra Pradesh	65.5	63.4	64.9	887
Arunachal Pradesh	37.8	57.6	41.9	585
Assam	67.9	60.1	66.9	875
Bihar	42.1	51.6	43.1	1055
Chhattisgarh	41.7	64.2	46.3	522
Delhi	51.7	50.6	50.7	585
Goa	63.9	57.3	60.6	534
Gujarat	47.1	53.5	49.5	786
Haryana	39.4	50.9	42.7	634
Himachal Pradesh	61.0	54.7	60.3	547
Jammu & Kashmir	56.9	69.6	60.0	620
Jharkhand	60.8	71.1	63.1	635
Karnataka	47.8	60.1	52.0	751
Kerala	78.8	79.0	78.9	760
Madhya Pradesh	40.3	61.1	45.8	1040
Maharashtra	52.7	67.2	58.8	1020
Manipur	52.5	64.1	55.6	630
Meghalaya	67.9	47.0	63.8	586
Mizoram	72.7	83.1	77.9	624
Nagaland	43.6	51.7	45.0	641
Orissa	58.8	55.5	58.3	889
Punjab	54.3	51.1	53.2	570
Rajasthan	20.4	35.8	24.0	894
Sikkim	85.4	83.9	85.2	404
Tamil Nadu	42.8	47.3	44.8	1068
Tripura	73.7	86.5	75.9	603
Uttar Pradesh	33.1	46.7	35.9	1112
Uttarakhand	41.0	41.6	41.1	576
West Bengal	77.8	77.7	77.8	827
UTs combined	70.0	63.7	65.6	1213
Total	48.9	58.0	51.5	22604

4.4 IMMUNIZATION STATUS OF THE CHILDREN

Table 4.6 shows the immunization coverage rates for each type of vaccination, according to either immunization card or the mother's recall. The analysis of vaccine-specific data indicates higher coverage of each type of vaccine in urban areas than in rural areas. According to the primary immunization schedule, the child should be fully vaccinated by the time he/she is 12 months old. Full immunization includes one dose of BCG, three injections of DPT, three doses of polio and one injection of measles.

An analysis of the data shows that at all India level the proportion of children age 12-23 months receiving full immunization coverage is 61 percent. The coverage of immunization was higher in urban areas (67.4 percent) compared to that in the rural areas (58.5 percent). About 8 percent of the children did not receive even a single vaccine and were left out of the UIP. Analysis of the Hepatitis B coverage in the States and Union Territories where the programme has been implemented shows that 70.7 percent of the children received the first injection of Hepatitis B while 58.9 percent received all 3 injections of Hepatitis B.

Table 4.6: Percentage of children aged 12-23	months who receive	d specific vaccinati	on
Antigens	Rural	Urban	Total
BCG	86.0	89.2	86.9
OPV0	63.3	73.2	66.0
OPV1	81.3	86.3	82.7
OPV2	76.1	82.4	77.9
OPV3	68.2	76.3	70.4
DPT1	81.3	85.8	82.6
DPT2	76.5	82.7	78.2
DPT3	69.1	77.6	71.5
Measles	72.4	78.3	74.1
Full Immunization*	58.5	67.4	61.0
Received no vaccination	8.5	5.2	7.6
Vitamin A 1st Dose	63.2	66.0	64.0
Number of 12-23 months children (n)#	12635	9969	22604
HEP B0 (Birth)**	25.1	37.0	29.2
HEP B1**	68.1	75.5	70.7
HEP B2**	63.9	72.0	66.7
HEP B3**	55.9	64.5	58.9
Number of 12-23 months children in Hepatitis B implementing States#	5658	4758	12024

[#] unweighted cases

^{*} Full immunization: a child receiving all these vaccines - BCG, 3 doses of DPT, 3 doses of OPV (excluding Polio 0) and 1 dose of measles

^{**} Combined coverage given here is for States/UTs implementing Hepatitis B immunization under UIP namely Andhra Pradesh, Delhi, Goa, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Punjab, Sikkim, Tamil Nadu, West Bengal, Andaman & Nicobar Islands, Puducherry and Lakshadweep

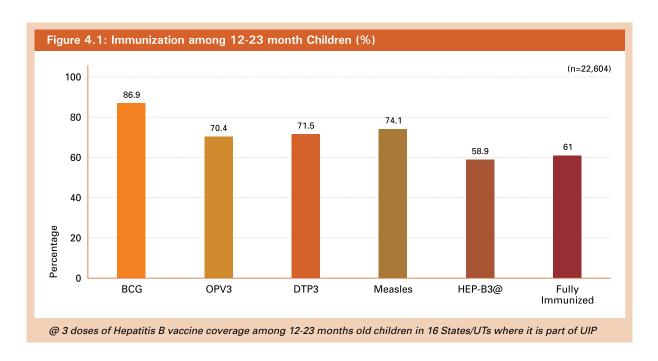
The analysis according to background characteristics shows that full immunization coverage was better among lower order births i.e. among the first order births 67.4 percent children were fully immunized compared with 40.4 percent among the birth order 4 or more. The coverage of immunization varied with the gender of the child, education of the mother, social group and wealth quintile (Table 4.7). Only 45.3 percent of the children of illiterate mothers were fully immunized compared with 76.6 percent of children of mothers who had completed at least higher secondary. Analysis according to social groups showed that scheduled tribe children (49.8 percent) were less likely to be fully immunized than are scheduled castes (58.9 percent), other backward class (60.6 percent) or other classes (66.3 percent). Only 47.3 percent of children from the lowest wealth quintile were fully immunized compared with 75.5 percent of children from the households with the highest wealth quintile.

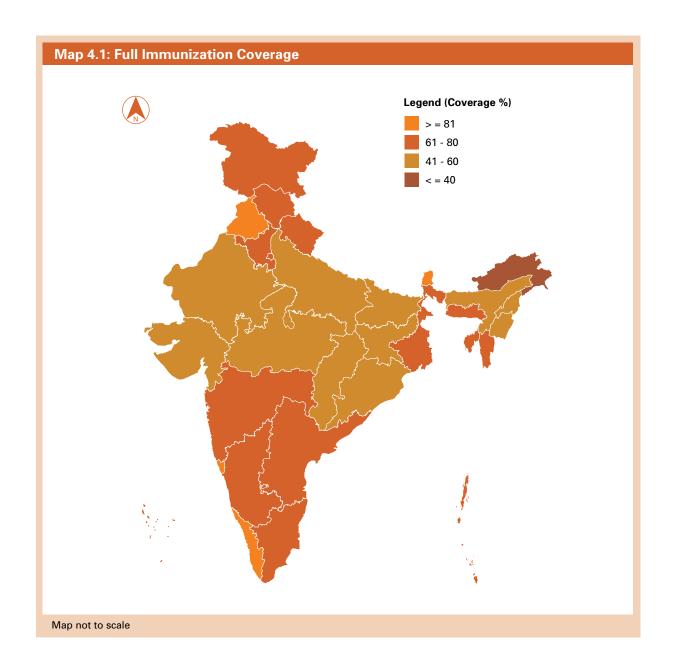
Considerable State-level variations with regard to immunization coverage persist.

Table 4.8 shows immunization coverage rates for each State. The percentage of children

who were fully immunised ranged from 25 percent in Arunachal Pradesh to 88 percent in Goa. Among major States, Uttar Pradesh (41 percent), Madhya Pradesh (43 percent) Bihar (49 percent), Rajasthan (54 percent), Chhattisgarh (57 percent), Gujarat (57 percent), Assam (59 percent), Jharkhand (60 percent) and Orissa (60 percent) stood out as having less percentage of children fully immunised than the national average of 61 percent. States like Goa, Himachal Pradesh, Karnataka, Kerala, Manipur, Punjab, Tamil Nadu and Sikkim had more than 75 percent full immunization coverage. A similar trend emerged with respect to individual vaccines. The BCG vaccine coverage (87 percent) was highest among all vaccines. Measles coverage at India level was 74 percent. In almost all the States there was a drop of coverage from first dose to 3rd dose of both DPT and OPV.

High percentage of children left-out from the vaccination program (those children who received no immunization) was observed in Nagaland (31.6 percent), Arunachal Pradesh (25.7 percent), Uttar Pradesh (17.8 percent), Rajasthan (15.6 percent), Bihar (15.2 percent) and Manipur (11.9 percent).





				Background			Percent V	Percent Vaccinated with	d with			No. of
Characteristics	BCG	OPV 0	1V40	OPV2	OPV 3	DPT 1	DPT2	DPT3	Measles	Full Immunization	Received no vaccination	Children #
Mother's Age (in Years)												
15-19	90.3	65.0	86.5	80.9	74.2	84.0	80.5	74.1	70.0	59.8	6.9	591
20-24	9.68	68.3	86.1	82.1	74.5	86.0	82.4	75.7	78.3	65.7	5.8	7541
25-34	86.5	66.2	81.9	76.3	69.2	81.9	76.9	70.4	73.5	59.5	7.7	12713
35-44	73.7	53.9	6.99	64.1	54.5	0.79	63.1	55.0	57.2	45.5	17.3	1456
45+	80.1	26.7	72.3	71.7	61.4	75.0	73.8	63.9	8.69	56.6	13.8	303
Sex of child												
Male	86.4	66.1	82.4	77.5	70.2	82.2	77.8	71.5	74.8	61.9	7.9	12217
Female	87.5	0.99	83.0	78.3	70.7	83.0	78.6	71.4	73.2	59.9	7.2	10387
Birth Order												
1	6.06	70.0	87.5	82.8	77.1	87.2	83.9	78.3	79.8	67.4	4.4	9232
2	88.2	68.1	84.4	80.4	73.1	84.4	80.5	74.2	7.77	64.7	6.7	8159
3	82.7	59.9	78.6	72.3	63.0	78.7	72.7	64.1	8.89	53.7	10.8	3033
4+	29.9	929	9.89	62.8	52.2	68.4	61.8	52.7	53.6	40.4	16.0	2180
Residence												
Rural	86.0	63.3	81.3	76.1	68.2	81.3	76.5	69.1	72.4	58.5	8.5	12635
Urban	89.2	73.2	86.3	82.4	76.3	82.8	82.7	9'.//	78.3	67.4	5.2	6966
Mother's Education	100	0	1	7 10	1	1	0		C	C L		1000
No education	- 6	50.9	/3.0	10.4	57.0	72.7	500.3	28.1	29.7	45.3	14.3	5/32
<5 years completed	4.4	50.4	82.0	70.7	100	/.8/	8.4.0	420.4	73.6	55.4	9.0	1258
5-7 years completed	20.50	4.80	82.	0.67	77.5	84.8	80.4	73.0	/8/	04.9	0.0	3542
8-9 years completed	91.7	9.99	87.8	83.1	77.9	88.2	84.9	78.0	83.8	70.6		3760
10-11 years completed	93.6	76.5	90.9	87.6	82.7	91.1	89.1	84.8	84.8	74.1	2.1	3915
12 or more years completed	94.0	79.4	91.6	89.0	84.9	92.5	90.5	87.2	85.2	76.6	2.0	4397
Keligious Group			000	- 0-	001		001					
Hinduism	87.5	8.99	83.3	78.5	70.9	83.1	78.8	71.7	74.5	61.2	7.0	16296
Islam	82.2	59.7	76.9	71.3	63.8	77.1	71.6	65.8	68.4	55.7	12.0	2929
Sikhism	95.1	/6.4	92.7	91.9	87.4	92.3	91.2	88.7	84.6	78.2	3.8	416
Christianity	86.2	63.7	83.7	80.8	73.4	85.2	82.5	77.2	79.7	65.6	5.6	2535
Other religious group	95.2	82.9	93.4	86.0	84.2	91.1	88.5	86.2	87.6	76.6	2.8	428
Social Group												
scheduled Caste	87.1	62.9	83.3	77.5	68.6	82.5	77.2	68.9	72.4	58.9	7.8	3972
Scheduled Iribe	81.7	61.5	75.0	69.5	61.3	/3.8	68.2	60.4	67.0	49.8	9.9	3929
Other Backward Classes	85.5	66.7	80.8	9.9/	69.1	81.3	77.0	70.6	73.6	60.6	න : ල :	7866
Others	90.3	66.4	86.8	82.3	/6.3	86.9	83.5	8.//	1.8/	66.3	5.5	683/
BPL Status	7 10	10		1		,	1 1	1	1		1	7
Have BPL Card	4.78	0/.1	82.5	y. / c	98.9	82.	7.//	70.8	75.4	2.00	2.7	15055
	0.00	0.00	03.0	70.0	4:	6.20	/0./	72.0	73.7	4:10	8:7	ccncl
Lowest	9.62	56.6	74.1	67.9	57.9	73.6	9.99	57.4	61.2	47.3	13.7	4520
Second	87.7	65.7	83.5	78.2	70.0	83.4	78.7	72.6	76.9	61.6	6.3	4522
Middle	90.4	68.3	86.0	81.8	74.1	86.5	83.6	76.8	80.5	66.4	4.2	4520
Fourth	91.5	71.4	88.1	83.4	79.9	87.9	85.3	80.5	81.5	70.0	4.7	4522
Highest	93.4	80.4	91.4	83.8	85.6	91.4	90.2	9.98	83.5	75.5	2.7	4520

Table 4.8: Percentage of children aged 12-23 months who received specific vaccination (according to either vaccination card or mother's report) No. of 22604 1040 1213 404 1112 576 522 585 534 786 634 547 620 635 751 760 630 586 624 641 889 570 894 603 827 2 vaccination 17.8 11.9 31.6 15.6 15.2 11.7 4.8 4.3 0.4 5.4 1.0 1.8 5.9 9.3 7.2 5.8 2.4 3.0 3.9 <u>6</u>. 4.8 8.1 3.1 9.1 **Immunization** 56.6 71.7 9.99 81.5 42.9 78.6 8.09 73.7 27.8 59.5 83.6 53.8 59.1 49.0 57.3 71.5 87.9 59.7 78.0 51.9 85.3 77.3 0.99 40.9 71.5 64.9 Measles 91.5 79.9 77.2 67.5 89.9 86.2 6.19 65.6 87.8 58.2 83.3 78.0 96.2 91.2 60.3 52.2 71.9 87.3 88.4 68.8 52.8 75.8 77.2 73.1 74.1 81.1 83.3 74.1 Percent Vaccinated with DPT3 67.5 89.9 59.3 66.5 79.5 92.4 68.0 75.0 93.4 77.0 50.6 85.8 69.3 77.8 45.9 70.5 78.6 9.07 72.8 82.0 71.5 45.0 91.4 85.3 68.7 88.2 88.7 62.7 60.1 78.1 28 DPT2 79.2 95.6 80.5 75.8 94.1 90.2 58.5 91.4 9.99 80.5 52.9 77.4 71.9 9.07 77.4 93.4 86.4 83.5 73.6 81.5 54.6 72.9 71.6 79.4 86.5 96.3 83.1 92.4 74.1 65.7 DPT 1 97.6 61.6 77.9 81.4 80.3 96.5 82.5 81.7 95.2 90.1 63.6 92.8 70.3 83.4 82.9 57.2 79.8 94.8 76.0 95.3 82.8 74.8 79.3 77.2 85.9 86.8 85.4 88.0 82.6 73.4 93.1 75.9 41.3 67.5 61.6 66.5 76.9 91.2 71.0 6.97 79.4 74.9 69.5 89.2 61.5 74.6 35.8 74.0 92.0 64.3 9.6/ 71.3 53.9 78.9 87.1 51.7 84.2 86.7 74.2 81.2 78.1 OPV OPV2 72.6 72.5 78.5 75.3 93.5 61.8 77.9 92.2 92.4 80.0 89.0 90.2 88.6 66.2 79.9 81.5 42.2 79.9 86.9 83.9 74.2 63.0 80.3 84.9 73.7 81.7 93.7 70.1 83.7 OPV1 66.5 93.2 80.6 93.1 91.0 0.69 84.6 46.6 83.9 96.2 59.1 77.8 80.0 83.2 92.6 83.3 80.4 80.7 95.2 85.4 94.7 76.0 92.8 87.7 75.1 71.3 87.3 86.1 85.9 82.7 78.7 OPV 0 37.2 68.5 62.8 83.3 91.3 9.89 6.09 78.4 71.4 82.8 78.2 61.2 90.6 27.4 52.9 53.4 61.4 71.6 83.4 66.2 20.5 50.2 67.7 12.1 58.1 47.3 81.2 0.99 63.1 83.1 86.3 82.3 84.8 92.8 84.9 84.4 98.4 97.1 94.0 81.4 94.7 69.2 81.8 87.5 59.0 87.3 9.96 82.6 97.0 88.9 74.2 98.6 85.2 87.4 76.4 89.4 92.1 **86.9** 88.3 89.1 according to States/UT # unweighted cases Arunachal Pradesh Jammu & Kashmir Himachal Pradesh Madhya Pradesh Andhra Pradesh UTs combined Uttar Pradesh Chhattisgarh Maharashtra West Bengal Uttarakhand States/UTs Tamil Nadu Meghalaya Jharkhand Karnataka Nagaland Rajasthan Mizoram Haryana Manipur Tripura Sikkim Gujarat Punjab Kerala Orissa Assam Bihar Delhi Total Goa

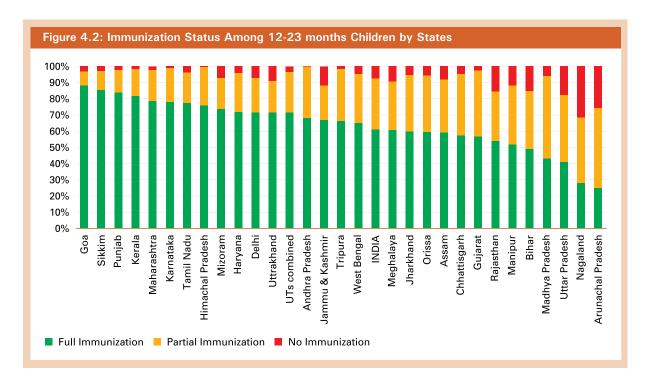
States/UTs						Percent	Vaccinated with	ed with				No. of
	BCG	0 Ado	0PV1	OPV2	OPV 3	DPT 1	DPT2	DPT3	Measles	Full	Received no	Children #
										Immunization	vaccination	
Andhra Pradesh	98.6	80.5	96.0	91.9	75.8	97.2	96.4	89.5	92.4	8.69	0.2	537
Arunachal Pradesh	63.4	47.3	55.3	43.6	35.5	58.2	50.3	39.4	49.8	23.0	29.1	353
Assam	87.0	34.1	79.2	72.9	68.9	80.7	74.1	69.5	81.2	61.0	7.9	539
Bihar	82.2	0.69	77.8	72.7	61.1	77.8	7.07	58.6	58.0	48.7	15.1	628
Chhattisgarh	82.5	62.7	7.77	70.3	62.2	74.2	8.79	62.1	70.3	52.7	5.7	261
Delhi	90.0	86.9	86.9	9.98	77.1	78.8	78.6	78.6	81.5	0.69	9.7	59
Goa	97.6	94.8	6.96	96.0	96.0	6.96	96.3	96.7	97.1	92.9	0.2	261
Gujarat	89.0	71.9	87.0	83.5	75.1	84.5	75.1	0.69	81.2	60.5	2.4	462
Haryana	83.2	57.3	79.2	78.7	76.0	78.6	77.3	73.0	78.7	6.69	4.4	335
Himachal Pradesh	98.7	79.5	93.9	89.7	79.7	97.1	9.96	94.6	97.1	76.3	0.1	275
Jammu & Kashmir	83.8	63.7	77.9	75.6	71.3	80.7	78.3	74.1	77.0	64.5	12.3	320
Jharkhand	87.7	70.1	79.2	72.7	66.3	80.8	73.5	9.59	64.8	56.3	6.3	374
Karnataka	96.8	86.3	94.6	92.8	9.98	94.5	93.4	8.98	83.8	78.5	1.5	433
Kerala	94.0	81.9	90.7	89.7	88.8	89.2	83.8	88.2	87.0	81.5	1.8	473
Madhya Pradesh	79.4	59.5	67.9	57.3	46.2	59.7	53.4	45.0	57.4	36.9	7.0	623
Maharashtra	94.6	89.3	92.3	87.7	81.9	92.2	90.5	81.9	91.1	73.8	2.6	624
Manipur	64.9	25.6	9.59	62.2	26.8	67.2	63.1	58.5	26.7	46.8	14.6	364
Meghalaya	81.7	50.1	92.6	81.7	77.5	84.1	79.4	72.9	76.8	62.9	11.0	344
Mizoram	82.7	60.1	80.4	9'5'	71.6	77.6	75.3	73.3	75.6	70.1	12.3	366
Nagaland	57.5	10.6	43.2	39.1	31.6	26.0	51.5	43.3	51.8	24.8	33.0	360
Orissa	86.6	59.5	83.2	79.1	73.1	80.1	77.8	9.07	72.5	59.3	5.9	529
Punjab	96.0	68.6	94.1	93.5	92.1	93.7	92.7	91.0	87.9	84.0	2.9	301
Rajasthan	80.3	53.6	73.0	67.9	61.9	74.2	70.3	2.09	66.7	54.4	17.7	526
Sikkim	96.6	85.1	92.6	85.5	85.5	95.5	85.4	84.9	86.5	84.9	3.4	230
Tamil Nadu	90.7	63.2	89.1	84.2	78.3	86.5	83.9	77.7	89.9	76.1	3.5	652
Tripura	71.5	19.3	72.9	71.6	69.1	72.4	71.1	6.79	66.3	63.7	2.0	360
Uttar Pradesh	74.9	48.6	69.7	61.4	52.3	72.1	64.1	56.5	50.5	38.3	18.3	672
Uttarakhand	87.0	61.1	87.2	83.4	78.4	86.9	80.8	77.6	75.1	70.3	9.7	292
West Bengal	90.4	46.0	89.8	80.5	73.6	87.0	80.1	72.8	79.2	65.8	4.8	501
UTs combined	92.5	81.6	85.7	85.6	83.5	86.9	85.9	82.5	83.9	73.8	4.2	444
Total	0	600	5	,	000	()	(,	,	L		1000

Children # No. of 427 261 526 324 299 272 300 261 318 287 417 396 266 242 258 281 330 269 368 174 416 243 440 284 326 69/ Table 4.8b: Percentage of children age 12-23 months who received specific vaccination (according to vaccination card or mother's report) 2 vaccination 15.8 24.8 4.3 15.9 1.5 2.9 3.8 9.7 2.6 0.0 1.5 2.6 2.1 2.0 5.4 1.3 8.8 0.0 4.4 0.8 4.1 5.1 **Immunization** 51.6 75.6 87.8 50.0 76.1 72.9 71.6 77.0 81.7 59.5 85.1 66.3 39.5 77.4 42.5 6.09 82.9 51.9 87.9 77.3 50.8 74.9 45.7 71.7 78.7 62.7 69.3 Measles 84.5 83.5 82.8 83.1 87.9 83.9 74.5 70.5 61.9 86.5 72.5 78.0 91.2 63.0 54.3 68.1 81.0 61.8 77.1 90.2 86.7 86.1 96.1 78.3 78.1 72.1 82.1 DPT3 Percent Vaccinated with 90.9 53.5 84.2 79.5 66.2 79.9 82.8 66.4 91.1 82.4 58.2 69.9 92.3 58.0 87.9 83.5 64.3 9.6 72.6 81.3 77.6 66.3 64.7 88.1 79.7 90.7 74.2 79.7 54.7 DPT2 83.9 83.6 95.5 91.5 72.6 92.5 76.4 86.7 83.5 88.5 72.4 87.1 69.6 60.0 75.6 94.8 77.1 92.7 82.9 85.9 71.8 83.6 87.3 96.1 70.7 64.7 77.4 82.7 DPT 1 98.8 74.6 69.5 78.8 84.7 91.0 84.8 96.5 92.8 63.0 78.4 96.8 82.0 82.8 74.2 94.4 85.0 86.3 88.8 86.4 89.2 76.2 80.4 88.3 78.4 86.3 81.2 88.1 93.7 78.7 88.2 90.3 67.0 87.4 76.0 58.0 65.0 83.5 76.9 86.3 76.3 86.0 74.4 62.5 56.0 79.4 91.9 72.2 94.8 81.2 82.5 59.8 80.2 75.6 9.6/ 79.1 84.7 63.1 64.1 OPV OPV2 65.3 70.0 70.8 81.3 88.6 74.3 83.3 82.6 84.0 94.8 91.6 74.5 77.3 87.5 56.9 84.6 94.0 77.5 84.6 92.9 87.0 95.7 83.4 86.9 69.4 79.8 87.1 72.7 85.1 82 **OPV1** 75.8 77.6 89.3 82.9 88.2 77.0 84.1 85.6 88.1 82.8 96.2 92.1 76.5 94.4 78.4 80.4 90.5 62.8 87.9 95.9 96.9 85.9 85.8 77.4 87.8 84.2 9.98 86.3 85.7 96.7 73.7 OPV 0 57.9 76.0 84.8 67.3 65.7 92.3 46.5 19.5 64.5 50.5 82.9 89.9 61.2 64.4 63.0 63.2 69.7 68.7 32.4 64.4 72.3 77.4 70.0 69.0 83.1 87.7 79.7 72.7 72.7 26.1 according to States/UT-Urban 100.0 82.8 94.1 87.5 95.5 98.6 76.0 87.9 89.6 86.3 94.0 86.8 95.0 81.0 81.9 92.5 97.9 86.6 87.4 82.2 92.0 86.8 91.3 81.4 89.1 78.1 97.7 66.1 91.4 90.1 89.2 # unweighted cases Jammu & Kashmir **Arunachal Pradesh** Himachal Pradesh Madhya Pradesh Andhra Pradesh **UTs** combined Uttar Pradesh Chhattisgarh Maharashtra West Bengal Uttarakhand States/UTs Tamil Nadu Meghalaya Jharkhand Karnataka Rajasthan Nagaland Mizoram Haryana Manipur Tripura Sikkim Gujarat Punjab Kerala Orissa Assam Bihar Delhi Total Goa

Highest 100.0 79.5 71.9 80.5 70.5 90.6 83.6 67.9 83.8 66.5 76.0 34.2 77.7 88.8 65.1 77.2 78.0 88.8 7.7.7 82.3 86.8 73.9 73.4 71.4 80.1 60.1 92.2 85.3 74.2 75. Table 4.8c: Percentage of children age 12-23 months who received full immunization (according to vaccination card or mother's report) Fourth 62.5 60.3 85.5 67.9 88.8 60.2 66.3 79.8 81.0 84.5 78.2 63.6 87.2 59.3 54.4 9.69 80.8 70.3 77.6 82.6 78.8 83.5 70.0 74.2 44.1 69.7 78.1 63.1 70.1 33.7 Wealth Index Middle 47.8 61.6 57.9 66.5 79.9 74.6 40.0 77.5 51.3 64.5 76.9 28.8 47.9 66.1 73.5 78.2 83.1 76.9 57.9 90.4 79.3 63.0 68.2 66.4 64.9 32.0 7.77 82.7 80.1 69.7 69.1 Percent children age 12-23 months who received full immunization Second 77.9 36.6 68.3 16.3 51.5 57.5 59.6 58.6 79.8 36.9 51.8 17.8 64.3 6.69 52.9 83.4 75.2 63.2 62.0 70.8 9.07 61.6 46.3 86.0 66.7 57.1 46.1 62.7 62.7 80.1 40.1 Lowest 61.5 44.9 47.5 75.6 59.0 39.0 52.4 94.7 34.9 58.6 32.9 12.5 76.8 63.6 61.6 34.2 38.9 58.5 47.3 61.6 36.1 60.1 74.1 83.1 71.4 64.1 9.5 52.7 36.1 7.1 Other Castes 82.9 68.9 65.8 9.9/ 80.8 43.0 80.5 68.0 70.0 87.8 64.5 54.5 57.9 74.2 55.9 32.2 91.5 63.3 90.3 54.2 79.4 66.3 16.8 65.2 78.4 61.2 60.1 88.1 71.1 Social Group 47.3 80.9 51.5 9.89 55.9 81.3 9.09 52.6 56.3 58.3 74.2 70.9 63.4 64.8 77.9 80.3 64.2 56.6 79.4 36.2 69.5 69.4 19.2 59.7 66.2 87.1 35.1 96.2 7.77 50.7 60.1 according to States and Selected Background Characteristics 100.0 73.3 27.5 55.9 36.8 46.6 8.96 50.5 23.8 73.2 41.1 56.9 79.5 23.8 54.6 34.5 61.2 73.8 27.0 46.2 43.3 95.0 54.3 65.8 33.2 75.5 58.2 48.6 49.8 15.7 89.7 ST 79.0 89.5 50.5 54.9 6.69 62.9 9.09 9.96 61.8 38.3 98.0 74.5 36.0 40.2 60.3 78.9 65.3 47.4 81.7 60.4 78.9 41.8 68.8 69.0 18.0 54.1 52.1 49.7 66.7 78.7 58.9 SC Urban 31.8 51.6 75.6 82.8 50.0 71.2 72.9 71.6 77.0 59.5 66.3 39.5 77.4 42.5 6.09 82.9 51.9 87.9 77.3 50.8 74.9 69.3 67.4 63.2 45.7 71.7 76.1 81.7 85.1 78.7 62.7 Residence Rural 8.69 23.0 61.0 69.0 92.9 60.5 6.69 76.3 64.5 56.3 78.5 81.5 36.9 73.8 46.8 62.9 24.8 59.3 84.0 54.4 84.9 38.3 70.3 65.8 58.5 48.7 52.7 70.1 76.1 63.7 Jammu & Kashmir **Arunachal Pradesh** Himachal Pradesh Madhya Pradesh Andhra Pradesh UTs combined **Uttar Pradesh** Chhattisgarh Maharashtra West Bengal States/ UTs Uttarakhand **Tamil Nadu** Meghalaya Jharkhand Karnataka Rajasthan Nagaland Mizoram Manipur Haryana Orissa Punjab Tripura Gujarat Sikkim Assam Kerala Bihar Delhi Total Goa

unweighted cases

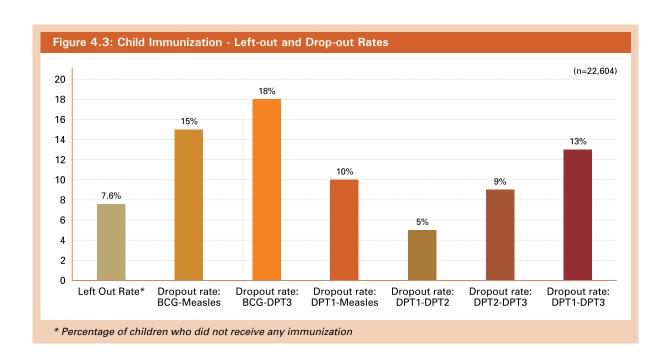
36



4.5 DROP - OUT RATE

In order to achieve universal immunization it is important to track children so that all vaccines can be administered. An attempt was made to analyse at what stage the children dropped out and did not get all vaccines. The BCG-measles drop-out rate was found to be 14.7 percent. The table further shows that 17.7 percent children dropped out between BCG and DPT3, 10.3 percent between DPT1 and Measles and 13.3 percent between DPT1 and DPT3. For instance, 30.2 percent children of 4 or more

birth order dropped between BCG and Measles and percentage of first birth order children was 12.2. Drop-out rate was more (15.8 percent) among rural children than that of urban children (12.2). Further drop-out rate decreases with the increase in mother's education (25.2 percent for illiterate mothers and 9.4 percent for mothers who have passed higher secondary at least) and increase in the wealth quintile from lowest (23.1 percent) to highest (10.6 percent). Dropout rate was reported more among scheduled caste (16.9 percent) and scheduled tribe children (18.0 percent) than their counterparts from other castes (13.5 percent)



Background Characteristics			Drop Ou	t Rates			Number of
	BCG- Measles	BCG- DPT3	DPT1- Measles	DPT1- DPT2	DPT2- DPT3	DPT1- DPT3	Children#
Mother's Age (in Years)							
15-19	22.5	17.9	16.7	4.2	8.0	11.8	591
20-24	12.6	15.5	9.0	4.2	8.1	12.0	7541
25-34	15.0	18.6	10.3	6.1	8.5	14.0	12713
35-44	22.4	25.4	14.6	5.8	12.8	17.9	1456
45+	12.9	20.2	6.9	1.6	13.4	14.8	297
Sex of child							
Male	13.4	17.2	9.0	5.4	8.1	13.0	12217
Female	16.3	18.4	11.8	5.3	9.2	14.0	10387
Birth Order							
1	12.2	13.9	8.5	3.8	6.7	10.2	9230
2	11.9	15.9	7.9	4.6	7.8	12.1	8157
3	16.8	22.5	12.6	7.6	11.8	18.6	3032
4+	30.2	31.4	21.6	9.6	14.7	23.0	2179

Background			Drop Ou	ut Rates			Number of
Characteristics	BCG- Measles	BCG- DPT3	DPT1- Measles	DPT1- DPT2	DPT2- DPT3	DPT1- DPT3	Children#
Residence							
Rural	15.8	19.7	10.9	5.9	9.7	15.0	12635
Urban	12.2	13.0	8.7	3.6	6.2	9.6	9969
Mother's Education							
No education	25.2	26.5	18.6	8.8	12.4	20.1	5732
<5 years completed	12.8	21.3	7.7	6.1	11.2	16.7	1258
5-7 years completed	10.8	18.3	6.0	5.2	9.2	13.9	3542
8-9 years completed	8.6	14.9	5.0	3.7	8.1	11.6	3760
10-11 years completed	9.4	9.4	6.9	2.2	4.8	6.9	3915
12 or more years completed	9.4	7.2	7.9	2.2	3.6	5.7	4397
Religious Group			•				
Hinduism	14.9	18.1	10.3	5.2	9.0	13.7	16296
Islam	16.8	20.0	11.3	7.1	8.1	14.7	2929
Sikhism	11.0	6.7	8.3	1.2	2.7	3.9	416
Christianity	7.5	10.4	6.5	3.2	6.4	9.4	2535
Other religious group	8.0	9.5	3.8	2.9	2.6	5.4	428
Social Group							
Scheduled Caste	16.9	20.9	12.2	6.4	10.8	16.5	3972
Scheduled Tribe	18.0	26.1	9.2	7.6	11.4	18.2	3929
Other Backward Classes	13.9	17.4	9.5	5.3	8.3	13.2	7866
Others	13.5	13.8	10.1	3.9	6.8	10.5	6837
BPL Status							
Have BPL Card	13.7	19.0	8.2	5.4	8.9	13.8	7146
Don't have BPL Card	15.5	16.9	11.7	5.1	8.5	13.1	15055
Wealth Index							
Lowest	23.1	27.9	16.8	9.5	13.8	22.0	4520
Second	12.3	17.2	7.8	5.6	7.8	12.9	4522
Middle	11.0	15.0	6.9	3.4	8.1	11.2	4520
Fourth	10.9	12.0	7.3	3.0	5.6	8.4	4522
Highest	10.6	7.3	8.6	1.0	4.3	5.3	4520
Total	14.7	17.7	10.3	5.3	8.6	13.4	22604

Calculation of drop-out rate: for example, BCG-DPT3 drop-out rate was calculated thus – (BCG coverage minus DPT3 coverage) divided by BCG coverage # unweighted cases

The analysis further shows that State differentials existed in the drop-out rates at all stages (Table 4.9b). Higher drop-out rate from BCG to Measles was observed in States such as Uttar Pradesh (30.9 percent), Bihar (29.3 percent), Arunachal Pradesh (27.0 percent), Madhya

Pradesh (24.0 percent), Jharkhand (22.8 percent) and Rajasthan (20.6 percent). The drop-out rates were low in Goa (1.3 percent), Himachal Pradesh (2.2 percent), Maharashtra (3.7 percent), Sikkim (0.1 percent) and Tamil Nadu (0.6 percent).

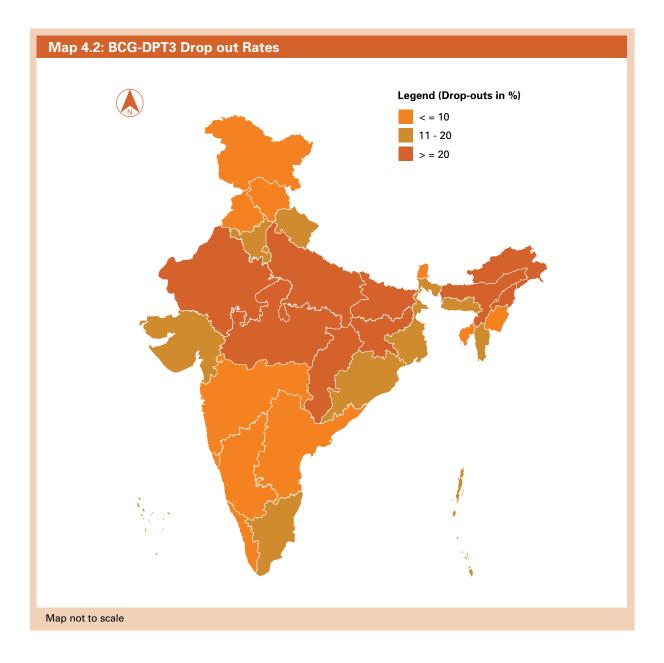


Table 4.9b: Child immunization drop-out rates among children aged 12-23 months according to States/UT

States/UTs		Child I	mmunizatio	n-Drop Out	: Rates		Number of
	BCG- Measles	BCG- DPT3	DPT1- Measles	DPT1- DPT2	DPT2- DPT3	DPT1- DPT3	Children#
Andhra Pradesh	8.3	8.8	7.4	1.3	6.6	7.9	887
Arunachal Pradesh	27.0	31.8	21.8	11.4	17.6	26.9	585
Assam	7.2	21.8	0.0	8.1	7.4	14.9	875
Bihar	29.3	27.9	25.3	9.4	16.0	23.9	1055
Chhattisgarh	13.8	21.6	5.3	7.3	7.1	13.9	522
Delhi	6.5	10.8	3.0	3.3	4.3	7.5	585
Goa	1.4	0.4	1.7	0.8	0.0	0.8	534
Gujarat	8.1	19.9	4.2	9.0	8.2	16.5	786
Haryana	5.3	11.1	0.5	1.4	5.3	6.6	634
Himachal Pradesh	2.2	5.1	0.3	0.9	2.3	3.2	547
Jammu & Kashmir	9.4	9.6	6.4	2.4	4.3	6.7	620
Jharkhand	22.8	21.4	17.4	7.2	9.4	15.9	635
Karnataka	7.4	9.2	5.6	1.2	6.3	7.4	751
Kerala	8.3	5.6	4.3	0.0	1.7	1.6	760
Madhya Pradesh	24.0	37.8	2.7	8.0	13.5	20.4	1040
Maharashtra	3.7	9.4	1.7	1.5	6.1	7.5	1020
Manipur	12.9	9.4	14.2	5.3	5.9	10.8	630
Meghalaya	9.4	15.3	11.2	7.2	10.5	16.9	586
Mizoram	7.3	11.1	2.2	2.9	3.4	6.2	624
Nagaland	11.5	22.2	8.7	7.5	13.2	19.8	641
Orissa	17.6	19.2	9.9	3.0	8.9	11.7	889
Punjab	9.6	5.4	7.9	1.5	2.1	3.6	570
Rajasthan	20.6	27.2	13.7	5.4	16.4	20.9	894
Sikkim	0.1	0.1	0.1	0.1	0.0	0.1	404
Tamil Nadu	0.6	11.6	0.0	2.7	5.9	8.4	1068
Tripura	7.3	4.9	8.0	1.6	4.1	5.6	603
Uttar Pradesh	30.9	24.0	28.1	10.5	11.6	20.8	1112
Uttarakhand	14.2	11.6	12.7	6.1	4.2	10.0	576
West Bengal	13.6	18.6	9.6	7.0	8.3	14.8	827
UTs combined	9.6	11.0	5.3	1.7	5.2	6.8	1213
Total	14.7	17.7	10.3	5.3	8.6	13.4	22604

Calculation of drop-out rate: for example, BCG-DPT3 drop-out rate was calculated thus – (BCG coverage minus DPT3 coverage) divided by BCG coverage # unweighted cases

4.6 COVERAGE OF BOOSTER DOSE OF DPT AND OPV

According to the immunization schedule, a child should get a DPT and OPV booster doses between the ages of 16-24 months. Hence the coverage of children by booster dose of DPT and OPV was analysed among children aged 18-23 months. Table 4.10 shows that 41.4 percent of the children received booster dose of DPT and 37.9 percent received booster dose of OPV. The proportion of children receiving booster dose of DPT and OPV was more in urban than in rural areas.

Further there were differentials with respect to the education of the mother and economic class, and in the proportion of children receiving booster dose of DPT and OPV. Slightly more male children received booster doses than female children. Mother's education level and wealth index of the household had a positive impact. Table 4.11a shows that the proportion of children receiving booster doses increased with the rise in the education level of the mothers. Booster immunization showed enhanced coverage from households with lowest wealth index to households with the highest index.

Table 4.10: Percentage of children age 18-2	3 months who recei	ved booster dose of	DPT and OPV
Antigens	Rural	Urban	Total
DPT Booster	37.2	52.1	41.4
OPV Booster	33.4	49.2	37.9
Number of 18-23 months children (n)#	5866	4617	10483

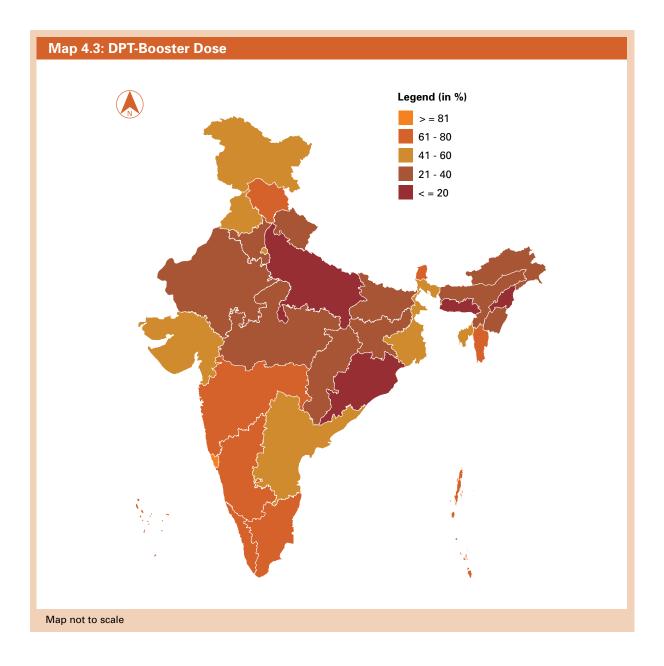
unweighted cases

Table 4.11a: Percentage of child according to selected background		s who received OPV/DF	T booster doses
Background Characteristics	Received DPT booster dose	Received OPV booster dose	Number of 18-23 month old children #
Sex of child			
Male	41.9	38.6	5736
Female	40.8	37.1	4747
Age of the child (months)			
18	37.4	32.1	1969
19	41.6	37.9	1597
20	39.0	35.1	1631
21	42.9	40.6	1451
22	46.6	42.2	1484
23	41.0	39.2	2351
Birth Order			
1	48.6	44.6	4218
2	45.5	41.3	3791
3	32.8	31.0	1444
4+	20.5	18.4	1030

Background Characteristics	Received DPT booster dose	Received OPV booster dose	Number of 18-23 month old children #
Residence	2003101 4030	Booster dosc	month old dimarch w
Rural	37.2	33.4	5866
Urban	52.1	49.2	4617
Mother's Education			
No education	25.9	23.7	2593
<5 years completed	40.5	36.4	593
5-7 years completed	45.6	42.0	1624
8-9 years completed	48.0	43.4	1713
10-11 years completed	52.1	48.0	1831
12 or more years completed	57.3	52.7	2129
Religious group			
Hinduism	42.0	38.2	7597
Islam	35.5	33.7	1374
Sikhism	58.0	50.8	204
Christianity	42.6	39.6	1099
Other religious group	41.1	41.0	209
Social group			
Scheduled Caste	39.3	35.8	1866
Scheduled Tribe	29.3	26.4	1718
Other Backward Classes	41.9	38.8	3651
Others	45.3	41.3	3248
BPL status			
Have BPL card	41.6	37.2	3285
Don't have BPL card	41.3	38.3	7198
Wealth Index			
Lowest	25.1	22.9	2093
Second	44.0	40.2	2017
Middle	53.1	47.8	2042
Fourth	47.9	45.9	2145
Highest	53.3	47.5	2186
Total	41.4	37.9	10483

There were wide State differentials with regard to the percentage of children who received booster doses of DPT and OPV. Around 90 percent of the children aged 18-23 months in Goa and 75 percent in Tamil Nadu received booster dose of DTP and OPV. The percentage of such children was between 50 and 70 percent in the States of Himachal Pradesh, Andhra

Pradesh, Delhi, Karnataka, Kerala, Mizoram, Punjab, Sikkim and Union Territories. The lowest coverage was found in the States of Assam, Bihar, Haryana, Jharkhand, Meghalaya, Nagaland, Orissa, Rajasthan and Uttar Pradesh, where less than 30 percent of the children aged 18-23 months had received booster doses of DPT and OPV (Table 4.11b).



according to States/UT	f children aged 18-23 month	- Who received or V/DI	
States/UT	Received DPT booster dose	Received OPV booster dose	Number of 18-23 months old children
Andhra Pradesh	58.3	45.1	359
Arunachal Pradesh	35.9	32.7	192
Assam	27.7	27.5	424
Bihar	26.0	24.1	460
Chhattisgarh	37.4	34.8	238
Delhi	56.1	50.1	231
Goa	89.1	89.9	274
Gujarat	43.7	41.8	360
Haryana	27.9	23.7	269
Himachal Pradesh	73.2	69.2	288
Jammu & Kashmir	42.0	38.7	265
Jharkhand	22.4	21.2	321
Karnataka	68.4	62.7	364
Kerala	62.4	53.3	397
Madhya Pradesh	29.8	26.9	454
Maharashtra	60.6	58.7	529
Manipur	39.9	39.1	296
Meghalaya	16.4	14.8	252
Mizoram	67.1	67.4	298
Nagaland	13.6	19.5	269
Orissa.	15.9	14.9	466
Punjab	53.8	46.0	312
Rajasthan	25.1	17.9	381
Sikkim	63.7	65.7	175
Tamil Nadu	78.9	75.6	485
Tripura	50.7	51.2	281
Uttar Pradesh	17.0	16.1	522
Uttarakhand	37.1	35.6	282
West Bengal	46.7	44.8	402
UTs combined	72.3	68.4	586
Total	41.4	37.9	10483

4.7 HEPATITIS B COVERAGE

Government of India is implementing Hepatitis B (Hep B) immunization under UIP in ten States and three Union Territories. These are Andhra Pradesh, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Punjab, Tamil Nadu, West Bengal, Andaman & Nicobar Islands, Puducherry and Lakshadweep. Additionally, private doctors/ nursing homes/private hospitals and some State governments (Delhi, Goa and Sikkim) are also implementing this programme. A child is given a birth dose of Hep B along with BCG and OPV0. Three injections of Hep B are also given along with DPT vaccines at the 1.5, 2.5 and 3.5 months of age. The analysis for Hepatitis B was done by segregating the States where the programme is being implemented from those where it was not. Description is focussed on States/UTs implementing the Hep B vaccination under UIP. The proportion of children who received the 1st dose was 70.7 percent, a figure that declines to 58.9 percent for the 3rd dose. There were urbanrural differentials in the coverage by Hepatitis B as 64.5 percent children received the 3rd dose of Hep B in urban areas compared with 55.9 percent in rural areas.

Table 4.12 further shows that a positive relationship existed between mother's education and children vaccinated against

Hep B. About 47 percent of the children of illiterate mothers received all the three doses of Hepatitis B vaccine. The proportion of such children increased to 74.2 percent for children whose mother had passed the higher secondary. Hepatitis B coverage also increased with the increase in wealth quintile from lowest to highest. For instance, 40.5 percent of the children from households with lowest wealth quintile received all the three doses of hepatitis vaccine and this percentage increased to 70.6 percent for the highest wealth quintile households. Comparatively less scheduled tribe children (42.7 percent) and scheduled caste (57.1 percent) were protected against Hepatitis B as compared to those from other backward class group (64.2 percent).

Hepatitis B coverage of children according to different States and Union Territories where Hepatitis has been implemented and not implemented has been shown in Table 4.13. The analysis showed wide variation of coverage among the States. In Goa, Kerala and Punjab more than 80 percent of children had been vaccinated with the third dose of Hep. B. In Madhya Pradesh Hep B3 coverage was below 30 percent. Among the nonimplementing States, e.g. in Mizoram, Gujarat and Haryana, reasonable coverage of the third dose of Hep B was achieved primarily from private sector providers.

Background Rural Urban		Ru	Rural			ร้	Urban			P	Total		No. of
Characteristics	Hep B	Hep B1	Hep B2	Hep B3	Hep B	Hep B1	Hep B2	Hep B3	Hep B	Hep B1	Hep B2	Hep B3	Children*# (n)
Mother's age (in years)													
15-19	18.2	75.8	8.99	52.4	31.1	75.2	69.3	66.3	21.9	75.6	67.5	56.3	286
20-24	22.8	8.69	66.1	57.2	34.4	76.6	72.5	62.9	26.5	72.0	68.2	29.0	3884
25-34	28.2	66.5	62.4	55.6	38.9	74.9	71.6	65.4	32.2	9.69	65.8	59.2	5617
35-44	25.5	53.9	49.5	46.9	42.3	71.3	71.8	64.7	31.8	60.4	57.8	53.5	472
45+	19.5	70.1	62.9	61.9	43.7	81.2	81.0	75.9	28.8	74.5	71.9	67.4	157
Sex of child													
Male	25.2	67.3	63.7	26.0	35.6	75.6	72.4	64.3	28.7	70.1	66.7	8.83	5614
Female	24.9	69.1	64.2	55.7	38.4	75.4	71.6	64.7	29.6	71.3	8.99	58.9	4802
Birth Order													
1	27.4	71.9	6'.29	29.0	36.2	7.97	73.3	67.2	30.7	73.7	6.69	62.1	4653
2	25.3	70.9	67.1	58.4	41.6	77.3	74.0	65.7	30.8	73.0	69.4	6.09	4114
3	22.2	59.8	54.4	48.1	30.6	74.4	70.2	26.7	24.6	64.0	58.9	20.5	1124
4+	14.8	45.5	40.3	37.1	21.5	51.6	46.6	44.7	16.6	47.1	42.0	39.1	525
Mother's Education													
No education	18.3	59.0	54.8	45.9	29.5	62.9	61.3	50.3	20.7	60.5	56.1	46.9	1899
<5 years complete	16.8	58.7	54.0	45.4	18.1	57.5	53.0	40.1	17.1	58.4	53.7	43.9	604
5-7 years complete	19.0	67.4	63.3	52.1	30.6	73.6	71.0	63.4	22.6	69.3	65.7	55.6	1729
8-9 years complete	23.5	68.3	63.3	54.3	36.5	78.2	74.1	9'.29	27.9	71.7	67.0	58.8	1759
10-11 years complete	38.9	9.62	75.5	70.3	39.4	78.5	74.8	67.5	39.1	79.2	75.2	69.2	2091
12 or more years complete	40.6	80.7	78.0	75.2	47.3	81.5	78.7	73.3	44.2	81.2	78.4	74.2	2334
Religious Group													
Hinduism	24.4	68.8	64.2	55.7	36.5	77.0	73.3	62.9	28.4	71.5	67.1	59.0	7878
Islam	24.2	58.6	54.4	47.7	37.2	67.1	63.3	55.3	30.0	62.4	58.4	51.1	1593
Sikhism	26.2	87.4	85.7	78.3	37.2	94.7	95.3	6.06	29.2	89.4	88.3	81.7	337
Christianity	46.3	91.9	86.9	83.3	44.4	87.0	84.6	71.6	45.7	90.4	86.3	79.6	466
Other religious group	22.5	32.3	45.4	39.0	39.4	69.1	68.1	63.5	30.0	48.7	55.5	49.9	142
Social Group													
Scheduled Caste	23.7	69.9	66.1	55.7	34.0	/3.6	69.7	61.0	26.4	70.9	67.0	57.1	2134
Other Bespecial Classes	70.7	03.0	2005	61.0	20.3	03.0	09.9	7 7 2	20.5	24.0	04.0	442.7	0707
Other Backward Classes	23.0	64.2	59.2 59.6	61.9	40.4 35.2	75.1	70.5	64.0	33.0 27.8	68.4	7.1.7	57.3	3/11
DDI C+otio	200	11.15	2:00		4.00	- 5	2	9	2	1:00	200	5	5
Have BPI Card	24.4	71.8	68.4	58.3	34.1	75.9	715	62.2	787	72.8	69 2	59.2	3628
Don't have BPL Card	25.8	64.5	59.5	53.5	38.1	75.9	72.9	66.2	31.0	69.3	65.1	58.9	6543
Wealth Index													
Lowest	17.5	52.2	47.5	40.9	26.7	52.9	47.0	37.5	18.4	52.3	47.4	40.5	1505
Second	23.0	73.7	68.4	58.3	29.3	65.1	61.9	53.1	24.4	71.7	6.99	57.0	2029
Middle	28.0	71.5	68.3	60.5	35.5	79.3	75.4	66.4	30.3	73.9	70.5	62.3	2197
Fourth	32.6	77.9	73.8	65.2	36.9	79.5	76.4	70.2	34.8	78.7	75.2	67.8	2298
Highest	39.2	7.67	787	72.2	0 77	70 5	,	,	9 6.5	000	-		
				2.0	5.44	0.2/	-0/	69.3	42.6	79.6	77.0	70.6	2387

* Number of children in States implementing Hep B immunization under UIP # unweighted cases

Table 4.13: Percentage of children age 12-23 months who received Hepatitis B vaccine according to States/UT	ldren ag	e 12-23 m											
States/UTs		Rural	al			Urban	an			Total	tal		No. of
	Hep B (Birth)	Hep B1	Hep B2	Hep B3	Hep B (Birth)	Hep B1	Hep B2	Hep B3	Hep B (Birth)	Hep B1	Hep B2	Hep B3	Children*# (n)
Hep B implementing States/UTs under UIP Prog	Inder UIP F	Programme											
Andhra Pradesh	10.9	93.9	91.4	71.4	21.3	95.7	88.2	69.2	13.8	94.4	90.5	70.8	887
Delhi	59.5	73.0	8.89	62.3	63.4	72.8	68.5	64.6	63.1	72.8	68.5	64.5	585
Goa	46.0	79.5	84.7	84.5	44.3	74.0	78.0	78.0	45.2	76.7	81.4	81.3	534
Himachal Pradesh	48.9	17.7	74.2	71.9	30.9	71.6	67.8	62.6	47.1	76.5	73.5	71.0	547
Jammu & Kashmir	43.1	62.3	9.69	55.0	58.4	76.8	73.2	71.9	46.9	62.9	63.0	59.2	620
Karnataka	49.6	88.9	85.2	9.92	53.6	8.06	8.98	75.0	51.0	9.68	85.7	76.1	751
Kerala	0.69	86.7	83.4	82.1	66.7	83.5	82.6	9.62	68.4	85.9	83.2	81.5	760
Madhya Pradesh	9.7	25.2	22.4	19.8	19.7	44.4	42.8	36.7	12.3	30.3	27.8	24.3	1040
Maharashtra	15.1	8.09	53.8	46.7	35.3	77.4	74.7	9.89	23.7	67.8	62.7	56.0	1020
Punjab	32.8	86.1	84.3	81.1	33.1	90.3	86.9	84.7	32.9	87.5	85.2	82.3	570
Sikkim	1.1	91.7	81.6	79.6	2.9	86.2	83.9	77.2	1.4	6.06	81.9	79.3	404
Tamil Nadu	47.6	73.2	9.89	60.5	45.0	72.7	8.69	6.99	46.4	73.0	69.1	63.3	1068
West Bengal	5.9	54.8	49.2	42.3	16.4	59.9	56.0	46.7	8.8	56.3	51.1	43.6	827
UTs combined*	46.6	75.5	72.3	68.2	47.8	74.5	71.8	63.1	47.3	75.1	72.1	65.5	672
Total	25.1	68.1	63.9	55.9	37.0	75.5	72.0	64.5	29.2	70.7	2'99	58.9	10416
States/UTs not implementing Hep	В.												
Arunachal Pradesh	8.0	11.1	9.9	5.9	13.7	15.3	11.1	10.4	9.2	12.0	7.5	8.9	282
Assam	3.9	8.1	5.4	5.4	11.9	21.2	17.0	15.7	4.9	9.8	6.9	6.7	875
Bihar	1.9	6.4	4.7	2.8	9.3	15.7	12.6	11.7	2.7	7.4	5.5	3.7	1055
Chhattisgarh	15.5	6.1	4.9	5.6	23.9	32.9	21.4	20.6	17.2	11.5	8.2	9.8	522
Gujarat	26.1	43.3	31.4	27.3	27.3	40.0	34.8	31.1	26.6	42.1	32.7	28.7	786
Haryana	25.4	28.4	26.9	26.4	35.5	46.1	42.8	38.3	28.3	33.5	31.5	29.8	634
Jharkhand	2.9	5.5	4.4	3.6	8.9	15.3	15.0	11.2	4.3	7.6	6.8	5.3	635
Manipur	13.3	21.4	13.9	10.3	10.8	21.5	19.7	12.3	12.6	21.4	15.4	10.9	631
Meghalaya	3.8	6.6	2.5	2.4	10.6	35.3	26.0	20.4	5.1	14.9	7.1	6.3	286
Mizoram	52.4	54.7	54.6	54.0	38.6	42.9	41.7	40.2	45.6	48.8	48.2	47.2	624
Nagaland	1.3	16.8	14.8	10.1	9.	23.6	21.0	20.5	1.2	18.0	15.9	11.9	641
Orissa	8.1	14.2	13.3	11.3	16.8	37.0	33.9	27.0	9.4	17.6	16.4	13.7	688
Rajasthan	2.7	10.4	6.5	5.3	23.3	18.9	11.9	8.2	7.5	12.4	7.8	0.9	894
Tripura	-	1.2	7.	1.3	4.0	7.8	2.6	2.0	7.	2.3	1.0	1.4	603
Uttar Pradesh	6.8	11.7	2.0	6.2	14.9	25.1	22.2	17.7	8.5	14.5	8.6	9.8	1112
Uttarakhand	9.3	16.7	13.2	6.6	28.0	36.2	28.4	22.5	14.1	21.7	17.1	13.1	576
UTs combined**	8.0	28.5	24.0	24.4	14.8	53.2	47.8	42.0	12.7	42.5	36.1	34.3	541
Total	10.4	16.4	12.7	11.5	17.2	28.8	24.3	20.8	11.7	19.1	15.2	13.5	12189

* UTs: Andaman & Nicobar Islands, Puducherry & Lakshadweep ** UTs: Dadra & Nagar Haveli, Daman & Diu and Chandigarh # unweighted cases

4.8 PLACE OF IMMUNIZATION

The analysis of the data shows that public sector was the primary service provider for childhood vaccinations (89.8percent). Nearly 53 percent of the children received vaccination from outreach vaccination sites such as saub-centre (18.9percent), Anganwadi centre (25.6 percent) and other places in villages while remaining received vaccinations from PHC/CHC/Govt. Hospital. Private sector contributed 8.7 percent in the immunization programme (Table 4.14). However in urban areas, 43.6 percent children received vaccination from Government/ Municipal Hospital and another 21.1 percent from private hospital/clinic. Private sector contributed to larger proportion of childhood immunization in urban areas (21.1percent) than in rural areas. About 34 percent children from highest wealth quintile received vaccination from private hospital/clinic.

State variations in the percentage of children who received vaccinations in government and private sector health facilities are shown in Tables 4.15a-c. Comparatively more children in Delhi (28.3

percent), Kerala (21 percent) and Tamil Nadu (20 percent) went to private sector for immunization. About 50 percent or more children aged 12-23 months in Bihar (49.4 percent) Chhattisgarh (73.2 percent), Jharkhand (64.9 percent), Madhya Pradesh (55.7 percent) and Orissa (52.8 percent) received vaccinations at the *Anganwadi* centre.

Table 4.15b indicates that in many States high proportion of children from rural areas come to Government/Municipal hospitals for vaccination. For instance, 38 percent children in Andhra Pradesh, 55.1 percent in Arunachal Pradesh, 33 percent in Delhi, 64.1 percent in Kerala, 50.2 percent in Manipur, 33.8 percent in Punjab, 37.9 percent in Sikkim, 60.1 percent in Tamil Nadu and 65.1 percent in Tripura went to Government/Municipal hospitals for vaccination. Strengthening outreach immunization services will further boost the immunization coverage in rural and hard to reach areas.

In urban areas of almost all the States, the major source of vaccination was Government/ Municipal hospital followed by Private hospital/ clinic (Table 4.15c).

Table 4.14: Percent						•	r fully imi	nunized by place
Background	Govt./	PHC/	Private		Ou	t reach		No. of children
characteristics	Municipal Hospital	СНС	Hosp./ Clinic	Sub Centre	AWC	Some Place in Village)	Others	immunised with at least one vaccine#
Mother's Age (in '	Years)							
15-19	15.3		6.5	3.5	548			
20-24	27.1		3.2	7209				
25-34	23.5	13.2	11.6	17.3	25.5	3.9	5.1	11885
35-44	17.1	15.5	8.5	18.7	26.4	6.3	7.5	1280
45+	23.7	12.5	7.6	15.2	31.7	5.1	4.2	268
Sex of child								
Male	23.8	12.5	10.3	18.9	25.8	4.2	4.6	11461
Female	24.6	12.5	10.0	19.0	25.2	4.4	3.2	9729
Birth Order								
1	27.1	13.1	13.2	19.3	21.2	3.4	2.7	8863
2	26.4	12.6	10.3	17.9	25.3	3.2	4.4	7707
3	19.7	11.7	5.5	20.6	31.7	4.6	6.1	2754
4+	13.3	10.9	5.3	19.2	33.6	9.7	7.9	1866

Background	Govt./	PHC/	Private		Ou	t reach		No. of
characteristics	Municipal Hospital	СНС	Hosp./ Clinic	Sub Centre	AWC	Some Place in Village)	Others	children immunised with at least one vaccine#
Residence								
Rural	16.4	12.5	5.8	24.0	31.2	5.2	4.9	11703
Urban	43.6	12.5	21.1	6.3	11.4	2.0	3.2	9487
Mother's Education								
No education	13.8	10.9	3.4	21.6	37.1	7.3	5.9	4902
<5 years complete	21.0	9.6	6.6	22.1	35.2	2.6	2.9	1183
5-7 years complete	24.5	14.4	5.9	22.9	25.0	3.7	3.6	3334
8-9 years complete	27.1	14.5	8.9	19.5	22.2	4.0	3.8	3633
10-11 years complete	36.6	14.3	15.2	15.3	13.6	2.3	2.8	3814
12 or more years complete	34.5	11.1	29.2	9.3	10.3	0.7	4.8	4324
Religious group			l					
Hinduism	23.0	12.2	10.1	18.6	27.4	4.3	4.5	15580
Islam	26.7	14.2	10.2	23.3	17.4	5.2	3.0	2597
Sikhism	29.2	13.3	10.4	20.0	8.5	2.2	15.5	396
Christianity	40.2	15.4	12.0	16.1	11.1	2.2	2.9	2234
Other religious group	34.9	3.9	12.0	2.3	45.6	0.8	0.5	383
Social group								
Scheduled Caste	24.9	9.8	4.2	24.1	27.8	5.2	4.0	3743
Scheduled Tribe	14.6	9.8	3.2	17.5	49.5	2.6	2.7	3444
Other backward Classes	24.5	14.8	10.9	14.6	25.6	5.1	4.5	7443
Others	25.8	12.1	15.6	21.3	17.4	2.8	5.1	6560
BPL status								
Have BPL card	21.6	11.2	5.0	21.2	32.9	3.7	4.5	6688
Don't have BPL card	25.7	13.3	13.3	17.6	21.1	4.6	4.4	14502
Wealth Index								
Lowest	7.6	9.3	1.7	24.6	42.3	8.0	6.4	3982
Second	25.8	13.7	3.4	21.5	28.4	3.5	3.6	4132
Middle	32.3	15.4	8.4	18.4	19.1	3.1	3.3	4282
Fourth	36.0	15.3	16.5	14.9	12.4	2.0	2.9	4363
Highest	33.7	10.4	33.9	7.9	8.0	1.5	4.6	4431
Total	24.2	12.5	10.2	18.9	25.6	4.3	4.4	21190

Table 4.15a: Percentage of children aged 12-23 months who were partially or fully immunized according to place of immunization, for most vaccines, according to States/UT - Total

States/UT	Govt./	PHC/	Private			t reach		No. of
	Municipal Hospital	СНС	Hosp./ Clinic	Sub Centre	AWC	Some Place in Village)	Others	children immunised with at least one vaccine#
Andhra Pradesh	42.6	6.9	7.9	26.0	12.9	2.5	1.2	883
Arunachal Pradesh	62.0	12.4	2.3	19.5	1.9	0.2	1.7	451
Assam	21.9	13.4	5.0	45.9	11.8	1.8	0.1	799
Bihar	8.3	8.4	6.8	19.6	49.4	2.5	5.1	953
Chhattisgarh	8.4	7.2	5.5	1.9	73.2	1.5	2.1	506
Delhi	45.1	3.5	28.3	17.8	1.0	0.9	3.4	558
Goa	24.2	31.1	13.5	29.3	1.9	0.0	0.0	534
Gujarat	14.1	22.5	10.9	9.6	31.5	0.5	10.9	772
Haryana	23.8	16.6	12.1	35.0	9.9	0.0	2.6	612
Himachal Pradesh	11.0	33.5	1.3	40.6	6.3	0.0	7.4	542
Jammu & Kashmir	42.0	23.7	2.7	28.2	2.9	0.3	0.3	558
Jharkhand	5.9	5.3	7.8	9.1	64.9	4.5	2.5	604
Karnataka	31.0	18.4	9.7	5.8	34.1	0.2	0.9	747
Kerala	62.2	11.7	21.0	3.7	1.1	0.3	0.0	749
Madhya Pradesh	11.6	9.3	3.8	12.7	55.7	0.9	5.9	991
Maharashtra	33.7	11.2	11.6	4.7	33.8	3.6	1.3	993
Manipur	47.6	20.6	7.7	14.1	1.4	2.2	6.4	578
Meghalaya	17.2	47.8	4.7	17.3	0.1	11.6	1.3	548
Mizoram	2.4	1.5	8.9	85.1	1.0	0.2	0.8	571
Nagaland	34.3	14.2	12.2	37.6	0.0	0.9	0.7	453
Orissa	8.1	6.5	4.4	13.8	52.8	6.8	7.6	877
Punjab	37.0	12.4	13.2	13.3	8.2	0.0	16.0	555
Rajasthan	20.5	12.1	5.1	19.9	39.1	2.1	1.2	785
Sikkim	43.1	12.8	0.6	30.9	11.3	0.0	1.3	401
Tamil Nadu	53.0	22.3	20.0	3.8	0.2	0.0	0.7	1028
Tripura	68.9	3.3	1.1	17.2	3.3	3.4	2.8	592
Uttar Pradesh	11.2	16.0	14.6	17.8	13.6	17.0	10.0	908
Uttarakhand	10.0	15.3	8.8	50.3	11.4	3.2	1.1	534
West Bengal	16.6	4.4	5.7	60.5	5.4	3.9	3.5	802
UTs combined	47.4	15.6	9.5	14.9	7.8	0.1	4.7	1181
Total	24.2	12.5	10.2	18.9	25.6	4.3	4.4	21190

Table 4.15b: Percentage of children aged 12-23 months who were partially or fully immunized according to place of immunization for most vaccines according to States/UT - Rural

States/UT Govt./ PHC/ Private Out reach No

States/UT	Govt./	PHC/	Private		Ou	t reach		No. of
	Municipal Hospital	СНС	Hosp./ Clinic	Sub Centre	AWC	Some Place in Village)	Others	children immunised with at least one vaccine#
Andhra Pradesh	37.8	5.2	5.7	31.9	15.1	3.0	1.2	535
Arunachal Pradesh	55.1	14.1	2.6	23.5	2.5	0.1	2.1	261
Assam	15.4	14.8	3.8	51.1	13.0	1.9	0.0	485
Bihar	6.2	7.6	4.8	21.2	51.8	2.8	5.6	566
Chhattisgarh	3.1	7.1	1.6	2.4	83.6	1.5	0.6	251
Delhi	33.0	10.0	8.9	42.6	1.5	1.2	2.8	57
Goa	11.4	30.5	12.2	45.5	0.5	0.0	0.0	261
Gujarat	4.4	24.8	3.3	13.0	40.1	0.3	14.1	450
Haryana	18.5	14.8	7.4	44.0	12.2	0.0	3.1	321
Himachal Pradesh	4.8	36.0	0.8	43.5	6.9	0.0	8.1	274
Jammu & Kashmir	29.7	31.1	1.3	33.3	3.8	0.4	0.3	282
Jharkhand	1.7	1.7	2.5	10.4	76.8	5.9	1.0	350
Karnataka	20.2	24.5	4.6	8.4	41.4	0.3	0.6	429
Kerala	64.1	12.3	17.9	4.5	0.8	0.4	0.0	466
Madhya Pradesh	4.1	8.7	1.1	15.6	62.0	1.0	7.5	582
Maharashtra	19.7	12.7	8.7	7.8	49.3	1.8	0.1	604
Manipur	50.2	13.4	8.4	15.9	2.0	2.3	7.7	329
Meghalaya	5.0	57.7	0.8	20.5	0.0	14.7	1.2	314
Mizoram	4.2	1.2	3.2	88.4	2.1	0.4	0.6	319
Nagaland	24.1	16.5	13.5	44.3	0.0	1.1	0.5	232
Orissa	1.8	6.8	0.5	15.7	59.0	7.3	8.8	555
Punjab	33.8	16.0	6.0	18.2	11.9	0.0	14.1	291
Rajasthan	11.6	11.1	1.8	25.3	46.1	2.7	1.3	448
Sikkim	37.9	14.0	0.0	34.5	12.5	0.0	1.1	227
Tamil Nadu	60.1	24.8	9.1	5.3	0.4	0.0	0.5	633
Tripura	65.1	3.6	0.2	20.3	4.0	3.5	3.3	353
Uttar Pradesh	3.8	15.0	11.6	21.7	16.1	20.6	11.1	538
Uttarakhand	2.2	16.4	2.4	62.5	14.2	1.6	0.7	275
West Bengal	8.4	1.8	1.5	74.2	5.7	4.1	4.1	490
UTs combined	45.5	15.9	5.7	19.7	8.9	0.1	4.3	424
Total	16.4	12.5	5.4	24.0	31.2	5.2	4.9	11703

Table 4.15c: Percentage of children aged 12-23 months who were partially or fully immunized according to place of immunization for most vaccines according to States/UT - Urban

States/UT	Govt./	PHC/	Private			t reach		No. of
	Municipal Hospital	CHC	Hosp./ Clinic	Sub Centre	AWC	Some Place in Village)	Others	children immunised with at least one vaccine#
Andhra Pradesh	55.2	11.3	13.7	10.4	7.1	1.1	1.2	348
Arunachal Pradesh	83.4	7.2	1.6	7.0	0.0	0.4	0.4	190
Assam	67.2	4.3	13.7	10.0	3.3	0.8	0.7	314
Bihar	26.3	14.9	24.1	5.8	28.5	0.1	0.3	387
Chhattisgarh	28.7	7.8	20.7	0.1	33.3	1.6	7.8	255
Delhi	46.0	3.0	29.7	16.0	0.9	0.9	3.5	501
Goa	37.1	31.7	14.8	13.0	3.3	0.0	0.0	273
Gujarat	30.1	18.6	23.5	4.1	17.4	0.9	5.6	322
Haryana	36.6	21.1	23.8	13.2	4.3	0.0	1.1	291
Himachal Pradesh	68.7	9.9	6.3	13.2	1.0	0.0	0.9	268
Jammu & Kashmir	77.8	1.8	6.7	13.0	0.2	0.0	0.4	276
Jharkhand	20.0	17.3	25.5	4.7	24.9	0.0	7.7	254
Karnataka	51.7	6.6	19.6	0.9	20.0	0.0	1.3	318
Kerala	56.8	10.0	29.9	1.2	2.1	0.0	0.0	283
Madhya Pradesh	31.4	10.8	11.0	5.1	39.2	0.8	1.5	409
Maharashtra	52.5	9.3	15.5	0.5	13.2	6.0	3.0	389
Manipur	41.0	38.4	5.8	9.6	0.0	2.0	3.2	249
Meghalaya	62.8	10.5	19.3	5.1	0.4	0.0	2.0	234
Mizoram	0.9	1.8	14.2	82.2	0.0	0.0	1.0	252
Nagaland	78.1	4.7	6.8	9.1	0.0	0.0	1.3	221
Orissa	44.0	4.7	26.8	2.5	17.1	3.7	1.2	322
Punjab	43.2	5.3	27.0	3.8	1.0	0.0	19.6	264
Rajasthan	47.0	15.0	14.8	3.7	18.3	0.5	0.8	337
Sikkim	75.8	5.2	4.5	8.6	3.8	0.0	2.2	174
Tamil Nadu	43.9	19.1	34.0	1.9	0.0	0.0	1.1	395
Tripura	87.6	1.6	5.3	2.2	0.0	3.3	0.0	239
Uttar Pradesh	37.7	19.6	25.2	3.5	4.4	3.7	5.9	370
Uttarakhand	32.1	12.0	26.9	16.0	3.3	7.7	2.0	259
West Bengal	37.4	11.1	16.3	25.4	4.6	3.4	1.7	312
UTs combined	54.4	14.2	12.7	10.4	4.1	0.2	4.0	757
Total	43.6	12.5	19.4	6.3	11.4	2.0	3.2	9487

4.9 DISTANCE TRAVELLED AND TIME TAKEN FOR CHILD'S IMMUNIZATION

The mothers/care givers of the children aged 12-23 months were asked about the distance travelled to reach the place of immunization. The data analyzed according to background characteristics is shown in Table 4.16. The table indicates that around 44 percent of mothers travelled less than one kilometer and another 39 percent traveled 1-3 kilometers to vaccinate their child. Only 17 percent mothers reportedly travelled beyond

3 kilometers for their child's vaccination. More than three–fourth mothers took less than 20 minutes to reach the place of immunization. The average distance travelled by a mother to reach the place of immunization was 2.2 kilometers and the average time taken was 18 minutes. There was no statistically significant difference in the distance travelled by rural and urban mothers for their children's vaccination. Scheduled tribes had to travel more distance, on an average, as compared to other caste categories for their child's vaccination. Higher wealth quintile mothers travelled more than lower quintile mothers.

Background		Dis	tance (in km.)		Т	ime take	en (in M	inutes)	No. of
characteristics	<1	1-3	3-5	5+	Mean distance (Kms.)	<20	20-30	30+	Mean time (minutes)	children immunised with at least one vaccine#
Residence										
Rural	56.2	30.1	5.3	8.4	2.2	80.0	12.0	8.0	18.2	11703
Urban	42.3	43.7	6.7	7.3	2.1	78.4	15.7	5.9	17.6	9487
Religious Group)									
Hinduism	52.9	33.2	5.6	8.3	2.0	79.8	12.8	7.5	17.6	15580
Islam	50.6	37.9	5.6	5.9	1.8	78.1	15.0	6.9	18.4	2597
Sikhism	52.5	31.8	5.5	10.2	2.3	87.2	9.6	3.3	14.7	396
Christianity	33.4	40.7	10.9	15.0	3.3	68.4	18.5	13.1	20.8	2234
Others	61.3	29.0	6.7	2.9	3.5	89.9	7.7	2.4	18.7	383
Social Group										
Scheduled Caste	58.1	31.8	4.8	5.3	1.7	80.7	13.4	5.8	17.0	3743
Scheduled Tribe	54.1	36.7	4.4	4.9	2.7	81.7	11.4	6.9	19.6	3444
Other backward Classes	51.3	33.8	5.7	9.3	2.1	79.8	12.5	7.6	17.5	7443
Others	48.5	35.1	6.8	9.5	2.2	77.6	14.0	8.4	18.4	6560
BPL status										
Have BPL card	56.2	32.0	4.9	6.8	2.1	81.2	11.9	6.9	18.0	6688
Don't have BPL card	49.8	35.1	6.2	8.9	2.3	78.5	13.8	7.7	18.0	14502

Table 4.16: Cont	d									
Background		Dis	tance (in km.)		Т	īme take	en (in M	inutes)	No. of
characteristics	<1	1-3	3-5	5+	Mean distance (Kms.)	<20	20-30	30+	Mean time (minutes)	children immunised with at least one vaccine#
Wealth Index										
Lowest	63.3	28.8	3.5	4.4	1.4	81.1	11.6	7.2	17.1	3982
Second	55.8	31.9	5.6	6.6	2.1	81.3	12.3	6.3	17.7	4132
Middle	47.5	36.6	6.4	9.5	2.4	77.5	15.7	6.8	18.9	4282
Fourth	45.7	36.9	7.3	10.2	2.6	78.4	14.1	7.5	18.7	4363
Highest	35.9	41.7	8.0	14.3	2.6	77.1	12.9	10.0	17.9	4431
Total	43.7	39.3	7.3	9.7	2.2	76.5	14.3	9.3	18.0	21190
# unweighted case	s									

State differentials with regard to distance travelled existed. In the States like Arunachal Pradesh, Manipur, Kerala, Meghalaya, Tamil Nadu and

Sikkim, mothers had to travel more distance (around 5 kilometres) and spent more time on travel for their child's vaccinations (Table 4.17).

Table 4.17: Percentage of children aged 12-23 months who received at least one vaccine according
to the distance travelled to reach the place for last immunization and time taken to reach that place
according to States/UT

States/UT		Dis	tance (i	n km.)		Т	ime take	n (in Mi	nutes)	No. of
	<1	1-3	3-5	5+	Mean distance (Kms.)	<20	20-30	30+	Mean time (minutes)	children immunised with at least one vaccine#
Andhra Pradesh	55.3	32.8	5.0	6.9	1.6	78.9	14.6	6.5	16.7	883
Arunachal Pradesh	7.0	44.6	15.9	32.5	5.6	51.2	18.8	29.9	30.2	451
Assam	9.8	76.5	8.6	5.0	2.1	65.9	22.1	12.0	21.9	799
Bihar	71.8	19.0	3.5	5.8	1.1	81.7	9.0	9.3	15.8	953
Chhattisgarh	62.8	32.6	1.2	3.3	0.7	93.0	4.8	2.2	10.8	506
Delhi	18.7	67.0	10.6	3.7	2.1	66.7	18.0	15.3	23.1	558
Goa	30.0	38.3	11.9	19.8	3.2	80.7	14.1	5.2	17.9	534
Gujarat	49.2	41.5	4.4	4.9	1.5	83.0	13.2	3.8	14.8	772
Haryana	41.1	49.7	4.1	5.2	1.5	83.0	9.9	7.0	15.5	612
Himachal Pradesh	32.9	55.0	3.6	8.4	1.9	66.9	15.9	17.2	23.3	542
Jammu & Kashmir	42.7	41.3	7.8	8.2	2.3	63.3	24.1	12.5	22.9	558
Jharkhand	42.6	48.0	4.1	5.3	1.4	86.8	8.8	4.5	12.5	604

States/UT		Dis	tance (i	in km.)		Т	ime take	n (in Mi	nutes)	No. of
	<1	1-3	3-5	5+	Mean distance (Kms.)	<20	20-30	30+	Mean time (minutes)	children immunised with at least one vaccine#
Karnataka	59.9	21.9	6.8	11.4	2.0	83.4	13.4	3.2	14.5	747
Kerala	15.5	43.9	19.1	21.5	4.5	68.5	16.7	14.7	22.1	749
Madhya Pradesh	55.1	34.8	4.0	6.1	1.6	81.7	10.2	8.1	17.6	991
Maharashtra	68.1	24.2	3.6	4.1	1.1	88.4	9.4	2.2	12.8	993
Manipur	34.9	27.9	16.6	20.6	5.2	65.2	16.8	18.0	23.6	578
Meghalaya	25.3	37.2	15.5	22.0	3.8	50.3	26.5	23.2	24.9	548
Mizoram	79.5	15.3	2.9	2.3	0.6	94.3	4.1	1.6	11.2	571
Nagaland	49.8	36.9	4.9	8.4	2.2	77.0	14.8	8.1	17.1	453
Orissa	69.4	25.5	2.2	2.9	0.9	80.7	9.7	9.6	17.4	877
Punjab	52.9	33.3	3.6	10.2	2.0	90.4	7.2	2.4	12.0	555
Rajasthan	60.9	30.3	4.3	4.5	1.3	87.5	8.0	4.5	12.9	785
Sikkim	9.0	61.3	14.1	15.6	3.6	50.0	23.4	26.6	27.1	401
Tamil Nadu	14.5	47.4	13.3	24.8	4.5	72.0	16.5	11.4	21.9	1028
Tripura	5.5	69.5	11.6	13.3	2.9	69.0	23.5	7.5	19.0	592
Uttar Pradesh	62.0	23.2	4.8	10.0	1.9	75.9	14.5	9.6	18.0	908
Uttarakhand	39.5	45.5	6.8	8.2	2.3	65.1	21.8	13.1	21.5	534
West Bengal	49.2	42.5	5.1	3.2	1.2	74.6	19.1	6.2	17.1	802
UTs combined	41.3	44.4	7.1	7.2	1.8	86.6	10.7	2.7	14.3	1181
Total	43.7	39.3	7.3	9.7	2.2	76.5	14.3	9.3	18.0	21190

4.10 SOURCE OF INFORMATION

Main source of information about the immunization was the *Anganwadi* worker (38.2 percent) followed by ANM/LHV/male worker (38 percent), Government doctor (24.7 percent), and family member (21.3 percent) (Table 4.18). Rural mothers received information mostly from *Anganwadi* worker (44.6 percent), and ANM/LHV/Male worker (39.8 percent) whereas urban mothers received it mainly from Government doctor (36.6 percent) and ANM/LHV/Male worker (33.5 percent). Further, illiterate mothers mostly received information from *Anganwadi* worker (47.7 percent) followed by ANM/LHV/male worker (38.2 percent). Mothers from higher wealth quintile were more likely to get information from

Government or private doctor compared to that of lowest quintile mothers.

The reported source of information on immunization varied from State to State. For instance, in the States of Jammu & Kashmir, Meghalaya, and Tripura the government doctor gave information to more than 50 percent mothers (Table 4.19a). On the other hand in the States of Andhra Pradesh, Goa, Himachal Pradesh, Tamil Nadu, Mizoram, Uttarakhand, West Bengal and Uttar Pradesh ANM/LHV/Male workers were the main sources of information. Further in States like Bihar, Chhattisgarh, Gujarat, Himachal Pradesh, Jharkhand, Madhya Pradesh, Maharashtra, Orissa, and Rajasthan, the *Anganwadi* worker was reported as the main source of information. There were rural and urban differentials in the sources of information across States (Tables 4.19b-c).

Color LHVI, Mark TBA Member Member Monther TV Media protect Trinoidal protect e (in Years) 1.2 LHVI (M) TRA Member Member Month Member TV Media protect Trinoidal protect 2.6.2 1.12.2 4.02 38.5 39.8 1.6 2.2.1 1.2 1.4 4.6 1.7 1.6 1.6 1.7 1.6<	Background	Govt	Background Govt Dvt	ANM/	ANM AWW ASHA/ Family	ASHA/	Family	Social	Radio/	Print	Others include	Number of children
Columb	characteristics	Doctor	Doctor	E M		TBA	Member	worker, NGO worker	2	Media	friends/ neighbours	who received at least one vaccine# (n)
12.8 6.0 8.5 3.8 16.5 24.1 1.4 12.8 1.5 1.2 1.5	Mother's Age (in Years)											
Column C	15-19	12.8	6.0	38.5	39.8	16.5	24.1	0.4	12.2	1.6	12.8	548
188 386 387	20-24	26.2	12.2	40.9	38.8	18.6	20.5	1.2	14.8	3.9	16.7	7209
168 8.5 3.61 3.62 3.24 2.01 1.0 12.0 3.9 1.9 1.0	25-34	25.6	13.8	35.6	37.5	18.7	22.1	1.4	15.4	4.6	17.2	11885
Child	35-44	16.8	8.5	36.1	36.9	23.4	20.1	1.0	12.0	3.9	19.7	1280
Part	45+	24.7	6.3	49.2	41.7	13.8	12.7	2.0	7.7	5.1	15.6	268
odder 24.3 12.6 38.2 38.3 18.5 21.5 13.5 14.4 4.2 17.0 Odder 25.2 12.2 37.7 38.0 19.0 21.1 1.3 14.4 4.2 17.0 Odder 26.8 1.6.3 37.9 38.0 19.0 21.1 1.3 14.4 4.2 17.0 ence 10.7 6.1 38.3 4.1.6 21.3 20.3 1.3 18.5 18.9 17.1 18.9 18.9 18.9 18.9 17.1 18.9 18.9 17.1 18.9 17.1 18.9 18.9 17.1 18.9 17.1 18.9 17.1 18.9 17.1 18.9 17.1 18.9 17.1 18.9 17.1 18.9 17.1 18.9 17.1 18.9 17.1 18.9 17.1 18.9 17.1 18.9 17.1 18.9 17.1 18.9 17.1 18.9 17.1 18.9 17.1 18.9	Sex of child											
Order 25.2 12.2 37.7 38.0 19.0 21.1 1.3 14.4 4.2 16.9 Order 28.8 15.3 37.9 34.0 16.7 24.3 1.3 16.7 4.6 15.6 rece 10.7 6.1 38.3 41.4 21.2 17.1 16.9 20.7 rece 10.7 6.1 38.3 44.4 21.6 16.7 1.0 16.9 17.1 16.9 16.9 16.9 17.1 16.9 16.9 17.1 16.9 16.9 17.1 16.9 16.9 17.1 16.9 16.9 17.1 16.9 17.1 16.9 17.1 16.9 17.1 16.9 17.1 16.9 17.1 16.9 17.1 16.9 17.1 16.9 17.1 16.9 17.1 16.9 17.1 16.9 17.1 16.9 17.1 16.9 17.1 16.9 17.1 16.9 17.1 17.1 17.2 16.9	Male	24.3	12.6	38.2	38.3	18.5	21.5	1.3	15.1	4.2	17.0	11461
26.8 15.3 37.9 34.0 16.7 24.3 1.3 15.7 4.6 15.6 28.5 13.3 38.3 40.4 17.9 20.4 1.4 15.8 5.4 16.3 10.7 27.7 36.3 41.3 24.5 17.1 0.8 9.7 1.0 20.7 20.0 7.7 39.8 44.6 23.4 18.9 1.1 12.9 3.2 17.1 36.6 24.2 33.5 22.0 7.2 27.4 1.7 19.5 6.7 16.5 10.1 2.6 4.7 24.7 24.7 15.9 0.7 6.9 0.6 18.4 10.1 3.8 38.2 47.7 24.7 15.9 0.7 6.9 0.6 18.4 10.1 3.8 3.7 37.7 34.1 19.6 27.9 1.1 12.9 3.2 14.2 10.1 3.8 3.7 37.7 37.4 37.6 37.7 37.7 37.4 37.8 37.7 37.7 37.4 37.8 37.7 37.7 37.7 37.4 37.8 37.7 37.7 37.4 37.8 37.7	-emale	25.2	12.2	37.7	38.0	19.0	21.1	1.3	14.4	4.2	16.9	9729
268 15.3 39.9 34.0 16.7 24.3 1.5 16.7 4.6 16.6 21.5 7.7 86.3 41.4 21.8 19.3 1.3 16.9 1.8 16.9 1.8 16.9 1.8 16.9 1.8 16.9 1.8 16.9 1.8 16.9 1.8 16.9 1.8 16.9 1.8 16.9 1.8 16.9 1.8 16.9 1.8 16.9 1.8 16.9 1.8 16.9 1.8 1.8 1.1 1.2 2.8 1.7 1.8 1.1 1.2 2.8 1.7 1.6 1.8 1.7 1.8 1.7 1.8 1.7 1.6 1.7 1.8 1.7 1.6 1.7 1.8 1.7 1.8 1.7 1.6 1.8 1.7 1.8 1.7 1.6 1.8 1.7 1.6 1.8 1.7 1.6 1.8 1.7 1.6 1.8 1.7 1.6 1.8 1.7 1.6	Sirth Order											
18.6 13.3 38.3 40.4 17.9 12.4 11.6		26.8	15.3	37.9	34.0	16.7	24.3	1.3	15.7	4.6	15.6	8863
10,7 6,1 39,3 41,4 21,8 19,3 13 13,9 2,8 18,9 18,9 1,1		28.5	13.3	38.3	40.4	17.9	20.4	1.4	15.8	5.4	16.3	7077
10.7 6.1 39.3 41.3 24.5 17.1 0.8 9.7 1.0 20.7 20.0 7.7 39.8 44.6 23.4 18.9 1.1 12.9 3.2 17.1 20.0 7.7 39.8 44.6 23.4 18.9 1.1 12.9 3.2 17.1 14.0 3.8 38.2 47.7 24.7 14.4 1.0 10.6 2.0 18.4 21.0 20.8 3.4 38.2 47.7 24.7 14.4 1.0 10.6 2.0 18.1 21.0 20.8 3.7 30.6 30.4 18.4 20.9 15.1 10.6 2.0 19.5 22.9 21.1 36.6 39.9 19.7 20.9 15.1 10.6 2.0 19.5 22.0 12.3 38.6 39.9 19.7 20.4 12.3 27.6 11.1 15.4 22.1 17.8 34.6 39.9 19.7 20.4 12.3 39.9 16.8 22.2 12.3 38.6 39.9 19.7 20.4 12.3 39.9 10.8 22.3 12.3 38.6 39.9 19.7 20.4 12.3 39.9 16.8 22.4 11.7 37.4 30.6 60.0 6.3 35.1 10.9 17.3 22.5 24.7 13.6 38.3 42.4 17.9 19.4 10.0 12.3 39.9 17.3 22.1 13.8 38.7 31.1 16.1 23.4 1.3 13.4 3.9 16.3 22.1 18.8 33.7 31.1 16.1 23.4 1.3 20.4 5.6 16.0 22.1 18.8 33.7 31.1 16.1 23.4 1.3 20.4 6.6 10.8 22.1 11.6 41.8 36.2 16.6 21.2 1.7 24.1 1.0 18.5 22.1 11.5 41.8 36.2 16.6 21.2 1.7 24.1 1.0 18.9 22.1 11.5 41.8 36.2 16.6 21.3 1.7 24.1 1.0 18.9 22.1 11.5 41.8 36.2 16.6 21.3 1.7 24.1 1.0 18.9 22.1 11.5 41.8 36.2 16.6 21.3 1.7 24.1 1.0 18.1 1.0 22.1 11.5 41.8 36.2 16.6 21.3 1.7 24.1 1.0 1.0 22.1 11.5 41.8 36.2 16.6 21.3 1.7 24.1 1.0 1.0 22.1 11.5 41.8 36.2 16.6 21.3 1.7 24.1 1.0 18.5 22.1 11.5 41.8 36.2 16.6 21.3 1.7 24.1 1.0 18.5 22.1 11.5 41.8 36.2 16.6 21.3 1.7 24.1 1.0 18.9 22.1 11.5 41.8 36.2 16.6 21.3 1.7 24.1 1.0 18.9 22.1	8	21.3	7.7	36.3	41.4	21.8	19.3	1.3	13.9	2.8	18.9	2754
ation 200 777 39.8 44.6 23.4 18.9 1.1 12.9 3.2 17.1 ation 36.6 24.2 33.5 22.0 7.2 27.4 1.7 19.5 6.7 16.5 lete 21.0 38 38.2 47.7 24.7 14.4 1.0 10.6 2.0 18.4 polete 27.5 9.5 44.7 40.6 18.4 21.5 1.1 12.1 2.0 18.4 mplete 30.8 12.3 34.7 40.6 18.4 21.5 1.1 12.1 2.0 18.4 polete 30.8 31.7 24.7 40.6 18.4 21.5 1.1 18.4 18.4 18.4 mplete 30.8 41.0 18.4 21.5 27.4 1.0 18.4 18.4 polete 32.7 31.2 30.6 18.4 21.5 27.4 17.0 18.4 polete 32.9<	±	10.7	6.1	39.3	41.3	24.5	17.1	0.8	9.7	1.0	20.7	1866
ation 77 39.8 44.6 23.4 18.9 11 12.9 3.2 17.1 ation 36.6 24.2 33.5 22.0 7.2 27.4 1.7 19.5 6.7 16.5 ation 44.0 38 38.2 47.7 24.7 14.4 1.0 10.6 2.5 16.1 plete 27.5 9.5 44.7 34.4 18.4 11.6 10.6 2.5 16.1 plete 27.5 9.5 42.3 49.4 18.7 14.4 1.0 10.6 18.4 plete 27.5 9.5 44.7 24.7 14.4 1.0 10.6 18.4 plete 27.5 9.6 18.7 27.4 1.7 12.1 18.4 27.5 11.7 16.2 plete 27.5 30.6 16.4 24.5 1.7 17.2 10.8 17.2 10.8 17.2 10.8 17.2 10.8 17.2	Residence											
ation 36.6 24.2 33.5 22.0 7.2 27.4 1.7 19.5 6.7 16.5 ation 14.0 3.8 38.2 47.7 24.7 15.9 0.7 6.9 0.6 18.4 left 21.0 3.8 38.2 47.7 24.7 15.9 0.7 6.9 0.6 18.4 polete 21.0 6.3 42.3 49.4 18.7 14.4 1.0 10.6 2.0 18.4 mplete 30.8 12.3 37.7 34.1 19.6 20.0 1.5 19.7 14.4 p 20.8 12.3 37.4 19.6 20.4 1.7 10.9 19.7 20.0 11.4 40.0 18.7 p 20.9 12.3 38.6 39.9 19.7 20.4 1.2 20.0 18.4 10.8 p 20.9 11.2 38.9 19.7 20.4 1.2 10.9 10.0 <	Rural	20.0	7.7	39.8	44.6	23.4	18.9	1.1	12.9	3.2	17.1	11703
ation 4.6 3.8 38.2 47.7 24.7 15.9 0.7 6.9 0.6 18.4 lete 21.0 6.3 42.3 49.4 18.7 14.4 1.0 10.6 2.0 15.1 plete 27.5 9.5 44.7 40.6 18.4 21.5 1.1 12.1 2.5 14.4 plete 27.5 12.3 37.7 34.1 18.6 20.9 1.5 19.6 2.0 15.1 polete 30.6 29.4 20.0 10.8 21.5 10.6 2.0 16.2 polete 32.0 12.3 34.1 12.0 27.4 1.7 20.0 8.0 16.2 polete 32.0 11.7 30.6 16.4 20.5 1.2 10.8 31.5 10.6 20.0 11.7 polete 32.0 11.7 30.6 16.4 24.5 1.2 10.8 3.9 17.0 polete <td>Jrban</td> <td>36.6</td> <td>24.2</td> <td>33.5</td> <td>22.0</td> <td>7.2</td> <td>27.4</td> <td>1.7</td> <td>19.5</td> <td>6.7</td> <td>16.5</td> <td>9487</td>	Jrban	36.6	24.2	33.5	22.0	7.2	27.4	1.7	19.5	6.7	16.5	9487
Hete 21.0 3.8 38.2 47.7 24.7 15.9 0.7 6.9 0.6 18.4 lole 21.0 6.3 42.3 49.4 18.4 15.9 10.7 10.6 2.0 10.6 18.4 lole 21.0 6.3 42.3 49.4 18.4 11.4 11.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	Nother's Education											
leite 21.0 6.3 49.4 18.7 14.4 1.0 10.6 2.0 15.1	No education	14.0	3.8	38.2	47.7	24.7	15.9	0.7	6.9	9.0	18.4	4902
Part	5 years complete	21.0	6.3	42.3	49.4	18.7	14.4	1.0	10.6	2.0	15.1	1183
plete 30.8 12.3 37.7 34.1 19.6 20.9 1.5 19.5 5.0 16.2 mplete 33.7 30.6 30.5 12.0 27.4 1.7 20.0 18.7 19.7 p 23.7 30.6 29.4 20.0 12.0 27.4 1.7 20.0 19.7 p 23.7 12.3 38.6 19.7 20.4 1.2 1.4 3.9 16.8 25.7 17.8 34.6 19.8 6.7 16.9 0.9 32.2 4.4 10.8 35.7 17.8 34.6 19.8 6.7 16.9 0.9 32.2 4.4 10.8 35.0 18.7 27.0 12.3 27.1 12.3 26.9 17.2 4 18.8 35.7 24.7 16.9 10.5 27.1 12.3 25.9 4 4 4.0 12.3 27.1 12.3 3.6 17.3	-7 years complete	27.5	9.2	44.7	40.6	18.4	21.5	1.1	12.1	2.5	14.4	3334
mplete 33.7 21.1 36.6 30.5 12.0 27.4 1.7 20.0 8.0 19.7 post complete 32.6 30.6 12.0 10.8 31.5 2.3 27.6 11.1 15.4 post complete 32.6 39.9 19.7 20.4 1.2 14.9 3.9 16.9 23.9 12.7 37.4 30.6 16.4 24.5 1.2 14.9 3.9 16.8 32.7 17.8 34.6 19.8 6.7 16.9 0.9 32.2 4.4 10.8 35.7 17.8 34.6 19.8 6.7 16.9 0.9 32.2 4.4 10.8 35.8 18.7 27.0 23.3 16.4 24.5 16.9 17.2 14.4 10.8 4classes 24.4 12.1 36.6 60.0 6.3 35.1 16.9 17.3 25.9 17.8 4classes 24.7 13.6 13.4	-9 years complete	30.8	12.3	37.7	34.1	19.6	20.9	1.5	19.5	2.0	16.2	3633
p 32.6 30.6 29.4 20.0 10.8 31.5 2.3 27.6 11.1 15.4 p 23.9 12.3 38.6 39.9 19.7 20.4 1.2 14.9 3.9 16.8 25.7 11.7 37.4 30.6 16.4 24.5 1.2 10.8 2.9 16.8 32.7 17.8 34.6 19.8 6.7 16.9 0.9 32.2 4.4 10.8 35.3 17.7 27.0 5.3 16.4 27.7 16.9 17.3 26.9 stee 22.8 6.4 43.3 42.4 17.9 19.4 1.0 12.3 3.6 17.2 stee 20.0 7.7 36.3 57.1 24.7 15.0 1.8 7.7 2.0 17.3 stee 20.0 7.7 38.3 37.1 16.1 23.4 1.3 20.4 5.6 16.0 stee 2.5 38.3<	0-11 years complete	33.7	21.1	36.6	30.5	12.0	27.4	1.7	20.0	8.0	19.7	3814
pp 23.9 12.3 38.6 39.9 19.7 20.4 1.2 14.9 3.9 16.8 25.7 11.7 37.4 30.6 16.4 24.5 1.2 10.8 2.9 17.0 32.7 17.8 34.6 19.8 6.7 16.9 0.9 32.2 4.4 10.8 35.8 18.7 27.0 23.3 16.4 28.1 4.0 13.9 14.8 21.3 ste 25.8 18.7 27.0 23.3 16.4 28.1 4.0 13.9 14.8 21.3 ste 22.8 6.4 43.3 42.4 17.9 19.4 1.0 12.3 3.6 17.2 d Classes 24.7 13.6 38.7 37.2 20.1 13.4 3.9 17.3 d Classes 24.7 16.0 1.3 1.3 1.3 17.3 16.0 card 25.8 16.8 2.2 1.3 1.3	2 or more years complete	32.6	30.6	29.4	20.0	10.8	31.5	2.3	27.6	11.1	15.4	4324
23.9 12.3 38.6 39.9 19.7 20.4 1.2 14.9 3.9 16.8 25.7 11.7 37.4 30.6 16.4 24.5 1.2 10.8 2.9 17.0 35.7 17.8 34.6 18.9 6.0 0.9 32.2 4.4 10.8 35.7 17.8 24.6 16.4 28.1 4.0 13.9 14.8 21.3 stroup 31.4 12.1 30.6 60.0 6.3 36.1 0.6 27.1 12.3 26.9 17.2 stree 22.8 6.4 43.3 42.4 17.9 19.4 1.0 12.3 3.6 17.2 d Classes 24.7 15.0 16.0 17.3 17.3 17.3 17.3 d Classes 24.7 15.0 16.1 22.2 1.3 13.4 16.0 17.3 card 25.1 16.1 23.4 1.3 20.4 5.6 16.0	Religious group											
25.7 11.7 37.4 30.6 16.4 24.5 1.2 10.8 2.9 17.0 32.7 17.8 34.6 19.8 6.7 16.9 0.9 32.2 4.4 10.8 sgroup 35.8 18.7 27.0 23.3 16.4 28.1 4.0 13.9 14.8 21.3 ste 22.8 6.4 43.3 42.4 17.9 19.4 1.0 12.3 3.6 17.2 se 20.0 7.7 35.3 57.1 24.7 15.0 1.8 7.7 2.0 17.8 dClasses 24.7 13.6 27.1 15.0 1.8 7.7 2.0 17.3 dClasses 24.7 16.8 33.7 31.1 16.1 22.2 1.3 1.3 20.4 5.6 16.0 card 25.8 15.0 36.9 33.2 16.6 22.2 1.1 18.6 5.0 17.3 card	Hinduism	23.9	12.3	38.6	39.9	19.7	20.4	1.2	14.9	3.9	16.8	15580
32.7 17.8 34.6 19.8 6.7 16.9 0.9 32.2 4.4 10.8 sgroup 31.4 12.1 30.6 60.0 5.3 36.1 6.9 13.9 14.8 21.3 stee 22.8 6.4 43.3 42.4 17.9 19.4 1.0 12.3 3.6 17.2 d Classes 24.7 13.6 38.7 27.1 24.7 15.0 1.8 7.7 2.0 17.8 d Classes 24.7 13.6 38.7 37.2 20.1 22.2 1.3 13.4 3.9 17.3 d Classes 24.7 16.8 33.7 16.1 22.2 1.3 13.4 3.9 16.0 25.8 15.0 36.9 33.2 16.6 22.2 1.1 18.6 5.0 16.3 26.8 15.0 36.9 33.2 16.6 27.2 1.1 18.6 5.0 17.3 27.8 6.1	slam	25.7	11.7	37.4	30.6	16.4	24.5	1.2	10.8	2.9	17.0	2597
sgroup 35.8 18.7 27.0 23.3 16.4 28.1 4.0 13.9 14.8 21.3 stee 22.8 6.4 43.3 42.4 17.9 19.4 1.0 12.3 3.6 17.2 oe 20.0 7.7 35.3 57.1 24.7 15.0 1.8 7.7 2.0 17.8 d Classes 24.7 13.6 38.7 37.2 20.1 22.2 1.3 13.4 3.9 17.3 d Classes 24.7 16.8 33.7 31.1 16.1 22.2 1.3 20.4 5.6 16.0 card 25.8 15.0 36.9 33.2 16.6 22.2 1.1 18.6 5.0 16.3 Leard 25.8 15.0 36.9 33.2 16.6 27.2 1.1 18.6 5.0 17.3 4 25.8 15.0 38.3 49.6 27.2 1.1 4 9.8 1.8	Sikhism	32.7	17.8	34.6	19.8	6.7	16.9	0.9	32.2	4.4	10.8	396
sgroup 31.4 12.1 30.6 60.0 5.3 35.1 0.5 27.1 12.3 25.9 stee 22.8 6.4 43.3 42.4 17.9 19.4 1.0 12.3 3.6 17.2	Christianity	35.8	18.7	27.0	23.3	16.4	28.1	4.0	13.9	14.8	21.3	2234
te 22.8 6.4 43.3 42.4 17.9 19.4 1.0 12.3 3.6 17.2 object 20.0 7.7 35.3 57.1 24.7 15.0 1.8 7.7 2.0 17.8 object 22.1 38.3 37.7 31.1 16.1 22.2 1.3 13.4 3.9 17.3 card 25.8 15.0 36.9 33.2 16.6 22.2 1.1 18.6 5.0 17.3 object 24.8 6.1 42.8 43.6 27.2 14.7 0.6 4.1 1.0 18.9 object 24.8 6.1 28.3 12.8 26.7 17.3 26.7 17.3 26.8 18.8 19.2 36.1 28.3 12.8 26.7 17.3 26.7 27.0 18.7 8.1 34.5 17.9 31.8 11.3 20.2 31.8 11.3 20.2 31.8 11.3 20.2 31.8 11.3 20.2 31.8 11.3 20.2 31.8 11.3 20.2 31.8 11.3 20.2 31.8 11.3 20.2 31.8 31.8 31.8 31.8 31.8 31.8 31.8 31.8	Other religious group	31.4	12.1	30.6	0.09	5.3	35.1	0.5	27.1	12.3	25.9	383
tte 22.8 6.4 43.3 42.4 17.9 19.4 1.0 12.3 3.6 17.2 be 20.0 7.7 35.3 57.1 24.7 15.0 1.8 7.7 2.0 17.8 d Classes 24.7 13.6 33.7 20.1 22.2 1.3 13.4 3.9 17.3 23.1 8.3 39.7 46.3 22.3 19.9 1.5 8.5 2.9 16.3 L card 25.8 15.0 36.9 33.2 16.6 22.2 1.1 18.6 5.0 17.3 9.6 2.5 38.3 49.6 27.2 14.7 0.6 4.1 1.0 18.9 24.8 6.1 42.8 43.6 20.0 18.1 1.4 9.8 16.8 35.1 11.5 44.8 26.7 17.2 44.8 16.8 35.6 37.2 27.0 18.7 8.1 34.5 1.9 31.8 11.3 20.2 35.6 37.2 27.0 18.7 8.1 34.5 1.9 31.8 11.3 20.2	Social group			000		(,						
de 20.0 7.7 35.3 57.1 24.7 15.0 1.8 7.7 2.0 17.8 d Classes 24.7 13.6 38.7 37.2 20.1 22.2 1.3 13.4 3.9 17.3 27.6 16.8 33.7 46.3 22.3 19.9 1.5 8.5 2.9 16.0 Leard 25.8 15.0 36.9 33.2 16.6 22.2 1.1 18.6 5.0 17.3 Loard 25.8 15.0 38.3 49.6 27.2 1.1 18.6 5.0 17.3 24.8 6.1 42.8 20.0 18.1 1.4 9.8 1.8 13.7 35.1 11.5 41.8 36.2 16.6 27.2 1.4 0.6 4.1 1.0 18.9 35.1 11.5 42.8 20.0 18.1 1.4 9.8 1.8 16.8 35.6 37.2 27.0 18.7 <t< td=""><td>scheduled Caste</td><td>22.8</td><td>6.4</td><td>43.3</td><td>42.4</td><td>1/.9</td><td>19.4</td><td>1.0</td><td>12.3</td><td>3.6</td><td>1/.2</td><td>3/43</td></t<>	scheduled Caste	22.8	6.4	43.3	42.4	1/.9	19.4	1.0	12.3	3.6	1/.2	3/43
d Classes 24.7 13.6 38.7 37.2 20.1 22.2 1.3 13.4 3.9 17.3 27.6 16.8 33.7 31.1 16.1 23.4 1.3 20.4 5.6 16.0 Leard 25.8 15.0 36.9 33.2 16.6 22.2 1.1 18.6 5.0 17.3 9.6 2.5 38.3 49.6 27.2 14.7 0.6 4.1 1.0 18.9 24.8 6.1 42.8 43.6 20.0 18.1 1.4 9.8 1.8 13.7 35.1 37.2 36.3 12.8 16.6 21.3 1.2 4.8 16.8 35.6 37.2 27.0 18.7 8.1 34.5 1.9 31.8 11.3 20.2	Scheduled Tribe	20.0	7.7	35.3	57.1	24.7	15.0	1.8	7.7	2.0	17.8	3444
23.6 16.8 33.7 31.1 16.1 23.4 1.3 20.4 5.6 16.0 Leard 25.8 15.0 36.9 33.2 16.6 22.2 1.1 18.6 5.0 17.3 Leard 25.8 15.0 36.9 33.2 16.6 22.2 1.1 18.6 5.0 17.3 See 25. 38.3 49.6 27.2 14.7 0.6 4.1 1.0 18.9 24.8 6.1 41.8 36.2 16.6 21.3 1.2 4.8 18.7 35.8 19.2 36.1 28.3 12.8 26.7 1.7 24.1 6.6 15.0 35.6 37.2 27.0 18.7 8.1 34.5 1.9 31.8 11.3 20.2	Other backward Classes	24.7	13.6	38.7	37.2	20.1	22.2	1.3	13.4	3.9	17.3	7443
Leard 25.8 15.0 36.9 33.2 16.6 22.2 1.1 18.6 5.0 17.3 16.3 16.3 16.3 16.4 16.3 16.4 16	Others	27.6	16.8	33.7	31.1	16.1	23.4	1.3	20.4	2.6	16.0	6560
Leard 25.8 15.0 36.9 33.2 16.6 22.2 1.1 18.6 5.0 17.3 16.3 16.3 16.3 16.4 15.0 16.4 16	3PL status											
PL card 25.8 15.0 36.9 33.2 16.6 22.2 1.1 18.6 5.0 17.3 17.3	Have BPL card	23.1	8.3	39.7	46.3	22.3	19.9	1.5	8.5	2.9	16.3	8899
9.6 2.5 38.3 49.6 27.2 14.7 0.6 4.1 1.0 18.9 24.8 6.1 42.8 43.6 20.0 18.1 1.4 9.8 1.8 13.7 32.1 11.5 41.8 36.2 16.6 21.3 1.2 17.2 4.8 16.8 35.8 19.2 36.1 28.3 12.8 26.7 1.7 24.1 6.6 15.0 35.6 37.2 27.0 18.7 8.1 34.5 1.9 31.8 11.3 20.2	Jon't have BPL card	25.8	15.0	36.9	33.2	16.6	22.2	1.7	18.6	2.0	17.3	14502
96 2.5 38.3 49.6 27.2 14.7 0.6 4.1 1.0 18.9 24.8 6.1 42.8 43.6 20.0 18.1 1.4 9.8 1.8 13.7 32.1 11.5 41.8 36.2 16.6 21.3 1.2 4.8 16.8 35.8 19.8 12.8 26.7 1.7 24.1 6.6 15.0 35.6 37.2 27.0 18.7 8.1 34.5 1.9 31.8 11.3 20.2	Wealth Index											
24.8 6.1 42.8 43.6 20.0 18.1 1.4 9.8 1.8 13.7 32.1 11.5 41.8 36.2 16.6 21.3 1.2 17.2 4.8 16.8 35.8 19.2 36.1 28.3 12.8 26.7 1.7 24.1 6.6 15.0 35.6 37.2 27.0 18.7 8.1 34.5 1.9 31.8 11.3 20.2	-owest	9.6	2.5	38.3	49.6	27.2	14.7	9.0	4.1	1.0	18.9	3982
32.1 11.5 41.8 36.2 16.6 21.3 1.2 17.2 4.8 16.8 35.8 19.2 36.1 28.3 12.8 26.7 1.7 24.1 6.6 15.0 t 35.6 37.2 27.0 18.7 8.1 34.5 1.9 31.8 11.3 20.2	Second	24.8	6.1	42.8	43.6	20.0	18.1	1.4	8.6	1.8	13.7	4132
t 35.8 19.2 36.1 28.3 12.8 26.7 1.7 24.1 6.6 15.0 15.0 15.0 15.0 15.0 18.7 8.1 34.5 1.9 31.8 11.3 20.2	Middle	32.1	11.5	41.8	36.2	16.6	21.3	1.2	17.2	4.8	16.8	4282
35.6 37.2 27.0 18.7 8.1 34.5 1.9 31.8 11.3 20.5	-ourth	35.8	19.2	36.1	28.3	12.8	26.7	17	24.1	u u	17.0	4363
	1: -r+					ì			- F	5	2.5	

States/UT	Govt. Doctor	Pvt. Doctor	ANM/ LHV/ HW (M)	Aww	ASHA/ TBA	Family Member	Social worker, NGO worker	Radio/ TV	Print Media	Others include friends/ neighbours	Number of children who received at least one vaccine# (n)
Andhra Pradesh	39.6	14.9	50.1	44.4	23.7	22.5	1.5	5.1	1.6	15.2	883
Arunachal Pradesh	37.5	2.2	36.9	13.3	9.6	37.4	3.8	12.7	1.2	15.0	451
Assam	15.4	3.2	24.8	9.3	63.0	17.1	1.6	10.8	6.0	10.4	799
Bihar	6.4	6.1	25.9	54.4	16.1	25.8	0.1	2'9	9.0	29.1	953
Chhattisgarh	12.8	3.4	18.5	62.1	54.7	6.7	0.1	4.1	0.4	2.7	206
Delhi	48.5	38.8	16.9	6.2	8.1	45.4	3.3	40.6	17.3	29.9	558
Goa	41.4	14.0	70.5	43.2	1.4	9.7	6.0	21.5	18.5	12.5	534
Gujarat	16.0	8.8	41.1	47.1	40.1	7.6	40.1	40.1	40.1	11.5	772
Haryana	18.7	18.8	34.5	22.9	16.4	36.2	5.8	35.3	19.3	33.1	612
Himachal Pradesh	28.4	3.1	53.0	55.4	8.0	14.4	2.5	20.8	12.2	5.0	542
Jammu & Kashmir	52.7	7.5	6.4	18.4	20.1	57.0	1.6	37.4	8.6	14.6	258
Jharkhand	5.4	8.9	23.2	61.7	12.8	20.5	9.0	13.1	2.8	26.6	604
Karnataka	40.1	40.1	47.0	45.8	6.7	21.6	1.8	13.0	3.9	11.6	747
Kerala	49.1	29.6	15.0	16.2	17.4	42.1	8.6	15.3	33.4	18.0	749
Madhya Pradesh	15.8	3.4	25.3	57.3	15.6	15.2	0.5	10.4	4.6	22.6	991
Maharashtra	46.6	19.0	39.7	53.4	3.5	27.9	1.0	17.1	6.0	18.4	863
Manipur	38.2	6.8	19.2	9.4	9.3	23.2	7.9	35.2	11.4	27.7	578
Meghalaya	56.8	15.5	15.2	15.3	20.5	20.1	6'9	22.1	19.0	25.6	548
Mizoram	7.7	10.0	48.5	24.9	6.2	14.9	13.9	1.1	0.3	12.9	571
Nagaland	13.5	10.8	36.4	12.8	11.4	40.6	1.1	8.5	6.9	44.6	453
Orissa	10.3	5.2	15.3	8.09	62.4	11.5	0.3	25.2	3.5	21.5	877
Punjab	40.1	23.2	26.5	13.0	3.9	13.9	6.0	35.9	3.0	3.8	555
Rajasthan	25.4	7.4	42.2	57.8	21.3	18.4	0.2	24.9	3.4	14.0	785
Sikkim	44.7	0.7	30.1	32.0	36.7	18.3	0.2	2.2	-	9.6	401
Tamil Nadu	40.1	40.1	50.2	12.5	3.6	23.5	2.1	8.2	3.0	11.7	1028
Tripura	71.6	2.8	8.9	8.0	27.0	25.9	0.2	1.4	4'0	6.7	293
Uttar Pradesh	11.5	11.3	40.7	19.2	34.0	21.3	0.1	21.1	9.0	20.6	806
Uttarakhand	6.9	6.3	8.09	41.2	34.0	30.7	0.5	24.5	2.3	24.1	534
West Bengal	8.4	4.9	63.8	29.4	4.7	11.6	0.3	7.3	1.5	5.2	802
UTs combined	36.9	16.9	55.9	24.6	2.2	28.9	1.6	15.1	5.7	11.0	1181
Total	7 70	12.4	200	6	0	0,0	,	,	(

Number of children who received at least one vaccine# 11703 429 466 582 604 604 329 314 319 275 424 535 485 566 450 274 282 350 232 555 291 448 227 353 538 490 251 261 321 261 57 Table 4.19b: Percentage of children age 12-23 months who received at least one vaccine according to sources of information about Others include friends/ neighbours 16.0 37.2 16.0 24.6 19.3 20.4 24.5 26.9 44.2 22.2 10.6 39.5 10.8 22.1 10.7 13.2 10.9 21.2 10.1 29.1 1.3 14.1 7.4 8.8 21.2 17.1 9.6 4.2 3.7 5.7 5.4 Print Media 19.8 36.6 21.0 17.8 4.5 2.0 13.2 0.3 7.8 0.2 2.2 0.3 2.3 5.0 0.2 0.7 0. 12.1 5.7 2.2 7: 0.2 1.0 3.2 Radio/ TV 32.2 20.5 35.5 13.2 14.2 10.0 34.9 21.0 19.3 11.4 12.9 14.3 30.9 20.2 1.6 15.1 22.2 32.4 22.3 25.8 10.4 9.0 0.5 3.4 4.1 3.2 7.2 7.7 1.6 4.4 6.1 Social worker, NGO worke 13.8 1.9 1.6 11.2 2.9 2.6 7.8 1.2 0.8 0.3 1.3 0.2 5. 7 3.3 0.1 1.5 2.1 9.0 9.4 6.2 0.0 0.2 0.1 1.7 0.1 0.7 Family Member 14.6 24.8 14.3 20.0 43.9 25.6 18.3 18.3 12.9 33.6 11.2 13.8 17.3 34.9 18.9 21.9 35.4 51.9 11.2 36.5 55.2 17.9 12.2 13.2 20.2 25.8 36.0 11.2 18.1 5.2 4.5 ASHA/ TBA 24.5 66.5 41.5 68.9 17.8 15.2 10.5 70.8 24.3 32.3 11.0 20.6 3.2 18.9 0.8 26.2 7.2 18.9 18.2 9.6 24.8 5.8 42.3 1.0 32.9 23.4 1.6 4.7 5.1 2.1 6.1 49.8 57.2 60.0 28.2 58.8 23.5 53.3 17.9 61.4 68.0 25.8 68.4 14.6 44.6 15.4 10.0 8.89 50.3 71.7 18.3 13.7 67.2 35.4 33.4 21.7 17.7 18.1 8.9 45.4 35.7 6.8 immunization by States/ UT - Rural (Multiple responses) ANM/ LHV/ HW (M) 24.3 26.3 20.0 33.8 70.5 48.3 39.5 55.4 26.5 53.7 16.8 26.1 35.9 16.2 16.5 51.3 40.0 16.5 30.6 45.3 32.2 56.9 67.6 64.3 39.8 55.7 37.0 63.7 7.6 41.1 8.5 Pvt. Doctor 27.0 15.8 14.3 10.9 13.0 16.5 14.8 13.1 14.1 11.3 2.0 4.5 0.9 11.2 2.0 2.3 4.3 3.1 11.7 1.7 7.1 3.8 1.1 2.8 0.0 .0 9.0 1.6 4. 1.8 7.7 Govt. Doctor 38.6 50.8 11.6 16.5 46.0 10.9 39.6 21.3 39.5 41.7 70.3 20.0 31.8 47.5 38.1 24.7 41.9 36.7 37.1 58.4 5.6 7.6 9.6 1.6 4.8 10.7 10.1 3.8 36.4 5.1 5.4 Arunachal Pradesh Jammu & Kashmii Himachal Pradesh Madhya Pradesh Andhra Pradesh UTs combined Chhattisgarh Uttar Pradesh Maharashtra Uttarakhand West Bengal **Tamil Nadu** Meghalaya States/UT Jharkhand Karnataka Nagaland Rajasthan Manipur Mizoram Haryana Punjab Tripura Gujarat Orissa Sikkim Kerala Assam Bihar Delhi Total Goa

States/UT	Govt. Doctor	Pvt. Doctor	ANM/ LHV/ HW (M)	AWW	ASHA/ TBA	Family Member	Social worker, NGO worker	Radio/ TV	Print Media	Others include friends/ neighbours	Number of children who received at least one vaccine#
Andhra Pradesh	42.2	24.2	35.2	30.0	21.4	24.1	0.4	9.8	1.2	13.0	348
Arunachal Pradesh	55.4	3.4	36.7	6.7	6.5	43.9	5.4	7.8	4.2	30.4	190
Assam	41.5	11.7	27.9	4.4	22.8	34.0	1.1	12.9	2.2	16.0	314
Bihar	12.8	20.3	22.0	30.4	2.0	33.8	0.3	29.3	3.3	28.9	387
Chhattisgarh	32.9	13.0	12.4	36.6	9.7	12.4	0.3	7.4	0.5	8.2	255
Delhi	48.6	40.7	15.6	5.3	7.2	44.9	2.8	41.3	18.0	29.2	501
Goa	44.8	16.8	70.5	36.0	1.2	8.1	1.8	22.9	19.1	10.9	273
Gujarat	26.4	19.9	29.5	26.0	2.6	12.6	3.3	5.8	9.0	18.2	322
Haryana	24.0	24.4	22.6	10.0	10.2	35.4	13.0	42.7	18.1	23.3	291
Himachal Pradesh	63.8	10.2	30.0	23.0	0.4	16.1	2.1	23.7	12.7	12.1	268
Jammu & Kashmir	72.4	16.7	3.1	3.7	2.4	62.0	1.7	42.9	15.7	10.4	276
Jharkhand	18.3	19.4	12.3	28.2	4.9	29.4	2.2	32.7	11.3	33.5	254
Karnataka	49.4	28.9	34.3	31.3	5.8	24.8	1.3	12.5	7.4	13.2	318
Kerala	44.0	37.2	10.0	11.2	13.0	36.7	10.7	18.5	24.1	14.2	283
Madhya Pradesh	28.6	7.9	23.1	46.6	8.5	23.2	0.4	11.3	4.9	23.8	409
Maharashtra	59.9	23.2	44.8	33.8	1.9	31.0	0.7	19.6	11.4	15.6	389
Manipur	40.8	6.1	26.7	15.6	9.8	35.3	4.2	36.1	6.8	35.4	249
Meghalaya	6.03	20.2	10.3	4.3	4.2	27.0	4.8	21.7	11.4	21.1	234
Mizoram	10.5	15.8	45.8	24.2	6.5	16.7	14.0	1.6	0.3	14.9	252
Nagaland	25.2	10.5	21.1	8.7	15.4	70.4	2.4	11.8	11.7	46.2	221
Orissa	40.1	28.8	9.8	24.2	14.6	13.5	0.5	49.2	10.7	17.7	322
Punjab	40.5	39.2	18.7	3.1	1.8	14.1	0.1	42.5	5.1	4.0	264
Rajasthan	37.8	21.0	33.0	26.3	12.5	34.0	0.1	41.5	6.9	16.3	337
Sikkim	76.6	5.1	17.0	11.1	1.9	9.9	1.2	5.8		1.4	174
Tamil Nadu	36.1	42.3	41.6	9.7	7.0	30.5	2.8	12.9	5.4	15.5	395
Tripura	77.9	7.7	10.6	3.4	1.2	26.8	0.5	5.3	1.5	11.3	239
Uttar Pradesh	16.7	19.4	39.2	10.3	7.0	35.9	0.4	16.8	1.3	18.3	370
Uttarakhand	11.0	19.4	52.8	29.3	37.3	15.7		20.8	2.1	32.1	259
West Bengal	20.3	13.8	54.1	13.5	1.0	12.6	0.4	10.1	3.1	4.4	312
UTs combined	41.1	19.1	49.9	14.5	2.3	24.1	1.6	16.9	5.6	12.1	757
Total	36.6	24.2	325		,	, 10	7		1	10.	0407

An attempt was also made to know whether the mothers of children between the ages of 12-23 months had to make more than one visit for their child's vaccination. Around 5 percent mothers reported that they had to make more than one visit for vaccination (Table 4.20). The percentage of mothers who made more than one visit was slightly more in rural than in urban areas. The major reasons for revisits reported by mothers included non-availability of vaccine at the health facility (45 percent),

absence of the providers (27 percent) and long waiting time (26 percent).

Inter-State variations with regard to revisits were observed. The analysis of the data indicates that more than 10 percent of mothers from Andhra Pradesh, Manipur, Mizoram and West Bengal had to visit more than once for immunization (Table 4.21). In majority of the States, two major reasons for more than one visit were non-availability of vaccine and absence of service provider.

Table 4.20: Percentage of children aged 12-23 months vand the reasons for more than one visit for last immun		than 1 visit for i	mmunization
Responses	Rural	Urban	Total
Percentage of mothers who visited more than once	5.9	5.0	5.2
Number of children who received at least one vaccine	11703	9487	21190
Reasons for more than one visit			
Service provider absent	30.3	30.4	27.1
Vaccine not available	44.2	37.4	44.6
Long waiting time	25.3	35.8	26.2
Others	5.5	7.0	7.2
Number of children who visited more than once	668	437	1105
# unweighted cases			

States/UT	Percent	Number of	Reaso	ns for more	than one v	/isit	Number of
	visited More than once	Children who received at least one vaccine	Service provider absent	Vaccine not available	Long waiting time	Others	children who visited more than once#
Andhra Pradesh	10.0	883	24.5	24.2	57.9	1.0	81
Arunachal Pradesh	8.5	451	45.8	24.6	32.9	7.3	41
Assam	4.2	799	18.9	31.0	35.0	16.8	39
Bihar	3.0	953	42.1	29.5	6.0	23.3	37
Chhattisgarh	3.9	506	32.8	0.8	34.5	31.8	18@
Delhi	7.6	558	19.5	50.8	52.2	0.0	47
Goa	0.6	534	0.0	62.1	37.9	0.0	5@
Gujarat	4.6	772	47.1	36.1	25.2	1.1	35
Haryana	8.3	612	40.9	58.7	36.3	1.5	50
Himachal Pradesh	2.2	542	19.7	47.1	14.7	18.5	11@

Table 4.21: Contd							
States/UT	Percent	Number of	Reaso	ns for more	than one v	/isit	Number of
	visited More than once	Children who received at least one vaccine	Service provider absent	Vaccine not available	Long waiting time	Others	children who visited more than once#
Jammu & Kashmir	7.2	558	20.5	23.5	57.9	7.9	42
Jharkhand	1.7	604	42.6	19.8	37.7	0.0	9@
Karnataka	3.8	747	67.1	18.8	9.1	6.1	21@
Kerala	9.8	749	18.1	21.9	69.4	0.0	80
Madhya Pradesh	2.7	991	42.7	15.3	14.9	29.4	38
Maharashtra	5.2	993	17.7	53.9	21.8	9.5	47
Manipur	19.5	578	64.0	29.3	15.7	1.7	80
Meghalaya	3.4	548	39.8	37.0	16.2	11.4	20@
Mizoram	11.7	571	4.6	81.7	10.7	2.9	82
Nagaland	8.2	453	36.8	45.8	11.4	8.6	26
Orissa	1.4	877	59.4	16.0	0.0	24.6	6@
Punjab	0.4	555	0.0	85.5	0.0	14.5	5@
Rajasthan	1.4	785	9.0	54.1	46.5	0.0	12@
Sikkim	2.4	526	70.2	34.1	0.0	0.0	15@
Tamil Nadu	0.6	1028	16.7	14.8	6.9	61.6	9@
Tripura	7.4	592	38.3	42.0	19.7	0.0	30
Uttar Pradesh	4.4	908	23.6	45.2	20.2	11.7	36
Uttarakhand	2.3	534	45.4	43.6	10.7	18.4	13@
West Bengal	14.5	802	17.9	79.6	1.3	1.9	91
UTs combined	7.1	1181	27.8	21.5	54.2	1.4	79
Total	5.2	21190	27.1	44.6	26.2	7.2	1105

[@] Base is less than 25

4.11 USE OF SAFE INJECTION

The National policy prescribes one autodisable syringe (AD syringe) to be used per immunization. Table 4.22 presents State-wise percentage of children who received at least one injectable vaccine from a public facility by safe injection as reported by the mother. Analysis of the data indicates that in almost all the States both at government health facility and at outreach centres, a large majority of the children were vaccinated using safe injection or AD syringes.

[#] unweighted cases

Table 4.22: Percentage of children aged 12-23 months who received at least one injectable vaccine from public facility according to safe injection practices – Total

States/UT	Governme	ent facility	Outrea	ch site
	Percentage receiving safe injection	Number of children#*	Percentage receiving safe injection	Number of children #**
Andhra Pradesh	98.6	441	99.4	369
Arunachal Pradesh	96.3	312	95.3	88
Assam	93.9	319	91.2	371
Bihar	99.7	223	98.7	549
Chhattisgarh	84.6	106	83.1	303
Delhi	97.2	261	97.2	128
Goa	94.3	273	99.2	172
Gujarat	93.7	264	96.6	356
Haryana	68.4	211	80.7	229
Himachal Pradesh	98.0	310	99.4	201
Jammu & Kashmir	94.9	395	99.1	131
Jharkhand	100.0	91	98.9	381
Karnataka	98.6	378	98.0	272
Kerala	96.4	517	98.6	37
Madhya Pradesh	89.3	210	94.8	606
Maharashtra	98.2	379	97.3	491
Manipur	99.2	368	97.8	91
Meghalaya	94.6	352	79.3	121
Mizoram	94.3	17	96.9	489
Nagaland	91.1	273	90.0	102
Orissa	99.2	231	98.6	511
Punjab	96.0	273	93.4	202
Rajasthan	94.9	308	95.2	416
Sikkim	98.5	248	99.0	130
Tamil Nadu	91.4	769	97.4	43
Tripura	98.7	356	97.6	114
Uttar Pradesh	94.6	274	95.1	492
Uttarakhand	97.6	198	96.1	265
West Bengal	94.1	182	95.4	507
UTs combined	95.2	732	99.5	270
Total	95.1	9271	95.8	8437

^{*} Children vaccinated in Govt. Health Facility ** Children vaccinated in outreach sites

[#] unweighted cases

4.12 REASONS FOR NON-IMMUNIZATION

Mothers whose children did not receive any or some of the vaccinations were probed further for the reasons for no-immunization and partial immunization respectively. Table 4.23 shows that 28.2 percent mothers whose child was partially or not immunized reported that they did not feel the need for immunization. Another 26.3 percent did not know what vaccine were needed and when. About 10.8 percent did not know the place of immunization. The pattern of response however differed by place of residence.

Similar reasons were cited also by mothers whose child did not receive any vaccination. For instance, 29.8 percent mothers reported that they did not feel the need for immunization and 32.4 percent reported that they did not know about the vaccine and the age at which they were to be given. 24.4 percent were afraid of its side effects. Around 16 percent of mothers were unaware of the place of immunization.

There were differences in the reasons cited for 'partial' or 'no' immunization. Lack of knowledge about what vaccines were needed and when to be given was responsible for high proportion of 'partial' immunization while fear of side effects was one of the major reasons for 'no' immunization.

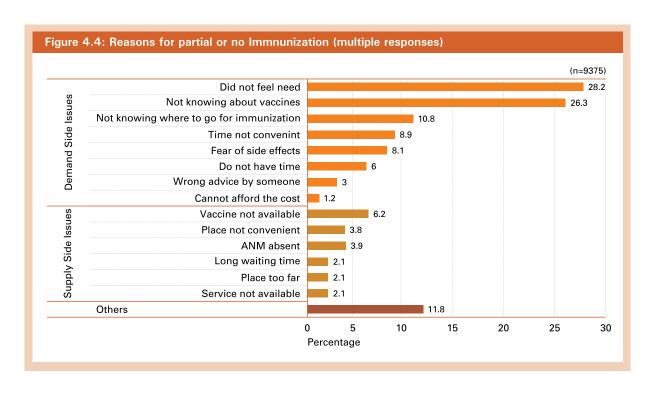


Table 4.23: Percentage of children aged 12 -23 months who received according to the reasons for none or partial immunization	no vaccination	on or partial v	accination
Reasons	Rural	Urban	Total

Reasons	Rural	Urban	Total
Partial Immunization			
Did not feel need for immunization	25.4	36.2	28.1
Did not know what vaccines were needed and when	26.5	18.9	24.6
Did not know where to take child for immunization	10.5	8.8	10.1
Fear of side effects	5.2	4.3	5.0
Service not available when required	1.9	1.0	1.6
Could not afford the cost	0.9	1.1	1.0
Place too far to take the child	1.3	2.2	1.6
Did not have time to take child for immunization	6.1	7.3	6.4
Advised against immunization by someone	2.7	2.1	2.5
ANM absent	3.9	1.7	3.3
Vaccine not available	7.7	4.5	6.9
Time not convenient	9.9	8.9	9.7
Place not convenient	3.9	2.8	3.6
Long waiting time	2.2	2.6	2.3
Others	11.6	13.3	12.0
Number of children partially immunised# (n)	4386	3336	7722
No Immunization			
Did not feel need for immunization	28.4	35.8	29.8
Did not know what vaccines were needed and when	31.3	37.1	32.4
Did not know where to take child for immunization	16.2	15.8	16.1
Fear of side effects	24.6	23.7	24.4
Service not available when required	5.6	0.8	4.7
Could not afford the cost	3.0	1.7	2.7
Place too far to take the child	5.2	1.8	4.6
Did not have time to take child for immunization	4.1	7.8	4.8
Advised against immunization by someone	5.6	5.2	5.5
ANM absent	6.3	1.7	5.4
Vaccine not available	3.8	2.4	3.5
Time not convenient	4.8	6.7	5.1
Place not convenient	5.2	4.1	5.0
Long waiting time	0.9	1.8	1.1
Others	10.3	11.3	10.5
Number of children not immunised# (n)	1047	606	1653

Table 4.23: Contd			
Reasons	Rural	Urban	Total
Both Partial Immunization or No imm	unization		
Did not feel need for immunization	26.0	36.1	28.2
Did not know what vaccines were needed and when	27.4	21.3	26.3
Did not know where to take child for immunization	11.5	9.7	10.8
Fear of side effects	8.7	6.8	8.1
Service not available when required	2.5	1.0	2.1
Could not afford the cost	1.3	1.2	1.2
Place too far to take the child	2.0	2.1	2.1
Did not have time to take child for immunization	5.7	7.4	6.0
Advised against immunization by some one	3.2	2.5	3.0
ANM absent	4.3	1.7	3.9
Vaccine not available	7.0	4.2	6.2
Time not convenient	9.0	8.6	8.9
Place not convenient	4.2	3.0	3.9
Long waiting time	1.9	2.5	2.1
Others	11.4	13.0	11.8
Number of children received partial or no immunization# (n)	5433	3942	9375

Chapter 5

Maternal Care Services

The Government of India launched the National Rural Health Mission (NRHM) in 2007. One important component of NRHM is to improve the availability and accessibility of maternal health care services to rural women to ensure safe motherhood. The maternal care services include antenatal care, delivery care, and postnatal care. Antenatal care services include provision of at least three antenatal care visits; iron folic acid tablets; two injections of tetanus toxoid; detection and treatment of anaemia and management and referral of high risk pregnancies. Delivery care services include skilled birth attendance for all deliveries and provision of emergency obstetric care to those with complications. Postnatal care services include checking mother and newborn; follow-up visits to women and newborns; and advice on family planning, breastfeeding and newborn care. In the present survey all women who delivered during 12 months preceding the survey, in sampled households, were asked about the details of antenatal, natal and postnatal care they received. Besides, information regarding awareness of the JSY scheme and assistance received during it was also collected.

5.1 BACKGROUND CHARACTERISTICS OF WOMEN SELECTED FOR MATERNAL CARE

Table 5.1 presents the percentage distribution of women who delivered during the past 12 months from the date of survey (recently-delivered women), by age and education. The analysis of the age distribution of recently-delivered women shows that

6.6 percent were less than 20 years, 44 percent were in the age group of 20-24 years, 45.2 percent in the age group of 25-34 years and 4 percent were more than 35 years. The proportion of women in the younger age group of <25 years was relatively higher in rural areas compared to urban areas.

An analysis of the data according to educational background of the respondents indicates that

34.3 percent were illiterate. The corresponding figures for rural and urban areas were 40.2 and 19.0 percent, respectively. 28.4 percent of the recently- delivered women had passed high school. Urban women were reportedly more educated than rural women. For instance, 45.0 percent of urban women had passed high school as compared to 22.1 percent of rural women (Table 5.1).

Profile of women	Rural	Urban	Total
Age (in years)			
15-19	6.9	5.8	6.6
20-24	44.8	41.8	44.0
25-34	44.0	48.3	45.2
35-44	4.0	4.0	4.0
45+	0.2	0.1	0.2
Education			
No education	40.2	19.0	34.3
<5 years complete	6.0	5.0	5.7
5-7 years complete	16.4	15.0	16.0
8-9 years complete	15.3	16.0	15.5
10-11 years complete	12.0	18.8	13.9
12 or more years complete	10.1	26.2	14.5
Number of Women# (n)	12849	10135	22984

unweighted edges

5.2 REGISTRATION OF PREGNANCY

Women are encouraged to register with health functionaries as soon as their pregnancy is confirmed in order to receive antenatal care services and advice. All women who had delivered during the last one year prior to the survey were asked about the registration.

Table 5.2 shows that 91.9 percent of women overall registered their last pregnancy. The majority of women registered their pregnancy with government health functionaries such as government doctor (38.7 percent), ANM (14.8 percent) and *Anganwadi* worker (14.9 percent). Slightly more urban women (94.4 percent) registered their pregnancies than their rural counterparts (91.1 percent).

Table 5.2: Percentage of women, who delivered according to pregnancy registration	d during 12 months	s preceding the sur	vey,
Characteristics	Rural	Urban	Total
Pregnancy registration			
Percentage registered during last pregnancy	91.1	94.4	91.9
Registered with			
Government doctor	35.6	47.1	38.7
ANM	17.8	6.2	14.8
Anganwadi worker	18.9	6.5	14.9
ASHA	2.5	0.3	2.0
Private doctor	15.6	33.8	20.9
Others	0.7	0.5	0.6
Number of women who delivered during 12 months preceding the survey# (n)	12,849	10,135	22,984

Although pregnancy registration was very high at the national level, variations did exist across States. States like Goa, Himachal Pradesh, Chhattisgarh, Orissa, West Bengal and Union Territories reported around 98 percent pregnancy registration. The lowest registration was reported in Nagaland (44.3 percent). It was 70.8 percent in Arunachal Pradesh, 82.8 percent in Uttarakhand, and 86.8 percent in Uttar Pradesh. The table further indicates that there were State differentials in the type of health functionaries with whom the women registered for antenatal services. For instance, more than half of the recently delivered women in Arunachal Pradesh, Delhi, Jammu & Kashmir, Manipur, Meghalaya, Punjab, Sikkim, Tamil Nadu, Tripura and Union Territories registered with a government doctor. More registration with private doctors was reported in Andhra Pradesh, Bihar, Delhi, Goa, Gujarat, Jharkhand, Kerala and Maharashtra. In Himachal Pradesh, Uttar Pradesh, Uttarakhand and West Bengal more women reportedly registered with an ANM (Table 5.3a).

Rural-urban differences in the pattern of pregnancy registration existed across States (Table 5.3b & 5.3c). Rural women in most of the States registered their pregnancy with either doctors (government and private) or an ANM or an Anganwadi worker, while in urban areas most women across States preferred registering with government or private doctors. In the rural areas of Delhi, J&K, Sikkim, Tamil Nadu and all UTs more than 60 percent of mothers had registered their last pregnancy with the government doctors (Table 5.3b). Further, registration with government and private doctors varies across States. For example, in urban areas of Arunachal Pradesh, Assam, Himachal Pradesh, Manipur, Meghalaya, Sikkim and Tripura more than 60 percent of the women registered with a government doctor and in Bihar, Goa, Jharkhand and Kerala more than 50 percent of the women registered with a private doctor (Table 5.3c).

Table 5.3a: Percentag the place of registrat						ceding the	survey a	cording to
States/UTs	Not			Registo	ered with			Number
	registered	Govt. Doctor	ANM	AWW	ASHA	Private Doctor	Others	of women#
Andhra Pradesh	5.0	31.8	9.8	21.7	0.7	31.0	0.0	896
Arunachal Pradesh	29.2	52.0	8.1	3.0	3.5	4.3	0.0	569
Assam	7.0	39.7	20.5	4.7	22.4	5.7	0.0	881
Bihar	8.0	15.5	11.0	26.8	3.5	34.7	0.5	1066
Chhattisgarh	1.5	31.0	7.5	39.7	0.1	19.8	0.5	533
Delhi	7.5	59.2	2.6	0.5	0.0	30.3	0.0	589
Goa	0.4	45.5	1.2	4.2	0.0	48.6	0.1	543
Gujarat	4.4	21.7	16.4	24.0	0.6	31.5	1.4	800
Haryana	5.8	37.0	26.4	12.7	0.0	18	0.0	639
Himachal Pradesh	1.7	47.4	36.5	8.2	0.0	6.2	0.0	563
Jammu & Kashmir	10.0	63.3	5.0	7.2	4.5	10.1	0.0	622
Jharkhand	5.9	14.4	9.2	29.5	0.9	38.6	1.6	637
Karnataka	4.7	42.2	6.5	28.6	0.2	17.2	0.6	789
Kerala	7.1	44.5	0.9	0.3	0.4	46.6	0.3	832
Madhya Pradesh	4.8	30.9	15.3	37.5	0.3	10.7	0.5	1046
Maharashtra	3.6	30.8	5.3	28.6	0.0	30.9	0.7	1004
Manipur	10.1	53.2	0.0	0.9	4.1	26.0	5.7	629
Meghalaya	4.5	59.9	24.6	1.6	1.1	7.9	0.5	581
Mizoram	7.1	20.2	21.2	23.7	1.8	25.1	0.8	619
Nagaland	55.7	23.0	5.0	0.0	0.3	15.8	0.3	639
Orissa	1.8	18.7	14.4	50.7	4.5	9.8	0.0	947
Punjab	4.6	51.1	4.3	13.0	0.0	25.4	1.6	583
Rajasthan	10.8	30.5	27.6	21.2	1.1	8.7	0.0	908
Sikkim	6.7	73.4	12.6	4.0	1.3	1.7	0.2	537
Tamil Nadu	4.8	56.7	6.0	11.0	0.0	20.8	0.8	1104
Tripura	11.2	82.6	0.2	0.3	0.8	4.9	0.0	600
Uttar Pradesh	13.2	17.2	45.6	1.0	2.0	19.4	1.5	1135
Uttarakhand	17.2	19.4	42.8	0.8	2.0	17.8	0.0	580
West Bengal	1.7	34.5	38.7	0.1	0.0	24.8	0.1	838
UTs combined	2.2	56.2	6.9	9.5	0.3	23.9	1.1	1275
Total	8.1	38.7	14.8	14.9	2.0	20.9	0.6	22984

Table 5.3b: Percentage according to the place								
States/UTs	Not			Registe	ered with			Number
	registered	Govt. Doctor	ANM	AWW	ASHA	Private Doctor	Others	of women#
Andhra Pradesh	5.4	30.5	11.2	26.7	0.9	25.3	0.0	545
Arunachal Pradesh	32.8	46.7	9.6	3.7	4.4	2.9	0.0	347
Assam	6.4	36.0	23.1	5.3	25.6	3.6	0.0	538
Bihar	8.7	14.6	11.3	28.6	3.8	32.4	0.5	642
Chhattisgarh	1.8	30.3	7.7	45.5	0.0	14.6	0.0	272
Delhi	3.0	71.1	2.1	1.9	0.0	22.0	0.0	58
Goa	0.1	48.5	1.4	6.9	0.0	42.9	0.2	266
Gujarat	4.7	18.7	21.5	31.4	0.4	21.8	1.5	469
Haryana	6.0	32.9	32.8	16.5	0.0	11.9	0.0	337
Himachal Pradesh	1.7	44.2	40.1	9.0	0.0	5.0	0.0	286
Jammu & Kashmir	8.4	64.6	5.8	9.2	5.9	6.1	0.0	321
Jharkhand	6.5	11.8	10.8	35.5	1.2	32.5	1.6	371
Karnataka	5.4	39.5	8.0	35.4	0.2	11.5	0.1	466
Kerala	7.6	45.5	1.2	0.4	0.5	44.7	0.0	500
Madhya Pradesh	6.2	26.6	19.2	39.7	0.5	7.3	0.7	626
Maharashtra	4.4	20.4	6.5	44.9	0.1	23.2	0.5	603
Manipur	11.6	48.5	0.0	1.2	5.6	25.3	7.7	365
Meghalaya	4.4	59.1	30.3	2.0	1.3	2.3	0.6	341
Mizoram	13.5	13.9	26.2	32.4	3.0	10.3	0.7	359
Nagaland	62.3	19.3	4.9	0.0	0.4	12.8	0.3	359
Orissa	1.5	16.1	16.7	54.6	5.2	6.0	0.0	590
Punjab	5.1	49.1	5.6	18.3	0.0	20.1	1.7	314
Rajasthan	11.7	24.9	32.6	25.1	1.2	4.6	0.0	553
Sikkim	7.3	71.2	14.1	4.4	1.5	1.3	0.2	329
Tamil Nadu	2.9	65.0	6.8	14.3	0.0	10.1	0.8	667
Tripura	11.9	83.5	0.0	0.3	0.8	3.5	0.0	360
Uttar Pradesh	13.8	14.9	51.8	1.3	2.6	13.9	1.7	687
Uttarakhand	21.3	16.1	50.6	0.8	2.1	9.2	0.0	294
West Bengal	0.8	28.3	48.4	0.2	0.0	22.1	0.1	518
UTs combined	2.7	60.0	6.7	13.7	0.0	15.9	1.1	466
Total	8.9	35.6	17.8	18.9	2.5	15.6	0.7	12849

Table 5.3c: Percentage of women who delivered during 12 months preceding the survey according to the place of registration of pregnancy according to States/UT - Urban States/UTs Not Registered with Number registered of Govt. **ANM AWW ASHA Private Others** women# **Doctor** Doctor Andhra Pradesh 4.0 35.4 0.0 46.0 0.0 351 6.2 8.5 Arunachal Pradesh 2.4 222 15.2 72.3 0.3 0.2 9.5 0.0 11.6 64.7 2.5 0.3 0.7 0.0 343 Assam 20.2 2.1 22.8 424 Bihar 8.4 11.1 8.0 54.2 0.5 Chhattisgarh 0.0 33.7 6.7 16.5 0.4 40.3 2.4 261 Delhi 7.8 58.3 2.6 0.4 0.0 30.9 0.0 531 Goa 8.0 42.4 1.0 1.5 0.0 54.3 0.0 277 7.9 Gujarat 4.0 26.7 11.7 8.0 47.8 1.2 331 Haryana 5.6 47.2 10.8 3.5 0.0 32.8 0.1 302 Himachal Pradesh 1.9 76.3 3.1 1.2 0.0 17.6 0.0 277 0.0 301 Jammu & Kashmir 14.8 59.2 2.7 0.9 0.3 22 **Jharkhand** 3.9 23.4 3.5 8.2 0.0 59.6 1.4 266 Karnataka 3.5 47.5 3.7 0.0 28.3 1.5 323 15.4 Kerala 5.5 41.6 0.0 0.0 0.0 51.9 332 1.1 Madhya Pradesh 420 8.0 43.1 4.5 31.4 0.0 20.1 0.0 Maharashtra 2.6 44.9 3.8 6.6 0.0 41.3 8.0 401 6.0 0.0 0.0 27.7 0.0 264 Manipur 66.3 0.0 Meghalaya 4.8 63.4 1.0 0.0 30.7 0.0 240 0.0 Mizoram 0.7 16.2 0.7 8.0 260 26.7 14.8 40.1 Nagaland 24.1 40.4 5.3 0.1 0.0 29.8 0.3 280 Orissa 3.5 33.9 1.8 28.6 0.9 31.3 0.0 357 Punjab 3.5 55.1 1.7 2.7 0.0 35.8 1.2 269 355 Rajasthan 8.0 48.9 11.4 8.7 8.0 22.1 0.0 Sikkim 2.3 90.9 0.3 1.1 0.0 5.3 0.0 208 Tamil Nadu 7.1 4.9 8.0 437 46.1 6.7 0.0 34.3 Tripura 7.9 78.7 1.1 0.0 0.9 11.4 0.0 240 Uttar Pradesh 448 10.8 25.9 21.9 0.0 0.0 40.7 8.0 Uttarakhand 5.5 28.9 20.1 1.0 1.6 42.8 0.1 286 West Bengal 3.8 50.4 13.9 0.0 0.0 31.8 0.1 320 UTs combined 2.2 53.5 7.3 0.5 32.4 8.0 809 3.4 **Total** 5.6 47.1 6.2 6.5 0.3 33.8 0.5 10135 # unweighted cases

5.3 ANTENATAL CARE

Availing antenatal care services appropriately contributes to the prevention of maternal morbidity and mortality both among women and children. As part of antenatal care women receive two doses of tetanus toxoid vaccine, adequate amounts of iron and folic acid tablets, or syrup, to prevent and treat anaemia, and at least three ante-natal check-ups.

5.3.1 Antenatal Checkups

A pregnant woman can avail of an antenatal check-up by visiting a doctor or paramedical staff in a health facility or during home visits by a health worker or both. Women who had given birth during the past 12 months preceding the survey were asked whether they had received antenatal care. Table 5.4 shows that 90.4 percent of recently-delivered women received at least one antenatal check-up during their last pregnancy. The proportion of women who received at least one antenatal check-up was higher in urban areas (95.8 percent) compared to rural areas (88.3 percent).

The table further shows that at the national level, 68.7 percent women received three or more checkups during the antenatal period. The proportion of women who received three or more antenatal check-ups was higher in urban (82.7 percent) than rural areas (63.3 percent). An analysis of the timings of the first antenatal check-up shows that 59.2 percent women received the first antenatal check-up in the first trimester. Urban women (70.4 percent) were more likely to receive ANC in the first trimester than rural women (54.9 percent). Further, with regard to the place of ANC services, data shows that the public sector was the main source for mothers receiving antenatal care services as 34.4 percent women got their ANC check-up done at government hospital, 12.8 percent in a sub-centre, 10.8 percent in a PHC and 11.1 percent in an Anganwadi centre. As

compared to this 37.7 percent women got their ANC check-up done at private hospital.

Rural-urban break-up of the data on sources of ANC shows that significantly higher percentage of women from urban areas received ANC check-ups from private doctors than their rural counterparts.

5.3.2 Iron and Folic Acid (IFA) Tablets

Nutritional deficiency in women is often increased during pregnancy because of the additional nutrient requirements of foetal growth. Iron deficiency anaemia is a threat to safe motherhood and to the health and survival of infants because it contributes to low birth weight, lowered resistance to infections etc. Information was collected on whether the mother received and consumed IFA tablets or syrup during pregnancy.

Table 5.5 shows that 81.4 percent respondents in India reported to have received IFA tablets or syrup during the last pregnancy. The percentage of women receiving IFA supplements was comparatively more in urban (86.1 percent) than rural areas (79.6 percent). Only 36.5 percent women received 100 tablets or syrup for 3 months. With regards to the consumption of IFA supplements, 31.0 percent consumed tablets or syrup for 100 or more days. Consumption of more than 100 tablets was higher in urban areas (39.7 percent) than in rural areas (27.6 percent).

Women who received IFA tablets were asked about the source of supply. About 28.1 percent women reportedly received them from the government hospital followed by ANM/AWC/ASHA (25.1 percent) and private hospital/clinic (19.0 percent). In rural areas, the government health facilities including government hospital, PHC/CHC, ANM/AWC were the major sources of IFA tablets. On the other hand, in urban areas both government and private health facilities were equally preferred sources of IFA tablets (Table 5.5).

Characteristics	Rural	Urban	Total
Percentage who received any ANC during last pregnancy	88.3	95.8	90.4
No. of times received ANC	,		
None	11.7	4.2	9.6
1	6.5	2.5	5.4
2	17.9	9.1	15.5
3	17.0	12.1	15.6
4 or more	46.3	70.6	53.1
Don't remember	0.6	1.5	0.9
Stage of pregnancy at the time of first ANC			
No antenatal check up	11.7	4.2	9.6
First trimester	54.9	70.4	59.2
Second trimester	27.9	21.0	26.0
Third trimester	4.8	3.3	4.4
Number of women# (n)	12849	10135	22984
Place of ANC during last pregnancy			
Anganwadi centre	14.9	3.2	11.1
Sub-centre	17.1	2.6	12.8
PHC	13.2	5.1	10.8
UHC/UHP/UFWC	0.3	1.5	0.6
Dispensary	0.7	1.5	0.9
AYUSH Hospital/clinic	0.1	0.2	0.1
Govt. Hospital	29.2	46.7	34.4
Other Public sector Health Facility	0.1	0.0	0.1
NGO/Trust Hospital/clinic	0.5	0.6	0.5
Private Hospital/clinic	32.7	49.7	37.7
Private AYUSH Hospital/clinic	0.4	0.7	0.5
Other Private Sector Health Facility	0.8	1.3	1.0
Home/Parent's Home/Other Home	2.8	1.5	2.5
Others	0.8	0.3	0.7
Number of women who received at least one ANC# (n)	11427	9656	21083

Characteristics	Rural	Urban	Total
Percentage who received/bought iron and folic acid tablets/ syrup during last pregnancy	79.6	86.1	81.4
Whether received IFA tablets or syrup bottles or both			
Tablets	66.8	67.1	66.9
Syrup bottles	1.0	1.4	1.1
Both	11.7	17.6	13.4
No. of IFA tablets received/bought			
<= 30	16.0	13.9	15.4
31-99	28.6	28.0	28.4
>= 100	34.0	42.8	36.5
No. of IFA syrup bottles received/bought			
1	4.8	7.3	5.5
2	4.3	6.1	4.8
3+	3.6	5.6	4.1
No. of days tablets/syrup consumed			
<= 30	18.9	14.1	17.6
31-99	25.1	25.2	25.1
>= 100	27.6	39.7	31.0
None	28.4	21.0	26.3
Number of women# (n)	12849	10135	22984
No. of days tablets/syrup consumed			
Govt. Hospital	23.4	39.4	28.1
Dispensary	1.2	2.7	1.7
UHC/UHP/UFWC	0.2	0.9	0.4
PHC/CHC	14.4	7.0	12.2
Sub-centre	15.0	2.3	11.2
Anganwadi centre/ASHA/ANM	42.2	4.3	25.1
AYUSH Hospital/clinic	0.2	0.2	0.2
Other Public sector Health Facility	0.3	0.4	0.3
NGO/Trust Hospital/clinic	0.5	0.4	0.4
Private Hospital/clinic	15.4	27.7	19.0
Private AYUSH Hospital/clinic	0.2	0.6	0.3
Other Private Sector Health Facility	7.7	20.6	11.5
Others	1.2	2.5	1.5
Number of women received/bought IFA tablets/syrup#	10656	8785	19441

5.3.3 Antenatal Care according to Background Characteristics

There were substantial differences in the reported number of ANC visits, TT injections given, IFA tablets received and consumed by place of residence, mother's education, social group and wealth index group. Table 5.6 shows that among women who had passed higher secondary, 98.2 percent received 3 or more ANC visits, while it was 45.8 percent for illiterate women. Among the social groups, 61.4 percent women from scheduled tribes received 3 or more ANC visits as compared to 77.2 percent women from other castes. Only 46.7 percent of the women from the lowest quintile received at least 3 ANC visits. This percentage increased to 88.5 for women from the highest quintile. Similar differentials were found for at least 2 TT injections and IFA supplements received and consumed.

A woman is considered to have full ANC if she gets at least three ANC, at least one TT injection and has consumed 100+ IFA tablets. Table 5.6 indicates that 26.5 percent women at all-India level had full ANC. The proportion of women with full ANC was more in urban (36.1 percent) than rural (22.8 percent) areas. It increased with the rise in educational level of women from 12.0 percent for illiterate women to 50.5 percent for women who had passed senior secondary. It also increased with the increase in wealth from lowest wealth quintile (11.5 percent) to highest quintile (47.4 percent).

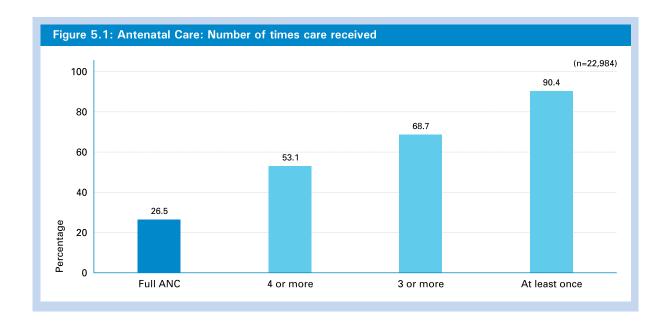
5.3.4 Antenatal Care according to States

Table 5.7a provides State-wise data on the coverage of antenatal care services received by women during their last pregnancy. The utilization of antenatal care services differed greatly among States. The percentage of women receiving at least 3 antenatal check-ups ranged from 29.4 percent in Nagaland to 97.7 percent in Goa. Consumption of IFA tablets or syrup was 31.0 percent at the national level. This percentage was 5.4 in Nagaland and 6.7 percent in Bihar. The consumption of IFA tablets/syrup was more than 40 percent in 12 States.

The percentage of women with full ANC was highest in Kerala (77.9 percent), followed by Goa (53.4 percent), Andhra Pradesh (46.2 percent), Gujarat (45.7 percent), Tamil Nadu (44.1 percent), Delhi (41.6 percent), Jammu & Kashmir (43.5 percent), Haryana (42.9 percent) and Karnataka (40.2 percent). The table further shows that full ANC coverage was below 20 percent in the States of Bihar, Jharkhand, Madhya Pradesh, Nagaland, Rajasthan, Uttar Pradesh, Uttarakhand and West Bengal.

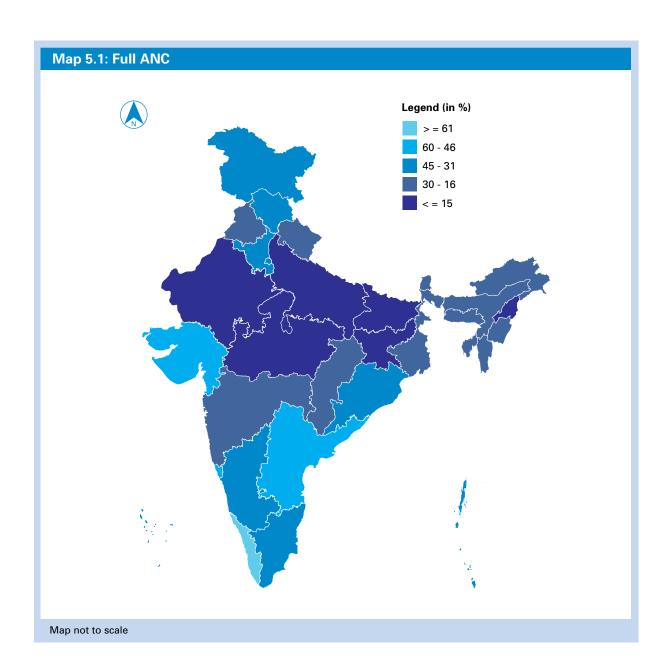
The analysis was further done separately for rural and urban areas according to States.

Tables 5.7b and 5.7c show similar trend of the receiving of antenatal care services such as number of antenatal check-ups, TT injections and consumption of IFA tablets/syrup.



Background Characteristics		Received Antenatal Check ups	I Check up	s	۲	TT injections	S	IFA tab	IFA tablets/syrup	∄	Number of
1								for 10	for 100+ days	ANC*	momen#
	0	At least one	3+	+	0	-	2+	Received	Consumed		
Whether received IFA tablets or syrup bottles or both	yrup bottle	s or both									
15-19	8.2	91.4	72.7	55.7	5.2	4.4	90.5	37.2	25.1	21.6	1165
20-24	8.3	91.0	71.8	56.5	5.6	6.4	88.0	40.6	30.7	26.1	8835
25-34	9.7	89.2	67.3	51.5	6.7	7.1	86.2	42.4	33.3	28.7	11910
35-44	22.9	75.7	45.1	30.7	14.4	7.5	78.2	25.1	17.8	14.7	1043
45+	31.3	67.8	20.6	24.5	0.5	54.5	45.0	45.2	26.1	2.6	31
Residence											
Rural	11.7	87.7	63.3	46.3	7.0	7.1	85.9	37.5	27.6	22.8	12849
Urban	4.2	94.4	82.7	9.07	4.8	5.8	89.4	48.5	39.7	36.1	10135
Mother's Education											
No education	20.3	79.2	45.8	27.7	11.3	9.8	80.1	25.3	17.2	12.0	5525
<5 years completed	7.0	92.4	71.3	51.3	9.9	9.4	84.0	35.2	26.0	22.1	1208
5-7 years completed	6.3	92.8	74.8	58.4	4.7	6.4	88.9	39.1	28.7	25.2	3631
8-9 years completed	4.0	95.2	77.5	59.8	3.1	6.9	89.9	41.8	31.8	27.0	3914
10-11 years completed	2.2	96.4	85.9	73.7	3.8	4.8	91.4	54.6	43.7	39.8	3959
12 or more years completed	1.9	8.96	98.2	80.8	2.7	3.3	94.0	65.4	54.9	50.5	4747
Religious Group											
Hinduism	9.5	90.1	69.4	53.9	5.9	7.0	87.2	41.5	31.7	27.0	16651
Islam	12.5	86.2	62.6	46.4	8.4	5.6	86.0	33.6	25.5	22.0	3001
Sikhism	5.4	94.2	74.8	55.4	5.6	2.3	92.1	43.5	34.7	29.5	397
Christianity	8.0	88.1	74.9	64.2	10.2	7.1	82.7	49.1	40.5	36.6	2512
Other religious groups	4.9	93.6	79.7	57.5	10.7	8.3	81.0	41.6	24.7	22.3	423
Social Group											
Scheduled Caste	10.2	89.3	9.59	49.3	8.9	8.1	85.1	37.2	27.4	22.7	4167
Scheduled Tribe	13.0	82.8	61.4	40.4	12.1	8.0	79.9	33.2	23.5	18.9	3900
Other Backward Classes	11.6	87.5	0.99	51.8	6.1	6.2	87.7	39.1	30.8	26.7	8080
Others	5.1	93.9	77.2	61.4	4.9	6.1	89.0	47.5	36.1	31.2	6837
BPL status											
Have BPL card	8.9	90.2	68.7	53.7	5.9	5.7	88.4	39.9	30.7	26.6	7132
Don't have BPL card	10.0	89.2	68.7	52.7	6.7	7.4	85.9	40.9	31.1	26.4	15852
Wealth Index											
Lowest	18.7	80.9	46.7	27.2	9.3	8.5	82.1	26.3	16.5	11.5	4597
Second	8.1	91.2	71.1	53.2	6.2	5.8	88.0	39.1	29.3	25.1	4596
Middle	5.1	93.9	78.7	62.9	4.9	8.9	88.3	45.1	35.0	31.4	4603
Fourth	4.2	94.5	83.5	71.1	4.9	6.4	88.7	50.4	40.6	36.5	4591
Highest	1.7	97.0	88.5	78.9	3.2	4.1	92.7	60.4	52.3	47.4	4597
Total	9.6	9.68	68.7	53.1	6.4	2.9	6'98	40.6	31.0	26.5	22984

 $^{^{\}ast}$ Percentage of women who received 3+ ANC checkups, 1+ TT injection and consumed 100+ IFA tablets. # unweighted cases



States/UT	Re	ceived /		tal	TT	injectio	ons		ts/syrup for + days	Full ANC*	Number of
	0	At least one	3+	4+	0	1	2+	Received	Consumed		women #
Andhra Pradesh	0.5	99.5	97.0	92.9	4.4	1.7	93.9	9 56.4 49.1		46.2	896
Arunachal Pradesh	30.2	69.8	50.4	29.9	25.4	10.5	64.1	28.2	23.2	16.3	569
Assam	10.4	89.6	66.4	33.5	6.7	3.2	90.1	47.9	29.9	21.3	881
Bihar	15.7	84.3	33.8	14.7	4.8	9.3	85.9	8.4	6.7	4.5	1066
Chhattisgarh	1.3	98.7	71.4	41.6	3.2	8.5	88.4	31.0	26.9	19.9	533
Delhi	4.1	95.9	83.4	73.9	2.9	4.7	92.4	60.2	47.0	41.6	589
Goa	0.8	99.2	97.7	95.5	5.1	7.5	87.4	64.9	55.3	53.4	543
Gujarat	5.2	94.8	83.2	73.1	8.0	12.4	79.7	53.3	48.6	45.7	800
Haryana	10.6	89.4	68.6	57.2	4.2	6.8	88.9	56.8	49.1	42.9	639
Himachal Pradesh	8.7	91.3	67.4	44.6	2.8	14.1	83.1	65.7	49.2	39.2	563
Jammu & Kashmir	6.2	93.8	87.0	76.3	3.6	2.0	94.5	53.1	46.6	43.5	622
Jharkhand	12.4	87.6	57.5	25.7	4.9	5.3	89.8	30.1	14.0	10.9	637
Karnataka	2.5	97.5	91.3	78.1	3.8	4.9	91.3	52.7	43.9	40.2	789
Kerala	2.6	97.4	90.8	90.1	7.0	3.0	90.0	87.4	83.4	77.9	832
Madhya Pradesh	7.7	92.3	60.0	36.0	5.8	7.0	87.2	20.0	14.3	11.1	1046

Maharashtra

Manipur

Mizoram

Nagaland

Orissa

Punjab

Sikkim

Tripura

Pradesh Uttarakhand

West Bengal

combined Total

Uttar

UTs

Rajasthan

Tamil Nadu

Meghalaya

2.7

6.3

4.9

8.1

46.3

2.0

4.7

13.2

8.1

1.5

9.1

28.4

25.4

1.0

9.8

9.6

97.3

93.7

95.1

91.9

53.7

98

95.3

86.8

91.9

98.5

90.9

71.6

74.6

99

90.2

89.6

82.6

85.0

71.0

79.0

29.4

77.0

73.4

55.2

87.3

92.6

83.1

38.2

54.8

83.2

82.8

68.7

69.1

61.1

42.9

65.7

11.8

58.9

48.1

27.8

83.8

89.0

80.9

23.4

39.4

66.8

74.5

53.1

5.1

5.6

5.8

7.4

37.3

4.0

3.0

11.1

11.5

4.4

8.1

12.1

10.0

2.6

5.3

6.4

15.5

7.5

17.7

19.0

16.2

8.0

4.4

7.9

2.1

3.1

1.1

7.3

5.1

2.9

2.8

79.4

86.9

76.6

73.7

46.6

95.2

92.6

81.0

86.5

92.5

90.9

80.6

84.9

94.6

91.9

86.9

36.7

37.3

55.6

34.8

8.7

61.0

41.3

28.5

49.7

55.1

37.1

34.1

33.0

38.5

55.0

40.6

29.2

31.0

35.5

25.5

5.4

46.8

33.9

22.0

29.5

48.0

22.3

19.5

19.4

19.5

45.5

31.0

27.0

28.4

28.1

21.7

3.5

37.5

29.4

14.6

27.7

44.1

21.5

12.4

17.0

17.4

41.0

26.5

1004

629

581

619

639

947

583

908

537

1104

600

1135

580

838

1275

22984

^{*} Percentage of women who received 3+ ANC checkups, 1+ TT injection and consumed 100+ IFA tablets. # unweighted cases

received ante	_										
States/UT	Re	ceived / Check		tal	TT	injectio	ons		ts/syrup for + days	Full ANC*	Number of
	0	At least one	3+	4+	0	1	2+	Received	Consumed		women #
Andhra Pradesh	0.5	99.5	97.0	92.4	4.3	1.8	93.9	54.5	47.6	45.4	545
Arunachal Pradesh	35.1	57.5	43.6	24.8	27.9	11.6	60.5	25.8	21.5	13.9	347
Assam	10.5	86.1	65.8	31.2	6.0	3.2	90.8	47.6	31.1	21.6	538
Bihar	16.8	83.1	31.5	12.8	5.1	9.1	85.8	7.1	5.5	3.3	642
Chhattisgarh	1.6	98.2	68.1	36.0	3.4	10.1	86.5	28.1	24.1	15.5	272
Delhi	3.0	97.0	87.4	82.2	6.0	0.4	93.6	83.6	60.7	58.5	58
Goa	1.4	98.6	97.4	95.6	4.1	10.2	85.7	62.0	54.7	52.6	266
Gujarat	6.0	92.7	81.6	70.6	7.1	15.0	78.0	54.7	49.9	47.0	469
Haryana	12.5	87.5	62.4	50.6	4.9	7.5	87.6	51.0	43.2	36.7	337
Himachal Pradesh	9.1	90.9	65.2	41.3	2.6	14.7	82.7	66.0	48.8	38.2	286
Jammu & Kashmir	5.5	92.6	86.9	75.3	4.1	2.2	93.7	50.8	44.1	42.3	321
Jharkhand	13.5	86.5	52.7	18.9	5.6	5.6	88.8	26.5	13.7	9.8	371
Karnataka	3.5	95.9	91.9	77.5	4.4	5.0	90.6	52.0	43.3	40.5	466
Kerala	2.5	92.5	91.5	90.6	7.1	3.8	89.1	87.0	84.2	78.6	500
Madhya Pradesh	9.3	90.1	56.7	31.5	6.3	7.0	86.7	15.4	9.9	7.5	626
Maharashtra	4.7	94.9	73.8	56.8	6.4	18.7	74.9	27.5	18.9	16.7	603
Manipur	8.4	89.4	80.8	53.4	7.2	8.6	84.2	33.6	28.5	25.1	365
Meghalaya	5.7	89.3	67.9	37.0	5.8	17.2	77.0	53.5	35.8	27.4	341
Mizoram	15.4	77.8	70.8	54.0	12.2	16.8	71.0	35.5	30.0	24.9	359
Nagaland	51.6	45.8	24.7	10.2	42.3	16.1	41.5	8.2	4.6	2.8	359
Orissa	2.0	98.0	75.2	56.1	4.2	0.6	95.2	60.5	45.5	35.3	590
Punjab	5.1	94.7	69.0	43.2	3.7	3.9	92.5	37.9	30.8	25.5	314
Rajasthan	15.9	83.9	51.9	22.8	12.6	6.0	81.5	27.4	21.0	13.2	553
Sikkim	9.0	89.7	86.8	83.2	12.5	1.6	85.8	49.3	29.3	27.4	329
Tamil Nadu	1.4	96.8	93.6	87.8	4.8	3.2	92.0	53.8	45.7	42.0	667
Tripura	10.9	84.9	82.3	80.5	9.3	0.8	89.8	35.9	20.0	19.4	360
Uttar Pradesh	32.0	68.0	31.4	18.1	13.2	7.9	78.9	32.7	16.7	8.9	687
Uttarakhand	32.0	68.0	46.7	30.8	12.5	5.2	82.2	29.2	13.3	10.9	294
West Bengal	0.2	99.8	81.6	63.3	1.8	3.1	95.1	39.9	19.7	17.0	518
UTs combined	20.1	77.7	73.4	64.2	8.0	3.0	89.0	51.3	39.5	34.4	466
Total	11.7	87.7	63.3	46.3	7.0	7.1	85.9	37.5	27.6	22.8	12849

^{*} Percentage of women who received 3+ ANC checkups, 1+ TT injection and consumed 100+ IFA tablets. # unweighted cases

Table 5.7c: Percentage of women who delivered during 12 months preceding the survey and who
received antenatal care, TT injections and IFA tablets according to States/UT - Urban

									tes/UT - Urba		
States/UT	Re	ceived / Check		tal	TT	injectio	ons		ts/syrup for + days	Full ANC*	Number of
	0	At	3+	4+	0	1	2+	Received	Consumed	1	women #
		least one									
Andhra Pradesh	0.5	99.0	97.0	94.3	4.8	1.4	93.8	61.6	53.1	48.4	351
Arunachal Pradesh	11.5	80.7	76.5	49.4	15.8	6.1	78.1	37.3	29.7	25.5	222
Assam	9.7	84.5	70.8	49.1	11.1	3.3	85.6	50.0	22.1	19.5	343
Bihar	6.7	93.3	54.0	31.2	2.4	10.5	87.2	19.8	17.0	14.6	424
Chhattisgarh	0.1	99.4	84.5	63.9	2.2	2.1	95.7	42.9	38.1	37.3	261
Delhi	4.2	93.6	83.2	73.3	2.7	5.0	92.3	58.5	46.0	40.3	531
Goa	0.1	99.9	98.0	95.5	6.1	4.9	89.0	67.9	55.8	54.2	277
Gujarat	4.0	93.8	85.8	77.2	9.5	8.0	82.5	50.9	46.3	43.6	331
Haryana	5.9	94.1	83.8	73.4	2.7	5.1	92.1	70.9	63.5	58.0	302
Himachal Pradesh	4.5	95.5	87.9	75.2	4.5	8.9	86.6	63.5	52.2	48.9	277
Jammu & Kashmir	8.4	91.1	87.2	79.1	1.8	1.3	96.9	60.1	54.2	47.2	301
Jharkhand	8.5	91.5	74.4	49.4	2.4	4.1	93.6	42.7	14.9	14.7	266
Karnataka	0.7	96.3	90.1	79.2	2.8	4.7	92.5	54.0	45.0	39.8	323
Kerala	3.1	91.3	88.7	88.7	6.8	0.5	92.7	88.6	81.2	76.0	332
Madhya Pradesh	3.5	95.2	68.9	48.5	4.5	7.0	88.5	33.0	26.3	21.3	420
Maharashtra	0.1	99.9	94.5	85.7	3.3	11.2	85.6	49.3	43.2	40.9	401
Manipur	0.5	99.2	96.7	82.4	1.3	4.5	94.2	47.4	38.0	37.8	264
Meghalaya	1.5	95.0	83.4	67.2	5.7	19.6	74.7	64.1	34.6	30.8	240
Mizoram	0.7	93.8	87.2	77.6	2.5	21.1	76.4	34.1	20.9	18.5	260
Nagaland	21.0	78.8	51.8	19.1	12.8	16.3	70.9	10.8	9.1	6.9	280
Orissa	1.8	98.2	87.0	74.4	2.9	2.1	94.9	64.1	54.7	49.6	357
Punjab	4.0	95.7	82.2	57.7	1.6	5.4	93.0	47.9	40.0	36.9	269
Rajasthan	4.4	93.1	65.8	44.0	6.5	14.0	79.6	31.9	25.0	19.3	355
Sikkim	0.9	98.3	91.1	88.3	2.9	5.7	91.5	52.5	31.4	29.7	208
Tamil Nadu	1.7	93.5	91.3	90.6	3.9	2.9	93.2	56.8	50.8	46.7	437
Tripura	0.6	90.8	87.1	82.8	2.0	2.1	95.9	42.8	33.3	31.5	240
Uttar Pradesh	14.6	85.4	64.4	43.5	8.1	5.0	87.0	39.4	30.0	25.8	448
Uttarakhand	6.4	93.6	78.4	64.4	2.8	4.8	92.4	43.9	36.9	34.8	286
West Bengal	3.1	96.2	87.2	75.9	4.5	2.2	93.4	34.8	18.9	18.4	320
UTs combined	2.5	94.7	89.3	83.0	4.0	2.7	93.3	59.7	51.5	46.9	809
Total	4.2	94.4	82.7	70.6	4.8	5.8	89.4	45.8	39.7	36.1	10135

^{*} Percentage of women who received 3+ ANC checkups, 1+ TT injection and consumed 100+ IFA tablets. # unweighted cases

5.3.5 Components of Antenatal Checkups

The effectiveness of antenatal check-ups in ensuring safe motherhood depends on the tests and measurements done and the advice given during antenatal check-ups. The important services to be rendered during ANC include weight, height and blood pressure measurement, blood and urine tests and examination of abdomen and breast. In the present survey, women who received any ANC were further asked about the components of ANC at least once during their last pregnancy. Table 5.8 presents the percentage of women who had their last live/still birth 12 months preceding the survey and received specific components of ANC by place of residence.

More than 70 percent women reported that their weight was taken, blood pressure was checked, blood and urine were tested, abdomen and breast examined and they received nutritional advice.

Nearly 69 percent women received delivery-related advice and 67.4 percent were told about the date of delivery. Higher proportion of women in urban areas received these services than their rural counterparts.

During the antenatal check-ups, women are supposed to be counselled for danger signs during antenatal period and told where to go for treatment when such problems arose (Table 5.8). When asked about danger signs of pregnancy, 29.7 percent of the women reported that they were informed about prolonged labour, vaginal bleeding (26.9 percent) and convulsion (20.3 percent). Around

58.3 percent of the respondents were informed about the place for treatment of pregnancy-related complications. Women were further asked about the type of advice received during antenatal check-ups. Analysis of the data shows that about 77.8 percent of the women were counselled for consumption of IFA tablets during pregnancy and 62-69 percent of the women received advice on breastfeeding practice, nutrition during pregnancy, need for institutional delivery and importance of maintaining cleanliness during pregnancy. About 58.2 percent of the women were told to keep their baby warm and 52.4 percent were advised to use iodized salt during pregnancy. Higher proportion of women from urban areas reportedly received such advice than the rural women.

5.3.6 Component of ANC according to States/UTs

There are large State variations in receiving different components of antenatal care. Table 5.9 indicates that less than half of the women reported weight measurement during pregnancy in 4 States viz., Bihar, Nagaland, Uttar Pradesh and Uttarakhand. Blood pressure check-up in different States ranged from 30.4 percent in Bihar to 99.0 percent in Goa. Blood pressure check-up was reported by more than 75 percent of the women in 19 States.

Blood and urine tests coverage ranged from 29 and 31 percent in Bihar to 99 percent each in Goa. Similar trends were reported for other components of ANC in various States.

Table 5.8: Percentage of women who delivered during 12 months preceding the survey according to specific components of antenatal care, counselling for danger signs during pregnancy and antenatal care advice received

Components of antenatal checkups	Rural	Urban	Total
Antenatal measurements/tests	<u> </u>		
Weight measured	75.2	87.2	78.7
Height measured	35.3	49.6	39.5
Blood pressure checked	70.6	86.0	75.1
Blood tested	69.5	89.7	75.4
Urine tested	68.0	89.4	74.3
Abdomen examined	75.5	88.3	79.2
Breast examined	40.6	59.1	46.1
Sonogram/Ultrasound done	48.4	75.3	56.3
Delivery date told	62.3	79.7	67.4
Delivery advice given	65.4	77.2	68.9
Nutrition advice given	71.9	81.3	74.7
Antenatal Counselling for danger signs			
Vaginal bleeding	23.8	34.2	26.9
Convulsions	18.2	25.4	20.3
Prolonged labour	27.0	36.4	29.7
Percentage of mothers who were advised where to go for	56.2	63.2	58.3
treatment in case of complications in pregnancy Antenatal advice			
Breastfeeding	65.1	76.8	68.5
Keeping the baby warm	54.0	68.0	58.2
Need for cleanliness at the time if delivery	58.1	70.3	61.7
	45.1	56.6	48.5
Family planning advice Better nutrition for mother and child	63.8	73.2	66.6
	62.1	73.2	65.2
Need for institutional delivery Advice to use iodized salt		72.8 59.2	
7 10 11 10 10 10 10 10 10 10 10 10 10 10	49.5	77.2	52.4
Counselling for IFA tablets	76.3	81.6	77.8
Number of women# (n)	11427	9656	21083

Base = All recently-delivered women who received at least one ANC # unweighted cases

States/UT Perceinerein receinest least Andhra Pradesh 7/ Arunachal Pradesh 7/ Assam 9/ Bihar 9/													
ra Pradesh achal Pradesh n	Percent who received at least one TT	Weight measured	Height measured	Blood pressure checked	Blood	Urine tested	Abdomen examined	Breast examined	Sonogram/ Ultrasound	Delivery date told	Delivery advice given	Nutrition advice given	Number of women # (n)
achal Pradesh m	92.6	98.7	72.1	97.2	98.0	97.5	93.2	62.9	9.98	94.9	88.9	92.2	968
E	74.6	8.59	27.7	64.2	63.2	61.7	49.2	32.4	46.8	57.3	50.3	45.2	269
	93.3	80.7	55.3	79.0	64.9	59.7	56.5	40.0	31.5	72.5	71.9	67.8	881
	95.2	34.2	9.6	30.4	29.4	31.3	40.2	8.4	15.7	23.8	29.8	41.8	1066
Chhattisgarh 9	8.96	73.3	35.3	64.4	69.2	70.9	76.1	49.6	26.3	48.1	48.1	49.8	533
Delhi 9	97.1	85.5	36.8	79.1	80.0	84.1	78.0	38.5	65.8	69.3	7.07	75.1	589
Goa 9.	94.9	0.66	46.9	99.0	0.66	98.5	97.4	80.0	95.1	92.7	9.98	91.1	543
Gujarat 9.	92.0	91.5	59.2	85.2	84.9	74.2	72.0	59.3	55.2	70.2	66.1	74.0	800
Haryana 9.	95.8	71.9	29.1	59.0	17.7	82.3	72.3	29.3	40.6	36.2	32.9	34.1	629
Himachal Pradesh 9	97.2	85.1	32.7	17.7	6.77	74.0	81.9	32.4	54.9	49.5	49.4	68.9	563
Jammu & Kashmir 9	96.4	75.4	53.7	8.68	91.4	89.0	75.6	61.4	76.9	75.8	59.0	58.0	622
Jharkhand 9.	95.1	57.0	11.5	51.0	48.6	50.8	58.6	13.9	25.3	47.3	53.2	67.2	637
Karnataka 9	96.2	90.5	82.2	91.0	93.8	94.2	91.0	78.9	80.2	84.2	83.0	83.2	789
Kerala 9:	93.0	96.5	86.0	96.0	96.4	96.1	95.0	97.6	93.5	95.9	95.4	95.9	832
Madhya Pradesh 9.	94.2	63.2	18.4	50.4	2.09	51.4	56.8	31.4	24.8	46.8	50.1	53.0	1046
Maharashtra 9.	94.9	91.7	35.1	87.5	88.7	87.7	84.7	69.7	70.4	78.6	75.6	79.3	1004
Manipur 9.	94.4	90.7	80.4	92.2	8.06	92.1	89.7	77.6	77.3	6.06	84.6	80.0	629
Meghalaya 9.	94.2	94.0	73.1	91.0	9.07	64.7	78.4	64.5	37.0	56.3	72.0	76.5	581
Mizoram 9:	97.6	81.0	50.0	80.7	68.2	71.0	73.2	53.9	45.0	82.3	71.1	65.9	619
Nagaland 6.	62.7	39.3	13.9	49.7	31.0	31.2	31.2	12.2	13.2	26.3	28.6	22.9	629
Orissa 9	0.96	77.5	12.8	75.0	6.99	67.7	78.9	11.2	37.3	60.4	52.9	61.2	947
Punjab 9	97.0	76.5	24.4	73.2	76.1	73.7	75.9	42.5	62.0	56.4	59.9	63.0	583
Rajasthan 8	88.9	61.3	19.7	59.7	63.9	66.5	68.1	33.2	46.2	51.0	53.5	54.2	806
Sikkim 8	88.5	91.1	40.8	89.2	86.1	82.8	72.1	17.0	45.4	86.3	75.8	63.0	537
Tamil Nadu 99	92.6	97.6	97.0	97.9	97.8	97.9	97.9	97.3	97.6	97.5	97.1	97.7	1104
Tripura 9	91.9	89.9	64.5	89.2	88.7	89.3	73.1	63.1	53.3	78.2	75.9	76.8	009
Uttar Pradesh 8	87.9	32.1	6.9	32.1	33.7	35.7	56.2	13.1	32.6	33.4	46.8	52.4	1135
Uttarakhand 9	0.06	37.4	8.9	36.9	52.8	53.1	52.9	12.2	45.4	42.6	42.7	47.4	280
West Bengal 9	97.4	90.2	13.9	83.2	71.3	9.59	73.6	16.0	36.1	67.1	62.7	78.8	838
UTs combined 9.	94.7	88.8	68.1	87.3	87.5	82.9	83.6	76.1	78.6	79.6	78.0	79.3	1275
Total 9:	93.4	78.7	39.5	75.1	75.4	74.3	79.2	46.1	56.3	67.4	6.89	74.7	22984

5.4 REASON FOR NOT RECEIVING THE ANC SERVICES

The women who did not receive any ANC services during their last pregnancy were asked for the reason for the same. More than half (56.1 percent) of the women did not feel it necessary to avail of

the services (Table 5.10). This was reported more by urban women (61.5 percent) compared with women from rural areas (55.3 percent). The other reasons for not availing ANC services were high cost (18.0 percent), lack of knowledge (14.7 percent) and objections by family (12.2 percent). About 8.9 percent of the women also reported accessibility as yet another reason for not availing the services.

Reasons for not receiving ANC	Rural	Urban	Total
Not necessary	55.3	61.5	56.1
Not customary	6.3	3.6	5.9
Cost too much	18.7	12.7	18.0
Too far/No transport	9.8	2.6	8.9
Poor quality service	4.8	2.9	4.6
Service provider not available	6.5	2.0	6.0
Objections by family	11.8	14.8	12.2
Lack of knowledge	14.9	13.1	14.7
No time	8.7	19.3	10.0
Others	2.8	3.5	2.9
No. of women who did not receive any antenatal care#	1422	479	1901

5.5 ACCESSIBILITY OF ANC SERVICES

Accessibility could be one of the important factors which hinder utilization of the maternal care services. Women were specifically asked about the place of ANC services, distance (in Kms.) to the nearest health facility from their home, and the time taken to reach the facility. The information collected is presented in table 5.11. The table shows that more than 24.2 percent of the women reported government hospital as the nearest source for

antenatal care services, 21.3 percent reported PHC, and 20.0 percent sub-centre. Another 22.0 percent women reported private doctor/clinic as the nearest place for ANC services. More women in urban areas reported government and private hospital/clinic as the nearest source than rural women. One-third of the women reported that the facility was within one kilometre from their place of residence and another 31.0 percent reported that the facility was within 1-2 kilometres. Majority of the women (65.3 percent) further reported that it took less than 20 minutes to reach the facility.

Responses	Rural	Urban	Total
Place for ANC services			
At home	1.8	1.1	1.6
In same village (through visiting ANM)	5.9	3.9	5.3
Sub centre	25.6	5.5	20.0
PHC	25.6	10.1	21.3
Govt. hospital	18.8	38.0	24.2
Private doctor/Hospital/Clinic	16.3	36.7	22.0
Others	2.7	2.0	2.5
DK/CS	3.2	2.8	3.1
Distance to nearest facility to receive ANC services (in h	(ms.)		
<1	31.5	36.2	32.8
1-2	26.6	42.3	31.0
3-4	13.7	9.9	12.6
5+	28.0	11.4	23.4
Mean distance	3.9	2.0	3.4
Time (in minutes) to reach the place to receive ANC Ser	vices		
<10	16.2	21.7	17.7
10-20	44.0	57.1	47.6
20-30	20.6	13.8	18.7
30-60	13.6	4.7	11.1
60+	3.7	1.0	2.9
DK/CS	1.9	1.9	1.9
Mean time	24.7	16.5	22.4
Number of women# (n)	12849	10135	22984

5.6 COMPLICATION DURING PREGNANCY

Women were asked whether they had complications and what kind of complications was faced by them during their last pregnancy. Table 5.12 shows that about 71.8 percent of women faced at least one complication. The proportion of women who faced complications was slightly higher in urban (74.2 percent) than their counterparts in rural (70.8 percent) areas. The commonly faced problems by women during pregnancy were giddiness/paleness (37.6 percent) followed by swelling of face/feet (29.4 percent), excessive fatigue (25.4 percent), excessive vomiting

(28.1 percent), visual disturbances (12.5 percent) and weak or no movement of foetus (10.8 percent).

Women who faced at least one complication were probed about the source of treatment for the complications they faced. Analysis of data on treatment seeking behaviour shows that most of the women consulted private doctors (54.0 percent) followed by government doctors (29.4 percent) and the PHC (8.0 percent). Table 5.12 further shows that 32.8 percent women did not consult anybody. Comparatively higher percentage of women in rural areas (35.6 percent) did not consult anybody as compared to urban women (25.9 percent).

esponses	Rural	Urban	Total
aced any of the complications			
Swelling of hands, feet and face	28.6	31.5	29.4
Paleness/giddiness/weakness	38.7	34.9	37.6
Visual disturbances	12.9	11.4	12.5
Excessive fatigue	25.1	25.9	25.4
Convulsions, not from fever	7.2	7.7	7.4
Weak or no movement of foetus	10.6	11.1	10.8
Abnormal position of foetus	3.7	4.6	4.0
Malaria	4.1	4.7	4.2
Excessive vomiting	26.6	32	28.1
Hypertension/High BP	6.4	8.8	7.1
Jaundice	1.8	2.0	1.9
Excessive bleeding	2.7	3.3	2.9
Vaginal discharge	3.1	3.1	3.1
Others	18.6	23.3	20.2
Faced at least one complication	70.8	74.2	71.8
Faced no complication	29.2	25.8	28.2
Number of women# (n)	12849	10135	22984
Facility consulted during complications			
Govt Hospital	26.7	35.1	29.4
Dispensary	0.7	1.2	0.8
UHC/UHP/UFWC	6.7	3.3	5.7
PHC	10.2	3.2	8.0
Sub centre	5.7	0.9	4.2
AYUSH Hospital/clinic	0.4	0.4	0.4
NGO/Trust Hospital/clinic	1.0	0.5	0.8
Private Hospital/clinic	51.8	58.7	54
Private AYUSH Hospital/clinic	0.4	0.3	0.4
Others	2.4	0.6	1.8
Consulted anyone	64.4	74.1	67.2
Not Consulted	35.6	25.9	32.8

5.7 NATAL CARE

5.7.1 Place of delivery and Assistance during delivery

An important thrust of the NRHM programme is to promote institutional deliveries or to conduct home deliveries under hygienic conditions and under the supervision of skilled health personnel. Women, who delivered during 12 months preceding the survey, were asked about the place of delivery, the person who assisted the delivery, and the nature of the delivery. Table 5.13 shows that 72.9 percent of births took place in some health institution, 47 percent of the women delivered in public institutions such as government hospital, PHC, CHC/rural hospital, sub-centre and 25.9 percent in a private hospital and clinic. Wide rural-urban differences were observed with regard to the place of delivery. For instance, 85.6 percent of the women in urban areas delivered in an institution as compared to 68.0 percent in rural areas.

Table 5.13 further shows that about 76.2 percent of the deliveries were reportedly attended by skilled

health personnel. The analysis of the data further shows that 17.5 percent of the deliveries were attended by traditional birth attendant and 6.1 percent by friends/relatives/neighbours. Overall, the proportion of deliveries attended by skilled health personnel was less in rural areas (71.1 percent) as compared to urban areas (87.9 percent).

Nearly 55.9 percent of the women were motivated by their husbands or other family member for institutional delivery, 48.1 percent by skilled birth attendant, 29.5 percent by doctors and 27.7 percent by relatives or friends. 13.8 percent of the women reported that ASHA motivated them for institution delivery. The percentage of rural women motivated by ASHA was 19.2 percent as compared to 2.7 percent in urban areas.

With regard to nature of delivery, almost 83.6 percent deliveries (87.5 percent in rural areas and 73.5 percent in urban areas) were normal and 15.1 percent were caesarean section. The proportion of caesarean section deliveries reported by women was much higher in urban areas (24.3 percent) than in rural areas (11.5 percent).

Responses	Rural	Urban	Total
Place of delivery			
nstitutional deliveries	68.0	85.6	72.9
Govt. Hospital	26.0	37.2	29.1
Dispensary	0.1	0.4	0.2
UHC/UHP/UFWC	0.1	0.8	0.3
CHC/Rural Hospital	8.3	2.7	6.7
PHC	11.0	3.0	8.8
Sub-centre	1.6	0.3	1.2
AYUSH Hospital/Clinic	0.1	0.2	0.1
NGO/Trust Hospital/Clinic	0.5	0.6	0.5
Private Hospital/Clinic	20.2	40.3	25.8
Private AYUSH Hospital/Clinic	0.0	0.2	0.1
Non-Institutional deliveries	·		
On way to Hospital	0.2	0.1	0.2
At home	31.7	14.2	26.8
Others	0.1	0.1	0.1
Assistance during delivery	<u> </u>		
Doctor	44.7	67.1	50.9
ANM/Nurse/LHV	26.4	20.5	24.7
Skilled worker	71.1	87.9	76.2

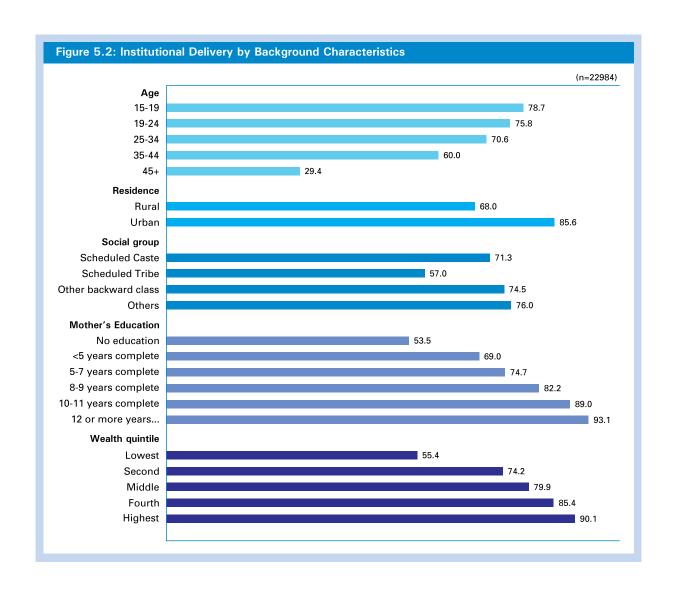
Responses	Rural	Urban	Total
Dai	20.5	9.8	17.5
Relatives/Friends	7.6	2.1	6.1
Others	0.5	0.2	0.4
None	0.3	0.3	0.3
Persons who facilitated/motivated for institutional	delivery		
Doctor	26.7	35.1	29.5
ANM/Health worker	21.5	12.4	18.6
Skilled Birth Attendant	48.2	47.5	48.1
Anganwadi worker	8.8	3.0	6.9
ASHA	19.2	2.7	13.8
NGO/CBO	1.5	1.5	1.5
Husband, mother-in-law, mother	48.7	63.1	55.9
Relatives, Friends	25.9	31.5	27.7
Self	16.4	28.4	20.3
None	0.1	0.3	0.2
Others	0.8	0.6	0.7
Nature of last delivery			
Normal	87.5	73.5	83.6
Assisted delivery	1.0	2.2	1.4
Caesarean section	11.5	24.3	15.1
Number of women# (n)	12849	10135	22984

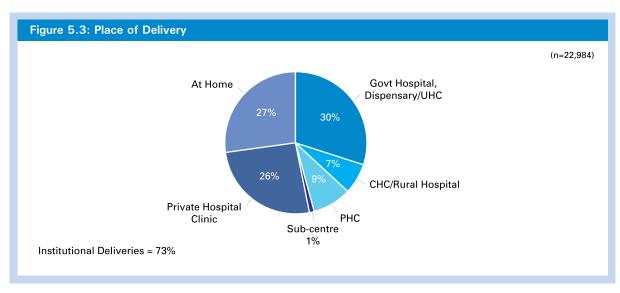
5.7.2 Type of Delivery according to Place

Table 5.14 presents the analysis of data on nature of delivery according to place of delivery. The table indicates that more caesarean and assisted deliveries were reported in private sector than in public sector facilities. In order to understand the pattern of deliveries, the place of delivery was analysed according to background characteristics of the women. Analysis of the data shows that high proportion of younger women (below 35 years) went for institutional deliveries than older women (35+ years). Muslim women were less likely to

go for institutional deliveries than women from other religious groups. Further analysis shows that institutional deliveries were significantly higher among better educated women and those from households belonging to higher wealth quintiles. For instance, only 53.5 percent of the illiterate women delivered in institutions and this percentage increased to 93.1 percent among women who had passed higher secondary. The proportion of institutional deliveries increased from 55.4 percent among women in households with the lowest wealth quintile to 90.1 percent among women from households with the highest wealth quintile.

Table 5.14: Percentage of women who delivered during 12 months preceding the survey according to nature of delivery and place of delivery							
Place of Delivery	Normal	Assisted	Caesarean	Number of women who delivered #			
Govt. Sector	86.5	1.2	12.4	11715			
Private Sector	62.5	2.9	34.6	5990			
Home & others	100.0	0.0	0.0	5279			
Total	83.8	1.3	14.9	22984			
# unweighted cases							





place of delivery and ass Background		utional De		Home De			Skilled birth	Number of
characteristics	Public	Private	Total	Skilled worker	Dai	Others	attendant*	women# (n)
Mother's age (in years)				Troncor	<u> </u>			
15-19	52.0	26.7	78.7	1.8	15.3	4.2	80.5	1165
19-24	49.4	26.4	75.8	3.3	15.5	5.4	79.0	8835
25-34	44.4	26.5	70.6	3.6	17.9	7.6	74.2	11910
35-44	44.7	15.4	60.0	2.9	27.3	9.7	62.9	1043
45+	17.6	11.8	29.4	-	61.7	8.9	29.4	31
Residence								
Rural	47.7	20.3	68.0	3.7	19.9	8.4	71.7	12849
Urban	45.1	40.5	85.6	2.3	9.7	2.4	87.9	10135
Religious group								
Hinduism	49.3	25.5	74.8	3.3	15.4	6.5	78.0	16651
Islam	37.7	24.7	62.4	3.2	26.9	7.5	65.6	3001
Sikhism	28.5	44.2	72.7	5.0	22.1	0.2	77.7	397
Christianity	42.7	33.4	76.0	2.8	10.9	10.2	78.9	2512
Other religious group	40.7	31.8	72.6	3.9	15.4	8.2	76.5	423
Social group				,				
Scheduled Caste	54.3	17.0	71.3	3.7	18.9	6.1	75.0	4167
Scheduled Tribe	43.7	13.4	57.0	4.3	24.4	14.2	61.3	3900
Other backward class	46.2	28.2	74.5	2.9	16.3	6.4	77.4	8080
Others	43.1	32.9	76.0	3.3	14.7	6	79.3	6837
Mother's education	,			'	<u>'</u>			
No education	43.4	10.1	53.5	4.2	30.3	12.0	57.7	5525
<5 years completed	51.4	17.6	69.0	4.9	19.1	7.0	73.9	1208
5-7 years completed	54.6	20.1	74.7	3.5	15.7	6.1	78.2	3631
8-9 years completed	53.1	29.1	82.2	2.7	11.0	4.1	84.9	3914
10-11 years completed	50.3	38.6	89.0	2.2	6.8	2.1	91.1	3959
12 or more years completed	36.0	57.1	93.1	1.9	2.9	2.1	95.0	4747
BPL status								
Have BPL card	51.2	21.0	72.1	3.2	17.5	7.1	75.3	7132
Don't have BPL card	44.5	28.8	73.4	3.4	16.8	6.5	76.7	15852
Wealth quintile								
Lowest	47.5	7.9	55.4	3.6	28.4	12.6	59.0	4597
Second	53.7	20.5	74.2	3.1	16.5	6.2	77.3	4596
					l			i e

28.7

37.5

61.0

79.9

85.4

90.1

72.9

4.2

3.3

1.7

3.3

12.1

9.3

5.8

17.1

3.9

2.0

2.5

6.7

51.1

47.9

29.0

47.0

Middle

Fourth

Highest

Total

84.0

88.7

91.8

76.2

4603

4591

4597

22984

^{25.9} * Skilled worker includes Doctor, ANM/Nurse/LHV; Dai is a traditional birth attendant

[#] unweighted cases

5.7.3 Place of Delivery and Assistance during Home Delivery according to States

Table 5.16a presents the analysis of data with respect to the place of delivery, assistance during delivery, and deliveries attended by skilled health personnel by States and Union Territories. Percentage of institutional deliveries varied widely across the States and Union Territories, Institutional deliveries were below 50 percent in 4 States namely Bihar (48.3 percent), Chhattisgarh (44.9 percent), Jharkhand (40.1 percent) and Nagaland (30.4 percent). In the States of Andhra Pradesh, Goa, Kerala, and Tamil Nadu more than 90 percent of the deliveries took place in institutions. On the other hand, in States like Assam, Bihar, Chhattisgarh, Haryana, Himachal Pradesh, Jharkhand, Punjab, Rajasthan, Uttarakhand and West Bengal more than 20 percent deliveries were conducted by a dai.

Rural-urban differentials existed with regard to place of delivery and the person attending the home delivery across the States/Union Territories. Table 5.16b shows that in rural areas, institutional deliveries ranged from 24.3 percent in Nagaland to 100 percent each in Kerala and Goa. In 14 States the proportion of institutional deliveries are less than the national average. In contrast, the percentage of institutional deliveries in urban areas was higher. Institutional deliveries in urban areas ranged from 60.0 percent in Nagaland to 99.7 percent each in Kerala and Goa (Table 5.16c).

5.7.4 Mode of Transport, Transport Cost and Delivery Cost

All women who had institutional deliveries were asked about the mode of transport used to reach the health facility, cost incurred on transportation, and whether they had received any financial assistance from the government for delivery. The information collected has been presented in table 5.17 according to place of residence at national level.

Around 6.5 percent women used an ambulance, 30.9 percent jeep/car to reach the health facility for delivery while 7.5 percent travelled by motorcycle or scooter. However, many women reportedly used some other modes of transport such as bus/train (6.6 percent), and tempo/auto/tractor (34.1 percent). About 4.8 percent women reportedly reached the health facility on foot. When asked about distance travelled and time taken to reach the health facility, women in the rural areas had to travel more than double the distance as compared to those in urban areas. Women in rural areas travelled 11.2 Kms. on an average to reach the place of delivery, as compared to those in urban areas who travelled 4.9 Kms. Women in rural areas took 39.2 minutes on an average to reach the place of delivery, while women in urban areas took 24.3 minutes on an average. (Table 5.17).

Women who delivered in an institution were also asked about the transportation cost incurred to reach the health facility. The mean transport cost was Rs. 192/-. It was Rs. 243/- in rural areas and Rs. 140/- in urban areas. About 21.0 percent of the women did not incur any transportation cost to reach health facility.

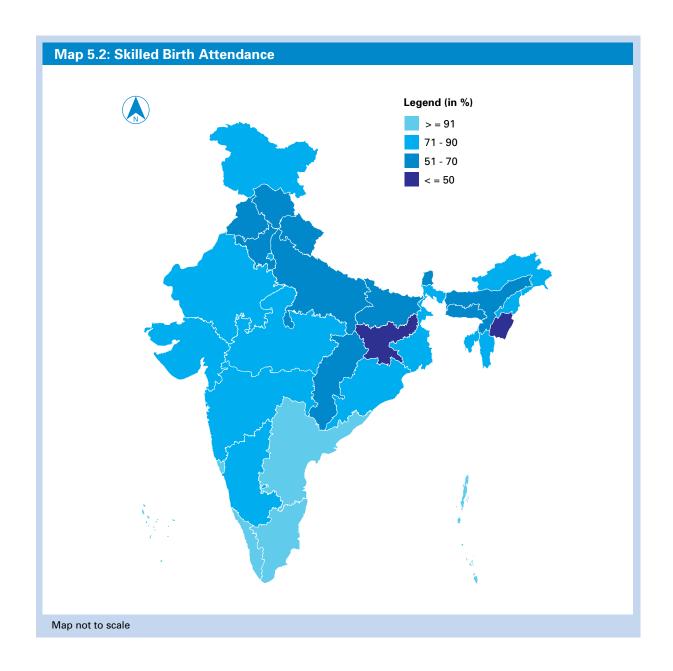


Table 5.16a: Percentage of women who delivered during 12 months preceding the survey vis a vis place of delivery and assistance during home delivery according to States/UT - Total States/UT Institutional Delivery Home Delivery assisted by Skilled birth Number of attendant* women# (n) **Public Private Total Skilled Others** worker Andhra Pradesh 44.5 49.8 94.2 1.4 3.9 0.4 95.6 896 Arunachal Pradesh 64.6 5.3 69.9 2.0 6.4 21.7 71.9 569 Assam 55.5 8.9 64.4 1.1 24.3 10.2 65.5 881 7.0 Bihar 35.5 12.8 48.3 4.9 39.8 53.2 1066 Chhattisgarh 30.3 14.6 44.9 11.4 37.1 6.6 56.4 533 Delhi 45.8 37.8 83.6 1.0 11.9 3.5 84.6 589 Goa 45.9 53.9 99.8 0.0 0.2 0.0 99.8 543 34.2 800 Gujarat 43.9 78.1 7.1 11.8 3.0 85.2 39.0 24.3 63.3 6.0 29.3 1.4 69.3 639 Haryana Himachal Pradesh 37.8 12.5 50.3 3.4 28.4 17.9 53.7 563 Jammu & Kashmir 70.6 10.3 80.9 2.1 12.7 4.3 82.9 622 7.2 47.3 Jharkhand 17.4 22.7 40.1 45.1 7.6 637 Karnataka 62.9 2.0 5.7 789 23.5 86.4 5.9 88.4 Kerala 49.3 50.6 99.9 0.0 0.0 0.1 99.9 832 Madhya Pradesh 71.1 9.9 81.0 1.9 11.1 6.0 82.9 1046 1004 Maharashtra 40.5 41.4 81.8 3.7 9.4 5.0 85.5 Manipur 49.1 30.9 80.0 2.7 10.7 6.6 82.7 629 Meghalaya 52.9 10.8 63.6 1.6 13.7 21.0 65.2 581 Mizoram 56.3 2.1 9.0 85.1 619 26.7 83.0 5.9

25.9

61.9

21.8

55.3

67.2

62.9

80.3

40.8

33.3

54.2

59.5

47.0

4.5

13.6

38.5

15.1

1.7

35.5

2.3

21.3

20.2

15.3

28.6

25.9

30.4

75.5

60.3

70.5

68.9

98.4

82.6

62.1

53.5

69.5

88.1

72.9

13.4

3.6

6.4

5.3

1.0

0.2

0.5

2.1

5.1

3.0

2.7

3.3

2.3

9.9

32.8

21.7

13.7

0.1

9.6

18.9

28.1

23.0

7.8

17.1

53.9

11.0

0.5

2.6

16.4

1.3

7.3

16.9

13.3

4.5

1.4

6.7

43.8

79.1

66.7

75.8

69.9

98.6

83.1

64.2

58.7

72.6

90.7

76.2

639

947

583

908

537

1104

600

1135

580

838

1275

22984

Nagaland

Orissa

Punjab

Sikkim

Tripura

Total

Rajasthan

Tamil Nadu

Uttar Pradesh

Uttarakhand

West Bengal

UTs combined

^{*} Skilled worker includes Doctor, ANM/Nurse/LHV; Dai is a traditional birth attendant # unweighted cases

[&]quot; anworgined edeed

Table 5.16b: Percentage of women who delivered during 12 months preceding	the survey
according to place of delivery and assistance during home delivery by States/U	T - Rural

according to place of d States/UT		utional De		Home De			Skilled birth	Number of
	Public	Private	Total	Skilled worker	Dai	Others	attendant*	women# (n)
Andhra Pradesh	45.6	48.7	94.3	1.2	4.4	0.1	95.5	545
Arunachal Pradesh	65.1	1.5	66.6	2.3	7.7	23.4	68.9	347
Assam	54.6	7.3	61.9	1.1	26.7	10.3	63.0	538
Bihar	35.6	10.5	46.0	4.8	41.9	7.2	50.8	642
Chhattisgarh	30.9	9.6	40.5	10.5	41.6	7.2	51.0	272
Delhi	50.7		78.1	0.0	18.9	3.0	78.1	58
Goa	52.5	27.4 47.5	100.0	0.0	0.0	0.0	100.0	266
Gujarat	35.1	38.1	73.1	9.6	13.1	4.1	82.8	469
-	40.3	19.2	59.5			1.5	66.7	337
Haryana Himachal Pradesh	35.2	11.2	46.4	7.2 3.7	31.8	19.4	50.1	286
Jammu & Kashmir	70.8	5.1	76.0	2.7	16.5	4.9	78.7	321
					52.4			
Jharkhand	15.6	15.0	30.6	8.4		8.6	39.0	371
Karnataka	65.9	17.4	83.3	2.4	6.2	8.1	85.7	466
Kerala Madha Badhada	50.4	49.6	100.0	0.0	0.0	0.0	100.0	500
Madhya Pradesh	71.5	5.9	77.4	2.1	12.7	7.8	79.5	626
Maharashtra	35.5	38.9	74.4	5.6	12.3	7.7	80.0	603
Manipur	46.7	28.9	75.6	2.2	13.2	9.0	77.9	365
Meghalaya	51.6	4.7	56.4	2.0	16.9	24.8	58.3	341
Mizoram	55.9	12.2	68.2	4.2	16.1	11.6	72.4	359
Nagaland	21.1	3.1	24.3	14.1	2.1	59.6	38.4	359
Orissa	64.6	9.8	74.4	4.1	10.5	11.0	78.5	590
Punjab	23.4	30.8	54.1	7.4	38.4	0.0	61.5	314
Rajasthan	56.6	10.9	67.5	4.6	25.1	2.8	72.2	553
Sikkim	65.8	1.1	66.8	1.0	14.4	17.7	67.9	329
Tamil Nadu	75.6	22.5	98.1	0.1	0.0	1.8	98.2	667
Tripura	79.3	0.4	79.7	0.6	11.5	8.2	80.2	360
Uttar Pradesh	43.7	16.2	59.9	1.7	18.3	20.1	61.7	687
Uttarakhand	32.4	12.6	45.0	6.0	32.7	16.3	51.0	294
West Bengal	51.1	12.2	63.3	4.0	27.5	5.2	67.4	518
UTs combined	66.7	19.7	86.4	1.8	9.3	2.5	88.2	466
Total	47.7	20.3	68.0	3.7	19.9	8.4	71.7	12849

^{*} Skilled worker includes Doctor, ANM/Nurse/LHV; Dai is a traditional birth attendant

[#] unweighted cases

States/UT	Institu	utional De	livery	Home De	livery as	sisted by	Skilled birth	Number of
	Public	Private	Total	Skilled	Dai	Others	attendant*	women# (n)
				worker				
Andhra Pradesh	41.6	52.5	94.0	1.9	2.8	1.2	95.9	351
Arunachal Pradesh	62.8	19.9	82.6	0.5	1.7	15.1	83.1	222
Assam	61.5	20.1	81.6	0.7	7.8	9.9	82.3	343
Bihar	34.9	32.5	67.4	6.0	21.3	5.3	73.5	424
Chhattisgarh	27.9	34.6	62.6	15.0	19.2	3.3	77.6	261
Delhi	45.4	38.5	84.0	1.1	11.4	3.6	85.0	531
Goa	39.3	60.4	99.7	0.0	0.3	0.0	99.7	277
Gujarat	32.8	53.6	86.5	2.9	9.6	1.1	89.3	331
Haryana	35.8	36.9	72.7	2.9	23.3	1.1	75.5	302
Himachal Pradesh	61.9	24.4	86.3	0.5	8.9	4.3	86.7	277
Jammu & Kashmir	69.8	25.9	95.7	0.0	1.0	3.3	95.7	301
Jharkhand	23.9	49.4	73.3	3.1	19.7	3.9	76.5	266
Karnataka	57.0	35.4	92.4	1.2	4.6	1.8	93.6	323
Kerala	46.3	53.4	99.7	0.0	0.0	0.3	99.7	332
Madhya Pradesh	70.0	21.3	91.3	1.2	6.6	0.9	92.5	420
Maharashtra	47.2	44.8	92.0	1.1	5.6	1.3	93.0	401
Manipur	55.6	36.6	92.2	4.1	3.6	0.1	96.2	264
Meghalaya	58.0	35.6	93.6	0.0	0.4	6.0	93.6	240
Mizoram	56.6	41.3	97.9	0.0	1.7	0.4	97.9	260
Nagaland	48.8	11.2	60.0	9.6	3.3	27.1	69.6	280
Orissa	47.1	34.8	81.8	0.6	6.5	11.0	82.4	357
Punjab	18.9	53.5	72.4	4.4	21.9	1.3	76.7	269
Rajasthan	51.1	29.0	80.1	7.4	10.6	1.9	87.6	355
Sikkim	78.9	6.4	85.2	0.7	8.0	6.0	85.9	208
Tamil Nadu	46.7	52.0	98.7	0.3	0.2	0.8	99.0	437
Tripura	85.1	11.9	97.0	0.0	0.7	2.3	97.0	240
Uttar Pradesh	29.6	40.5	70.1	3.7	21.1	5.1	73.8	448
Uttarakhand	35.8	42.5	78.3	2.6	14.6	4.5	80.9	286
West Bengal	62.3	23.2	85.5	0.5	11.4	2.6	86.0	320
UTs combined	55.8	36.4	92.1	3.2	3.1	1.5	95.3	809
Total	45.1	40.5	85.6	2.3	9.7	2.4	87.9	10135

^{*} Skilled worker includes Doctor, ANM/Nurse/LHV; *Dai* is a traditional birth attendant # unweighted cases

esponses	Rural	Urban	Total
Node of transport used to reach the health fa			
Ambulance	8.1	3.4	6.5
Jeep/Car	33.1	26.3	30.9
Motorcycle/Scooter	7.5	7.4	7.5
Bus/Train	7.6	4.5	6.6
Tempo/Auto/Tractor	30.2	42.3	34.1
Cart	1.4	1.1	1.3
On foot	4.4	5.7	4.8
Others	7.9	9.3	8.4
Distance to health facility (in Kms.)			
<= 1	11.4	30.0	17.5
2-5	27.8	37.7	31.0
6-10	19.6	9.9	16.5
11-20	16.3	5.6	12.8
20-30	6.9	2.1	5.3
30+	5.7	1.3	4.3
Don't Know/Can't say	12.2	13.4	12.6
Mean distance from house (in Kms.)	11.2	4.9	8.1
ime taken to reach the facility (in minutes)			
<= 30	64.2	85.2	71.0
31-60	24.8	11.1	20.3
61-90	3.6	1.1	2.8
>90	7.4	2.6	5.9
Mean time taken (in minutes) to reach the facility	39.2	24.3	31.8
Cost incurred on transport (Rupees)			
<= 200	40.6	56.2	45.7
201-400	13.2	5.3	10.6
401-600	9.5	4.1	7.7
601-800	2.7	0.7	2.0
801-1000	2.6	1.0	2.1
>1000	1.8	0.9	1.5
No cost paid	20.5	22.0	21.0
Don't know	9.3	9.8	9.5
Mean cost on transport (in rupees)	243	140	192

5.7.5 Duration of Stay after Delivery

All the women who had institutional deliveries were asked how long they stayed in the institution after delivery. Table 5.18 shows that among the women who had normal or assisted delivery, 20.2 and 20.1 percent respectively were discharged after 2 and 3 days and another 14.6

percent after 4 days. Around 81.8 percent of the women who had caesarean delivery stayed for 4 or more days in the health facility. The table further shows that 54.9 percent of the women who had normal or assisted delivery stayed at the health facility for at least 48 hours. The figure rose to 91.9 percent among women who had caesarean delivery.

Table 5.18: Percentage of women who delivered in a health facility according to the duration of stay
after delivery in the health facility

Duration of Stay	Normal/Assisted delivery	Caesarean delivery
< 3 hrs	6.9	1.6
3-5 hrs	7.5	0.9
6-11 hrs	5.9	1.1
12-23 hrs	4.3	0.9
1 day	20.5	3.6
2 days	20.2	3.6
3 days	20.1	6.5
4 + days	14.6	81.8
Stayed for at least 48 hours	54.9	91.9
Number of women who delivered in an institution# (n)	13897	3808

unweighted cases

The analysis of duration of stay in low-performing and high-performing States is presented in Table 5.19. The table indicates that women in low-performing States stayed at the health facility relatively for a longer period as compared to women in high-performing States. For instance,

in low-performing States, 52.9 percent of women with normal delivery/assisted delivery were discharged after 48 hours as compared to 42.6 percent in high-performing States. A similar trend was observed among women who had caesarean delivery.

Duration of Stay	Normal/Assisted delivery	Caesarean delivery
Low-performing States		
< 3 hrs	7.5	2.2
3-5 hrs	7.2	2.4
6-11 hrs	5.3	1.1
12-23 hrs	3.3	2.0
1 day	23.8	9.5
3 days	20.1	6.5
4 + days	14.6	81.8
Stayed for at least 48 hours	54.9	91.9
Number of women who delivered in government institutions (n)	6601	1281
High-performing States		
< 3 hrs	8.0	1.6
3-5 hrs	10.2	1.0
6-11 hrs	9.5	3.5
12-23 hrs	5.4	1.4
1 day	22.5	1.3
2 days	19.3	8.1
3 days	18.8	5.2
4 + days	6.3	77.9
Stayed for at least 48 hours	42.6	21.2
Number of women who delivered in government institutions# (n)	3377	456

Distinction between low and high performing states is as per JSY scheme.

5.7.6 Length of Stay according to Background Characteristics

The length of the stay at a health facility after normal/assisted delivery was further analysed according to selected background characteristics of the women. Table 5.20 shows that 54.9 percent of women were discharged after 48 hours of delivery. Younger women below 35 years of age stayed longer at the health facility as compared to women aged 35 or more years. Urban women were more likely to stay longer at a health facility than rural women (Table 5.20). Further, higher percentage of women from households with the highest wealth

quintile (62.7 percent) stayed for 48 hours or more as compared to those households with the lowest wealth quintile (40.3 percent).

There were State differentials in the duration of stay at the health facility. At all India level, 54.9 percent women who had normal or assisted delivery stayed at the health facility for at least 48 hours. In 17 States, the percentage of women who stayed at the health facility for at least 48 hours was less than the national average. The percentage of such women was very low in the States of Bihar (15.3 percent), Haryana (29.2 percent), Nagaland (21.1 percent) and Orissa (28.3 percent).

after delivery in the health facility ac Background Characteristics	Stayed for at	No. of women delivered in institution
background Characteristics	least 48 hours	(normal or assisted delivery)#
Mother's Age (in Years)		
15-19	51.3	745
20-24	59.1	5556
25-34	52.7	7045
35-44	35.1	533
45+	38.6	18
Residence	·	
Rural	50.7	7447
Urban	65.0	6450
Mother's Education		
No education	54.7	10381
<5 years complete	50.6	1586
5-7 years complete	67.7	223
8-9 years complete	66.3	1466
10-11 years complete	77.0	241
12 or more years complete	54.9	13897
Religious group	·	
Hinduism	49.5	2173
Islamism	52.8	5060
Sikhism	60.0	4159
Christianity	54.9	13897
Other religious group	39.3	2691
Social group		
Scheduled Caste	56.7	2240
Scheduled Tribe	56.4	2563
Other backward Classes	68.8	2640
Others	66.1	3039
BPL status		
Have BPL card	52.4	4201
Don't have BPL card	56.4	9696
Wealth Index		
Lowest	40.3	2290
Second	53.1	2723
Middle	63.9	2891
Fourth	65.3	3037
Highest	62.7	2956
Total	54.9	13897

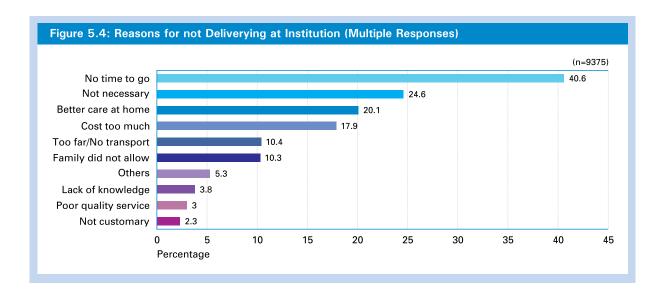
Table 5.21: Perce according to the										assisted delivery
States/UT	<3	3-5 hrs	6-11 hrs	12-23 hrs	1 day	2 day	3 days	4+ days	Stayed for at least 48 hours	No. of women delivered in institution (normal or assisted delivery)#
Andhra Pradesh	4.2	4.4	2.5	2.5	24.1	14.9	22.4	25.0	62.3	530
Arunachal Pradesh	11.5	6.5	12.1	4.8	32.2	22.7	8.2	2.1	33	391
Assam	3.6	6.7	10.9	6.6	26.5	26.6	13.2	5.8	45.6	494
Bihar	13.6	13.8	21.7	10.6	24.9	6.9	3.8	4.6	15.3	545
Chhattisgarh	12.0	13.2	0.9	0.0	24.3	26.0	13.8	9.8	49.6	227
Delhi	8.0	5.9	5.8	1.9	24.6	30.4	13.1	10.3	53.8	425
Goa	0.4	0.0	0.0	0.0	1.0	11.7	22.0	64.9	98.6	418
Gujarat	3.5	3.6	0.9	2.9	22.6	45.3	13.1	8.2	66.6	537
Haryana	20.1	17.6	10.4	1.1	21.5	15.7	5.7	7.8	29.2	350
Himachal Pradesh	1.1	0.0	0.4	1.0	25.9	40.3	18.3	13.0	71.6	273
Jammu & Kashmir	5.6	12.3	7.3	4.4	34.1	24.2	5.0	7.0	36.2	289
Jharkhand	2.5	9.7	17.3	8.6	24.1	20.0	12.2	5.6	37.8	237
Karnataka	7.0	4.3	3.2	4.2	22.9	19.8	23.1	15.5	58.4	536
Kerala	0.3	0.2	0.0	2.1	1.8	8.4	19.8	67.5	95.7	549
Madhya Pradesh	2.9	1.7	0.7	1.4	17.8	23.1	45.7	6.8	75.6	750
Maharashtra	2.2	4.7	1.0	2.2	17.2	31.2	25.8	15.8	72.8	632
Manipur	3.0	4.7	9.2	4.6	25.0	34.5	13.1	5.9	53.5	416
Meghalaya	2.3	2.3	6.6	8.1	24.3	19.6	22.2	14.6	56.4	361
Mizoram	8.4	6.3	7.8	3.9	26.7	14.4	13.9	18.6	46.9	468
Nagaland	19.8	15.3	2.6	4.0	37.2	10.9	6.6	3.6	21.1	222
Orissa	11.1	16.9	12.4	3.6	27.6	11.9	8.2	8.2	28.3	628
Punjab	1.3	3.7	8.0	6.4	24.1	32.1	16.2	8.2	56.5	257
Rajasthan	6.3	6.9	5.9	6.7	23.8	28.3	16.7	5.3	50.3	627
Sikkim	4.1	2.7	2.3	1.6	44.9	28.7	8.2	7.6	44.5	351
Tamil Nadu	3.3	0.6	0.2	0.7	9.0	14.0	40.4	31.8	86.2	787
Tripura	0.7	1.0	0.9	0.7	21.9	29.2	24.0	21.5	74.7	379
Uttar Pradesh	14.9	18.4	11.1	8.3	16.4	9.3	13.1	8.4	30.8	589
Uttarakhand	5.4	6.6	7.1	1.0	22.4	29.7	19.2	8.6	57.5	300
West Bengal	4.6	1.2	4.2	3.1	33.2	22.7	16.6	14.4	53.7	416
UTs combined	4.0	2.0	1.6	0.7	19.6	26.1	22.5	23.5	72.1	913
Total	6.9	7.5	5.9	4.3	20.5	20.2	20.1	14.6	54.9	13897

5.8 REASONS FOR NOT GOING TO HEALTH INSTITUTION FOR DELIVERY

Women who delivered at home were asked the reasons for not delivering their baby at some institution. Table 5.22 shows that the main reasons given by such women were 'no time to go' (40.6 percent), 'it was not necessary' (24.6 percent), 'better care at home' (20.1 percent) and 'costs too much' (17.9 percent). The 'family did not allow' was reported by another 10.3 percent of the

women. These data didn't vary much according to the background characteristics of the women.

Although the pattern of responses of the reasons for not delivering in an institution was the same across the States, there were certain trends. Table 5.23 shows that 'no time to go' was the main reason reported by 74.0 percent of the women in Madhya Pradesh, 68.9 percent in Maharashtra and 77.9 percent in Sikkim. Further, more than half of the women in Arunachal Pradesh and Meghalaya did not feel the necessity of delivering the baby in an institution (Table 5.23a).



Background Cost Poor	Cost	Poor	Too far/No No time Not	No time	Not	Not	Better	Family	Lack of	Others	Number of
Characteristics	too much	quality service	transport	to go	necessary	customary	care at home	did not allow	knowledge		women#
Mother's Age (in Years)											
15-19	18.7	3.3	7.7	34.6	28.2	3.5	17.1	16.2	4.6	6.3	278
20-24	17.2	2.8	11.0	44.6	22.1	1.6	18.7	10.9	4.1	5.9	1893
25-34	17.5	2.9	10.2	39.1	25.8	2.5	21.9	9.8	3.4	4.5	2751
35-44	25.0	4.6	9.4	35.3	25.8	4.3	16.2	7.4	5.2	9.7	347
45+	*	*	*	*	*	*	*	*	*	*	*01
Residence											
Rural	18.1	2.9	11.6	40.7	25.1	2.4	19.7	10.4	3.8	5.3	3857
Urban	16.9	3.4	3.7	40.2	21.6	1.8	22.4	10.0	4.0	5.1	1422
Mother's Education											
No education	22.5	3.2	13.0	37.9	25.3	3.2	20.0	9.6	5.1	5.2	2440
<5 years complete	14.4	3.3	10.6	45.8	24.5	1.1	15.4	14.1	5.2	5.6	366
5-7 years complete	11.9	3.2	7.4	40.4	25.4	1.0	18.7	12.8	1.8	5.0	941
8-9 years complete	11.8	1.6	5.9	47.0	19.9	1.4	23.3	11.1	6.	3.9	762
10-11 years complete	7.3	3.3	4.8	46.2	24.2	0.3	21.8	7.3	1.2	8.9	476
12 or more years complete	9.4	1.5	2.9	50.1	23.3	0.7	24.0	5.4	6.0	5.4	294
Religious Group											
Hinduism	16.7	3.0	11.3	43.3	22.5	2.4	20.5	9.7	4.3	5.7	3481
Islam	23.1	3.4	6.4	31.6	30.0	2.1	17.0	14.6	2.5	4.8	798
Sikhism	15.8	1.0	2.0	34.5	51.9	0.0	26.0	2.7	1.4	1.3	91
Christianity	12.9	3.1	19.7	35.1	24.8	3.5	26.0	3.1	5.6	1.8	773
Other religious groups	14.6	0.1	17.8	46.0	29.9	0.0	31.8	1.8	.5	0.1	136
Social Group											
Scheduled Caste	19.4	2.9	0.6	39.0	25.2	2.6	18.8	7.5	4.0	5.4	1070
Scheduled Tribe	14.8	5.5	15.3	43.2	25.1	1.4	19.8	9.2	6.3	6.1	1418
Other Backward Classes	19.8	2.5	11.7	41.4	23.9	2.3	21.0	12.0	3.6	5.3	1601
Others	15.0	2.7	7.5	39.8	24.9	2.3	20.0	11.1	2.9	4.9	1190
BPL status											
Have BPL card	19.5	3.6	12.1	40.7	20.0	2.2	18.5	11.2	4.5	5.9	1895
Don't have BPL card	16.9	2.6	9.4	40.6	27.4	2.3	21.0	9.8	3.4	4.9	3384
Wealth Index											
Lowest	21.4	2.9	14.4	38.2	24.0	2.9	17.6	11.5	4.7	5.8	2043
Second	16.0	3.4	7.1	37.3	25.9	2.0	18.7	10.0	3.5	5.9	1319
Middle	9.6	2.7	7.2	44.4	29.2	1.4	26.2	9.9	3.6	4.4	966
Fourth	19.6	3.2	3.4	48.7	22.1	1.2	21.7	7.3	1.1	4.2	571
Highest	7.4	3.5	1.1	57.7	18.6	0.9	33.7	13.5	0.7	1.9	350
Total	17.9	3.0	10.4	40.6	24.6	2.3	20.1	10.3	3.8	5.3	5279
Base = All women who did not deliver their baby in an institution;	ot deliver	their baby in	n an institution,								
* base less than 25 Total may not add to 100 percent due to multiple responses	cent due to	o multiple re	sesuodse								
# unweighted cases											

Changepound Cot poor No. fine No. fine Mont Beate ground Face Poor Author Change place Resolution Control Change place Resolution Resolution Change place Resolution Reso	baby in an institution by States/UT – Total (Multiple responses)	by State	es/UT – To	tal (Multiple	responses							
repretesh 43.9 10.9 1.1 33.2 0.0 0.0 9.3 2.2 0.0 24.7 sachal Pradesh 10.0 1.8 1.1 3.6 5.7 0.0 9.5 5.8 7.8 7.8 7.8 m 4.0 1.1 3.6 3.0 9.9 0.7 16.4 4.5 7.8 7.2 m 4.3 3.2 2.1 3.6 3.5 1.9 0.7 1.6 4.5 7.4 7.7 1.8 7.7 1.8 7.7 1.1 3.6 1.0 0.0	Background Characteristics	Cost too much	Poor quality service	Too far/No transport	No time to go	Not necessary	Not customary	Better care at home	Family did not allow	Lack of knowledge	Others	Number of women
titisgarth 100 18 137 206 537 055 86 66 78 72 22 24 2 3 2 2 18 35 19 29 0.7 164 748 238 15 5 5 5 5 5 11 6 2.1 36.3 35.1 14.3 35.1 218 35.1 14.3 35.1 16.5 3 35.3 31.4 30.3 32.3 32.4 32.4 32.4 32.4 32.4 32.4 32	Andhra Pradesh	43.9	10.9	1.1	33.2	0.0	0.0	9.3	2.2	0.0	24.7	53
mm 116 2.1 3.6 30.9 18.9 0.7 16.4 22.8 1.5 5.5 titiggarth 3.3 1.1 3.5 1.2 2.2 4.7 21.6 1.6 4.5 1.7 titigarth 3.3 1.1 2.2 3.8 1.6 2.3 1.7 2.1 1.7 1.6 1.7 1.2	Arunachal Pradesh	10.0	1.8	13.7	20.6	53.7	0.5	8.6	9.9	7.8	2.2	156
Histogarth (a) 243 3.2 2.18 38.1 22.9 4.7 21.5 16.6 4.5 74 (115) (Assam	11.6	2.1	3.6	30.9	19.9	0.7	16.4	23.8	1.5	5.5	247
ttisgarth 33 1.1 6.7 39.2 43 0.1 43.8 12.0 11.9 11.9 17. 20.5 5.9 5.2 39.6 16.8 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Bihar	24.3	3.2	21.8	35.1	22.9	4.7	21.5	16.6	4.5	7.4	441
table for the first series of the series of	Chhattisgarh	3.3	1.1	6.7	39.2	4.3	0.1	43.8	12.0	11.9	1.7	249
rate 0.0 <td>Delhi</td> <td>20.5</td> <td>5.9</td> <td>5.2</td> <td>39.6</td> <td>16.8</td> <td>2.1</td> <td>19.3</td> <td>17.0</td> <td>8.8</td> <td>1.1</td> <td>92</td>	Delhi	20.5	5.9	5.2	39.6	16.8	2.1	19.3	17.0	8.8	1.1	92
and Residual Label 7.1 4.0 0.4 55.9 31.4 0.9 9.3 13.0 7.7 9.1 and a label 5.5 2.6 1.8 57.8 11.1 33.2 7.5 2.5 3.8 and Reashmir 1.5 2.6 1.8 4.0 0.7 4.0 0.7 5.4 4.0 0.7 4.0 thand and a label 1.1.1 3.1.4 4.0 0.7 3.4 0.0 <th< td=""><td>Goa</td><td>0.0</td><td>0.0</td><td>0.0</td><td>*</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>*-</td></th<>	Goa	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	0.0	*-
anne 15.9 2.6 1.8 57.8 19.8 1.1 33.2 7.5 2.5 2.7 8 chale Pradesh 11.8 2.3 11.1 31.4 40.6 0.7 9.2 5.2 2.1 3.0 chand 2.5 11.1 31.4 40.6 0.7 0.7 6.7 5.4 5.4 5.2 2.1 3.0 thand 2.5.4 4.4 2.3 30.9 34.7 0.2 6.4 5.4 4.0 1.2 6.4 4.0 6.0 0.0 <td>Gujarat</td> <td>7.1</td> <td>4.0</td> <td>0.4</td> <td>25.9</td> <td>31.4</td> <td>6.0</td> <td>9.3</td> <td>13.0</td> <td>7.7</td> <td>9.1</td> <td>158</td>	Gujarat	7.1	4.0	0.4	25.9	31.4	6.0	9.3	13.0	7.7	9.1	158
the Predesh 11.8 2.3 11.1 31.4 40.6 0.7 9.2 5.2 5.1 3.0 7.1 3.0 F.	Haryana	15.9	2.6	1.8	57.8	19.8	1.1	33.2	7.5	2.5	ω.	201
thand & Kashmir 276 13.1 16.5 26.8 31.5 0.1 20.4 5.4 13.6 2.2 13.0 thand & Kashmir 25.4 4.4 23.2 30.9 34.7 0.2 33.2 13.1 4.0 4.0 4.0 thand ataka 31.4 0.0 0.7 47.6 7.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Himachal Pradesh	11.8	2.3	11.1	31.4	40.6	0.7	9.2	5.2	2.1	3.0	197
thand 254 4.4 23.2 30.9 34.7 0.2 33.2 13.1 4.0 4.0 4.0 tatked 314 6.0 0.0 0.0 0.7 47.6 7.3 0.0 12.8 2.4 13.1 4.0 4.0 10.1 1.2 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Jammu & Kashmir	27.6	13.1	16.5	26.8	31.5	0.1	20.4	5.4	13.6	2.2	98
atake 31.4 0.0 0.7 47.6 7.3 0.0 12.8 2.4 4.8 11.2 alae 100.0 0.0	Jharkhand	25.4	4.4	23.2	30.9	34.7	0.2	33.2	13.1	4.0	4.0	325
layer predesh 4.1 2.9 0.0 <	Karnataka	31.4	0.0	0.7	47.6	7.3	0.0	12.8	2.4	4.8	11.2	84
yya Pradesh 4.1 2.9 7.0 74,0 9.6 1.6 9.4 4.9 2.6 6.5 srasshtra 7.6 3.6 17.2 68.9 20.0 1.4 8.8 16.7 6.7 5.6 pur 33.1 3.1 15.3 24.8 17.0 4.8 16.7 2.8 8.6 5.6 palaya 16.6 8.8 16.1 27.9 54.2 10.6 6.8 1.6 5.6 5.6 ram 16.6 8.8 16.1 27.9 54.2 10.6 6.8 1.6 1.9 1.6 5.6 land 19.1 12.5 25.2 17.7 8.5 0.0 1.6 1.9	Kerala	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
pur 33.1 3.6 17.2 68.9 20.0 1.4 8.8 16.7 6.7 2.6 pur 33.1 3.1 15.3 24.8 17.0 4.8 21.7 2.8 8.6 5.6 5.6 pur 33.1 3.1 15.3 24.8 17.0 4.8 21.7 2.8 8.6 5.6 5.6 5.6 pad 16.6 8.8 16.1 27.2 26.2 10.6 6.8 1.6 16.0 2.2 2.2 land 19.1 12.5 25.2 17.7 8.5 0.0 8.0 10.4 17.4 19.4 19.4 19.4 19.4 17.4 <	Madhya Pradesh	4.1	2.9	7.0	74.0	9.6	1.6	9.4	4.9	2.6	6.5	194
pur 33.1 3.1 15.3 24.8 17.0 4.8 21.7 2.8 8.6 5.6 9.6 nalayae 16.6 8.8 16.1 27.9 54.2 10.6 6.8 1.6 16.0 2.2 ram 19.1 12.5 25.2 17.7 8.5 0.0 8.0 1.6 4.4 19.4 19.4 land 23.1 2.8 8.1 16.2 31.0 1.1 36.6 0.6 4.4 1.7 19.4 </td <td>Maharashtra</td> <td>7.6</td> <td>3.6</td> <td>17.2</td> <td>68.9</td> <td>20.0</td> <td>1.4</td> <td>8.8</td> <td>16.7</td> <td>6.7</td> <td>2.6</td> <td>185</td>	Maharashtra	7.6	3.6	17.2	68.9	20.0	1.4	8.8	16.7	6.7	2.6	185
rathaya 16.6 8.8 16.1 27.9 54.2 10.6 6.8 1.6 16.0 22.2 17.7 8.5 10.6 6.8 1.6 16.0 16.0 16.0 16.0 16.0 16.0 16.0 17.4 18.4 18.0 16.0 17.4 18.4 18.0 17.4 18.4 17.9 17.9 17.7 18.4 18.0 17.9 17.7 18.4 18.7 18.4 18.7 18.4 17.7 18.4 18.7 18.4 18.7 18	Manipur	33.1	3.1	15.3	24.8	17.0	4.8	21.7	2.8	8.6	5.6	119
ram 19.1 12.5 25.2 17.7 8.5 0.0 8.0 10.9 7.4 19.4 llandd 23.1 2.8 8.1 16.2 31.0 1.1 36.6 0.6 4.4 1.7 ab 12.8 2.0 17.6 57.8 26.8 0.2 1.5 1.9 3.0 0.7 abb 12.8 2.0 17.6 57.8 26.8 3.1 1.8 3.0 0.8 0.7 1.9 3.0 0.7 1.9 3.0 0.7 1.9 0.0 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.0	Meghalaya	16.6	8.8	16.1	27.9	54.2	10.6	8.9	1.6	16.0	2.2	176
land 23.1 2.8 8.1 16.2 31.0 1.1 36.6 0.6 4.4 1.7 7.8 aa 12.8 2.0 17.6 57.8 26.8 0.2 1.5 1.9 3.0 0.7 ab 9.4 0.4 0.8 42.5 38.9 3.1 18.4 5.9 0.8 0.7 0.8 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.0 0	Mizoram	19.1	12.5	25.2	17.7	8.5	0.0	8.0	10.9	7.4	19.4	106
ab 12.8 2.0 17.6 57.8 26.8 0.2 1.5 1.9 3.0 0.7 ab 9.4 0.4 0.8 42.5 38.9 3.1 18.4 5.9 0.8 0.7 sthan 13.8 4.8 9.8 41.6 28.8 5.7 15.0 6.4 10.4 5.7 m 8.0 3.2 31.7 77.9 2.4 0.1 3.6 1.7 10.4 5.7 1.8 I Nadu 18.7 0.0 0.0 6.1 2.5 0.0 <t< td=""><td>Nagaland</td><td>23.1</td><td>2.8</td><td>8.1</td><td>16.2</td><td>31.0</td><td>1.1</td><td>36.6</td><td>9.0</td><td>4.4</td><td>1.7</td><td>381</td></t<>	Nagaland	23.1	2.8	8.1	16.2	31.0	1.1	36.6	9.0	4.4	1.7	381
ab than 9.4 0.4 0.8 42.5 38.9 3.1 18.4 5.9 0.8 0.7 sthan 13.8 4.8 9.8 41.6 28.8 5.7 15.0 6.4 10.4 5.7 7.9 m 8.0 3.2 31.7 77.9 2.4 0.1 3.6 1.7 1.9 0.3 0.3 I Nadu 18.7 0.0 0.0 6.1 2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 72.7 1.9 0.3 72.7 1.2 1.2 0.0	Orissa	12.8	2.0	17.6	57.8	26.8	0.2	1.5	1.9	3.0	0.7	202
sthan 13.8 4.8 9.8 41.6 28.8 5.7 15.0 6.4 10.4 5.7 7.9 m 8.0 3.2 31.7 77.9 2.4 0.1 3.6 1.7 1.9 0.3 0.3 I Nadu 18.7 0.0 0.0 0.0 0.0 0.0 0.0 72.7 72.7 radesh 20.6 2.9 21.7 27.6 7.0 22.2 28.4 0.1 0.0 72.7 Pradesh 20.6 2.9 5.4 39.5 28.3 1.1 26.8 9.0 0.8 3.7 3.6 Bengal 2.7 2.9 31.3 35.1 5.0 10.6 4.8 0.1 3.7 3.6 combined 2.5 4.2 2.7 5.0 10.6 4.8 0.8 5.9 1.8 1.8 1.8 combined 2.5 4.2 2.5 2.4 0.7 0.9 0.8	Punjab	9.4	0.4	9.0	42.5	38.9	3.1	18.4	5.9	8.0	0.7	189
m 8.0 3.2 31.7 77.9 2.4 0.1 3.6 1.7 1.9 0.3 I Nadu 18.7 0.0 0.0 0.0 0.0 0.0 0.0 72.7 ra 3.1 0.1 3.9 21.7 27.6 7.0 22.2 28.4 0.1 0.0 72.7 Pradesh 20.6 2.9 5.4 39.5 28.3 1.1 26.8 9.0 0.8 3.7 8.6 Bengal 2.7 6.9 29.4 27.5 5.0 10.6 4.8 0.8 5.9 8.6 combined 25.6 4.2 1.7 25.1 39.3 0.0 0.9 2.5 1.3 1.8 1.8 combined 25.6 4.2 26.7 26.6 0.9 0.9 0.8 5.9 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1	Rajasthan	13.8	4.8	8.6	41.6	28.8	5.7	15.0	6.4	10.4	5.7	210
I Nadu 18.7 0.0 0.0 0.0 0.0 0.0 0.0 72.7 ra 3.1 0.1 3.9 21.7 27.6 7.0 22.2 28.4 0.1 0.0 72.7 Pradesh 20.6 2.9 5.4 39.5 28.3 1.1 26.8 9.0 0.8 3.7 0.0 akhand 17.8 5.3 29.5 31.3 35.1 5.0 34.2 15.4 3.7 3.6 Bengal 22.7 0.9 6.9 29.4 27.5 5.0 10.6 4.8 0.8 5.9 combined 25.6 4.2 1.7 25.1 39.3 0.0 0.9 2.5 1.3 1.8 1.8 rowbined 17.9 3.0 10.4 40.6 24.6 2.3 20.1 10.3 3.8 5.3	Sikkim	8.0	3.2	31.7	77.9	2.4	0.1	3.6	1.7	1.9	0.3	122
ra 3.1 0.1 3.9 21.7 27.6 7.0 22.2 28.4 0.1 0.0 Pradesh 20.6 2.9 5.4 39.5 28.3 1.1 26.8 9.0 0.8 3.7 akhand 17.8 5.3 29.5 31.3 35.1 5.0 16.4 3.7 3.6 3.6 Bengal 22.7 0.9 6.9 29.4 27.5 5.0 10.6 4.8 0.8 5.9 combined 25.6 4.2 1.7 25.1 39.3 0.0 0.9 2.5 1.3 1.8 1.8 7.9 3.0 10.4 40.6 24.6 2.3 20.1 10.3 3.8 5.3 9.3	Tamil Nadu	18.7	0.0	0.0	6.1	2.5	0.0	0.0	0.0	0.0	72.7	24
Pradesh 20.6 2.9 5.4 39.5 28.3 1.1 26.8 9.0 0.8 3.7 7 akhand 17.8 5.3 29.5 31.3 35.1 5.0 15.4 3.7 3.6 3.6 Bengal 22.7 0.9 6.9 29.4 27.5 5.0 10.6 4.8 0.8 5.9 5.9 combined 25.6 4.2 1.7 25.1 39.3 0.0 0.9 2.5 1.3 1.8 1.8 7.3 3.6 3.0 10.4 40.6 24.6 2.3 20.1 10.3 3.8 5.3 9	Tripura	3.1	0.1	3.9	21.7	27.6	7.0	22.2	28.4	0.1	0.0	87
akhand 17.8 5.3 29.5 31.3 35.1 5.0 34.2 15.4 3.7 3.6 3.6 Bengal 22.7 0.9 6.9 29.4 27.5 5.0 10.6 4.8 0.8 5.9 5.9 combined 25.6 4.2 1.7 25.1 39.3 0.0 0.9 2.5 1.3 1.8 1.8 7 7.9 3.0 10.4 40.6 24.6 2.3 20.1 10.3 3.8 5.3 9	Uttar Pradesh	20.6	2.9	5.4	39.5	28.3	1.1	26.8	9.0	0.8	3.7	445
Bengal 22.7 0.9 6.9 29.4 27.5 5.0 10.6 4.8 0.8 5.9 5.9 combined 25.6 4.2 1.7 25.1 39.3 0.0 0.9 2.5 1.3 1.8 1.8 7.3 3.0 10.4 40.6 24.6 2.3 20.1 10.3 3.8 5.3	Uttarakhand	17.8	5.3	29.5	31.3	35.1	5.0	34.2	15.4	3.7	3.6	208
combined 25.6 4.2 1.7 25.1 39.3 0.0 0.9 2.5 1.3 1.8 17.9 3.0 10.4 40.6 24.6 2.3 20.1 10.3 3.8 5.3	West Bengal	22.7	6.0	6.9	29.4	27.5	5.0	10.6	4.8	0.8	5.9	219
17.9 3.0 10.4 40.6 24.6 2.3 20.1 10.3 3.8 5.3	UTs combined	25.6	4.2	1.7	25.1	39.3	0.0	0.9	2.5	1.3	1.8	121
	Total	17.9	3.0	10.4	40.6	24.6	2.3	20.1	10.3	3.8	5.3	5279

Base= All women who did not deliver their baby in an institution * base less than 25
Total may not add to 100 percent due to multiple responses # unweighted cases

5.9 COMPLICATIONS DURING DELIVERY

Women who delivered during 12 months preceding the survey were asked about complications faced by them during the delivery. Table 5.24 shows that 59.6 percent of the women reported at least one delivery-related complication. Rural women faced slightly higher percentage of delivery complications (61.1 percent) than urban women (55.9 percent). The complications faced by women were primarily - obstructed labour (34.9 percent), premature labour (29.6 percent) and prolonged labour (21.1 percent). The other problems reported relatively by a moderate proportion of women were excessive bleeding (9.8 percent), breech presentation (6.2 percent) and convulsions (4.1 percent). There were no major differences in the complications faced by rural and urban women.

Table 5.24: Percentage of women who delivered during 12 months preceding the survey according	to
type of perceived complications during deliver	

Complications	Rural	Urban	Total
Premature labour	30.6	27.1	29.6
Excessive bleeding	9.9	9.4	9.8
Prolonged labour	21.7	19.5	21.1
Obstructed labour	36.9	29.9	34.9
Breach presentation	5.8	7.1	6.2
Convulsions	4.5	3.1	4.1
High BP	5.8	7.6	6.3
Others	3.2	3.8	3.4
Faced at least one complication	61.1	55.9	59.6
Number of women# (n)	12849	10135	22984
Number of women# (n)	12849	10135	22984

Base = all recently delivered women # unweighted cases

5.10 LEVEL OF AWARENESS AND UTILIZATION OF JSY SCHEME AND RECEIPT OF MATERNAL AND CHILD HEALTH (MCH) CARD

Janani Suraksha Yojana (JSY) is one of the important programmes under the overall umbrella of NRHM. The main objective of JSY is to reduce maternal mortality ratio and infant mortality rate. To achieve this, cash assistance is given to the pregnant woman to enable her to make all the required antenatal care visits, and avail of institutional care during delivery and immediate post-partum period in a health centre. A system of coordinated care by field level health worker namely ASHA/AWW and ANM has been established. To understand the current status of JSY, all respondents were asked whether they had ever heard about Janani Suraksha Yojana and cash assistance under JSY scheme. Information

collected was analysed according to background characteristics of the women. Table 5.25 shows that 60 percent of the women were aware of JSY scheme. There was no significant difference in the awareness of the scheme among rural and urban women and illiterate and educated women. Awareness of the JSY scheme was better among women from BPL families (64.3 percent) than above poverty line (APL) families (57.5 percent). The table further shows that scheduled caste and scheduled tribe women had better awareness of the scheme than OBC and general caste women (Table 5.25).

On registration of pregnancy with health facility or health functionary, a woman receives an MCH card. The women were asked if they had received the MCH card during the last pregnancy. Around 73.9 percent of the women reportedly received the MCH card. Further analysis according to background characteristics of the women did not show any significant differentials.

Background Characteristics	Percentage aware	Percentage who	Number of women #
Made outs and the Venne	of JSY scheme	received MCH Card	women #
Mother's age (in Years)	50.0	77.0	4405
15-19	59.8	77.3	1165
20-24	62.8	75.2	8835
25-34	58.6	73.0	11910
35-44	45.7	64.2	1043
45+	67.8	60.6	31
Residence			
Rural	60.8	75.2	12849
Urban	57.9	70.4	10135
Mother's education			
No education	55.0	69.7	5525
<5 years completed	65.4	79.9	1208
5-7 years completed	63.4	76.5	3631
8-9 years completed	63.6	77.7	3914
10-11 years completed	60.7	76.8	3959
12 or more years completed	61.6	71.6	4747
Religious group			
Hinduism	62.2	75.1	16651
Islam	48.9	67.0	3001
Sikhism	58.9	89.1	397
Christianity	53.8	63.6	2512
Other religious group	64.1	79.6	423
Social group			
Scheduled caste	64.4	78.3	4167
Scheduled tribe	64.1	68.6	3900
Other backward classes	58.6	73.7	8080
Others	57.5	71.8	6837
BPL status			
Have BPL card	64.3	75.3	7132
Don't have BPL card	57.5	73.0	15852
Wealth Index			
Lowest	58.8	71.0	4597
Second	65.0	77.8	4596
Middle	58.9	77.4	4603
Fourth	60.1	73.3	4591
Highest	56.5	70.9	4597
Total	60.0	73.9	22984

5.10.1 Level of Awareness of JSY Scheme and Receipt of JSY Card according to States/UT

The level of awareness of the JSY scheme varies across States. Under the programme, more focus is given to some States where maternal and infant mortality is high. Therefore, for analysis, States and Union Territories have been grouped in low-performing States (LPS) and high-performing States (HPS) as per the JSY guidelines¹¹ issued by the Government of India. In LPS, all pregnant women delivering in the government and accredited private health institutions receive cash assistance from Government. On the other hand, in HPS only women belonging to BPL/SC/ST category (limited to 2 live births) are provided cash assistance for similar institutional deliveries.

Table 5.26a shows that awareness was somewhat similar among women from high-performing States (61.1 percent) when compared to low-performing States (58.9 percent). Among the low-performing States, the awareness was lower in Jammu & Kashmir (37.9 percent), Uttar Pradesh

(25.8 percent) and Uttarakhand (31.6 percent). On the other hand, among the high-performing States awareness was low in the States of Goa (19.7 percent), Himachal Pradesh (28.0 percent), Gujarat (48.7 percent), Kerala (46.2 percent), Meghalaya (37.1 percent), Nagaland (35.8 percent), and all UTs combined (41.1 percent).

With regard to the receipt of the MCH card, about 76.0 percent of the women in high-performing States and 71.6 percent in low-performing States had received the MCH card. Among low-performing States the receipt of the MCH card was reportedly low in Orissa (31.2 percent) and among high-performing States in Nagaland (13.7 percent) (Table 5.26a).

The level of awareness of JSY scheme and receipt of MCH card data was further analysed separately for rural and urban areas. Tables 5.26b and 5.26c indicate that both awareness of JSY scheme and receipt of MCH card was higher in rural than in urban areas. Similar results were found in many States among both low-performing and high-performing States.

States/UTs	Percentage aware	Percentage who	Number of
	of JSY scheme	received MCH Card	women #
Low-Performing States	·		
Assam	68.0	83.1	881
Bihar	74.0	76.3	1066
Chhattisgarh	55.2	94.0	533
Jammu & Kashmir	37.9	57.4	622
Jharkhand	83.3	77.0	637
Madhya Pradesh	81.3	78.6	1046
Orissa	87.6	31.2	947
Rajasthan	84.8	75.7	908
Uttar Pradesh	25.8	70.5	1135
Uttarakhand	31.6	53.9	580
Total	58.9	71.6	8355
High-Performing States			
Andhra Pradesh	60.7	69.7	896
Arunachal Pradesh	51.5	65.2	569
Delhi	62.4	70.2	589
Goa	19.7	56.2	543
Gujarat	48.7	72.1	800
Haryana	64.8	72.0	639
Himachal Pradesh	28.0	87.8	563
Karnataka	76.9	82.6	789
Kerala	46.2	60.4	832
Maharashtra	52.1	62.4	1004
Manipur	53.5	55.6	629
Meghalaya	37.1	53.5	581
Mizoram	73.5	87.8	619
Nagaland	35.8	13.7	639
Punjab	59.0	92.2	583
Sikkim	56.4	77.3	537
Tamil Nadu	64.3	93.4	1104
Tripura	55.6	87.3	600
West Bengal	78.0	87.8	838
UTs Combined	41.1	82.5	1275
Total	61.1	76.0	14629

States/UTs	Percentage aware	Percentage who	Number of
	of JSY scheme	received MCH Card	women #
Low-Performing States			
Assam	67.3	84.6	538
Bihar	74.9	77.2	642
Chhattisgarh	53.8	94.0	272
Jammu & Kashmir	43.7	62.5	321
Jharkhand	84.5	80.8	371
Madhya Pradesh	82.0	79.0	626
Orissa	88.7	32.2	590
Rajasthan	84.3	77.6	553
Uttar Pradesh	24.2	72.1	687
Uttarakhand	33.7	59.2	294
Total	59.0	73.0	4894
High-Performing States			
Andhra Pradesh	62.5	73.3	545
Arunachal Pradesh	47.2	62.1	347
Delhi	55.9	76.7	58
Goa	19.7	51.5	266
Gujarat	51.9	77.3	469
Haryana	64.9	76.0	337
Himachal Pradesh	27.5	87.6	286
Karnataka	84.1	85.1	466
Kerala	48.7	57.7	500
Maharashtra	50.5	60.1	603
Manipur	46.3	49.5	365
Meghalaya	39.9	57.5	341
Mizoram	70.7	87.4	359
Nagaland	34.3	13.3	359
Punjab	58.9	92.0	314
Sikkim	58.7	81.7	329
Tamil Nadu	62.3	95.8	667
Tripura	55.0	90.6	360
West Bengal	82.3	90.7	518
UT COMBINED	41.4	90.5	466
Total	62.9	77.8	7955

States/UTs	Percentage aware	Percentage who	Number of
	of JSY scheme	received MCH Card	women #
Low-Performing States			
Assam	72.4	72.7	343
Bihar	65.7	68.6	424
Chhattisgarh	60.8	94.0	261
Jammu & Kashmir	20.2	42.1	301
Jharkhand	79.3	63.8	266
Madhya Pradesh	79.3	77.4	420
Orissa	81.0	25.2	357
Rajasthan	86.5	69.4	355
Uttar Pradesh	31.7	64.2	448
Uttarakhand	25.4	38.3	286
Total	58.3	65.6	3461
High-Performing States			
Andhra Pradesh	55.9	60.2	351
Arunachal Pradesh	67.9	77.0	222
Delhi	62.9	69.8	531
Goa	19.7	61.0	277
Gujarat	43.3	63.4	331
Haryana	64.5	62.2	302
Himachal Pradesh	32.1	89.2	277
Karnataka	63.1	78.0	323
Kerala	39.1	67.9	332
Maharashtra	54.3	65.5	401
Manipur	73.6	72.3	264
Meghalaya	25.2	36.9	240
Mizoram	76.3	88.2	260
Nagaland	43.2	15.3	280
Punjab	59.4	92.6	269
Sikkim	37.4	41.8	208
Tamil Nadu	66.8	90.5	437
Tripura	58.3	71.3	240
West Bengal	67.0	80.5	320
UT COMBINED	40.2	75.2	809
Total	57.7	72.8	6674

5.10.2 Assistance Received under JSY Scheme

All women who delivered during 12 months preceding the survey were asked whether they had received any assistance under the JSY scheme. Nearly one-third of the women reported that they received some assistance during the last delivery (Table 5.27). Government assistance was received by a higher proportion of women in rural areas (35.5 percent) than that in urban areas (24.7 percent). The table further shows that as expected, at almost similar level scheduled caste and scheduled tribe women, women from BPL families and from lowest wealth quintile households received government assistance when compared to their counterparts.

Women who delivered in government institutions were further asked if they had received assistance under the JSY scheme. The analysis shows that 59.3 percent women received such assistance. Such percentage was higher among rural women (64.3 percent) than urban women (45.5 percent).

The table further shows that more scheduled caste and scheduled tribe women and women from households with the lowest wealth quintile received government assistance than women from other castes and from households with highest wealth quintile respectively.

An analysis of the data on Government assistance received under JSY according to States and UTs shows that a significantly higher percent of the women from low -performing States (40.0 percent) received JSY assistance as compared to women from high-performing States (25.5 percent) (Table 5.28). Among the low -performing States, very low percentage of women reportedly received JSY assistance in Jharkhand (12.0 percent) and Bihar (24.5 percent).

The analysis of the data on JSY assistance received by the women delivered at government institutions shows that comparatively a higher proportion (81.1 percent) of women from low-performing States received assistance than women from highperforming States (36.5 percent).

government assistance receiv Background Characteristics	Received any			delivered in	
Dackground Characteristics	assistance	~	government institution and received assistance under JSY		
	Percentage who received JSY assistance	No. of women # *	Percentage who received JSY assistance	No. of women who delivered in government. institutions #	
Mother's age (in Years)					
15-19	34.9	1165	55.9	654	
20-24	34.2	8835	58.2	4686	
25-34	30.9	11910	60.9	5892	
35-44	28.6	1043	61.8	467	
45+	15.4	31	87.4	16@	
Residence					
Rural	35.5	12849	64.3	6724	
Urban	24.7	10135	45.5	4991	
Mother's education					
No education	32.5	5525	64.3	2508	
<5 years completed	36.8	1208	45.5	676	
5-7 years completed	36.5	3631	64.3	2076	
8-9 years completed	37.0	3914	45.5	2286	
10-11 years completed	30.5	3959	64.3	2134	
12 or more years completed	23.3	4747	45.5	2035	
Religious group					
Hinduism	35.0	16651	61.6	8755	
Islam	22.5	3001	48.4	1393	
Sikhism	14.6	397	40.6	123	
Christianity	25.9	2512	46.8	1229	
Other religious group	23.1	423	42.4	215	
Social group					
Scheduled caste	39.2	4167	62.9	2355	
Scheduled tribe	35.2	3900	69.0	1941	
Other backward classes	31.7	8080	59.7	4082	
Others	27.4	6837	52.3	3337	
BPL status					
Have BPL card	36.9	7132	60.6	3893	
Don't have BPL card	29.8	15852	58.5	7822	
Wealth Index					
Lowest	38.9	4597	73.4	2214	
Second	35.6	4596	55.5	2557	
Middle	33.2	4603	53.6	2620	
Fourth	27.5	4591	49.7	2501	
Highest	17.0	4597	44.4	1823	
Total	32.5	22984	59.3	11715	

 $^{^{\}ast}$ Responses from all women whether eligible for JSY or not (both institutional and home delivery) # unweighted cases

Background Characteristics		any govt. under JSY	Women who delivered in a government institution and received assistance under JSY		
	Percentage who received JSY assistance	No. of women # *	Percentage who received JSY assistance	No. of women who delivered in govt. institutions #	
Low -Performing Sta	ntes				
Assam	50.2	881	87.1	504	
Bihar	24.5	1066	66.6	375	
Chhattisgarh	27.8	533	74.3	152	
Jammu & Kashmir	27.3	622	35.0	453	
Jharkhand	12.0	637	50.2	126	
Madhya Pradesh	65.5	1046	90.5	715	
Orissa	60.7	947	93.5	584	
Rajasthan	53.2	908	91.0	530	
Uttar Pradesh	35.1	1135	86.5	424	
Uttarakhand	29.1	580	81.3	213	
Total	40.0	8355	81.1	4076	
High-Performing Sta	ites				
Andhra Pradesh	19.9	896	31.0	442	
Arunachal Pradesh	50.0	569	73.5	378	
Delhi	14.7	589	28.9	281	
Goa	3.5	543	7.3	256	
Gujarat	21.8	800	29.7	274	
Haryana	18.0	639	42.6	249	
Himachal Pradesh	7.0	563	15.0	261	
Karnataka	45.1	789	52.9	485	
Kerala	21.2	832	37.5	403	
Maharashtra	17.1	1004	29.5	389	
Manipur	10.1	629	17.9	336	
Meghalaya	30.6	581	54.7	315	
Mizoram	51.4	619	61.9	375	
Nagaland	16.0	639	59.8	216	
Punjab	12.4	583	30.6	143	
Sikkim	21.4	537	28.8	395	
Tamil Nadu	33.1	1104	37.0	718	
Tripura	16.3	600	20.3	488	
West Bengal	36.5	838	46.3	459	
UT Combined	14.1	1275	18.0	776	
Total	25.5	14629	36.5	7639	

 $^{^{\}ast}$ Responses from all women whether eligible for JSY or not (both institutional and home delivery) # unweighted cases

5.10.3 Financial Assistance Provided Under JSY Scheme

Around 40.5 percent of women who delivered in government institutions received financial assistance under JSY. Proportionately more rural women (47.6 percent) received financial benefits than urban women (25.7 percent).

With regard to time of receipt of money, 25.9 percent received money either before delivery or immediately after delivery and another 30.2 percent received it within 10 days of delivery. About 69.4 percent of women who reported to have received monetary benefits received it by cheque. About 6 percent women reportedly faced difficulty in receiving the money.

Response	Institutional delivery			
	Rural	Urban	Total	
Percentage who received monetary benefits*	47.6	25.7	40.5	
Number of women with institutional delivery # (n)	8992	8713	17705	
Time when they received monetary benefits**				
Before delivery	11.6	11.6	11.6	
Immediately after delivery	13.3	18.0	14.3	
Within first 10 days	29.1	34.3	30.2	
11 days – 1 month after delivery	28.6	22.4	27.3	
1- 3 months after delivery	13.3	11.0	12.9	
Later than 3 months after delivery	4.0	2.6	3.7	
Mode of payment**				
Cash	29.4	35.3	30.6	
Cheque	70.6	64.7	69.4	
Percentage who faced difficulties in receiving incentive	es**			
Yes	5.9	4.9	5.7	
No	94.1	95.1	94.3	
Number of women # (n)	3999	2292	6291	

^{*} Base= all women who delivered in an institution

5.11 ASSISTANCE RECEIVED FROM THE ASHA

Besides facilitating women's antenatal check-ups, the ASHA arranges transport for pregnant women to reach the health facility and accompanies her to the health facility. Women who delivered in government institutions were asked whether they received any help from the ASHA. Information collected was analysed according to background characteristics of the women and presented in Table 5.30. The

table indicates that 30.4 percent of women were accompanied by an ASHA to the health facility for delivery and 26.7 percent stayed back with them at the health institution. Further analysis of the data according to background characteristics shows that proportionately more rural women (49.5 percent) were accompanied by an ASHA as compared to urban women (16.6 percent). The table further shows that higher percentage of illiterate; BPL and women in the lowest wealth quintile were accompanied by ASHA to the health facility for delivery and stayed with them when compared to their corresponding counterparts.

^{**} Base = all women who received monetary benefits

[#] unweighted cases

Background Characteristics	Percenta	Percentage women reports of an ASHA					
	Accompanied her to health facility	Stayed at health facility	Number of women who delivered in government institution# (n)				
Mother's age (in Years)							
15-19	38.3	33.4	654				
20-24	41.4	35.6	4686				
25-34	44.2	40.0	5892				
35-44	51.5	47.7	467				
45+	0.6	0.2	16				
Residence							
Rural	49.5	44.3	6724				
Urban	16.6	12.6	4991				
Mother's education							
No education	51.1	44.8	2508				
<5 years completed	34.3	28.3	676				
5-7 years completed	34.9	31.8	2076				
8-9 years completed	41.7	37.6	2286				
10-11 years completed	38.2	34.6	2134				
12 or more years completed	39.4	33.6	2035				
Religious group							
Hinduism	44.5	39.3	8755				
Islam	33.0	29.3	1393				
Sikhism	43.7	34.3	123				
Christianity	29.5	27.1	1229				
Other religious group	6.5	5.7	215				
Social group							
Scheduled Caste	39.0	33.7	2355				
Scheduled Tribe	44.2	39.4	1941				
Other backward Classes	49.1	44.2	4082				
Others	35.3	30.5	3337				
BPL status							
Have BPL card	47.7	42.7	3893				
Don't have BPL card	28.0	24.7	7822				
Wealth index							
Lowest	55.5	49.6	2214				
Second	40.4	35.9	2557				
Middle	32.2	27.0	2620				
Fourth	29.6	26.0	2501				
Highest	22.9	20.6	1823				
Total	30.4	26.7	11715				

The data on an ASHA's help was analysed by State to see State-wise differences. Table 5.31 shows that ASHA were more active in low-performing States. For instance, at the government institutions in low-performing States ASHA accompanied women to the

health facility in 54.3 percent of the deliveries, and in 49.1 percent cases she stayed with the women as well. In contrast, in the high-performing States, ASHA accompanied women in 11.2 percent of the deliveries and in 8.9 percent cases she stayed at the health facility.

Background	Percentage of women reports on ASHA						
Characteristics	Accompanied her to health facility	Stayed at health facility	Number of women who delivered in govt. institutions # (n)				
Low-Performing State	es						
Assam	73.9	66.6	504				
Bihar	72.0	69.1	375				
Chhattisgarh	49.7	45.6	152				
Jammu & Kashmir	30.6	23.8	453				
Jharkhand	37.4	33.0	126				
Madhya Pradesh	33.2	25.5	715				
Orissa	76.3	72.9	584				
Rajasthan	20.8	17.7	530				
Uttar Pradesh	60.3	53.8	424				
Uttarakhand	71.3	67.5	213				
Total	54.3	49.1	4076				
High-Performing Stat	es						
Andhra Pradesh	21.9	19.7	442				
Arunachal Pradesh	17.7	13.3	378				
Delhi	8.6	3.5	281				
Goa	0.0	0.0	256				
Gujarat	18.4	11.7	274				
Haryana	29.1	28.5	249				
Himachal Pradesh	0.1	0.1	261				
Karnataka	14.3	12.4	485				
Kerala	21.5	16.5	403				
Maharashtra	4.6	2.8	389				
Manipur	13.4	11.4	336				
Meghalaya	15.0	12.6	315				
Mizoram	26.0	21.1	375				

Background	Percentage of women reports on ASHA						
Characteristics	Accompanied her to health facility	Stayed at health facility	Number of women who delivered in govt. institutions # (n)				
High-Performing States							
Nagaland	14.0	11.0	216				
Punjab	6.8	6.2	143				
Sikkim	17.3	13.9	395				
Tamil Nadu	4.0	3.1	718				
Tripura	25.5	15.7	488				
West Bengal	1.1	0.0	459				
UTs Combined	11.1	8.4	776				
Total	11.2	8.9	7639				

5.12 AVAILABILITY OF BED FACILITY AND COUNSELLING AT THE TIME OF DELIVERY

By way of public health facilities, the Government has made a provision for a separate bed for women who come for delivery. The women who delivered in institutions (both public and private) were asked whether they got a separate bed or not. Table 5.32 indicates that 85.8 percent women got a separate bed. Only 10.3 percent had to share the bed with other women and 3.9 percent did not receive a bed. The table further shows that sharing of the bed was slightly more among rural women, less-educated women, and women from lowest wealth quintiles compared to their counterparts.

After the delivery women should be counselled for new-born care and family planning etc. The

analysis shows that 75.7 percent of the women who delivered in institutions received counselling.

To assess the State differentials in getting separate bed facility, the data was analysed and presented in Table 5.33a. The table shows that the situation of availability of separate beds for delivery was somewhat similar in both low-performing and high-performing States. The table indicates that among low performing States, relatively higher percentage of women in Chhattisgarh, Jammu & Kashmir and Uttar Pradesh shared the bed compared to other States. Similarly among highperforming States, more women from West Bengal, Kerala, Delhi, Union Territories and Andhra Pradesh reportedly shared the bed with others compared to other States. Lesser proportion of women received counselling soon after delivery at institution in Bihar (54.3 percent) and Madhya Pradesh (53 percent).

Background		Bed facility	Percentage	No. of women	
Characteristics	Separate	Shared	No bed	who received counselling	who delivered in institutions #
Mother's age (in years)					
15-19	84.1	11.7	4.2	65.8	887
20-24	86.7	10.2	3.1	76.8	6942
25-34	85.6	10.5	3.9	76.9	9159
35-44	80.2	6.6	13.2	66.4	696
45+	66.2	4.6	29.2	27.0	21*
Residence	'				1
Rural	84.2	11.2	4.5	72.6	8992
Urban	89.1	8.4	2.5	81.9	8713
Mother's education					
No education	80.0	12.9	7.1	65.3	3085
<5 years complete	82.2	15.9	1.9	74.2	842
5-7 years complete	86.2	10.4	3.5	72.3	2690
8-9 years complete	87.5	9.6	2.9	75.7	3152
10-11 years complete	88.0	8.9	3.1	82.8	3483
12 or more years complete	90.8	7.1	2.1	86.6	4453
Religious group					l
Hinduism	85.9	10.1	4.0	75.9	13170
Islam	83.2	13.4	3.4	71.7	2203
Sikhism	92.2	7.2	0.6	82.6	306
Christianity	85.9	9.7	4.4	80.1	1739
Other religious group	99.5	0.5	0.0	82.8	287
Social group					<u> </u>
Scheduled Caste	83.1	11.8	5.1	73.8	3097
Scheduled Tribe	89.7	8.8	1.5	72.8	2482
Other backward Classes	84.7	10.2	5.1	76.0	6479
Others	88.7	9.7	1.7	77.1	5647
BPL status					
Have BPL card	83.2	12.5	4.2	76.0	5237
Don't have BPL card	87.3	9.0	3.7	75.4	12468
Wealth Index					
Lowest	77.9	13.6	8.5	60.7	2554
Second	84.5	12.7	2.8	74.6	3277
Middle	87.8	9.3	2.9	80.2	3607
Fourth	89.3	8.2	2.4	83.3	4020
Highest	93.2	5.8	1.0	85.9	4247
Total	85.8	10.3	3.9	75.7	17705

^{*} base is < 25.

[#] unweighted cases

States/UT		Bed facility		Percentage	No. of women who delivered in institutions #
	Separate	Shared	No bed	who received counselling	
Low-Performing States			<u>'</u>		
Assam	94.5	4.5	1.0	70.9	634
Bihar	87.8	9.4	2.8	54.3	625
Chhattisgarh	85.4	14.3	0.2	77.8	284
Jammu & Kashmir	75.6	24.2	0.3	78.5	536
Jharkhand	96.5	2.8	0.7	72.5	312
Madhya Pradesh	94.1	4.8	1.1	53.0	852
Orissa	91.6	6.0	2.5	68.7	745
Rajasthan	92.2	7.1	0.6	75.4	698
Uttar Pradesh	71.6	14.1	14.3	64.2	690
Uttarakhand	96.8	1.5	1.7	89.3	372
Total	84.6	9.7	5.8	64.9	5748
High-Performing States	'		'		1
Andhra Pradesh	85.0	14.5	0.5	87.0	843
Arunachal Pradesh	89.5	8.5	2.0	69.6	413
Delhi	85.3	14.4	0.3	86.0	497
Goa	99.8	0.2	-	88.1	542
Gujarat	96.0	3.2	0.8	87.0	642
Haryana	89.6	7.8	2.5	70.9	438
Himachal Pradesh	97.4	2.5	0.0	85.1	366
Karnataka	90.2	7.8	1.9	95.4	705
Kerala	79.2	19.2	1.6	85.4	831
Maharashtra	97.6	0.9	1.4	81.4	819
Manipur	92.8	4.4	2.8	78.0	510
Meghalaya	86.5	12.3	1.2	57.0	405
Mizoram	84.4	15.1	0.5	63.0	513
Nagaland	92.2	7.8	0.0	63.8	258
Punjab	98.0	1.6	0.4	88.3	394
Sikkim	98.1	1.8	0.1	88.2	415
Tamil Nadu	83.7	7.6	8.8	89.1	1080
Tripura	98.0	1.7	0.2	85.8	513
West Bengal	65.6	30.7	3.8	63.4	619
UT COMBINED	78.9	16.8	4.3	85.6	1154
Total	86.5	11.0	2.5	82.4	11957

^{*} base is < 25.

[#] unweighted cases

States/UT		Bed facility		Percentage	No. of women
	Separate	Shared	No bed	who received counselling	who delivered in institutions #
Low-Performing States					
Assam	94.6	4.5	0.9	71.4	338
Bihar	88.0	9.4	2.6	53.7	308
Chhattisgarh	87.5	12.5	0.0	76.8	107
Jammu & Kashmir	74.9	24.7	0.4	77.2	252
Jharkhand	95.7	3.6	0.7	76.8	123
Madhya Pradesh	93.9	4.9	1.3	48.5	466
Orissa	91.7	5.6	2.8	66.6	433
Rajasthan	91.4	8.2	0.4	74.5	396
Uttar Pradesh	66.8	15.2	18.0	58.5	386
Uttarakhand	95.2	2.1	2.7	87.9	143
Total	83.0	10.1	7.0	62.2	2952
High-Performing States					
Andhra Pradesh	82.6	17.1	0.3	85.5	517
Arunachal Pradesh	87.7	10.0	2.4	70.6	238
Delhi	69.1	30.9	-	66.0	44
Goa	100.0	-	-	90.3	266
Gujarat	94.2	5.1	0.7	89.3	354
Haryana	88.9	8.2	3.0	64.9	205
Himachal Pradesh	97.6	2.4	0.0	84.0	135
Karnataka	88.9	9.2	1.9	94.8	399
Kerala	80.7	18.0	1.3	85.7	500
Maharashtra	96.7	1.7	1.5	78.8	450
Manipur	92.4	4.6	3.0	75.5	273
Meghalaya	92.3	6.2	1.5	54.8	193
Mizoram	82.1	16.8	1.1	59.4	259
Nagaland	89.6	10.4	0.0	62.1	96
Punjab	98.0	2.0	0.0	85.9	188
Sikkim	98.3	1.6	0.1	90.8	237
Tamil Nadu	84.7	6.9	8.3	89.6	651
Tripura	98.1	1.9	0.0	84.2	283
West Bengal	66.1	30.4	3.5	62.2	339
UT COMBINED	76.3	18.6	5.1	89.2	413
Total	85.4	12.3	2.3	80.9	6040

^{*} base is < 25.

[#] unweighted cases

States/UT		Bed facility		Percentage	No. of women
	Separate	Shared	No bed	who received counselling	who delivered in institutions #
Low-Performing States			<u>'</u>		
Assam	93.7	4.5	1.7	68.6	296
Bihar	86.5	9.2	4.3	57.7	317
Chhattisgarh	80.2	19.0	0.8	80.2	177
Jammu & Kashmir	77.1	22.9	0.0	81.6	284
Jharkhand	97.7	1.7	0.6	66.1	189
Madhya Pradesh	94.7	4.6	0.8	63.6	386
Orissa	91.2	8.0	0.8	79.8	312
Rajasthan	94.5	4.1	1.3	78.1	302
Uttar Pradesh	87.2	10.5	2.3	82.6	304
Uttarakhand	99.5	0.5	0.0	91.6	229
Total	90.2	8.1	1.7	75.0	2796
High-Performing States					
Andhra Pradesh	91.6	7.3	1.1	91.2	326
Arunachal Pradesh	95.3	4.0	0.7	66.6	175
Delhi	86.4	13.3	0.3	87.4	453
Goa	99.5	0.5	0.0	85.9	276
Gujarat	98.5	0.5	1.0	83.8	288
Haryana	91.2	7.1	1.6	82.9	233
Himachal Pradesh	96.5	3.4	0.1	90.7	231
Karnataka	92.6	5.4	2.1	96.3	306
Kerala	74.8	22.7	2.5	84.7	331
Maharashtra	98.6	0.1	1.3	84.1	369
Manipur	93.6	3.9	2.5	83.5	237
Meghalaya	72.2	27.3	0.5	62.4	212
Mizoram	86.1	13.9	0.0	65.6	254
Nagaland	97.3	2.7	0.0	67.0	162
Punjab	98.1	0.9	1.0	91.8	206
Sikkim	97.2	2.8	0.0	71.3	178
Tamil Nadu	82.3	8.3	9.3	88.4	429
Tripura	97.5	1.3	1.2	91.9	230
West Bengal	64.5	31.2	4.3	65.7	280
UT COMBINED	81.2	15.2	3.6	82.7	741
Total	88.5	8.7	2.8	84.9	5917

^{*} base is < 25.

[#] unweighted cases

5.13 TRANSPORT ARRANGEMENT

Table 5.34 presents the analysis of the data on the person who made the transport arrangement for the respondent for reaching health facility according to background characteristics of the women. Around 69.2 percent of the women reported that their family members made transport arrangements. In case of 7.8 percent of the women transport was arranged by an ASHA. There was no significant difference in this regard when data was examined according to background characteristics of women.

Background Characteristics	Self/family	ASHA	ANM	Others	Number of women with JSY benefits and
					institutional deliveries #
Residence	T		Ī		Г
Rural	71.7	9.0	0.6	1.7	6724
Urban	62.1	4.6	0.7	0.6	4991
Mother's education	T	Г	1	1	
No education	75.9	10.1	0.6	2.4	2508
<5 years complete	63.0	7.4	1.0	1.0	676
5-7 years complete	67.9	5.8	1.0	1.7	2076
8-9 years complete	66.1	8.9	0.6	0.6	2286
10-11 years complete	62.4	6.3	0.4	0.5	2134
12 or more years complete	69.5	4.8	0.3	1.1	2035
Religious group					
Hinduism	69.4	8.2	0.7	1.3	8755
Islam	64.1	6.1	0.6	2.4	1393
Sikhism	92.9	3.6			123
Christianity	69.6	6.4	0.0	0.1	1229
Other religious group	85.6	0.9	2.2	1.5	215
Social group					
Scheduled Caste	69.9	6.2	0.6	1.6	2355
Scheduled Tribe	72.1	13.7	0.5	3.0	1941
Other backward Classes	68.6	8.3	0.6	0.9	4082
Others	68.5	7.0	0.7	1.6	3337
BPL status		'		'	
Have BPL card	69.5	8.6	0.7	1.6	3893
Don't have BPL card	68.9	7.2	0.6	1.3	7822
Wealth index	, 				'
Lowest	75.1	10.9	0.4	2.0	2214
Second	64.6	7.4	1.2	1.7	2557
Middle	65.7	5.6	0.5	1.0	2620
Fourth	66.6	5.8	0.6	0.7	2501
Highest	71.1	5.1	0.6	0.5	1823
Total	69.2	7.8	0.6	1.4	11715

Further analysis of the data according to States is presented in Table 5.35. The table shows that in the States of Orissa, Meghalaya and Assam around 20 percent of the women reported that an ASHA arranged transport. On the other hand, in States of Himachal Pradesh, Chhattisgarh, Mizoram and Uttarakhand only around 10 percent women reported that ASHA arranged transport.

Table 5.35: Percentage of women who delivered in health facility according to person who made transport arrangement according to States/UTs							
Background Characteristics	Self/family	ASHA	ANM	Others	Number of women with JSY benefits and institutional deliveries #		
Low-Performing States							
Assam	66.9	21.1	0.1	0.0	504		
Bihar	86.2	7.3	0.0	3.1	375		
Chhattisgarh	77.4	12.7	3.0	2.2	152		
Jammu & Kashmir	82.0	6.2	0.0	1.3	453		
Jharkhand	86.4	3.9	0.0	1.9	126		
Madhya Pradesh	78.7	13.7	0.7	2.3	715		
Orissa	77.0	19.9	0.2	0.4	584		
Rajasthan	91.0	4.5	0.4	2.5	530		
Uttar Pradesh	85.7	8.3	0.2	0.1	424		
Uttarakhand	83.8	10.9	0.0	4.5	213		
Total	83.5	9.9	0.3	1.4	4076		
High-Performing States		<u>'</u>	'	_			
Andhra Pradesh	94.4	5.3	0.0	0.2	442		
Arunachal Pradesh	69.1	8.5	0.0	0.0	378		
Delhi	50.3	1.6	0.4	0.3	281		
Goa	15.3	2.2	2.8	0.0	256		
Gujarat	73.5	7.7	4.5	5.9	274		
Haryana	61.4	5.0	1.8	3.6	249		
Himachal Pradesh	31.5	2.0	0.0	0.9	261		
Karnataka	45.3	8.3	1.9	1.1	485		
Kerala	61.3	8.8	0.2	0.0	403		
Maharashtra	79.8	3.9	1.0	0.0	389		
Manipur	76.2	5.3	0.0	0.0	336		
Meghalaya	62.7	20.4	0.0	0.0	315		
Mizoram	77.9	11.0	0.0	0.0	375		
Nagaland	91.5	6.7	0.0	0.0	216		
Punjab	97.5	0.8	0.0	0.5	143		
Sikkim	69.4	5.9	0.9	14.9	395		
Tamil Nadu	16.1	5.2	0.6	0.0	718		
Tripura	92.8	4.8	0.0	1.2	488		
West Bengal	38.8	2.3	0.0	3.8	459		
UTs Combined	57.8	5.3	1.6	0.7	776		
Total	61.6	5.0	1.0	1.5	7639		

5.14 CARE OF THE NEW BORN

The health of the mother and her newborn child depends not only on the health services she receives during pregnancy and delivery, but also on the care she and her child receive during the first few weeks after delivery. Post-partum checkups within 6 weeks after delivery are particularly important for births that take place in non-institutional settings.

Table 5.36 presents the status of newborn care for home deliveries. Majority (74.3 percent) of the women reported that the baby was wiped and wrapped soon after delivery. Further, in 86 percent of the deliveries, a new or sterilized blade was used to cut the cord. The point worth noting is that around 56.4 percent of the babies delivered at home were bathed immediately after birth. Even at institutions, about 34.7 percent of the newborn were given bath immediately after delivery.

Data on newborn care practice was further analysed according to background characteristics of the women. The analysis shows that there was not much difference in the practices followed by various categories of respondents (Table 5.37). There was wide State differentials in newborn practices followed in different States (Table 5.38).

Disposable delivery kit (DDK) was used infrequently for home deliveries (12.2 percent). Highest use of DDK was found in Punjab (39 percent).

Table 5.36: Newborn care availed by women who delivered at home during 12 months preceding the survey					
New Born Care	Home N=5279				
Baby wiped dry and wrapped	74.3				
Given bath immediately after delivery	56.4				
New/sterilized blade used to cut the cord	86.0				
Disposable delivery kit used	12.2				

Packaround Characteristics	Doby	Given bath	Now/	Dianasahla	Number
Background Characteristics	Baby wiped dry and wrapped	immediately after delivery	New/ sterilized blade used to cut the cord	Disposable delivery- kit used	Number of home deliveries#
Mother's age (in Years)					
15-19	75.9	61.5	91.6	12.8	274
20-24	72.3	56.9	86.1	11.9	1872
25-34	74.8	55.8	84.6	12.8	2724
35-44	79.7	51.3	90.9	9.9	342
45+	91.4	92.0	100.0	5.2	10
Residence					
Rural	75.2	55.3	86.2	11.0	3823
Urban	68.9	62.9	84.6	19.6	1399
Mother's education					
No education	72.6	58.1	86.6	9.7	2425
<5 years complete	76.1	56.3	77.0	12.5	364
5-7 years complete	74.1	59.6	85.6	16.3	931
8-9 years complete	80.0	50.5	88.2	15.5	751
10-11 years complete	77.1	49.4	89.2	16.8	465
12 or more years complete	78.2	45.1	83.2	19.4	286
Religious group					
Hinduism	74.3	53.8	85.7	11.8	3441
Islam	73.3	67.0	87.1	12.0	785
Sikhism	85.5	36.6	94.8	35.1	91
Christianity	67.2	68.4	75.7	5.6	769
Other religious group	86.1	42.7	93.5	25.9	136
Social group					
Scheduled Caste	76.6	55.1	89.7	14.9	1055
Scheduled Tribe	70.1	54.1	83.6	13.4	1406
Other Backward Classes	76.1	53.3	89.1	9.9	1585
Others	71.0	63.9	78.6	12.8	1176
BPL status					
Have BPL card	76.4	56.0	87.5	11.2	1880
Don't have BPL card	72.9	56.7	85.0	12.8	3342
Wealth Index					
Lowest	78.5	52.6	90.8	9.0	2028
Second	73.1	61.2	87.2	15.3	1308
Middle	69.9	62.1	81.2	15.6	987
Fourth	66.1	59.6	70.1	14.0	558
Highest	58.1	59.1	67.8	23.6	341
Total	74.3	56.4	86.0	12.2	5222

Table 5.38: Percentage of women who delivered at home during 12 months preceding the survey by childcare at the time of delivery according to States/UT States/UT Baby Given bath New/ **Disposable** Number wiped immediately sterilized delivery- kit of home dry and after blade used to used deliveries# wrapped delivery cut the cord Andhra Pradesh 93.4 65.8 72.0 29.1 53 Arunachal Pradesh 72.2 154 56.5 66.8 3.2 Assam 88.2 67.1 73.8 9.9 246 3.4 Bihar 85.9 59.4 99.4 435 Chhattisgarh 73.3 51.8 89.7 4.3 248 Delhi 66.8 67.2 78.1 10.6 91 Goa _ _ --_ Gujarat 80.4 81.6 52.3 14.8 157 Haryana 59.2 50.2 70.1 198 21.8 Himachal Pradesh 79.2 44.2 96.2 8.8 194 Jammu & Kashmir 50.4 50.0 64.5 85 1.1 Jharkhand 86.5 46.7 99.4 9.2 320 Karnataka 83.8 77.0 91.3 15.9 84 _ _ _ _ _ Kerala Madhya Pradesh 61.0 47.9 75.1 20.8 192 Maharashtra 54.9 64.8 27.2 184 93.1 Manipur 72.3 23.8 51.6 25.3 119 80.3 73.6 5.8 176 Meghalaya 56.0 Mizoram 84.0 27.8 45.4 15.0 105 Nagaland 57.0 92.4 74.0 5.2 379 Orissa 84.3 41.5 94.5 11.5 201 Punjab 82.3 42.5 86.8 39.0 189 Rajasthan 84.1 40.8 83.1 31.2 208 70.2 Sikkim 60.5 62.7 12.8 120 Tamil Nadu 83.1 53.0 48.7 8.0 18@ 38.7 87 Tripura 71.8 93.2 26.8 Uttar Pradesh 62.0 57.1 83.2 4.0 440 53.1 89.0 9.1 208 Uttarakhand 73.5 West Bengal 81.6 52.5 88.7 10.7 217 69.7 UTs combined 84.7 59.7 22.3 113 Total 74.3 56.4 86.0 12.2 5222 # unweighted cases

5.15 POST NATAL CARE

5.15.1 Post Natal Care for Women

Women who had delivered during the last 12 months prior to the date of survey were asked whether they received postnatal care services including any check-up after delivery, number of check-ups received, place of check-up, type of check-up and advice received during the postnatal visits. Table 5.39 shows that 60.1 percent of the women reported receiving postnatal check-ups within the first 10 days of delivery. About 22 percent women received at least 4 check-ups and another 8.6 percent received 3 check-ups in 3-7 days of delivery.

With regard to the place of check-ups, 56.0 percent of the women who received postnatal check-

up went to a public health facility for check-up (government hospital - 39.8 percent, CHC - 5.9 percent, PHC – 7.9 percent). Around 38.1 percent women reported having received postnatal checkups at a private health facility. Government health facility was more preferred by women in the rural areas (60.2 percent) than urban areas (48.2 percent). Most likely, the place of visit for postnatal check-up depended on the place of their deliveries. Around 5.9 percent of the women received postnatal care at home either by a doctor or ANM. During these visits, the types of services provided to the women were - abdomen checkups (85.5 percent), blood pressure check-up (75.3 percent) and vulva and perineum examination (55.3 percent). During the visit women were also advised on breastfeeding practice (78.0 percent), child care (75.0 percent), nutrition (71.9 percent) and family planning (55.0 percent).

Responses	Rural	Urban	Total
Percentage of women who reported check-up within the first 10 days	54.6	74.4	60.1
Number of check-ups done during 3-7 days after delivery			
1	12.0	12.4	12.1
2	11.4	14.2	12.2
3	7.4	11.9	8.6
4+	18.1	30.7	21.6
None	51.1	30.9	45.5
Number of women#	12849	10135	22984
Place of check-up during 3 -7 days			
Government facility			
Government Hospital	39.2	41.0	39.8
Dispensary	0.2	0.5	0.3
UHC/UHP/UFWC	0.1	1.1	0.5
CHC/Rural Hospital	7.8	2.2	5.9
PHC	10.5	2.9	7.9
Sub-centre	2.2	0.4	1.5
ICDS Centre	0.2	0.0	0.1
AYUSH Hospital/clinic	0.0	0.1	0.0

Table 5.39: Contd			
Responses	Rural	Urban	Total
Private facility			
NGO/Trust Hospital/clinic	0.9	0.5	0.7
Private Hospital/clinic	31.7	46.9	36.9
Private AYUSH Hospital/clinic	0.3	0.7	0.5
Home care			
Doctor at Home	3.9	2.2	3.3
ANM/Nurse at Home	1.9	0.9	1.6
ASHA at Home	0.2	0.0	0.2
AWW at Home	0.1	0.0	0.1
Others	0.7	0.6	0.7
Type of check-ups done			
Abdomen examined	84.7	87.1	85.5
Vulva and perineum examined	51.7	62.0	55.3
BP and Pulse measured	73.1	79.5	75.3
Post natal Advice given			
Advice on breastfeeding	76.2	81.2	78.0
Advice on baby care	73.4	78.0	75.0
Advice on family planning	52.8	59.1	55.0
Advice on nutrition	70.4	74.8	71.9
Others	34.9	42.0	37.3
Number of women who reported checkups after delivery# (n)	7815	7629	15444

5.15.2 Post-Natal Care for New Born

Table 5.40 indicates that 65.6 percent of the new born children received post-natal check-ups. More urban (78.2 percent) women reported that their child was checked within 24 hours of their birth than rural women (60.7 percent). During these visits, the child's umbilicus, skin and eyes were checked (86.4 percent), mother was advised on

breastfeeding practices (79.6 percent) and how to keep the newborn warm (62.5 percent). About 47.0 percent of the women also enquired about the danger signs. These check-ups was more in urban than rural areas. The table further shows that 45.4 percent children received at least 3 postnatal check-ups within 10 days after birth. Public sector (56.7 percent) was the main source of postnatal checkups.

Responses	Rural	Urban	Total
Percent of newborns who received check-up within 24 hours after birth	60.7	78.2	65.6
Number of newborn children#	12673	9982	22655
Type of check-ups done/advice given			
Checked the umbilicus, skin and eyes	85.4	88.4	86.4
Informed mother, the baby should be warm to touch at the abdomen and soles of the feet should be pink	59.7	68.0	62.5
Breast feeding	77.6	83.6	79.6
Asked for danger signs	44.8	51.3	47.0
Number of check-ups done within 10 days after birth			
1	35.6	23.6	31.7
2	23.6	21.6	22.9
3	13.6	15.4	14.2
4	27.2	39.3	31.2
Place of last newborn check-up			
Public medical sector	60.7	48.5	56.7
NGO/Trust hospital/clinic	0.8	0.5	0.7
Private medical sector	31	47	36.3
At home, by Doctor	3.8	2.6	3.4
At home, by ANM/Nurse	2.1	0.8	1.7
At home, by ASHA	0.4	0.0	0.2
At home, by AWW	0.4	0.0	0.3
Others	0.8	0.5	0.7
Number of newborns who received check-ups after birth#	8366	7842	16208

5.16 KNOWLEDGE ABOUT DANGER SIGNS OF NEW BORN

All those women who had their last live/still birth 12 months preceding the survey were asked, "Do you know the danger signs in the newborn?" The information collected (prompted response) was analyzed according to background characteristics of women. Table 5.41 shows that 56.8 percent of the women had the knowledge

that baby not crying immediately after birth is a matter of concern. Around 48.0 percent of the women knew poor sucking of breast, followed by difficulty in breathing (47.5 percent), cold/hot to touch (34.7 percent), blue tongue and lips (30.5 percent), and abnormal movement (30.9 percent) as other danger signs of newborn children. Knowledge about danger signs was better among young women, those residing in urban areas, literate and belonging to highest wealth index (Table 5.41).

Table 5.41: Percei								esponse
Background characteristics	Baby does not cry immediately	Blue tongues and lips	Difficulty in breathing	Cold/ hot to touch	Abnormal movement	Poor sucking of breast	Develop yellow staining of palm and soles	Number of women#
Mother's age (in \	Years)							
15-19	52.3	24.2	40.8	33.5	22.6	44.0	28.1	1165
20-24	55.8	29.7	46.9	34.4	30.3	47.1	29.8	8835
25-34	58.3	32.1	49.2	35.3	32.8	49.4	29.3	11910
35-44	58.8	32.4	48.3	34.1	29.6	49.3	23.6	1043
45+	34.2	17.0	19.4	34.2	11.7	31.6	11.6	31
Residence								
Rural	55.7	28.6	46.3	32.8	28.3	46.7	26.9	12849
Urban	59.6	35.3	50.9	39.6	37.5	51.3	35.0	10135
Mother's education	on							
No education	50.3	22.8	41.1	26.0	21.5	41.2	19.4	5525
<5 years completed	57.5	31.0	47.2	35.4	31.0	46.0	28.9	1208
5-7 years completed	55.5	26.8	43.5	33.8	30.0	46.0	26.5	3631
8-9 years completed	57.9	32.9	49.9	38.1	33.1	51.5	32.5	3914
10-11 years completed	59.2	34.5	51.9	40.3	37.1	53.3	37.9	3959
12 or more years complete	69.6	46.1	60.5	46.9	45.6	58.4	43.5	4747
Religious group	<u>'</u>	'		'		'	1	
Hinduism	58.0	30.7	48.1	35.3	31.2	48.7	29.3	16651
Islam	52.2	29.2	47.9	31.9	28.9	47.6	28.5	3001
Sikhism	53.0	25.0	38.1	21.0	35.6	33.5	17.0	397
Christianity	47.0	33.0	37.0	36.4	30.2	37.0	35.9	2512
Other religious group	57.5	30.4	38.2	40.4	30.6	44.0	26.9	423

Background characteristics	Baby does not cry immediately	Blue tongues and lips	Difficulty in breathing	Cold/ hot to touch	Abnormal movement	Poor sucking of breast	Develop yellow staining of palm and soles	Number of women#
Social group								
Scheduled Caste	55.5	28.6	44.6	34.0	28.7	45.1	27.3	4167
Scheduled Tribe	50.9	24.7	38.2	27.5	20.3	41.5	20.1	3900
Other backward Classes	55.3	30.4	48.8	34.6	32.8	48.7	29.9	8080
Others	61.7	33.7	50.4	37.3	32.5	51.1	32.0	6837
BPL status								
Have BPL card	52.5	27.4	41.6	33.6	27.9	44.0	28.6	7132
Don't have BPL card	59.3	32.3	51.0	35.4	32.6	50.4	29.5	15852
Wealth Index								
Lowest	50.3	22.2	41.6	25.5	22.1	41.5	18.8	4597
Second	56.2	29.2	45.6	35.7	30.0	47.5	31.2	4596
Middle	57.4	32.6	48.0	37.8	32.8	49.1	33.2	4603
Fourth	62.7	38.4	54.3	40.7	37.8	53.4	36.6	4591
Highest	65.9	40.9	56.7	44.6	42.9	57.2	37.5	4597
Total	56.8	30.5	47.5	34.7	30.9	48.0	29.2	22984

unweighted cases

Table 5.42 shows women's knowledge about dangers sign of newborn in different States. Higher percentage of respondents from the States of Delhi, Jammu & Kashmir, Goa, Gujarat, Himachal

Pradesh, Madhya Pradesh, Orissa, Sikkim, Tamil Nadu Tripura and Uttarakhand had knowledge of danger signs in newborn children than those from other States.

Table 5.42: Percentage of women who delivered during 12 months preceding the survey according to knowledge of danger signs for newborn according to States/UTs (prompted response) States/UT **Baby does** Blue Difficulty Cold/ Abnormal Poor **Develop yellow** Number of sucking not cry tongues in hot to movement staining of women# immediately breathing and lips touch of breast palm and soles Andhra Pradesh 45.3 28.7 37.1 42.2 29.1 49.9 50.9 896 Arunachal 37.1 24.9 19.3 18.8 21.0 21.7 569 21.1 Pradesh 32.6 Assam 51.4 18.0 36.4 26.8 18.9 23.1 881 Bihar 39.6 13.1 31.8 26.3 13.4 34.7 11.1 1066 20.7 24.3 34.7 15.6 533 Chhattisgarh 44.5 29.6 18.3 Delhi 75.9 40.1 66.8 38.5 39.0 66.7 27.5 589 Goa 64.2 52.4 54.3 52.7 47.4 54.3 58.1 543 Gujarat 81.5 53.3 61.2 55.1 44.7 53.8 44.4 800 Haryana 44.3 21.0 32.3 20.1 20.1 41.4 9.3 639 Himachal 74.3 31.8 56.7 36.0 28.8 60.9 19.3 563 Pradesh Jammu & 81.4 46.4 55.0 57.8 60.5 36.1 622 47.6 Kashmir Jharkhand 57.8 18.6 40.2 32.2 19.6 45.2 15.8 637 Karnataka 46.0 26.4 37.5 30.0 26.6 30.1 19.2 789 Kerala 29.7 23.3 21.5 19.9 20.0 21.1 30.7 832 Madhya Pradesh 61.4 23.9 49.3 25.3 17.0 52.1 14.0 1046 Maharashtra 50.1 28.0 37.6 34.7 28.5 38.4 26.2 1004 Manipur 36.1 19.2 26.4 24.1 21.4 27.7 25.9 629 Meghalaya 43.4 30.2 36.0 31.1 27.9 29.8 20.8 581 Mizoram 59.6 55.9 54.9 53.6 55.0 58.5 58.9 619 Nagaland 55.1 40.2 44.2 35.9 23.9 38.9 25.5 639 Orissa 68.4 20.9 43.7 20.1 36.0 57.1 21.8 947 44.4 13.5 Punjab 22.0 34.6 18.1 28.6 27.1 583 24.0 Rajasthan 57.0 32.3 46.3 32.0 28.4 48.5 908 Sikkim 66.1 32.3 42.4 25.9 22.0 40.8 12.2 537 74.9 72.5 65.6 Tamil Nadu 56.6 71.4 69.9 70.4 1104 79.2 36.7 46.8 52.4 600 Tripura 68.3 66.3 58.8 Uttar Pradesh 65.8 35.4 67.7 32.9 35.6 57.9 26.4 1135 Uttarakhand 69.0 49.5 64.9 29.4 25.8 59.1 37.0 580 West Bengal 56.8 29.6 47.4 36.2 32.1 55.2 40.9 838 UTs combined 60.2 38.4 45.5 40.6 36.3 46.1 36.7 1275 56.8 47.5 48.0 29.2 22984 Total 30.5 34.7 30.9

unweighted cases

Chapter 6

Breastfeeding Practices and Child Nutrition

Infant feeding practices have a significant effect on both mother and child. Mothers are affected through the influence of breastfeeding on the period of postpartum infertility and length of the birth interval. Proper breastfeeding, starting from birth, is important for the physical and mental development of the child. Breast-feeding improves the nutritional status of young children and reduces morbidity and mortality. Breast milk not only provides important nutrients but also protects the infants against infection. Breastfeeding should be initiated immediately after childbirth. The Government of India advocates that infants should be exclusively breast fed for a period of six months of life. Subsequently, adequate and appropriate complementary foods should be added to the infant's diet along with continued breastfeeding in order to provide sufficient nutrients for optimal growth.

6.1 BREASTFEEDING PRACTICES

In the Coverage Evaluation Survey 2009, information on breast-feeding practices was obtained from women who delivered in the past 12 months. Table 6.1 shows the percentage of children born 12 months prior to the survey by initiation of breast-feeding, colostrum feeding, pre-lacteal feeding, and the reason for not feeding colostrum. Data revealed that 33.5 percent of mothers reported that they started breastfeeding the child within one hour of birth, and 24.2 percent began breastfeeding within 1-2 hour after delivery. Only 73.1 percent women started breastfeeding their children within one day of birth. Women from rural areas

(34 percent) were slightly more likely to initiate breastfeeding within one-hour as compared to women from urban areas (32.3 percent).

Data also illustrated that 85.3 percent of women who delivered during the past 12 months fed colostrum to their child. Colostrum feeding was practiced a little more by urban women (87.2 percent) than by women from rural areas (84.6 percent).

Mothers who did not feed colostrum to their child were asked about the reasons for the same. Data revealed that 39.9 percent of mothers did not feed colostrum due to pressure of their relatives followed by misconceptions (17.1 percent) and were advised not to feed colostrum for three days (10.1 percent). Pressure by relatives not to feed colostrum was more reported by rural women (41.5 percent) than by urban women (34.7 percent).

Table 6.1: Percentage of children born during 12 months preceding the survey according to breast feeding practices				
Responses	Rural	Urban	Total	
Initiation of breastfeeding (hours after delivery)				
<1 hours after delivery	34.0	32.3	33.5	
1-2 hours after delivery	24.5	23.4	24.2	
2-23 hours after delivery	14.8	17.2	15.4	
24-72 hours after delivery	23.9	23.9	23.9	
>72 hours after delivery	2.3	2.6	2.3	
Did not breastfeed	0.5	0.6	0.5	
Number of women who gave live births #	12663	9969	22632	
Percent age of mothers who fed colostrum to the child	84.6	87.2	85.3	
Percentage of mothers who gave pre-lacteal feed before starting breastfeeding	11.9	10.2	11.5	
Percentage of mothers who reported giving the child something to drink/other than breast milk within the first 3 days	38.2	35.9	37.6	
Number of women who breastfed the child #	12575	9878	22453	
Source of information for breastfeeding initiation				
ANM/LHV/Health worker (male)	30.1	19.0	26.7	
AWW	23.8	9.1	19.3	
Government doctor	29.1	36.7	31.5	
Private doctor	18.9	39.7	25.3	
Social worker/NGO worker	1.0	1.6	1.2	
Social worker/NGO worker Radio/TV	1.0	1.6 12.5	1.2 11.3	
	-	_		
Radio/TV	10.8	12.5	11.3	
Radio/TV Billboards, Posters at health centre, booklets, newspapers	10.8	12.5 5.2	11.3	
Radio/TV Billboards, Posters at health centre, booklets, newspapers Husband or family members	10.8 3.7 32.1	12.5 5.2 42.0	11.3 4.2 35.1	
Radio/TV Billboards, Posters at health centre, booklets, newspapers Husband or family members ASHA	10.8 3.7 32.1 15.0	12.5 5.2 42.0 2.7	11.3 4.2 35.1 11.2	
Radio/TV Billboards, Posters at health centre, booklets, newspapers Husband or family members ASHA Traditional birth attendant (Dai)	10.8 3.7 32.1 15.0 2.2	12.5 5.2 42.0 2.7 2.1	11.3 4.2 35.1 11.2 2.2	

Breastfeeding Practices and Child Nutrition

Responses	Rural	Urban	Total
Reasons for not feeding colostrum to the child			
Relatives against feeding colostrum	41.5	34.7	39.9
Against religious belief or traditional practice	16.9	17.8	17.1
Colostrum is harmful to the child	9.0	7.4	8.6
Infant may get diarrhoea	1.4	1.2	1.4
Advised not to feed colostrum for 3 days	10.4	9.5	10.1
Others	23.2	31.7	25.3
Number of women who did not feed colostrum to child #	1390	966	2356

Table 6.1 further shows the sources from where these women got information. Data showed that 35.1 percent of the women got information from their husband or other family members, 31.5 percent from government doctors, 26.7 percent from ANM/LHV/HW and 25.3 percent from private

doctors. AWW (19.3 percent), Friends/neighbours (15.4 percent), ASHA (11.2 percent), and radio/ TV (11.3 percent) were other sources from where one could get the information about breastfeeding practices. More rural women (30.1) reported ANM/ LHV/HW as compared to urban women (19.0 percent).

6.2 BREASTFEEDING PRACTICES ACCORDING TO BACKGROUND CHARACTERISTICS

Table 6.2 displays the initiation of breastfeeding and colostrum feeding practices according to selected background characteristics of the mother. The analysis by background characteristics shows that women who belonged to a younger age group, had a higher education, and belonged to higher

assets quintile households, were more likely to start breastfeeding within 24 hours, and within one day of birth, and feed colostrum to the child as compared their counterparts.

Place of delivery and utilisation of ANC services also had an important impact on breast-feeding practices. Early initiation of breastfeeding was more common among children born in an institution and children of mothers who received ANC services (Table 6.2).

Background characteristics	Percentage	Percentage	Percent	Number of
3	who started breastfeeding within one hour of birth	who started breastfeeding within one day of birth	mothers who fed colostrum to the child	mothers #
Mother's age (in years)				
15-19	26.6	66.0	80.0	1140
20-24	34.8	73.7	85.2	8623
25-34	34.8	75.3	86.6	11645
35-44	23.2	65.9	80.0	1017
45+	16.1	32.9	96.8	28
Residence				
Rural	34.0	73.3	84.6	12575
Urban	32.3	72.9	87.2	9878
Mother's education				
No education	27.0	64.5	79.8	5379
<5 years complete	40.2	80.3	86.7	1178
5-7 years complete	36.0	75.3	84.0	3559
8-9 years complete	38.3	80.7	89.2	3835
10-11 years complete	39.4	80.8	88.6	3880
12 or more years complete	34.2	75.7	91.7	4622
Religious Group				
Hinduism	33.9	74.4	85.5	16310
Islam	30.0	67.8	82.0	2900
Sikhism	22.5	68.5	92.1	382
Christianity	53.3	83.2	89.6	2444
Other religious groups	41.0	74.4	96.0	417

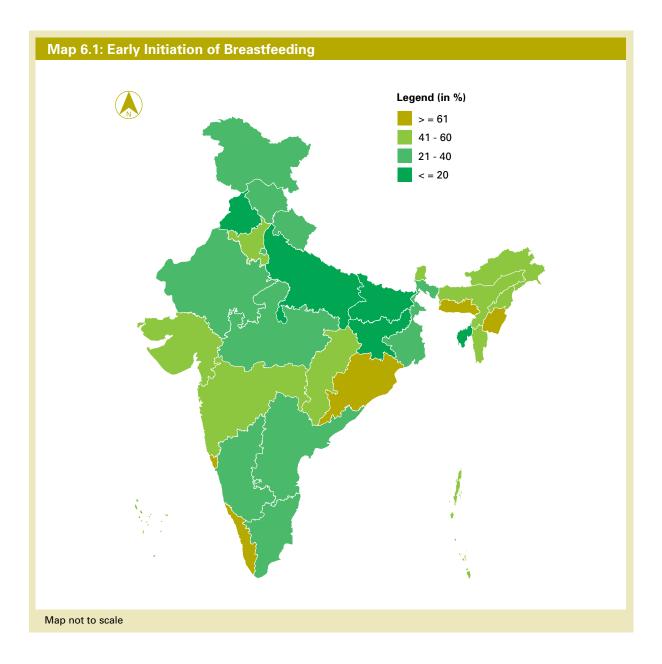
Table 6.2: Contd		D (B1 1 6
Background characteristics	Percentage who started breastfeeding within one hour of birth	Percentage who started breastfeeding within one day of birth	Percent mothers who fed colostrum to the child	Number of mothers #
Social Group				
Scheduled Caste	33.6	73.1	86.1	4073
Scheduled Tribe	37.4	79.2	83.0	3789
Other Backward Classes	31.7	71.8	84.0	7914
Others	35.9	75.1	87.1	6677
BPL status				
Have BPL card	33.2	74.2	83.6	6968
Don't have BPL card	34.0	73.2	86.3	15485
Wealth Index				
Lowest	28.1	66.9	79.8	4494
Second	35.3	75.5	85.1	4498
Middle	38.7	79.3	86.1	4510
Fourth	39.1	76.3	90.4	4478
Highest	32.4	76.2	91.9	4473
Place of Delivery	·			
Institutional Delivery	36.5	77.9	88.2	17289
Home Delivery	26.2	61.7	77.8	5112
Antenatal Care				
Any ANC	34.3	74.6	86.1	21597
No ANC	20.8	47.4	65.7	856
Total	33.5	73.1	85.3	22453

6.3 BREAST FEEDING PRACTICES ACCORDING TO STATES/UTs

Table 6.3 presents the percentage of mothers' breastfeeding the child within one hour and one day of birth and colostrum feeding

practices according to States/UTs. The State level data indicates that colostrum feeding is almost universal in the States of Goa, Manipur, Mizoram, Tripura and Tamil Nadu. The table further shows that the proportion of children who received colostrum was more than 90 percent in 16 States.

Table 6.3a: Percentage of mothers who breastfed the child within one hour or one day of birth and fed colostrum according to States/UT - Total States/UT Percentage Percentage Percentage of Number of who started who started mothers who mothers who breastfeeding fed colostrum breastfed the breastfeeding child# within one within one to the child hour of birth day of birth Andhra Pradesh 27.2 66.6 74.1 892 95.3 Arunachal Pradesh 91.0 546 55.6 Assam 46.1 94.3 94.4 857 Bihar 16.5 50.5 77.4 1057 44.4 87.9 Chhattisgarh 80.0 524 Delhi 28.5 80.4 88.6 578 Goa 66.3 87.2 97.6 540 Gujarat 50.0 74.9 80.0 779 Haryana 51.0 86.5 90.8 629 Himachal Pradesh 38.8 76.3 93.8 555 Jammu & Kashmir 20.4 77.6 93.5 591 Jharkhand 15.6 57.7 84.7 631 Karnataka 38.2 77.5 90.0 767 Kerala 66.0 92.7 96.8 791 Madhya Pradesh 31.2 73.2 85.3 1023 Maharashtra 51.3 77.7 91.2 996 75.1 Manipur 92.4 99.0 626 Meghalaya 67.7 95.8 93.4 567 56.5 Mizoram 90.3 99.3 600 49.4 87.8 84.0 623 Nagaland 63.7 93.9 Orissa 88.6 924 Punjab 16.4 54.6 95.1 552 27.7 Rajasthan 75.5 90.6 900 Sikkim 55.7 93.1 95.4 524 Tamil Nadu 39.1 87.7 96.4 1063 Tripura 7.1 90.2 99.2 585 Uttar Pradesh 15.6 55.4 75.1 1126 Uttarakhand 24.9 60.7 68.2 570 West Bengal 29.2 77.8 87.7 821 UTs combined 42.9 79.1 86.9 1216 Total 33.5 73.1 85.3 22453 # unweighted cases



With regard to initiation of breastfeeding within one hour, data shows that more than 90 percent of mothers in Arunachal Pradesh, Assam, Kerala, Manipur, Meghalaya, Mizoram, Sikkim and Tripura initiated breastfeeding within one day of child birth. Initiation of breastfeeding and colostrum feeding is slightly higher in urban areas than in rural areas across States (Table 6.3b & c).

Table 6.3b: Percentage of mothers who breastfed the child within one hour or one day of birth and fed colostrum according to States/UT - Rural States/UT Percentage Percentage Percentage of Number of who started who started mothers who mothers who breastfeeding fed colostrum breastfed the breastfeeding child# within one within one to the child hour of birth day of birth Andhra Pradesh 26.5 68.9 73.7 544 Arunachal Pradesh 55.1 91.9 95.6 332 46.7 94.5 94.5 523 Assam 77.6 Bihar 17.0 49.9 637 Chhattisgarh 44.3 81.0 88.2 267 Delhi 28.5 92.2 85.1 58 Goa 70.4 91.0 98.6 265 56.1 76.4 80.7 457 Gujarat Haryana 54.6 87.9 92.2 336 Himachal Pradesh 38.9 76.9 93.7 283 Jammu & Kashmir 22.6 76.7 92.1 312 Jharkhand 16.6 54.4 83.3 367 Karnataka 39.0 78.1 89.6 450 Kerala 66.8 92.8 96.1 476 Madhya Pradesh 32.0 73.0 84.1 612 Maharashtra 58.0 80.8 90.8 599 Manipur 75.0 91.6 98.8 363 Meghalaya 66.4 95.9 93.0 334 Mizoram 63.8 92.3 99.3 348 49.0 88.4 83.6 349 Nagaland Orissa 64.9 88.6 93.8 577 Punjab 15.5 55.2 94.0 301 Rajasthan 28.4 75.3 89.1 550 Sikkim 58.6 94.2 95.8 321 Tamil Nadu 42.9 97.2 644 90.6 Tripura 7.3 92.3 99.5 355 Uttar Pradesh 15.1 75.1 56.2 681 Uttarakhand 27.1 63.6 64.8 287 West Bengal 30.5 81.0 87.9 509 UTs combined 45.5 78.3 87.9 438 34.0 84.6 12575 Total 73.3 # unweighted cases

Table 6.3c: Percentage of mothers who breastfed the child within one hour or one day of birth and fed colostrum according to States/UT - Urban						
States/UT	Percentage who started breastfeeding within one hour of birth)	Percentage who started breastfeeding within one day of birth	Percentage of mothers who fed colostrum to the child	Number of mothers who breastfed the child #		
Andhra Pradesh	29.1	60.4	75.4	348		
Arunachal Pradesh	57.3	87.4	94.3	214		
Assam	41.4	93.2	94.2	334		
Bihar	12.5	55.8	75.2	420		
Chhattisgarh	44.6	75.7	86.6	257		
Delhi	28.5	79.6	88.9	520		
Goa	62.0	83.4	96.6	275		
Gujarat	39.8	72.3	78.9	322		
Haryana	41.9	82.9	87.2	293		
Himachal Pradesh	38.1	71.3	94.4	272		
Jammu & Kashmir	13.5	80.4	98.0	279		
Jharkhand	12.3	69.3	89.5	264		
Karnataka	36.5	76.3	90.8	317		
Kerala	63.9	92.5	98.6	315		
Madhya Pradesh	29.0	73.7	88.4	411		
Maharashtra	42.2	73.5	91.7	397		
Manipur	75.4	94.7	99.7	263		
Meghalaya	72.7	95.4	95.2	233		
Mizoram	49.1	88.2	99.3	252		
Nagaland	51.4	85.1	85.9	274		
Orissa	56.5	89.0	94.8	347		
Punjab	18.1	53.4	97.1	251		
Rajasthan	25.4	75.9	95.6	350		
Sikkim	32.9	84.1	91.8	203		
Tamil Nadu	34.3	84.0	95.3	419		
Tripura	6.0	79.5	97.9	230		
Uttar Pradesh	17.6	52.3	75.1	445		
Uttarakhand	18.8	52.4	78	283		
West Bengal	25.9	69.5	87.2	312		
UTs combined	40.1	80.5	87.7	778		
Total	32.3	72.9	87.2	9878		

unweighted cases

6.4 CURRENT STATUS OF BREASTFEEDING

Mothers who delivered during the last 12 months preceding the survey as well as mothers of children aged between 12-23 months were asked about the current breastfeeding and exclusive

breastfeeding (breastfeeding the child without giving anything including water) status of the child. Table 6.4 shows that exclusive breastfeeding decreased with increase in the age of the child. Majority (81 percent) of children below two months were exclusively breastfed. The proportion of children exclusively breastfed decreased rapidly with the increase in the age of the child.

Age in	Never	Percentage	В	Number of			
months	breastfed	exclusively breastfeeding till 6 months of age	Water only	Other milk	Other supplements	Others	children # (n)
<2	0.2	81.0	5.4	9.0	1.1	3.4	2038
2-3	0.1	75.5	7.6	13.1	1.7	1.9	4126
4-5	0.7	56.8	12.7	20.4	7.6	1.9	3829
6-8	0.5	36.6	17.4	24.8	18.8	2.0	5556
9-11	0.5	33.8	17.5	27.4	19.2	1.6	6978
18-23	5.2	34.8	18.4	20.3	17.4	4.1	10483
<4	0.1	77.3	6.9	11.8	1.5	2.4	6164
<6	0.3	69.9	9.0	14.9	3.7	2.2	9993
6-9	0.6	36.8	16.6	24.7	19.4	1.9	7691

unweighted cases

Table 6.5 shows that the median duration of exclusive breastfeeding practiced in India was 3.8 months. The median duration of exclusive breastfeeding was more or less the same across

all the States except in Delhi, Gujarat, Jammu & Kashmir, Nagaland, Sikkim and Tripura where median duration of exclusive breastfeeding was more than the national average.

Table 6.5: Median duration of exclusive breastfeeding to children born to mothers who delivered during 12 months preceding the survey age below 12 months

States/UT	Median duration of exclusive breastfeeding (in months)	Number of children below 12 months of age #
Andhra Pradesh	3.96	893
Arunachal Pradesh	4.87	556
Assam	3.81	863
Bihar	3.61	1058
Chhattisgarh	3.89	525
Delhi	5.5	580
Goa	3.77	541
Gujarat	4.78	774
Haryana	3.91	625
Himachal Pradesh	3.68	555
Jammu & Kashmir	4.48	611
Jharkhand	3.57	633
Karnataka	3.98	766
Kerala	3.58	795
Madhya Pradesh	3.99	1018
Maharashtra	3.56	996
Manipur	3.36	628
Meghalaya	3.93	573
Mizoram	3.74	608
Nagaland	4.88	627
Orissa	3.81	920
Punjab	3.79	562
Rajasthan	3.49	902
Sikkim	4.56	526
Tamil Nadu	3.71	1064
Tripura	4.11	584
Uttar Pradesh	3.21	1123
Uttarakhand	3.98	573
West Bengal	3.07	824
UT Combined	4.19	1224
TOTAL	3.85	22527

unweighted cases

6.5 COMPLEMENTARY FEEDING PRACTICES

The timing and type of complementary foods introduced in an infant's diet also have significant effect on the child's nutritional status. Mothers who delivered during 12 months preceding the survey as well as mothers of children age 12-23 months were asked about the type of complementary feeding given during the first six months. It is

recommended that complementary feeding should start after 6 months of age. When asked about the type of feed given during first 6 months, multiple responses were received. Analysis of the data showed that majority of mothers inadvertently gave water (47.6 percent), other milk (30.2 percent) and other food (19.5 percent) before 6 months of age (Table 6.6). There was no significant difference between practices of mothers from rural or urban areas regarding complementary feeding before 6 months of age.

Table 6.6: Percentage of children below 2 year of age by the type of feeds received during first 6 months of life according to background characteristics						
Background Characteristics	Breast milk	Water	Other Milk	Other Food	Number of surviving children less than 2 years of age # (n)	
Sex of child						
Male	93.8	55.4	32.2	19.7	11651	
Female	92.8	54.1	32.4	18.9	9860	
Residence						
Rural	94.7	47.2	29.9	14.0	24554	
Urban	90	48.6	30.9	19.9	19320	
Mother's education						
No education	94.8	50.0	29.7	11.2	10694	
<5 years complete	94.2	49.6	32.4	17.0	2368	
5-7 years complete	93.5	48.5	30.2	18.3	6924	
8-9 years complete	93.4	47.2	30.7	16.9	7462	
10-11 years complete	91.9	45.0	29.4	20.1	7607	
12 or more years complete	90.5	42.7	30.7	17.5	8819	
Caste/Tribe				<u>'</u>		
Scheduled Caste	94.9	47.5	28.1	15.5	7866	
Scheduled Tribe	93.4	39.7	22.2	15.6	7435	
Other Backward Classes	91.1	50.0	31.1	15.9	15377	
Others	95.3	46.2	32.8	15.4	13196	
BPL status						
Have BPL card	94.7	45.3	27.4	17.9	13765	
Don't have BPL card	92.6	48.9	31.9	14.3	30109	

Table 6.6: Contd								
Background Characteristics	Breast milk	Water	Other Milk	Other Food	Number of surviving children less than 2 years of age # (n)			
Wealth Index								
Lowest	95.5	50.5	29.3	10.7	8818			
Second	93.3	45.1	28.4	17.3	8793			
Middle	93	46.8	29.5	17.8	8790			
Fourth	90.5	47.1	31.3	19.1	8742			
Highest	91.8	45.8	34.8	18.5	8731			
Total	93.4	47.6	30.2	15.7	43874			

The data further shows that across the States there were no significant differences in giving different types of complementary food to the child. Early complementary feeding such as other milk or

food before 6 months of age was practiced on significantly higher levels in States like Arunachal Pradesh, Delhi, Nagaland, Haryana, Uttarakhand, Karnataka, Goa, West Bengal and Chhattisgarh.

Table 6.7: Percentage of children by the type of feeds received during first 6 months of life according to States and UTs							
States/UT	Breast milk	Water	Other Milk	Other Food	Number of surviving children less than 2 years of age # (n)		
Andhra Pradesh	97.6	31.3	12.6	32.6	1751		
Arunachal Pradesh	97.6	36.0	36.6	25.3	1081		
Assam	99.3	28.1	22.8	14.5	1723		
Bihar	99.1	56.6	34.6	6.0	2075		
Chhattisgarh	97.7	37.7	22.3	31.9	1036		
Delhi	90.9	63.0	64.4	34.1	1138		
Goa	98.0	62.4	35.0	21.2	1057		
Gujarat	86.5	41.9	23.6	10.3	1529		
Haryana	98.7	55.5	54.4	18.3	1241		
Himachal Pradesh	96.9	18.9	26.7	7.0	1052		
Jammu & Kashmir	98.5	12.0	12.9	12.1	1150		
Jharkhand	98.3	47.2	25.5	9.2	1232		

Table 6.7: Contd					
States/UT	Breast milk	Water	Other Milk	Other Food	Number of surviving children less than 2 years of age # (n)
Karnataka	95.0	37.8	33.2	27.3	1448
Kerala	98.1	35.4	15.8	23.9	1479
Madhya Pradesh	98.5	46.5	30.0	19.6	2036
Maharashtra	98.6	60.2	24.9	20.0	1982
Manipur	99.9	26.0	21.6	25.9	1204
Meghalaya	99.0	44.5	24.9	26.6	1124
Mizoram	97.8	36.4	20.5	32.4	1116
Nagaland	96.0	56.0	40.1	37.7	1251
Orissa	96.6	42.9	17.5	18.1	1801
Punjab	96.2	45.8	27.2	3.8	1085
Rajasthan	93.3	53.0	31.3	7.0	1716
Sikkim	99.6	29.6	25.4	10.5	1028
Tamil Nadu	68.5	35.7	28.7	18.4	2065
Tripura	98.6	19.1	30.8	9.6	1177
Uttar Pradesh	96.1	57.1	38.6	6.1	2196
Uttarakhand	94.5	45.5	51.2	20.2	1116
West Bengal	98.5	55.0	40.5	13.9	1616
UTs combined	94.1	48.4	34.3	20.3	2369
Total	93.4	47.6	30.2	15.7	43874

unweighted cases

At six months of age, the introduction of complementary food is important for meeting the protein, energy, and micronutrient needs of the children. Table 6.8 shows that 40.7 percent of mothers started giving water, 28.1 percent gave other animal milk and 12.2 percent of the mothers had started with other supplements to the child before 6 months of age. About 37.9 percent of the

mothers started giving other fluids such as juice to the child, 12.9 percent had started with semi-solid food and 2.2 percent with solid diet. This indicates complementary feeding was started early for children below six months of age by a significant proportion of mothers. However, very correctly, 62.6 percent of mothers started semi-solids and 41.8 percent gave solid food to their child after 6 months of age.

Type of feed given during first 6 months Breast milk Water Other milk Other food supplements Others Age of Starting i. Other fluids < 6 months 6+ months Not started so far ii. Semi-solid food < 6 months Not started so far iii. Solid food < 6 months Not started so far iii. Not started so far iii. Solid food < 6 months Not started so far iii. Solid food < 10 months Not started so far iii. Solid food < 10 months Not started so far Iii. Solid food < 10 months Not started so far Number of children below 1 year of age # Type of liquids given during the previous one day Plain water Commercially produced infant food	96.7 40.0 27.5 11.2 1.9 37.9 44.4 17.8	96.0 42.5 29.8 14.8 2.2 38.0 46.2	96.5 40.7 28.1 12.2 2.0
Water Other milk Other food supplements Others Age of Starting i. Other fluids <-6 months 6+ months Not started so far ii. Semi-solid food <-6 months Not started so far iii. Solid food <-6 months Not started so far iii. Solid food -7 months Not started so far iii. Solid food -8 months -9 months -9 months Not started so far Number of children below 1 year of age # Type of liquids given during the previous one day Plain water	40.0 27.5 11.2 1.9 37.9 44.4	42.5 29.8 14.8 2.2	40.7 28.1 12.2 2.0
Other milk Other food supplements Others Age of Starting i. Other fluids <6 months 6+ months Not started so far ii. Semi-solid food <6 months Not started so far iii. Solid food <6 months Not started so far iii. Solid food <7 months Not started so far iii. Solid food 10 months 10 months 11 months 12 months 13 months 14 months 15 months 16 months 17 months 18 months 19 months 19 months 10 months 10 months 11 months 12 months 13 months 14 months 15 months 16 months 17 months 18 months 19 months 19 months 10 months 10 months 10 months 10 months 11 months 12 months 13 months 14 months 15 months 16 months 17 months 18 months 19 months 19 months 10 mon	27.5 11.2 1.9 37.9 44.4	29.8 14.8 2.2 38.0	28.1 12.2 2.0
Other food supplements Others Age of Starting i. Other fluids < 6 months 6+ months Not started so far ii. Semi-solid food < 6 months 6+ months Not started so far iii. Solid food < 6 months Not started so far iii. Solid food	11.2 1.9 37.9 44.4	14.8 2.2 38.0	12.2
Others Age of Starting i. Other fluids < 6 months 6+ months Not started so far ii. Semi-solid food <6 months Not started so far iii. Solid food <6 months Not started so far iii. Solid food <food <fo<="" <food="" td=""><td>1.9 37.9 44.4</td><td>38.0</td><td>2.0</td></food>	1.9 37.9 44.4	38.0	2.0
Age of Starting i. Other fluids <6 months 6+ months Not started so far ii. Semi-solid food <6 months 6+ months Not started so far iii. Solid food <6 months Not started so far iii. Solid food <76 months Not started so far iii. Solid food <76 months Not started so far Ive months Phain water Ive of liquids given during the previous one day Plain water	37.9 44.4	38.0	
i. Other fluids <pre><6 months</pre> 6+ months Not started so far ii. Semi-solid food <6 months 6+ months Not started so far iii. Solid food <6 months 6-9 months 6-9 months 9+ months Not started so far Number of children below 1 year of age # Type of liquids given during the previous one day Plain water	44.4		37.9
<6 months 6+ months Not started so far ii. Semi-solid food <6 months 6+ months Not started so far iii. Solid food <6 months 6-9 months 6-9 months 9+ months Not started so far Number of children below 1 year of age # Type of liquids given during the previous one day Plain water	44.4		37.9
6+ months Not started so far ii. Semi-solid food <6 months 6+ months Not started so far iii. Solid food <6 months 6-9 months 9+ months Not started so far Number of children below 1 year of age # Type of liquids given during the previous one day Plain water	44.4		37.9
Not started so far ii. Semi-solid food <6 months 6+ months Not started so far iii. Solid food <6 months 6-9 months 9+ months Not started so far Number of children below 1 year of age # Type of liquids given during the previous one day Plain water		46.2	
ii. Semi-solid food <6 months 6+ months Not started so far iii. Solid food <6 months 6-9 months 9+ months Not started so far Number of children below 1 year of age # Type of liquids given during the previous one day Plain water	17.8	1	44.9
<6 months 6+ months Not started so far iii. Solid food <6 months 6-9 months 9+ months Not started so far Number of children below 1 year of age # Type of liquids given during the previous one day Plain water		15.9	17.2
6+ months Not started so far iii. Solid food <6 months 6-9 months 9+ months Not started so far Number of children below 1 year of age # Type of liquids given during the previous one day Plain water			
Not started so far iii. Solid food <6 months 6-9 months 9+ months Not started so far Number of children below 1 year of age # Type of liquids given during the previous one day Plain water	12.3	14.5	12.9
iii. Solid food <6 months 6-9 months 9+ months Not started so far Number of children below 1 year of age # Type of liquids given during the previous one day Plain water	61.6	64.9	62.6
<6 months 6-9 months 9+ months Not started so far Number of children below 1 year of age # Type of liquids given during the previous one day Plain water	26.0	20.7	24.5
6-9 months 9+ months Not started so far Number of children below 1 year of age # Type of liquids given during the previous one day Plain water			
9+ months Not started so far Number of children below 1 year of age # Type of liquids given during the previous one day Plain water	2.0	2.6	2.2
Not started so far Number of children below 1 year of age # Type of liquids given during the previous one day Plain water	40.2	45.8	41.8
Number of children below 1 year of age # Type of liquids given during the previous one day Plain water	3.9	4.2	4.0
Type of liquids given during the previous one day Plain water	53.8	47.4	52.0
Plain water	12518	9845	22363
Commercially produced infant food	89.0	90.6	89.5
Commence and produced many roots	42.5	51.7	45.1
Any other milk such as tinned, powdered or animal milk	54.5	59.6	56.0
Fruit juice	7.7	12.2	9.0
Tea/coffee	21.3	19.5	20.8
Other liquids	15.1	15.2	15.1

6.6 VITAMIN A COVERAGE

Vitamin A deficiency is a common nutritional deficiency disorder throughout the world. The National Programme targets children under age five years and administers oral doses of Vitamin

A every six months starting at nine months of age. Mothers of children aged 12-23 months were asked whether their children ever received a dose of Vitamin A. Those who said that their child had received at least one dose of Vitamin A were asked how long ago it was given. Table 6.9 shows the percentage of children aged

12-23 months who received at least one dose of Vitamin A and who received a dose of Vitamin A within the past six months according to selected background characteristics.

The table further shows that 65.4 percent of children age 12-23 months received at least one dose of Vitamin A, and 59.4 percent received it within the past six months. Proportionately more children of mothers aged 20-24 years (69.9 percent) received at least one dose of Vitamin A than that of 35-44 year-old mothers (48.9 percent).

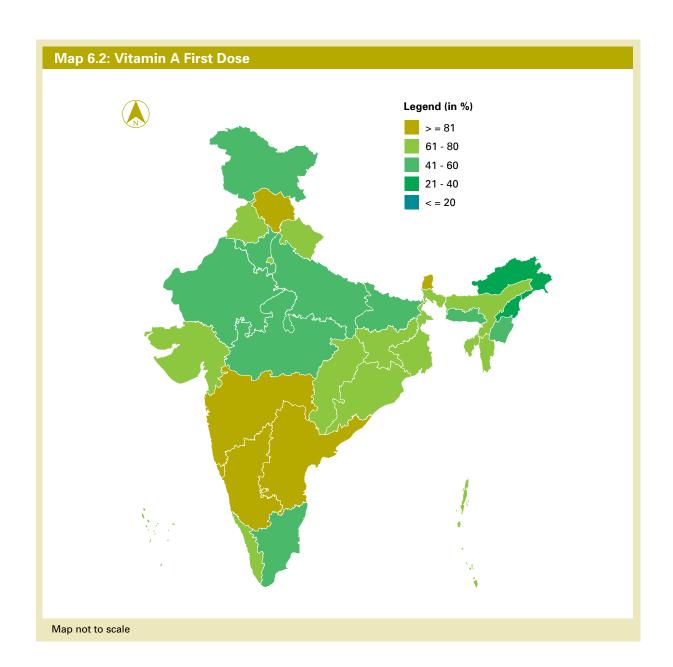
Children living in urban areas, children of more educated mothers and children of higher wealth quintile households are more likely than other children to receive Vitamin A supplementation (Table 6.9). Comparatively lesser children of birth order 4 or more (47.4 percent) received at least one dose of Vitamin A than first- (71.3 percent), second- (67.9 percent) and third- (60.2 percent) order births. Similarly, lower percentage of children from scheduled caste (64.7 percent), scheduled tribe (59.4 percent) and other backward classes (62.7 percent) received at least one dose of Vitamin A than that of other castes (71.5 percent).

Background Characteristics	First dose of Vitamin A	Received at least one dose of Vitamin A	Received one dose of Vitamin A during past six months	No. of children in 12-23 months age #
Mother's Age (in Years)				
15-19	67.1	67.7	63.2	591
20-24	68.8	69.9	64.0	7541
25-34	62.3	64.0	57.6	12713
35-44	47.6	48.9	44.3	1456
45+	58.1	60.1	55.1	297
Sex of Child				
Male	64.3	65.6	59.8	12217
Female	63.7	65.2	59.1	10387
Birth Order				
1	70.0	71.3	65.6	9230
2	66.3	67.9	62.2	8157
3	58.8	60.2	53.6	3032
4+	46.3	47.4	40.6	2179
Residence				
Rural	63.2	64.6	58.3	12635
Urban	66.0	67.4	62.5	9969
Mother's Education				
No education	50.6	52.1	46.5	5732
<5 years complete	65.3	66.8	59.7	1258
5-7 years complete	69.0	71.0	62.7	3542
8-9 years complete	72.7	74.1	68.1	3760

Background Characteristics	First dose of Vitamin A	Received at least one dose of Vitamin A	Received one dose of Vitamin A during past six months	No. of children in 12-23 months age #
10-11 years complete	75.6	76.8	71.2	3915
12 or more years complete	71.6	72.5	68.6	4397
Religious group				
Hinduism	64.4	65.9	59.8	16296
Islam	60.2	61.1	55.4	2929
Sikhism	72.0	72.5	71.0	416
Christianity	62.2	64.0	59.2	2535
Other religious group	73.3	75.6	69.0	428
Social group				
Scheduled Caste	63.7	64.7	59.5	3972
Scheduled Tribe	57.1	59.4	51.6	3929
Other backward Classes	61.2	62.7	57.2	7866
Others	70.1	71.5	64.7	6837
BPL status				
Have BPL card	65.5	67.1	60.4	7146
Don't have BPL card	63.1	64.4	58.9	15458
Wealth Index				
Lowest	53.4	54.9	49.3	4520
Second	66.8	68.3	61.7	4522
Middle	69.9	71.0	63.8	4520
Fourth	68.9	70.7	65.1	4522
Highest	71.8	72.9	68.1	4520
Total	64.0	65.4	59.4	22604

Table 6.10 shows the State-wise percentage of children who received the first dose of Vitamin A, at least one dose of Vitamin A, and at least one dose of Vitamin A supplement within 6 months preceding the survey. The percentage of children who received at least one dose of Vitamin A supplementation ranged from 28.2 percent in Nagaland to 92.7 percent in Himachal Pradesh. The percentage of children receiving at least

one dose of Vitamin A was less than 50 percent in Arunachal Pradesh (43.1 percent), Bihar (49.4 percent), Madhya Pradesh (48.8 percent), Manipur (48.9 percent) and Uttar Pradesh (49.1 percent). The States with high rates of at least one dose of Vitamin A supplement were Andhra Pradesh (84.7 percent), Goa (87.8 percent), Sikkim (90.1 percent), Karnataka (87.1 percent) and Maharashtra (84.5 percent).



States/UT	First dose of	Received at	Received	Number of
	Vitamin A	least one dose	one dose of	children of
		of Vitamin A	Vitamin A	12-23 months
			during past six months	age #
Andhra Pradesh	84.4	84.7	78.4	887
Arunachal Pradesh	40.0	43.1	38.4	585
Assam	69.3	71.1	65.5	875
Bihar	49.0	49.4	45.1	1055
Chhattisgarh	62.1	67.3	56.2	522
Delhi	65.2	67.7	63.3	585
Goa	87.8	87.8	70.6	534
Gujarat	66.9	69.3	57.5	786
Haryana	55.9	58.1	50.8	634
Himachal Pradesh	87.8	92.7	79.0	547
Jammu & Kashmir	59.0	61.6	54.9	620
Jharkhand	63.3	63.3	58.7	635
Karnataka	85.5	87.1	80.6	751
Kerala	66.8	68.2	65.9	760
Madhya Pradesh	45.1	48.8	44.7	1040
Maharashtra	82.6	84.5	68.9	1020
Manipur	47.9	48.0	46.7	630
Meghalaya	58.1	58.8	53.2	586
Mizoram	74.4	74.6	73.9	624
Nagaland	28.2	29.9	25.4	641
Orissa	69.7	71.0	65.3	889
Punjab	73.1	73.4	71.7	570
Rajasthan	59.9	60.5	57.2	894
Sikkim	90.1	82.6	88.7	404
Tamil Nadu	52.6	56.6	53.9	1068
Tripura	68.0	68.0	65.8	603
Uttar Pradesh	48.9	49.1	44.4	1112
Uttarakhand	60.8	60.8	59.6	576
West Bengal	73.4	74.1	71.9	827
UTs combined	67.8	71.4	65.8	1213
Total	64.0	65.4	59.4	22604

6.7 USE OF IODIZED SALT

Salt was tested for iodine content by the interviewers at the household level. Overall, 71.1 percent of the households were using cooking salt which was found to be iodized at the recommended level of 15 ppm¹² or more. Only 9.3 percent of the households used salt that was not iodized at all and 19.3 percent used salt that was iodized inadequately (<15 ppm). Rural-urban differential in salt iodization was pronounced. Around 83.2 percent of households in urban areas used salt with 15 ppm or more

iodine content compared with 66.1 percent of households in rural areas. The proportion of households using non-iodized salt was more in rural areas (11.0 percent) as compared to their urban counterparts (5.1 percent).

The use of iodized salt was high in north-eastern States and in States of Delhi, Goa, Haryana, Himachal Pradesh, J&K, Punjab and all UTs ranging from 80 percent to 94 percent. In the States of Karnataka, Andhra Pradesh, Tamil Nadu, Madhya Pradesh, Uttar Pradesh, Orissa, and Jharkhand use of non-iodized salt seemed more common compared to other States (Table 6.11).

according to States and I	Not	Inadequately	lodised	Percentage	Number of
States, 61	lodised (0 ppm *)	lodised (0.1 - 15 ppm *)	(≥15 ppm *)	of sampled Households where salt was tested	Households # (n)
Andhra Pradesh	20.3	16.0	63.6	99.9	1763
Arunachal Pradesh	2.3	17.4	80.2	99.9	1127
Assam	5.9	19.5	74.6	100.0	1733
Bihar	9.9	35.1	54.4	99.5	2081
Chhattisgarh	9.2	59.2	31.6	100.0	1054
Delhi	1.6	5.5	92.6	99.7	1174
Goa	3.8	10.3	85.9	100.0	1077
Gujarat	6.1	22.3	71.4	99.9	1584
Haryana	0.3	13.0	86.7	100.0	1263
Himachal Pradesh	0.7	7.7	91.5	100.0	1102
Jammu & Kashmir	4.3	11.2	83.0	98.4	1238
Jharkhand	14.4	43.5	41.4	99.3	1262
Karnataka	40.1	23.9	35.5	99.6	1496
Kerala	2.7	7.3	89.2	99.2	1530
Madhya Pradesh	18.5	18.1	63.0	99.6	2086
Maharashtra	8.4	14.0	77.4	99.8	2024
Manipur	0.3	1.2	98.3	99.9	1224
Meghalaya	0.5	1.5	98.0	100.0	1159

¹² ppm = parts per million

Table 6.11: Contd					
States/UT	Not lodised (0 ppm *)	Inadequately lodised (0.1 - 15 ppm *)	lodised (≥15 ppm *)	Percentage of sampled Households where salt was tested	Number of Households # (n)
Mizoram	1.1	3.7	94.9	99.8	1222
Nagaland	0.3	2.4	97.1	99.8	1278
Orissa	15.5	20.4	64.0	99.9	1791
Punjab	6.0	8.4	85.3	99.6	1149
Rajasthan	9.9	32.2	57.0	99.2	1796
Sikkim	0.7	7.3	92.0	100.0	1064
Tamil Nadu	20.6	21.6	57.5	99.7	2152
Tripura	1.5	4.4	94.1	100.0	1195
Uttar Pradesh	17.6	39.6	42.5	99.7	2217
Uttarakhand	9.7	28.4	61.6	99.8	1124
West Bengal	8.2	40.6	50.7	99.6	1649
UTs combined	6.1	13.0	80.5	99.6	2444
Rural	11.0	22.6	66.1	99.7	25170
Urban	5.1	11.4	83.2	99.7	19888
Total	9.3	19.3	71.1	99.7	45058

^{*} ppm = parts per million # unweighted cases

Chapter 7

Child Morbidity and Care Seeking Practices

Diarrhoea and Acute Respiratory Infection (ARI) are the leading causes of childhood morbidity and mortality. Early diagnosis and treatment can prevent a large proportion of diarrhoea and ARI related deaths. This chapter presents data about knowledge of the mother, and prevalence and management practices of diarrhoea and ARI for children aged less than two years. The information was collected from 45,140 mothers/care givers of children below 2 years.

7.1 MANAGEMENT OF DIARRHOEA

Diarrhoea is one of the major causes of death among children under five years of age. Deaths from acute diarrhoea are most often caused by dehydration due to loss of water and electrolytes from the body. Nearly all dehydration-related deaths can be prevented by prompt administration of rehydration solutions. Deaths from diarrhoea constitute a significant proportion of all child deaths. The Government of India launched the Oral Rehydration Therapy (ORT) programme as one of its priority activities for child survival. The major goal of this programme is to increase awareness among mothers and communities about the causes and treatment of diarrhoea. Oral Rehydration Salt (ORS) packets are made available free of cost and mothers are taught how to use them. During this survey, mothers of children below 2 years were asked a series of questions about episodes of diarrhoea suffered by their children in the two weeks before

the survey, feeding practices during diarrhoea, the treatment of diarrhoea and their knowledge and use of ORS.

Table 7.1 shows that 14.3 percent of children suffered from diarrhoea during the 14 days preceding the survey. As there are seasonal variations in the prevalence of diarrhoea, this percentage can't be assumed to reflect the situation throughout the year. Prevalence of diarrhoea was high among children aged 6-11 months (17.2 percent) and 12-23 months

(15.7 percent) as compared to below 6-month-old children (13.6 percent). As expected, mother's education, wealth index and type of sanitation facility had an influence on the prevalence of diarrhoea. Only 12.9 percent children of mothers who had higher secondary or more education had diarrhoea as compared to children of illiterate mothers (16.5 percent). Similarly, prevalence of diarrhoea was lower among children belonging to higher wealth quintile households (12.3 percent) than lowest wealth quintile households (16.8 percent).

Background characteristics	Percentage of children with diarrhoea	Number of surviving children under 2 years # (n)		
Child's Age (in months)				
0-5	13.6	9985		
6-11	17.2	12527		
12-23	15.7	22598		
Gender *				
Male	16.5	12212 *		
Female	14.7	10386 *		
Residence				
Rural	15.3	25236		
Urban	16.3	19904		
Mother's Age (in years)				
<20	16.1	1734		
20-24	15.5	16209		
25-34	15.5	24389		
35-44	16.4	2480		
45+	13.0	328		
Mother's Education				
No education	16.5	11140		
<5 years complete	17.5	2434		
5-7 years complete	15.9	7107		
8-9 years complete	15.2	7606		
10-11 years complete	15.0	7800		
12 or more years complete	12.9	9053		

Background characteristics	Percentage of children with diarrhoea	Number of surviving children under 2 years # (n)
Religious Group	with dialinoea	ciliaren unael 2 years # (ii)
Hinduism	14.7	32640
Islam	20.0	5851
Sikhism	14.0	803
Christianity	13.6	4948
Others	25.5	848
Social Group		
Scheduled Caste	15.4	8050
Scheduled Tribe	14.3	7738
Other backward Classes	16.2	15798
Others	15.2	13554
BPL Status		
Have BPL card	16.4	14135
Don't have BPL card	15.1	31005
Wealth Index		
Lowest	16.8	9012
Second	16.6	9035
Middle	16.0	9050
Fourth	14.0	9015
Highest	12.3	9028
Drinking Water Source		
Improved	15.7	41796
Not-improved	13.9	3344
Sanitation facility		
Improved and not shared	14.1	26538
Not Improved	16.7	18602
Total	15.5	45140

^{*} Data for children aged 12-23 months

Prevalence of diarrhoea varied considerably between States/UTs. Table 7.2 shows that prevalence of diarrhoea during 2 weeks preceding the survey ranged from 4.8 percent in Sikkim and 5.0 percent in Himachal Pradesh to 26.2 percent in Karnataka.

[#] unweighted cases

Table 7.2: Percentage of children under 2 years who had diarrhoea during two weeks preceding the survey by States/UT

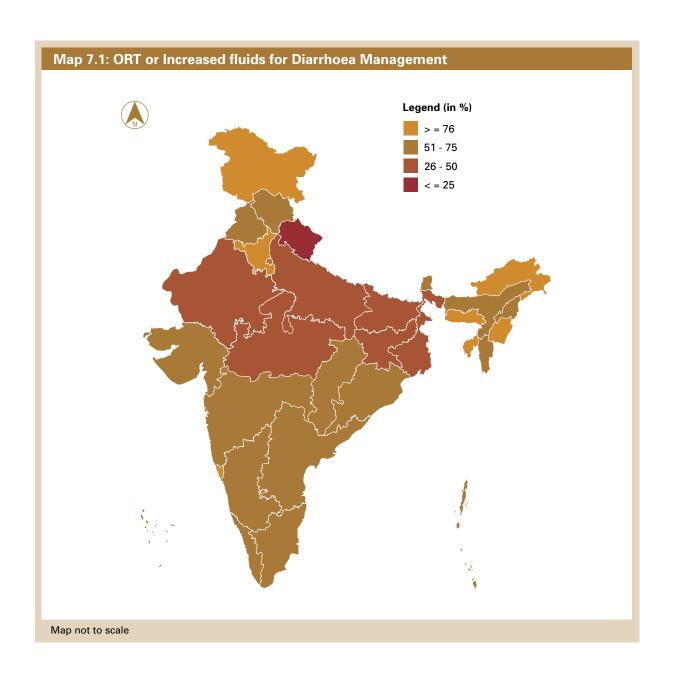
States/UT	Percentage of children with diarrhoea	Number of surviving children under 2 years # (n)
Andhra Pradesh	14.2	1780
Arunachal Pradesh	10.1	1141
Assam	7.8	1738
Bihar	17.8	2114
Chhattisgarh	13.7	1047
Delhi	25.5	1164
Goa	11.1	1075
Gujarat	24.4	1560
Haryana	20.0	1259
Himachal Pradesh	5.0	1102
Jammu & Kashmir	18.3	1231
Jharkhand	13.6	1268
Karnataka	26.2	1518
Kerala	5.1	1572
Madhya Pradesh	20.6	2062
Maharashtra	17.9	2017
Manipur	15.3	1258
Meghalaya	9.5	1159
Mizoram	15.8	1231
Nagaland	11.8	1268
Orissa	9.3	1809
Punjab	12.2	1132
Rajasthan	15.5	1796
Sikkim	4.8	1061
Tamil Nadu	15.3	2131
Tripura	13.1	1187
Uttar Pradesh	14.4	2236
Uttarakhand	8.0	1150
West Bengal	8.6	1652
UTs combined	14.4	2422
Total	15.5	45140

unweighted cases

7.2 TREATMENT- SEEKING BEHAVIOUR FOR DIARRHOEA

Table 7.3 shows that 76.1 percent of the children who suffered from diarrhoea during 2 weeks preceding the survey received some advice or treatment. large proportion of them (48.4 percent) received advice or treatment from a private health facility or provider. Another 20.9 percent received advice/treatment from a government health facility or provider. The table further shows that 42.8 percent of the mothers whose children suffered from diarrhoea during the two weeks preceding the survey gave ORS to their children. More urban mothers (52.1 percent) gave ORS to their children than rural mothers (39 percent). The use of ORS increased with the rise in education level of the mother and increase in wealth quintile. For instance, 32.5 percent of illiterate mothers reportedly gave ORS to their children during diarrhoea. This percentage increased to 60.5 percent among mothers educated up to at least senior secondary. Similarly the use of ORS during diarrhoea was reported in 29.7 percent of children from lowest quintile households increasing to 60.1 percent among children from highest quintile households. Children from urban areas, children of younger mothers, and children belonging to households with higher wealth quintiles were more likely to be taken to the health facility/ provider for treatment of diarrhoea (Table 7.3).

The percentage of children who reported receiving some treatment/advice for diarrhoea varied among States. Only 34.8 percent mothers reported seeking advice/treatment in Nagaland. The States where more than 80 percent of the mothers received advice/treatment were - Chhattisgarh, Goa, Himachal Pradesh, Kerala, Maharashtra, Meghalaya, Punjab, Rajasthan, Tripura and Uttarakhand (Table 7.4). The table further shows that use of ORS also varied widely among States. Use of ORS for treatment of diarrhoea was low in Bihar (22.4 percent), Jharkhand (21.6 percent), Uttar Pradesh (14.3 percent) and Uttarakhand (13.4 percent). On the other hand, in Arunachal Pradesh, Delhi, Goa, Haryana, Jammu & Kashmir, Manipur, Meghalaya, and Tripura more than 70 percent of mothers used ORS for the treatment of diarrhoea.



Contractements Cont	Percentage of children who Percentage of	ider taken to	Oral rehydra	ation therapy	' 1				
The control of the	Percentage Characteristics	ider			Þİ			1u	esı J
Page 1984 1996 61.9 17.2 46.1 4.2 30.0 3.0 31.7 9.1 38.2 56.0	18.4 796 61.9 17.2 46.1	brov		Either gruel	Increased flu		iod gaibuloni	lemtsert oM	to radmuM y S> naildido y Sob ididididididididididididididididididid
77.1 1430 70.6 61.9 71.2 64.0 71.2 64.0 71.2 64.0 71.2 64.0 71.2 64.0 71.2 64.0 70.6 71.2 65.0 71.2	68.4 796 61.9 17.2 46.1 77.1 1430 70.6 21.7 50.3 77.1 1430 69.4 21.7 46.1 80.8 1397 * 69.4 21.1 50.0 74.9 1131 * 66.9 22.8 45.3 78.2 2269 74.8 18.5 57.9 78.2 2269 74.8 18.5 57.9 78.2 2269 74.8 18.5 57.9 78.3 1836 72.0 21.4 52.4 73.8 247 54.2 11.1 38.7 73.8 247 54.2 11.1 38.7 73.8 247 54.2 11.1 38.7 73.8 248 72.3 23.7 50.2 77.6 889 66.1 22.5 45.0 77.2 349 66.1 14.7 59.1 78.5 101 79.3 16.3 64.2 79.1 79.3 65.0 19.2 47.0 70.9 597 62.9 31.4 52.0 70.9 597 65.0 19.2 47.0 74.0 2107 65.8 24.7 42.9 74.0 2107 65.8 24.7 43.4 74.5 895 68.9 22.5 48.3 77.4 4357 69.1 18.4 52.0 74.5 895 68.9 22.5 48.3 77.6 895 68.9 22.5 48.3 77.7 77.1 18.8 58.7 77.7 77.1 18.8 58.7 77.8 895 68.9 22.5 48.3 77.9 895 68.9 22.5 48.3 77.1 77.1 18.8 58.7 77.2 885 68.9 22.5 48.3 77.4 4357 69.1 18.4 52.0 77.4 895 68.9 22.5 48.3 77.5 895 68.9 22.5 48.3 77.7 77.1 18.8 58.7 77.7 77.1 18.8 58.7 77.8 895 68.9 22.5 48.3 77.9 77.1 18.8 58.7 77.4 927 75.1 18.8 58.7 77.5 895 68.9 22.5 48.3 77.6 895 68.9 22.5 48.3 77.7 77.1 77.1 18.8 58.7 77.7 77.1 77.1 18.8 58.7 77.8 895 68.9 22.5 48.3 77.9 77.1 77.1 18.8 58.7 77.1 77.1 77.1 18.8 58.7 77.2 77.4 77.1 77.1 77.1 77.5 77.5 77.1 77.1 77.1 77.5 77.5 77.1 77.1 77.1 77.5 77.5 77.1 77.1 77.1 77.5 77.5 77.5 77.5 77.5 77.7 77.7 77.1 77.5 77.5 77.7 77.7 77.1 77.5 77.5 77.7 77.7 77.7 77.7 77.7 77.7 77.7 77.7 77.7 77.7 77.7 77.7 77.7 77.7 77.7 77.7 77.7 77.7 77.7 77.7 77.7								
77.1 78.4 2006 68.5 21.7 50.3 2.0 44.0 12.4 48.9 88.2 61.5 46.0 78.4 2006 68.5 21.8 48.2 5.5 44.0 21.8 68.3 10.8 68.1 68.1 78.4 1391* 66.9 22.8 45.3 25.9 46.0 13.8 46.9 68.3 11.1 57.9 69.1 78.5 22663 68.4 22.8 45.3 69.2 22.8 46.0 13.8 46.9 69.1 11.1 57.9 57.9 78.5 22663 68.4 22.8 44.5 66.0 30.0 13.8 46.9 9.7 69.8 44.8 78.5 22663 22.8 44.5 62.2 30.0 13.8 46.9 9.7 69.8 44.8 78.5 22663 22.8 44.5 62.2 42.3 16.3 41.3 7.3 43.3 78.5 2269 72.0 21.4 62.2 43.2 43.2 16.3 41.3 7.3 43.3 78.5 2269 72.0 21.4 52.2 43.2 43.2 16.3 43.3 43.3 78.5 2269 72.0 21.4 52.2 43.2 43.2 43.3 43.3 78.5 2269 72.0 21.4 52.2 43.2 43.3 43.3 43.3 78.5 22.6 22.6 22.6 22.7 22.7 22.7 22.7 22.7 78.6 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 8.5 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 8.5 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 8.5 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 8.5 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 8.5 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 8.5 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 8.5 22.7 22.7 22.7 22.7 22.7 22.7 22.7 7.5 22.7 22.7 22.7 22.7 22.7 22.7 22.7 8.5 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 8.5 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 8.5 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 8.5 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 8.5 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 8.5 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 8.5 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 8.5 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 8.5 22.7 22	77.1 1430 70.6 21.7 50.3 78.4 2606 68.5 21.8 48.2 80.8 1397 * 66.9 22.8 45.3 74.9 1131 * 66.9 22.8 44.5 76.2 2563 64.9 21.9 44.5 78.2 2269 74.8 18.5 57.9 78.3 1836 72.0 21.4 58.2 78.3 294 44.9 15.2 29.7 73.8 247 54.2 11.4 58.2 73.8 247 54.2 11.4 56.2 73.8 24.9 44.9 15.2 29.7 73.8 294 44.9 15.2 29.7 73.8 294 44.9 15.2 29.7 77.2 829 66.1 22.3 56.3 79.1 790 71.6 14.7 59.1 79.1 790 71.6 14.7 59.1 78.0 928 69.5 34.5 56.2 70.9 597 62.9 31.4 32.5 70.9 597 62.9 31.4 52.0 70.9 597 65.0 19.2 44.3 74.0 2107 65.8 24.7 42.9 74.0 2107 65.8 24.7 42.9 74.5 895 69.6 26.0 46.3 74.5 895 69.6 26.0 46.3 74.5 895 68.9 22.5 48.3 74.5 895 68.9 22.5 48.3 74.5 895 68.9 22.5 48.3 74.5 895 68.9 22.5 48.3 74.6 895 68.9 22.5 48.3 74.6 895 68.9 22.5 48.3 74.6 895 68.9 22.5 48.3 74.6 895 68.9 22.5 48.3 74.6 895 68.9 22.5 48.3 74.6 895 68.9 22.5 48.3 74.6 895 68.9 22.5 48.3 74.6 895 68.9 22.5 48.3 74.7 72.1 18.8 68.7 74.6 895 68.9 22.5 48.3 74.6 895 68.9 22.5 48.3 74.6 895 68.9 22.5 48.3 74.6 895 68.9 22.5 48.3 74.6 895 68.9 22.5 48.3 74.7 74.9 74.9 74.8 895 68.9 22.5 48.3 74.8 895 68.9 22.5 48.3 74.8 895 68.9 22.5 48.3 74.8 895 68.9 22.5 48.3 74.8 895 68.9 22.5 48.3 74.8 895 68.9 22.5 48.3 74.8 895 68.9 22.5 48.3 74.8 895 68.9 22.5 22.5 74.8 895 68.9 22.5 74.8 895 68.9 22.5 74.8 895 68.9 22.5 74.8 75.0 74.8 75.0 75.1 74.8 75.1 75.1 74.9 75.1 74.0 75.1 74.0 75.1 74.0 75.1 74.0				9.1	38.2	9.09	5.8	1169
784 2606 685 218 482 55 471 200 663 107 607 359 742 1131* 665 228 453 35 475 215 688 108 681 3719 742 1131* 665 228 453 35 640 111 678 3719 752 2263 243 218 445 519 62 321 111 678 3719 762 2263 248 218 445 519 62 321 111 678 615 3719 783 784 286 726 714 715 714 715 714 715 714 715 714 715 714 715 714 715 714 715	78.4 2606 68.5 21.8 48.2 130.8 1397 * 66.9 22.8 45.3 74.9 1131 * 66.9 22.8 45.3 75.2 2269 74.8 18.5 57.9 78.3 1836 72.0 21.4 52.4 78.3 1836 72.0 21.4 52.4 78.3 1836 72.0 21.4 52.4 78.3 247 54.2 11.1 38.7 73.8 247 54.2 11.1 38.7 73.8 247 54.2 11.1 38.7 73.8 229 44.9 15.2 29.7 73.8 2829 62.5 19.9 45.1 77.6 836 72.3 23.7 50.2 77.6 836 72.3 23.7 50.2 77.7 82.7 101 79.3 16.3 64.2 77.8 3489 66.1 14.7 59.1 78.0 928 69.4 22.9 48.3 70.9 597 62.9 31.4 32.5 70.9 597 65.0 19.2 47.0 74.0 2107 65.8 24.7 42.9 74.0 2107 65.8 24.7 43.4 74.5 895 68.9 22.5 48.3 74.5 895 68.9 22.5 48.3 74.5 895 68.9 22.5 48.3 74.5 895 68.9 22.5 48.3 74.5 895 68.9 22.5 48.3 74.6 895 68.9 22.5 48.3 74.7 72.1 18.8 58.7 74.6 895 68.9 22.5 48.3 74.6 895 68.9 22.5 48.3 74.7 72.1 18.8 58.7 74.6 895 68.9 22.5 48.3 74.6 895 68.9 22.5 48.3 74.7 72.1 18.8 58.7 74.8 895 68.9 22.5 48.3 74.9 74.5 895 68.9 22.5 74.6 895 68.9 22.5 48.3 74.7 72.1 18.8 58.7 74.8 895 68.9 22.5 48.3 74.8 895 68.9 22.5 48.3 74.8 895 68.9 22.5 48.3 74.8 895 68.9 22.5 48.3 74.9 77.4 92.7 72.1 18.8 74.9 77.4 92.7 72.1 18.8 74.9 74.5 895 68.9 74.0 74.5 895 68.9 74.0 74.5 895 68.9 74.0 74.5 895 68.9 74.0 74.5 895 68.9 74.0 74.5 895 68.9 74.0 74.5 895 68.9 74.0 74.5 74.5 74.0 74.5 895 68.9 74.0 74.5 74.5 74.0 74.5 74.5 74.0 74.5 74.5 74.0 74.5 74.0 74.5 74.0 74.5 74.0 74.5 74.0 74.5 74.0 74.5 74.0 74.5 74.0 74.5 74.0				8.2	51.5	46.0	2.5	1942
176.2 1397 669.4 211 50.0 7.1 47.6 21.5 668.8 10.8 63.1 34.1 75.2 22663 64.3 22.8 45.3 3.5 46.0 18.4 65.0 11.1 57.8 37.9 75.2 22669 74.8 18.5 57.9 0.9 52.1 16.1 67.5 9.7 60.5 37.9 78.3 2210 77.6 17.4 58.2 2.9 3.3 15.3 41.3 7.3 64.5 55.5 78.4 25.5 66.5 21.5 44.5 6.5 2.9 3.3 15.3 41.3 7.3 64.5 44.3 78.3 247 24.9 66.5 21.5 24.0 2.9 3.3 15.3 41.3 7.3 64.5 44.3 77.4 25.5 66.5 21.5 44.9 16.2 2.9 44.9 17.5 48.4 44.2 77.8 77.8 78.9 66.5 27.3 66.5 27.9 67.5 67.5 67.5 77.4 25.5 67.5 27.4 27.5 27.5 27.5 47.0 17.5 48.5 27.5 77.5 87.5 87.5 87.5 87.5 87.5 87.5 87.5 87.5 77.5 88.5 77.5 88.5 77.5 88.5 87.5 87.5 87.5 78.7 78.8 78.9 66.1 22.5 44.5 47.5 47.5 48.5 47.5 78.7 78.8 78.9 66.1 22.5 44.5 47.5 47.5 48.5 47.5 78.7 78.8 78.9 66.1 22.5 44.5 47.5 47.5 48.5 47.5 78.8 78.9 66.1 22.5 44.5 47.5 47.5 47.5 48.5 47.5 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.9 66.1 22.5 44.5 44.5 44.8 48.8 79.5 44.8 78.0 98.8 66.1 22.5 44.5 44.5 44.5 44.8 44.8 44.8 78.0 98.8 68.8 78.4 78.5 78.8 78.8 78.8 78.8 78.8 78.0 78.0 78.0 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.0 78.0 78.0 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.0 78.0 78.0 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.0 78.0 78.0 78.8 78.8 78.8 78.8 78.8 78.8 78.0 78.0 78.0 78.8 78.8 78.8 78.8 78.8 78.8 78.0 78.0 78.0 78.8 78.8	te 80.8 1397 * 69.4 21.1 50.0 74.9 1131 * 66.9 22.8 45.3 78.2 2269 74.8 18.5 57.9 44.5 78.2 2269 74.8 18.5 57.9 44.5 78.3 1836 72.0 21.4 52.4 57.9 78.8 201 71.6 17.4 58.2 73.8 201 72.0 21.4 52.4 73.8 201 72.0 21.4 50.2 20.7 73.8 20.2 44.9 15.2 29.7 73.8 20.3 829 65.5 19.9 45.1 50.2 82.3 82.3 82.9 76.9 22.3 55.9 45.1 70.0 82.7 10.1 790 71.6 18.3 56.3 82.7 10.1 790 71.6 18.3 56.3 82.7 77.2 842 73.1 18.3 56.3 82.9 77.2 842 73.1 18.3 56.3 82.9 77.2 842 73.1 18.3 56.3 82.9 70.9 82.7 10.1 790 71.6 19.9 45.1 18.3 56.9 88.7 10.3 85.6 10.4 75.3 82.9 77.2 842 73.1 18.3 56.3 82.9 77.2 842 73.1 18.3 56.3 82.9 77.2 842 73.1 18.3 56.3 82.9 88.7 10.3 85.6 10.4 75.3 82.9 88.7 10.3 85.6 10.4 75.3 82.6 82.9 77.1 19.2 54.7 72.1 19.2 54.7 72.1 19.2 54.7 72.1 19.2 54.7 72.1 19.2 54.7 72.1 19.2 54.7 72.1 19.2 54.7 72.1 19.2 54.7 72.1 19.2 54.7 72.1 19.2 54.7 72.1 19.2 54.7 72.1 19.2 54.7 72.1 19.2 54.7 72.1 18.8 55.7 72.1 18.8 58.7 77.4 92.7 77.4 92.7 77.1 18.8 58.9 58.9 59.6 68.9 22.5 48.3 58.7 77.4 92.7 77.1 18.8 58.7 77.4 92.7 77.4 92.7 77.1 18.8 58.7 77.4 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7				10.7	60.7	35.9	3.4	3353
1968 1397 * 66.9 22.1 50.0 7.1 47.5 21.5 58.8 10.8 63.1 34.1 75.2 2266 64.9 21.9 44.5 3.5 46.0 11.4 53.0 11.1 50.8 37.9 78.2 2266 64.9 21.9 44.5 5.9 62.9 11.1 57.5 9.7 50.8 37.9 78.2 2266 24.9 21.9 44.5 5.9 62.9 12.3 41.3 7.3 41.3 37.9 78.3 1836 72.0 21.4 58.2 62.3 33.3 15.3 41.3 7.3 43.3 54.1 78.4 21.9 65.5 21.4 45.1 45.1 45.1 13.4 50.3 10.1 54.8 41.9 78.5 20.7 44.9 15.2 29.7 20.0 20.1 13.2 44.9 44.9 78.6 23.9 29.9 20.2 20.0 20.0 20.0 20.0 20.0 78.8 1283 60.8 20.2 20.0 20.0 20.0 20.0 78.8 24.9 26.2 21.4 52.5 20.0 20.0 20.0 79.8 28.9 20.0 20.0 20.0 20.0 20.0 79.8 28.9 20.0 20.0 20.0 20.0 20.0 79.8 28.9 20.0 20.0 20.0 20.0 20.0 79.8 28.9 20.0 20.0 20.0 20.0 20.0 79.8 28.9 20.0 20.0 20.0 20.0 20.0 79.8 28.9 20.0 20.0 20.0 20.0 70.8 28.9 20.0 20.0 20.0 70.8 28.9 20.0 20.0 20.0 70.8 28.9 20.0 20.0 70.8 28.9 20.0 20.0 70.8 28.9 20.0 20.0 70.8 28.9 20.0 70.9 20.0 20.0 70.0 20.0 20.0 70.0 20.0 20.0 70.0 20.0 20.0 70.0 20.0 20.0 70.0 20.0 20.0 70.0 20.0 20.0 70.0 20.0 20.0 70.0 20.0 20.0 70.0 20.0 20.0 70.0 20.0 20.0 70.0 20.0 20.0 70.0 20.0 20.0 70.0 20.0 20.0 70.0 20.0 20.0 70.0 20.0 70.0 20.0 20.0 70.0 20.0 70.0 20.0 20.0 70.0	80.8 1397 * 69.4 21.1 50.0 74.9 1131 * 66.9 22.8 45.3 75.2 2563 64.9 21.9 44.5 78.2 2269 74.8 18.5 57.9 78.3 1836 72.0 21.4 58.2 78.4 2519 65.5 21.5 45.1 74.4 2519 65.5 21.5 45.1 74.4 2519 65.5 21.5 45.1 73.8 29 44.9 15.2 29.7 73.8 29 62.5 19.9 45.1 73.8 29 62.5 21.4 50.2 73.8 29 62.5 21.4 50.2 73.8 29 62.5 21.4 50.2 73.8 29 62.5 21.4 50.2 75.9 82.3 82.9 62.5 19.9 45.1 76.5 836 72.3 23.7 50.2 76.5 836 72.3 23.7 50.2 76.5 836 72.3 23.7 50.2 76.5 836 72.3 23.7 50.1 77.2 842 73.1 18.3 56.3 78.0 92.8 66.1 22.5 45.0 77.4 4357 66.9 31.4 43.2 76.5 88.7 10.7 65.8 24.7 42.9 76.6 98.9 69.6 26.0 45.1 74.6 89.5 68.9 22.5 48.3 74.6 89.5 68.9 22.5 48.3 77.4 4357 69.1 18.4 52.0 74.5 89.5 68.9 22.5 48.3 77.4 92.7 75.1 18.8 58.7 77.4 92.7 75.1 18.8 58.7 77.4 92.7 75.1 18.8 58.7 77.4 92.7 75.1 18.8 58.7 77.5 89.5 68.9 22.5 48.3 77.6 89.5 68.9 22.5 48.3 77.7 8								
75.2 2666 64.9 21.9 44.5 56.9 39.0 13.8 45.9 9.7 50.8 45.8 37.9 78.2 2266 64.9 21.9 44.5 56.9 39.0 13.8 45.9 9.7 50.8 45.8 78.3 18.6 22.0 21.9 24.5 57.9 9.9 12.8 45.9 9.7 50.8 38.5 78.4 25.9 27.0 21.4 52.4 28.2 28.2 28.2 28.2 29.3 48.1 21.8 48.3 44.3 78.3 18.8 20.1 71.6 71.6 71.8 21.4 24.9 48.1 12.5 48.8 42.3 78.4 25.9 24.9 15.2 29.7 8.7 44.4 24.9 48.1 12.5 48.4 42.3 78.5 28.6 29.9 44.9 15.2 29.7 8.7 44.4 24.9 48.1 12.5 48.4 42.3 78.6 28.8 28.9 44.9 15.2 29.7 29.7 29.0 29.5 78.7 12.8 29.9 21.4 29.0 20.2 29.0 20.2 29.0 78.5 28.8 29.9 21.4 29.0 20.2 29.0 20.2 78.6 28.8 29.9 21.4 29.0 20.2 20.0 78.7 18.8 29.8 29.9 21.4 29.0 20.2 20.0 88.7 10.1 29.3 29.4 49.4 29.5 29.7 29.0 88.7 10.1 29.2 29.4 29.5 29.7 29.7 29.0 88.7 10.1 29.2 29.4 29.5 29.7 29.7 29.8 88.7 10.1 29.2 29.4 29.5 29.7 29.0 29.2 29.7 88.8 29.0 29.2 29.4 29.5 29.7 29.0 29.7 29.0 88.9 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 7.4 2.5 2.5 2.5 2.5 2.5 2.5 2.5 29.0 29.0 29.0 7.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 7.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 7.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 7.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 7.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 7.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 7.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 7.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 7.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 7.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 7.5 29.0 29.0 29.0 29.0 29.0 29	ters) 74.9 1131* 66.9 22.8 45.3 75.2 2563 64.9 21.9 44.5 78.2 2269 74.8 18.5 57.9 78.3 201 71.6 17.4 58.2 78.4 2519 65.5 21.5 45.1 78.4 2519 65.5 21.5 45.1 78.5 29.7 44.9 15.2 29.7 77.6 76.9 69.9 20.3 45.1 77.2 82.9 76.9 22.3 56.3 182.7 101 79.3 16.3 66.2 82.7 101 79.3 16.3 66.2 82.7 101 79.3 16.3 64.2 78.0 928 66.1 22.5 45.0 78.0 928 66.4 22.9 48.3 78.0 928 69.5 34.5 56.3 78.0 928 69.5 34.5 36.9 88.7 103 86.6 10.4 75.3 70.9 597 62.9 31.4 32.5 70.9 597 62.9 31.4 52.0 74.0 2107 65.8 24.7 42.9 74.5 895 68.9 26.0 45.1 74.5 895 68.9 22.5 48.3 74.6 77.4 4357 69.1 18.8 68.8 77.5 889 68.6 26.0 45.1 77.6 928 68.9 22.3 44.9 74.7 10.1 18.8 68.8				10.8	63.1	34.1	2.8	1828 *
75.2 2265 64.9 21.9 44.5 56 59.0 13.3 45.5 9.7 50.8 45.8 78.2 2269 74.8 18.5 57.9 0.9 52.1 16.1 57.5 9.7 50.5 38.5 78.2 2269 74.8 18.5 57.9 0.9 52.1 16.1 57.5 9.7 50.5 38.5 78.8 201 716 71.4 58.2 6.2 33.3 15.3 41.3 7.3 43.3 54.1 78.8 201 716 71.4 58.2 2.9 43.2 5.0 10.1 54.8 41.4 78.8 24.7 54.2 19.1 58.2 2.9 43.1 13.4 50.3 10.1 54.8 44.9 78.8 72.9 44.9 18.2 29.7 8.7 8.7 44.4 24.9 61.3 10.5 64.8 78.8 78.9 62.3 76.9 22.3 62.3 3.6 16.5 63.9 76.0 32.5 77.2 84.2 76.3 22.3 56.2 1.4 53.6 16.4 53.9 63.3 54.2 77.2 84.2 76.3 22.3 56.3 1.6 60.5 21.9 64.8 24.2 77.2 84.2 76.3 22.3 60.3 22.3 60.3 22.3 60.3 22.3 78.1 78.0 68.5 76.3 76.3 76.3 76.3 76.8 78.1 78.2 68.5 76.3 76.3 76.3 76.3 76.3 78.2 88.5 76.3 76.3 76.3 76.3 76.3 76.3 78.3 88.7 76.3 88.5 76.3 76.3 76.3 78.4 78.5 78.5 78.5 78.5 78.5 78.5 78.5 78.5 78.5 78.5 78.5 78.5 78.5 78.5 78.6 78.7 78.8 68.5 78.3 78.3 78.5 78.5 78.7 78.8 68.5 78.3 78.3 78.3 78.5 78.5 78.5 78.6 88.7 78.7 78.8 78.3 78.3 78.5 78.5 78.5 78.7 78.8 68.5 78.5 78.5 78.5 78.5 78.5 78.5 78.6 78.7 78.7 78.7 78.7 78.8 78.5 78.5 78.5 78.7 78.8 68.5 78.5 78.5 78.5 78.5 78.5 78.5 78.6 78.7 78.7 78.7 78.7 78.8 78.5 78.5 78.6 78.7 78.7 78.7 78.7 78.8 78.5 78.5 78.7 78.8 68.5 78.5 78.7 78.5 78.5 78.5 78.6 78.7 78.7 78.7 78.7 78.8 78.5 78.5 78.7 78.8 68.5 78.5 78.7 78.5 78.5 78.5 78.6 88.5 78.5 78.7 78.7 78.8 78.5 78.5 78.7 78.8 78.5 78.5 78.5 78.5 78.5 78.5 78.8 78.5 78.5 78.5 78.5 78.5 78.	75.2 2563 64.9 21.9 44.5 78.2 2269 74.8 18.5 57.9 74.4 2519 65.5 21.4 52.4 74.4 2519 65.5 21.5 45.1 74.4 2519 65.5 21.5 45.1 74.4 2519 65.5 21.5 45.1 74.4 2519 65.5 21.5 45.1 73.8 247 54.2 1w1 38.7 73.8 1283 60.8 20.2 42.0 77.6 76.5 69.9 21.4 50.2 77.6 76.5 69.9 21.4 50.2 77.6 76.5 69.9 21.4 50.2 77.2 842 72.3 23.7 56.3 77.2 842 77.3 74.8 88.7 77.2 842 77.3 74.8 66.1 22.5 45.0 77.2 842 77.3 74.5 69.5 74.5 74.0 77.4 72.1				11.1	57.8	37.9	4.4	1524 *
75.2 256.3 64.9 21.9 44.5 5.6 39.0 13.8 45.9 9.7 50.8 45.8 91.2 256.9 7.48 18.5 57.9 0.9 52.1 16.1 57.5 9.7 60.8 35.6 78.8 201 71.4 17.4 52.4 62.4 6.2 33.3 16.3 41.3 6.4 41.1 6.4 41.1 41.4 6.2 33.3 16.3 41.3 6.4 41.1 6.4 41.1 6.4 41.1 6.4 41.1 6.4 41.4 6.5 5.2 6.2 43.3 16.3 6.4 41.4 <th< td=""><td>te</td><td>-</td><td></td><td>$\left\{ \right.$</td><td></td><td></td><td></td><td></td><td></td></th<>	te	-		$\left\{ \right.$					
78.2 20.69 74.8 18.5 67.9 69.1 16.1 67.5 69.7 60.5 35.5 78.8 20.1 71.6 17.4 58.2 62.2 33.3 16.3 41.3 7.3 43.3 64.1 78.8 20.1 71.6 17.4 58.2 62.4 2.9 60.0 62.1 64.8 44.3 64.3 64.1 64.8 44.4 44.4 66.2 44.9 16.2 44.9 16.2 44.9 61.2 44.4 </td <td>tee 78.2 2269 74.8 18.5 57.9 78.8 201 71.6 17.4 58.2 78.3 1836 72.0 21.4 52.4 78.4 2519 66.5 21.5 45.1 73.8 247 54.2 1w1 38.7 73.8 73.8 829 66.8 20.2 42.0 77.6 76.5 836 72.3 55.9 82.7 70.1 70.0 70.0 70.0 70.0 10.2 78.0 928 66.1 22.5 45.0 78.0 928 69.4 22.9 48.3 78.0 928 69.4 22.9 48.3 78.0 928 69.4 22.9 48.3 78.0 928 69.4 22.9 48.3 78.0 2107 65.8 24.7 42.9 74.0 2107 65.8 24.7 42.9 74.5 895 69.6 26.0 45.1 74.5 895 68.9 22.5 48.3 77.4 927 75.1 18.8 587</td> <td>ŀ</td> <td>L</td> <td>H</td> <td>9.7</td> <td>50.8</td> <td>45.8</td> <td>3.4</td> <td>3538</td>	tee 78.2 2269 74.8 18.5 57.9 78.8 201 71.6 17.4 58.2 78.3 1836 72.0 21.4 52.4 78.4 2519 66.5 21.5 45.1 73.8 247 54.2 1w1 38.7 73.8 73.8 829 66.8 20.2 42.0 77.6 76.5 836 72.3 55.9 82.7 70.1 70.0 70.0 70.0 70.0 10.2 78.0 928 66.1 22.5 45.0 78.0 928 69.4 22.9 48.3 78.0 928 69.4 22.9 48.3 78.0 928 69.4 22.9 48.3 78.0 928 69.4 22.9 48.3 78.0 2107 65.8 24.7 42.9 74.0 2107 65.8 24.7 42.9 74.5 895 69.6 26.0 45.1 74.5 895 68.9 22.5 48.3 77.4 927 75.1 18.8 587	ŀ	L	H	9.7	50.8	45.8	3.4	3538
18.8 201 11.6 11.4 58.2 6.2 33.3 15.3 15.3 41.3 7.3 42.3 54.1 18.8 18.36 72.0 21.4 52.4 2.9 44.2 16.2 50.4 9.1 56.4 41.4 18.4 2519 65.5 21.4 52.4 2.9 44.2 16.2 50.4 9.1 56.4 41.4 18.5 24.2 24.2 21.5 48.1 3.5 48.3 3.9 18.5 24.2 24.2 16.5 29.7 8.7 3.3 30.0 16.2 48.1 12.5 48.3 3.9 18.5 22.5 44.2 16.2 29.7 8.7 44.4 24.9 48.1 12.5 48.3 3.9 18.5 22.5 22.4 22.5 22.7 22.5 22.5 10.3 38.7 10.6 44.9 51.9 18.5 22.5 22.4 22.5 22.4 22.5 22.5 10.3 38.7 10.6 44.9 51.9 18.5 24.5 22.3 56.9 2.1 60.5 21.9 68.5 9.7 10.2 68.5 39.6 18.5 24.5 22.5 23.7 60.2 1.4 60.5 21.9 68.5 9.7 10.2 68.5 18.5 24.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 18.5 24.5 22.5 24.5 24.5 24.5 24.5 24.5 18.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 28.5 28.5 28.5 24.5 24.5 24.5 24.5 28.5 28.5 28.5 24.5 24.5 24.5 24.5 28.5 28.5 24.5 24.5 24.5 24.5 28.5 28.5 28.5 24.5 24.5 28.5 28.5 28.5 24.5 24.5 28.5 28.5 28.5 24.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5	refe) 78.8				9.7	60.5	35.5	4.0	2926
788 201 71.6 17.4 58.2 6.2 33.3 15.3 41.3 7.3 43.3 64.1 78.8 201 71.6 17.4 52.4 2.9 43.2 16.2 50.4 9.1 64.3 41.4 74.4 281.9 65.5 21.5 46.1 46.1 16.4 40.1 13.2 44.9 17.6 44.9 44.9 44.9 44.9 46.9 48.1 17.5 48.3 39.0 47.9 44.9 48.1 17.5 48.3 39.0 47.9 44.9 48.1 17.5 48.3 39.0 48.9	78.8 201 71.6 17.4 58.2 74.4 58.2 74.4 58.2 74.4 58.2 74.4 52.9 74.4 52.9 74.9 15.2 29.7 74.4 58.3 29 44.9 15.2 29.7 77.2 82.9 76.9 22.3 55.9 76.9 70.8 82.7 70.9 62.5 77.2 842 77.2 842 77.2 842 77.2 842 77.2 842 77.2 842 77.2 842 77.2 842 77.6 77.6 69.9 71.6 14.7 59.1 77.2 842 65.5 34.5 56.3 77.2 842 77.2 842 77.2 82.9 66.1 22.5 45.0 77.2 842 65.0 71.6 14.7 59.1 77.2 842 65.0 71.6 14.7 59.1 77.2 842 65.0 71.6 14.7 59.1 77.2 842 65.0 71.6 14.7 59.1 77.2 842 65.0 71.6 14.7 59.1 77.2 849 66.1 22.5 45.0 77.2 349 66.1 22.5 45.0 77.2 70.9 597 62.9 31.4 32.5 64.2 70.9 597 62.9 31.4 52.0 47.0 70.9 597 62.9 31.4 52.0 47.0 70.9 597 65.9 71.4 18.4 52.0 74.5 895 69.6 26.0 45.1 74.5 895 68.9 22.5 48.3 77.4 92.7 77.4 92.7 77.1 18.8 58.7 77.4 92.7 77.1 18.8 58.7								
78.3 18.36 6.56.4 21.4 6.24 4.34 16.2 50.4 9.1 54.4 41.4 73.8 23.9 6.45 1.1 6.45 1.1 6.45 1.0.1 6.42 9.1 6.44 41.4 73.8 247 56.5 1.16 8.67 9.3 30.0 16.5 44.4 44.4 1.2 6.43 44.9 44.9 67.4 289 6.2 1.6 8.0 32.5 1.2 48.7 1.0.1 6.43 44.9 6.1 77.6 7.2 60.9 2.2 42.7 16.7 50.3 1.6 48.9 6.1 6.4 44.9 44.4 44.4 6.6 43.5 1.0.1 6.4 44.9 44.4 44.4 44.5 1.0 6.6 6.6 6.6 6.6 6.6 6.6 6.6 7.2 44.4 42.7 16.0 6.6 6.6 6.6 6.6 6.6 6.6 7.2 <	78.3 1836 72.0 21.4 52.4 74.4 2519 66.5 21.5 45.1 73.8 24.9 44.9 15.2 29.7 73.8 24.9 44.9 15.2 29.7 73.8 1283 60.8 20.2 42.0 67.4 289 66.5 19.9 45.1 57.2 82.3 829 76.9 22.3 55.9 14.9 70.1 10.1 79.3 16.3 64.2 77.2 842 77		L	_	7.3	43.3	54.1	2.6	278
74.4 2519 66.5 21.5 45.1 46.1 16.5 40.0 10.1 64.8 46.1 11.4 60.3 10.1 64.8 42.3 42.3 63.9 29 44.2 16.7 29.7 8.7 44.4 24.9 10.3 38.7 10.6 44.9 51.9 73.8 1283 60.8 20.2 42.0 8.0 32.5 10.3 38.7 10.6 44.9 51.9 67.4 289 62.5 19.9 46.1 0.2 39.6 9.5 43.5 10.6 44.9 51.9 77.6 289 6.2 19.9 46.1 0.2 39.6 9.5 48.5 10.3 39.0 86.7 10.6 46.9 20.2 4.0 10.2 39.6 10.3 38.7 48.5 50.2 7.6 56.3 1.6 6.0 20.2 4.1 45.9 48.3 48.9 48.9 48.9 48.9	144 2519 655 21.5 451 73.8 247 54.2 1w1 38.7 73.8 1283 60.8 20.2 42.0 67.4 289 62.5 19.9 45.1 77.6 829 62.5 19.9 45.1 77.5 842 72.3 56.9 77.2 842 72.3 56.9 77.2 842 73.1 18.3 56.3 101 79.3 14.7 59.1 77.2 349 66.1 22.5 45.0 77.2 349 66.1 22.5 45.0 82.7 103 85.6 10.4 75.3 88.7 103 85.6 10.4 75.3 38.8 69.4 22.9 48.3 70.9 597 65.9 31.4 32.5 38.8 7 103 85.6 10.4 75.3 74.0 2107 65.8 24.7 42.9 74.0 2107 65.8 24.7 42.9 74.5 895 69.6 26.0 45.1 74.5 895 68.9 22.5 48.3		_		9.1	54.4	41.4	4.2	2423
73.8 247 54.2 IW1 38.7 9.3 30.0 16.5 41.0 13.2 49.4 44.9 73.8 129.7 44.9 16.2 29.7 8.7 44.4 24.9 48.1 12.5 48.3 39.0 77.8 1283 60.8 20.2 42.0 8.0 32.5 10.2 42.9 48.1 12.6 44.9 51.9 77.6 762 60.9 21.4 60.2 3.6 42.7 15.7 56.3 12.6 44.9 51.9 77.6 762 60.9 21.4 60.2 3.6 42.7 15.7 16.0 44.9 51.0 42.7 16.0 66.3 42.6 43.5 17.6 44.9 42.7 16.2 66.3 17.6 42.9 42.9 48.9 7 46.8 16.2 3.9 7.6 43.7 42.9 42.9 42.9 42.9 42.9 42.9 42.9 42.9 42.9 42	73.8 247 54.2 1w1 38.7 63.9 29 44.9 15.2 29.7 73.8 1283 60.8 20.2 42.0 67.4 289 62.5 19.9 45.1 77.6 762 69.9 21.4 50.2 82.3 829 76.9 21.4 50.2 77.6 836 72.3 23.7 50.2 74.8 3489 66.1 22.5 45.0 77.2 842 73.1 18.3 56.3 77.2 842 73.1 22.5 45.0 77.2 842 73.1 22.5 45.0 77.2 842 73.1 18.3 56.3 82.7 101 79.3 16.3 64.2 77.2 88.7 103 85.6 10.4 75.3 78.0 928 69.4 22.9 48.3 70.9 597 65.9 31.4 32.5 38.5 10.7 65.8 24.7 42.9 74.0 2107 65.8 24.7 42.9 74.0 2107 65.8 24.7 42.9 74.0 2107 65.8 24.7 42.9 74.0 2107 65.8 24.7 42.9 74.0 2107 65.8 24.7 42.9 74.5 895 69.6 26.0 45.1 77.4 92.7 75.1 18.8 58.7				10.1	54.8	42.3	2.9	3384
Table Tabl	te 63.9 29 44.9 15.2 29.7 17.8 18.3 60.8 20.2 42.0 47.0 17.6 762 69.9 21.4 50.2 45.1 17.6 76.5 836 72.3 23.7 50.2 17.1 18.3 56.3 17.1 18.3 56.3 17.1 18.3 56.3 17.1 18.3 56.3 17.1 18.3 56.3 17.1 18.3 56.3 17.1 18.3 56.3 17.1 18.3 56.3 17.1 18.3 56.3 17.1 17.2 349 66.1 22.5 45.0 17.2 349 66.1 22.5 45.0 17.2 349 66.1 22.5 45.0 17.2 349 66.1 22.5 45.0 17.2 349 65.0 17.6 14.7 59.1 17.2 349 65.0 17.6 14.7 59.1 17.2 349 65.0 17.6 17.4 75.3 17.3 1830 65.0 19.2 47.0 17.4 4357 65.9 17.1 19.2 54.7 17.4 4357 69.1 18.4 52.0 45.1 17.4 43.5 10.5 69.6 69.6 26.0 45.1 18.8 58.7 17.4 92.7 77.1 18.8 58.7 17.4 92.7 75.1 18.8 58.7				13.2	49.4	6.44	5.7	341
te 67.4 289 62.5 19.9 46.1 0.2 39.6 9.5 43.5 10.6 44.9 51.9 51.9 17.6 67.4 289 62.5 19.9 46.1 0.2 39.6 9.5 43.6 12.6 44.9 51.9 50.2 13.6 43.4 12.8 12.8 62.9 12.1 6.0.2 39.6 9.5 43.5 12.6 48.5 50.2 13.4 12.8 12.8 12.3 12.3 12.3 12.3 12.3 12.3 12.3 12.3	te 73.8 1283 60.8 20.2 42.0 77.4 289 62.5 19.9 45.1 45.0 77.6 762 69.9 21.4 50.2 45.1 56.9 45.1 77.6 76.5 69.9 21.4 50.2 45.0 77.6 76.5 836 72.3 23.7 56.9 56.9 77.2 842 73.1 18.3 56.3 56.3 79.1 790 71.6 14.7 59.1 791 790 71.6 14.7 59.1 77.2 349 66.1 22.5 45.0 77.2 349 66.1 22.5 45.0 77.2 349 66.1 22.5 45.0 77.2 349 66.1 22.5 48.3 77.2 349 65.0 10.4 75.3 16.3 88.7 10.3 85.6 10.4 75.3 16.3 64.2 77.2 349 65.0 10.4 75.3 16.3 64.2 77.2 349 65.0 19.2 47.0 77.4 4357 65.9 31.4 52.0 47.0 77.4 4357 69.1 18.4 52.0 45.1 74.5 895 69.6 26.0 45.1 77.4 92.7 77.4 92.7 77.1 18.8 58.7				12.5	48.3	39.0	12.7	38
7.18 1.883 60.6 20.2 42.0 8.0 32.5 10.3 38.7 10.6 44.9 51.9 7.18 762 68.9 21.4 50.2 3.6 42.7 15.7 50.3 7.6 48.5 50.2 8.23 8.26 76.9 22.3 56.9 2.1 46.8 16.4 53.9 8.3 56.3 39.6 8.24 8.25 76.9 22.3 56.9 2.1 46.8 16.4 53.9 8.3 56.3 39.6 8.25 8.26 76.9 22.3 56.9 2.1 46.8 16.4 53.9 8.3 56.3 39.6 9.24 77.2 842 73.1 18.3 56.3 1.4 55.6 11.4 55.6 5	te 67.4 289 60.8 20.2 42.0 67.4 289 62.5 19.9 45.1 60.2 69.3 12.4 60.2 69.9 12.4 60.2 69.9 12.4 60.2 69.9 12.4 60.2 69.9 12.4 60.2 69.9 12.4 60.2 69.9 12.4 60.2 69.9 12.3 65.9 69.9 12.3 65.9 69.9 12.3 65.3 69.1 69.1 69.1 69.1 69.1 69.1 69.1 69.1								
67.4 289 62.5 19.9 46.1 0.2 39.6 9.5 12.6 48.5 50.2 transplete 77.6 68.9 21.3 46.1 0.2 39.6 9.5 12.6 48.5 50.2 transplete 76.5 82.3 76.9 21.3 56.9 21.4 46.8 16.7 50.3 16.6 54.0 33.2 matchete 77.2 83.6 72.3 56.9 1.4 68.5 21.9 68.5 9.7 70.8 53.6 33.2 7.2 84.8 72.3 56.3 1.6 60.5 21.9 68.5 9.7 70.8 33.2 41.9 7.2 84.8 76.1 4.4 43.7 15.0 48.8 44.8 43.7 15.0 48.8 44.8 44.7 42.7 42.9 43.7 42.9 44.8 44.8 43.7 42.9 44.8 44.8 44.7 42.7 42.9 44.8 44.7	te 76.5 826 62.5 19.9 45.1 77.6 762 69.9 21.4 50.2 76.9 76.9 22.3 55.9 76.9 72.3 23.7 50.2 72.3 55.9 76.9 72.3 23.7 50.2 72.3 72.3 72.3 72.3 72.3 72.3 72.3 72				10.6	44.9	51.9	3.2	1740
te	te 76.5 69.9 21.4 50.2 te 76.5 68.9 21.4 50.2 te 76.5 889 72.3 56.9 77.2 842 73.1 18.3 56.3 79.1 79.0 71.6 14.7 59.1 78.7 103 86.6 1 22.5 45.0 77.2 349 66.1 22.5 45.0 77.2 349 66.1 22.5 45.0 77.2 349 66.1 22.5 45.0 77.2 349 66.4 22.9 48.3 88.7 103 85.6 10.4 75.3 38.8 69.4 22.9 48.3 70.9 597 65.9 31.4 32.5 74.0 2107 65.8 24.7 42.9 74.5 1057 59.7 17.4 43.4 76.0 989 69.6 26.0 45.1 74.5 895 68.9 22.5 48.3 77.4 92.7 77.1 18.4 52.0 76.0 989 69.6 26.0 45.1 77.4 92.7 77.1 18.8 58.7		1		12.6	48.5	50.2	1.4	414
te 76.5 824 76.3 12.3 56.3 1.4 66.5 11.4 68.7 10.2 62.3 33.2 17.2 842 73.1 18.3 56.3 1.6 60.5 21.9 68.5 9.7 10.2 62.3 33.2 17.2 842 73.1 18.3 56.3 1.6 60.5 21.9 68.5 9.7 10.2 62.3 33.2 17.2 842 73.1 18.3 56.3 1.6 60.5 21.9 68.5 9.7 10.2 62.3 33.2 17.2 10.1 79.3 16.3 64.2 2.9 41.7 12.0 48.8 3.2 48.8 44.8 17.2 17.2 849 69.5 84.5 10.4 75.3 1.9 55.5 11.8 55.6 12.9 61.2 7.3 66.9 4.3 1.9 55.6 1.8 55.6 1.8 1.8 55.6 1.8 55.8 1.8 5	te 76.5 829 76.9 22.3 50.9 50.2 mplete 77.2 836 72.3 23.7 50.2 50.2 73.1 18.3 56.3 56.3 74.5 842 73.1 18.3 56.3 56.3 74.5 82.7 10.1 18.3 56.3 74.5 82.7 10.1 18.3 56.3 82.7 10.1 10.2 14.7 59.1 10.3 88.7 10.3 88.6 10.4 75.3 88.7 10.3 88.6 10.4 75.3 88.8 7 10.3 88.6 69.4 22.9 48.3 88.7 10.9 65.0 19.2 44.3 32.5 88.8 73.7 1830 65.0 19.2 44.3 72.1 19.2 54.7 74.0 77.4 4357 65.9 69.1 18.4 52.0 77.4 65.8 69.6 68.9 22.5 48.3 74.5 895 69.6 68.9 22.5 48.3 77.4 92.7 77.4 92.7 77.1 18.8 58.7				7.6	54.0	43.4	2.6	1036
7.6.5 830 72.3 23.7 1.4 93.0 16.4 96.5 16.4 97 70.8 33.2 77.2 842 73.1 18.3 56.3 1.6 60.5 1.9 70.2 9.3 54.2 4.19 79.1 348 66.1 22.5 45.0 4.4 43.7 15.0 56.3 9.3 54.2 41.9 77.2 349 69.5 34.5 36.9 1.8 56.6 22.9 61.2 7.3 63.9 77.2 88.7 10.3 85.6 10.4 4.5 38.8 9.7 4.8 4.8 4.8 77.2 349 69.5 34.5 36.9 1.8 56.6 22.9 61.2 7.3 63.9 7.7 88.7 10.3 85.6 10.4 75.3 1.9 35.5 31.8 56.8 0.7 56.9 43.8 78.0 98.7 62.9 31.4 46.6	70.5 836 72.3 23.7 90.2 77.2 842 73.1 18.3 56.3 79.1 79.0 71.6 14.7 59.1 79.1 79.3 16.3 64.2 82.7 101 79.3 16.3 64.2 77.2 349 69.5 34.5 56.9 88.7 103 85.6 10.4 75.3 78.0 92.8 69.4 22.9 48.3 70.9 597 62.9 31.4 32.5 70.9 597 65.0 47.0 73.7 1830 65.0 19.2 47.0 74.0 2107 65.8 24.7 42.9 74.5 1057 69.1 18.4 52.0 74.5 895 68.9 22.5 48.3 74.5 895 68.9 22.5 48.3 77.4 927 75.1 18.8 58.7	+		+	8.3	56.3	39.6	4.1	1058
7.2 642 7.1 10.3 10.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 21.5 4.5 1.0 1.0 1.1 1.0<	77.2 042 73.1 16.3 90.3 74.8 3489 66.1 22.5 45.0 79.1 790 71.6 14.7 59.1 82.7 101 79.3 16.3 64.2 87.2 349 69.5 34.5 36.9 88.7 103 85.6 10.4 75.3 78.0 928 69.4 22.9 48.3 70.9 597 62.9 31.4 32.5 73.7 1830 65.0 19.2 47.0 74.0 2107 65.8 24.7 42.9 74.5 165.7 18.4 52.0 74.5 1057 69.1 18.4 52.0 74.5 895 68.9 22.5 48.3 74.5 895 68.9 22.5 48.3 77.4 927 75.1 18.8 58.7		+		10.2	02.3	33.2	6.4	- 5
table of the control 74.8 3489 66.1 22.5 45.0 4.4 43.7 15.0 50.3 9.3 54.2 41.9 in the control 79.1 790 71.6 14.7 59.1 4.5 38.8 9.7 45.2 13.1 50.2 47.7 in the control 82.7 101 79.3 16.3 64.2 2.9 41.7 12.0 48.8 3.2 48.8 44.8 inity 87.7 103 86.6 10.4 75.3 1.20 48.8 3.2 48.8 44.8 shout 88.7 103 86.6 10.4 75.3 1.20 48.8 67.2 42.9 47.8 44.8 shout 88.7 103 86.6 10.4 75.3 1.8 55.6 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.9 47.9 47.9	In the control of the	-	+	+	9.7	70.8	23.5	2./	col -
1.1. 1.4.0	1.5 1.5	-	ŀ	-	c	2 7 2	0.77	c	7000
Inity 1.7.2 349 69.5 34.5 36.9 1.8 55.6 22.9 61.2 7.3 63.8 44.8 Inity 1.7.2 349 69.5 34.5 36.9 1.8 55.6 22.9 61.2 7.3 63.8 44.8 Inity 1.7.2 349 69.5 34.5 36.9 1.8 55.6 31.8 55.8 37.8 63.9 27.2 Inity 1.8.3 54.5 36.9 1.8 55.6 31.8 55.8 0.7 55.9 43.8 Inity 1.8.4 55.8 1.9 55.8 1.9 55.8 1.9 55.8 1.2 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	1.50	+	+		9.5	50.2	41.3	5.3	4000
1	Inity 72.7 101 73.3 103.3 69.5 10.3 04.2 Sloup 88.7 103 85.6 10.4 75.3 34.5 36.9 Ied Caste 78.0 92.8 69.4 22.9 48.3 16.3 16.2 48.3 Ied Tribe 70.9 597 62.9 31.4 32.5 47.0 Backward Classes 73.7 1830 65.0 19.2 47.0 47.0 PL card 74.0 2107 65.8 24.7 42.9 42.0 PL card 77.4 4387 69.1 18.4 52.0 Index 76.0 989 69.6 26.0 45.1 Index 77.4 927 75.1 18.8 58.7	+	+	+		300.2	47.7	2.1	116
Free PL card 7.0 928 6.5 1.0 75.3 1.9 35.5 31.8 65.8 0.7 65.9 43.8 Bed Caste 78.0 928 69.4 22.9 48.3 6.5 42.6 16.7 51.0 9.6 54.2 41.4 40.8 Ied Caste 70.9 69.7 62.9 31.4 32.5 2.4 46.6 13.8 53.7 9.0 57.4 40.8 nackward Classes 73.7 1830 62.0 19.2 47.0 4.7 39.9 14.1 46.1 9.0 57.4 40.8 nackward Classes 73.7 1830 65.0 47.0 4.7 39.9 14.1 46.1 9.0 57.4 40.8 PL card 74.0 21.7 42.9 3.7 41.1 16.2 48.8 10.6 54.2 42.9 ave BPL card 77.4 435.7 69.1 18.4 42.0 47.1 44.0 13.4 4	3roup 88.7 103 85.6 10.4 75.3 3roup 3roup 88.7 103 85.6 10.4 75.3 led Caste 78.0 92.8 69.4 22.9 48.3 led Caste 70.9 597 62.9 31.4 32.5 ackward Classes 73.7 1830 65.0 19.2 47.0 PL card 74.0 2107 65.8 24.7 42.9 PL card 77.4 435.7 69.1 18.4 52.0 Index 74.5 1057 59.7 17.4 43.4 76.0 989 69.6 26.0 45.1 77.4 927 75.1 18.8 58.7		+		3.2	63.9	27.2	6.0	909
Jacoup Signation Auge	Jacoup 928 69.4 22.9 48.3 led Caste 70.9 597 62.9 31.4 32.5 aled Tribe 73.7 1830 65.0 19.2 47.0 ackward Classes 73.7 1477 72.1 19.2 47.0 PL card 74.0 2107 65.8 24.7 42.9 PL card 77.4 4357 69.1 18.4 52.0 Index 74.5 1057 59.7 17.4 43.4 76.0 989 69.6 26.0 45.1 74.5 895 68.9 22.5 48.3 77.4 927 75.1 18.8 58.7		H	H	0.7	55.9	43.8	0.2	148
led Caste 78.0 928 69.4 22.9 48.3 6.5 42.6 16.7 51.0 9.6 54.2 41.4 led Tribe 70.9 597 62.9 31.4 32.5 2.4 46.6 13.8 53.7 9.0 57.4 40.8 asckward Classes 73.7 1830 65.0 19.2 47.0 4.7 39.9 14.1 46.1 9.6 51.7 40.8 pL card 74.0 2107 65.8 24.7 42.9 3.7 41.1 16.2 48.8 10.6 54.3 41.9 pve BPL card 77.4 4357 69.1 18.4 52.0 4.7 44.0 13.4 49.6 9.1 53.2 43.4 pressure 71.4 4357 69.1 18.4 8.7 29.7 44.0 13.4 49.6 9.1 53.2 43.4 pressure 76.0 989 68.9 26.0 48.3 27.7 44.8	led Caste 78.0 928 69.4 22.9 48.3 led Tribe 70.9 597 62.9 31.4 32.5 nackward Classes 73.7 1830 66.0 19.2 47.0 rus 79.5 1477 72.1 19.2 54.7 PL card 74.0 2107 66.8 24.7 42.9 ave BPL card 77.4 4357 69.1 18.4 52.0 Index 74.5 1057 59.7 17.4 43.4 76.0 989 69.6 26.0 45.1 74.5 895 68.9 22.5 48.3 77.4 927 75.1 18.8 58.7								
Indertribe 70.9 597 62.9 31.4 32.5 2.4 46.6 13.8 53.7 9.0 57.4 40.8	Idea Tribe				9.6	54.2	41.4	4.4	1201
nackward Classes 73.7 1830 65.0 19.2 47.0 4.7 39.9 14.1 46.1 9.6 51.7 43.9 stus 10.5 14.7 72.1 19.2 54.7 2.2 46.5 13.4 51.8 10.2 55.2 42.6 PL card 74.0 2107 65.8 24.7 42.9 3.7 41.1 16.2 48.8 10.6 54.3 41.9 ave BPL card 77.4 435 69.1 4.7 44.0 13.4 49.6 9.1 53.2 43.4 Index 37.2 47.1 16.2 48.8 10.6 54.3 41.9 Index 37.4 43.4 8.7 44.0 13.4 49.6 9.1 55.2 43.4 Index 38.5 68.9 26.0 45.1 27.7 44.8 14.8 51.9 9.8 56.3 41.1 A.5 38.5 68.9 22.5 48.3 27.7<	ackward Classes 73.7 1830 65.0 19.2 47.0 tus PL card 74.0 2107 65.8 24.7 42.9 ave BPL card 77.4 4357 69.1 18.4 52.0 Index 74.5 1057 65.8 26.0 45.1 Index 77.4 927 75.1 18.8 58.7	-		-	9.0	57.4	40.8	1.8	972
situs 79.5 1477 72.1 19.2 54.7 2.2 46.5 13.4 51.8 10.2 55.2 42.5 PL card 74.0 2107 65.8 24.7 42.9 3.7 41.1 16.2 48.8 10.6 54.3 41.9 Index 77.4 4357 69.1 18.4 52.0 4.7 44.0 13.4 49.6 9.1 53.2 43.4 Index 76.0 989 69.6 26.0 45.1 2.7 44.3 15.1 51.9 9.8 56.3 39.7 74.5 895 68.6 26.0 45.1 2.7 44.8 15.1 51.9 9.8 56.3 39.7 74.5 895 68.9 22.5 48.3 2.7 44.8 14.8 51.4 8.5 55.3 41.1 74.5 895 68.9 22.5 48.3 2.7 44.8 14.8 51.4 8.5 55.3 41.1<	stus 79.5 1477 72.1 19.2 54.7 PL card 74.0 2107 65.8 24.7 42.9 ave BPL card 77.4 4357 69.1 18.4 52.0 Index 74.5 1057 59.7 17.4 43.4 Index 76.0 989 69.6 26.0 45.1 74.5 895 68.9 22.5 48.3 77.4 927 75.1 18.8 58.7	+			9.6	51.7	43.9	4.4	2430
PLeard 74.0 2107 65.8 24.7 42.9 3.7 41.1 16.2 48.8 10.6 54.3 41.9 Index Index 77.4 4357 69.1 18.4 52.0 4.7 44.0 13.4 49.6 9.1 53.2 43.4 Index Index 74.5 1057 69.7 17.4 43.4 8.7 29.7 10.2 35.9 10.8 41.7 55.9 Index 76.0 989 69.6 26.0 45.1 2.7 44.8 15.1 51.9 9.8 56.3 39.7 74.5 895 68.9 22.5 48.3 2.7 44.8 14.8 51.4 8.5 55.3 41.1 77.4 927 75.1 18.8 58.7 0.4 57.3 19.7 63.7 9.1 66.6 28.3 76.1 96.4 67.0 40.5 40.5 60.1 40.5	PL card 74.0 2107 65.8 24.7 42.9 ave BPL card 77.4 4357 69.1 18.4 52.0 lindex 74.5 1057 69.8 24.7 43.4 76.0 989 69.6 26.0 45.1 74.5 895 68.9 22.5 48.3 77.4 92.7 75.1 18.8 58.7	+	+	+	10.2	29.5	42.6	2.3	1861
Pr. Card 74.0 2107 65.8 24.7 42.9 3.7 41.1 16.2 48.8 10.b 54.3 41.9 Index Index 47.0 47.0 13.4 49.6 9.1 53.2 43.4 Index Index 43.5 69.7 4.7 44.0 13.4 49.6 9.1 53.2 43.4 1 76.0 989 69.6 26.0 45.1 2.7 44.8 15.1 51.9 9.8 56.3 39.7 1 74.5 895 68.9 22.5 48.3 2.7 44.8 15.1 51.9 9.8 56.3 39.7 1 77.4 927 75.1 48.8 14.8 51.4 8.5 55.3 41.1 1 77.4 927 75.1 48.8 60.1 19.7 64.9 8.6 58.3 28.3 1 40.3 60.1	Pricated 74.0 2107 65.8 24.7 42.9 ave BPL card 77.4 4357 69.1 18.4 52.0 Index 74.5 1057 69.7 17.4 43.4 76.0 989 69.6 26.0 45.1 74.5 895 68.9 22.5 48.3 77.4 927 75.1 18.8 58.7	-	-	-			-	d	1020
Index 77.4 4357 69.1 18.4 52.0 4.7 44.0 13.4 49.6 9.1 53.2 43.4 Index 74.5 1057 69.6 69.6 26.0 45.1 2.7 44.3 15.1 61.9 9.8 56.3 39.7 74.5 895 68.9 22.5 48.3 2.7 44.8 14.8 51.4 8.5 56.3 41.1 77.4 927 75.1 18.8 58.7 0.4 57.3 19.7 63.7 9.1 66.8 28.3 82.0 964 78.9 21.7 58.4 0.9 60.1 19.7 64.9 8.6 66.6 28.3 77.4 97 75.1 18.8 58.7 0.4 67.3 19.7 64.9 8.6 66.6 28.3 4 4 7 4.0 60.1 19.7 64.9 8.6 66.6 28.3 7 4 4	Index 77.4 4357 69.1 18.4 52.0 Index 74.5 1057 69.7 17.4 43.4 76.0 989 69.6 26.0 45.1 74.5 895 68.9 22.5 48.3 77.4 927 75.1 18.8 58.7	+	+	+	0.0	54.3	¥.1.5	3.8	7017
106x 1057 1057 1054 43.4 8.7 29.7 10.2 35.9 10.8 41.7 55.9 10.8 41.7 55.9 10.8 41.7 55.9 10.8 41.7 55.9 10.8 41.7 55.9 10.8 41.7 55.9 10.8 41.7 55.9 10.8 41.7 55.9 10.8 41.7 10.8 1	Index 74.5 1057 69.7 17.4 43.4 76.0 989 69.6 26.0 45.1 74.5 895 68.9 22.5 48.3 77.4 927 75.1 18.8 58.7	+	\exists	\exists	6.1	53.2	43.4	3.4	435/
7.4.50 1037 53.7 17.4 45.4 0.7 23.7 10.2 35.9 10.0 41.7 30.3 1 76.0 68.9 26.0 45.1 2.7 44.8 14.8 51.4 9.8 56.3 39.7 7.4.5 896 68.9 22.5 48.3 2.7 44.8 14.8 51.4 8.5 56.3 41.1 77.4 927 75.1 18.8 58.7 0.4 57.3 19.7 63.7 9.1 66.8 28.3 82.0 964 78.9 21.7 58.4 0.9 60.1 19.7 64.9 8.6 68.8 28.3 7.4 40.2 40.2 40.2 60.1 19.7 64.9 8.6 66.6 28.3	74.5 1057 75.1 174 45.4 17.4 17.4 17.4 17.4 17.4 17.5 17.1 18.8 58.7	-	-	-	007	717	0 11	2	1460
7.0.0 363 0.3.0 45.1 2.7 44.8 13.1 51.3 5.0 50.3 55.7 7.4.5 895 68.9 2.2.5 48.3 2.7 44.8 14.8 51.4 8.5 55.3 41.1 7.4 927 75.1 18.8 58.7 0.4 57.3 19.7 63.7 9.1 66.8 28.3 t 8.0 96.1 7.3 60.1 60.1 61.7 66.6 28.3 7.4 7.2 7.2 7.4 7.2 7.4 66.6 28.3	74.5 895 68.9 22.5 48.3 77.4 927 75.1 18.8 58.7			+	0.01	47	20.9	4.4	1265
t 820 964 789 21.7 58.4 0.9 60.1 14.5 60.2 0.7 52.8 17.5 60.5 17.5	77.4 927 75.1 18.8 58.7	+	+	+	ο α α	25.5	71.7	9 6	1247
t 82.0 964 78.9 21.7 58.4 0.9 60.1 19.7 64.9 8.6 66.6 28.3					9.1	66.8	28.3	4.9	1209
121 102 125 12 12 12 12 12 12	sst 82.0 964 78.9 21.7 58.4				8.6	9.99	28.3	5.1	1181
70.1 4632 07.8 20.3 40.4 4.3 42.0 14.3 43.3 3.7 33.0 42.0	4832 67.8 20.9 48.4	.4 4.3			9.7	53.6	42.8	3.6	6464

	ho hice/	pə	Percent	Percentage of children with diarrhoea taken to	en with dia 1 to	rrhoea	Oral re	Oral rehydration therapy	nerapy	ʻpin		əwo	ţue	ty Nesk
	Percentage w nerblido vbs beviecer nemtsert	Mo. of child who receiv advice/treati	Any health care facility/	Govt. health facility/ provider	Pvt. health facility/ provider	Other	ORS packet	Gruel	Either gruel or ORS	Increased fi	TAO ynA I bəssərəni	Other treatr including ho ybemer	Mo treatmo	nadmuM S> nashlida iw aga to sadrraib
Andhra Pradesh	78.8	189	74.6	32.8	44.5	2.6	35.9	18.4	46.5	15.5	54.9	42.0	3.2	240
Arunachal Pradesh	9.09	64	50.4	47.8	4.7	0.0	74.8	20.1	9.08	11.0	84.6	11.5	4.0	111
Assam	71.9	97	65.3	47.5	20.6	0.7	53.0	7.9	58.1	11.2	0.09	34.2	5.8	132
Bihar	74.0	296	63.8	3.9	60.2	2.0	22.4	13.6	34.3	10.0	40.4	58.0	1.6	384
Chhattisgarh	87.8	112	73.9	31.7	42.9	3.9	61.5	24.3	9:59	12.0	68.3	31.6	0.1	135
Delhi	78.4	244	77.0	30.8	49.1	0.3	70.2	18.7	72.6	15.4	75.2	23.7	1.1	310
Goa	87.0	107	86.7	13.5	73.9	0.0	79.3	17.8	80.9	11.6	81.8	18.2	0:0	120
Gujarat	75.2	292	65.6	22.5	46.4	9.0	56.9	5.9	59.2	12.7	63.0	33.0	4.1	380
Haryana	78.3	206	77.5	26.4	53.1	0.0	74.3	21.8	78.7	2.6	79.8	20.1	0.2	266
Himachal Pradesh	80.5	48	78.0	43.7	34.3	0.0	42.3	33.7	57.4	0.4	57.4	39.2	3.5	26
Jammu & Kashmir	76.6	165	75.6	58.0	26.6	0.4	9.92	5.4	77.9	32.3	79.8	17.2	3.0	222
Jharkhand	65.5	123	54.3	4.1	50.2	9.6	21.6	20.9	35.4	10.7	39.4	57.3	3.3	183
Karnataka	76.7	284	74.9	38.3	38.4	0.0	8.89	16.8	71.9	2.0	74.0	25.1	6.0	373
Kerala	9.68	73	87.5	41.3	46.3	2.1	56.4	32.1	66.1	32.7	74.2	25.8	0.0	82
Madhya Pradesh	71.1	313	8.99	20.0	48.7	0.5	41.5	7.5	44.7	4.0	45.9	9.09	3.5	420
Maharashtra	86.5	286	81.3	8.3	73.3	0.1	45.2	19.7	67.0	3.4	58.1	41.5	0.5	335
Manipur	70.5	122	55.6	36.8	19.3	0.3	75.7	17.9	78.0	8.3	82.9	16.4	8.00	180
Meghalaya	92.4	100	89.5	72.1	20.2	0.0	82.8	17.0	85.7	9.2	88.4	11.6	0.0	108
Mizoram	52.4	101	51.4	44.8	7.2	9.0	29.7	4.6	57.7	12.2	8.09	35.8	3.4	204
Nagaland	34.8	24	31.4	21.7	10.2	0.0	49.5	12.9	53.1	14.9	57.5	40.4	2.0	174
Orissa	74.3	109	67.3	45.8	21.5	2.0	61.8	3.5	63.5	23.0	0.69	30.7	0.3	152
Punjab	91.3	136	82.8	18.9	68.7	5.5	51.8	3.5	53.3	0.0	53.3	31.9	14.8	150
Rajasthan	80.0	224	75.8	41.9	37.9	1.0	39.2	11.0	45.1	4.7	48.9	45.2	0.9	274
Sikkim	64.7	51	64.7	52.8	12.4	0.0	44.7	2.8	44.7	26.0	63.5	24.5	12.0	70
Tamil Nadu	45.8	160	43.6	22.7	21.3	1.7	57.9	40.8	64.7	5.8	66.3	8.8	24.8	335
Tripura	86.3	153	84.7	69.2	21.0	0.0	72.2	3.1	75.0	29.4	76.4	22.7	8.0	176
Uttar Pradesh	79.0	309	54.0	6.7	47.9	21.2	14.3	6.7	19.5	12.3	29.2	70.2	9.0	369
Uttarakhand	87.7	74	75.4	15.1	62.6	13.0	13.4	2.9	13.8	4.7	17.6	61.6	20.8	98
West Bengal	76.3	06	74.3	9.2	65.7	1.0	36.5	13.1	44.1	17.9	49.9	50.1	0.0	116
UTs combined	75.7	250	0.69	29.6	44.7	0.5	1.09	4.8	61.2	12.3	65.4	23.8	10.9	321
Total	76.1	4832	8.79	20.9	48.4	4.3	45.8	14.5	49.3	6.6	53.6	42.8	3.6	6464

were asked whether they gave less, same or more quantity of breast milk and liquids to the child during diarrhoea than normally given. The analysis Many times, due to misconception, mothers stop breastfeeding and reduce liquids to the child during diarrhoea. This is a wrong practice. Mothers mothers gave less fluid to drink during diarrhoea. There were no significant variations in the proportion of mothers giving less breast milk or fluid with regard to gender of the child, place of residence, mother's education, and children belonging to households with different wealth quintiles. of the data is presented in Table 7.5. The table shows that 30.2 percent of the children were given less breast milk than normal and 34.5 percent

Table 7.5: Percentage of children under 2 years who had diarrhoea in two weeks preceding the survey by amount of breastfeeding and fluids offered **Background** Breastfeeding Number of Fluids to drink Number of characteristics <2-year-old <2-year-old children children who Usual Usual Less More Less More breastfeeding had diarrhea than than than than and who had # (N) usual usual usual usual diarrhoea (N) Child's Age (in months) 0-5 22.5 69.8 7.6 1126 29.0 54.8 9.3 1169 1666 6-11 33.0 59.9 6.9 38.2 52.9 8.0 1942 12-23 32.0 7.6 2390 3352 60.4 34.5 54.6 11.0 Gender * Male 32.1 59.9 8.0 1291 * 35.7 53.5 10.8 1828 * Female 32.4 60.3 7.3 1018 * 32.9 55.9 11.2 1524 * Residence Rural 30.2 61.7 8.1 2891 34.1 54.7 9.7 3538 Urban 30.0 64.1 5.6 2291 35.6 52.6 9.8 2926 Mother's Age (in years) 240 278 15-19 34.0 59.8 6.1 32.6 58.7 7.6 2023 20-24 29.5 62.8 7.6 37.5 2423 51.2 9.1 25-34 7.3 33.3 30.7 62.0 2653 55.5 10.2 3384 35-44 25.6 66.2 255 25.8 341 8.3 57.3 13.2 45+ 50.6 48.7 0.7 11 19.8 67.7 12.5 38 Mother's Education No education 31.6 60.6 7.7 1460 30.7 57.1 10.6 1740 <5 years complete 28.4 64.2 7.4 325 36.0 48.0 12.6 414 5-7 years complete 7.1 32.9 7.6 26.9 65.0 852 58.1 1036 8-9 years complete 31.5 60.4 8.0 858 37.8 52.4 8.3 1058 10-11 years complete 28.4 65.1 6.5 850 39.7 48.6 10.2 1111 12 or more years 31.5 63.0 5.5 837 37.9 50.2 9.7 1105 complete **Religious Group** Hinduism 29.4 62.7 7.8 3710 33.6 55.2 9.4 4600 Islam 34.8 58.7 6.3 818 33.9 52.0 13.1 992 Sikhism 39.5 59.2 1.4 90 44.6 52.1 3.2 116 Christianity 28.2 56.1 15.7 439 45.9 46.4 7.3 608 Others 14.3 85.7 0.0 125 53.9 44.0 0.7 148 **Social Group Scheduled Caste** 28.2 7.8 995 34.5 1201 63.8 55.1 9.6 Scheduled Tribe 29.5 764 29.3 61.2 63.6 6.8 9.2 972 Other backward 30.3 61.9 7.8 1937 36.1 52.0 9.7 2430 Classes Others 1486 33.4 54.7 10.2 1861 31.8 61.6 6.6 **BPL** status Have BPL card 31.9 59.4 8.6 1715 36.6 10.6 2107 51.3 Don't have BPL card 29.0 64.4 6.5 3467 33.2 55.9 9.2 4357 Wealth Index Lowest 64.5 1265 58.3 1462 28.1 7.4 29.2 10.8 9.8 35.1 57.1 7.8 1092 35.3 52.8 1365 Second 995 39.9 1247 Middle 29.4 63.7 6.6 50.8 8.6 Fourth 28.2 63.6 8.3 934 39.4 49.4 9.3 1209 Highest 29.9 63.3 6.4 896 34.9 54.7 8.6 1181 Total 30.2 62.4 7.4 5182 34.5 54.1 9.8 6464 * Data for children aged 12-23 months # unweighted cases

State differentials in feeding practices during diarrhoea compared with feeding practices before diarrhoea are shown in Tables 7.6a-c. Curtailing

breastfeeding during diarrhoea was widely prevalent in almost all States except in Delhi, Goa and Sikkim.

Table 7.6a: Percentage of children under 2 years who had diarrhoea in two weeks preceding the survey by amount of breastfeeding and fluids offered according to States/UTs-Total

States/UT	В	reastfeedir	ng	Number	FI	uids to drii	nk	Number of
	Less than usual	Usual	More than usual	of children currently breastfeeding and who had diarrhoea (N)	Less than usual	Usual	More than usual	children who had diarrhea # (N)
Andhra Pradesh	38.8	42.3	18.9	224	46.0	38.5	15.5	240
Arunachal Pradesh	44.6	46.1	9.3	91	36.5	52.5	11.0	111
Assam	36.4	47.5	16.1	115	45.8	43.0	11.2	132
Bihar	26.2	63.0	10.8	343	29.8	56.4	10.0	384
Chhattisgarh	30.5	59.1	10.3	125	31.2	56.7	12.0	135
Delhi	10.5	77.4	12.1	223	13.9	70.7	15.4	310
Goa	17.1	62.0	20.8	92	20.2	68.1	11.6	120
Gujarat	44.0	44.7	11.3	297	45.1	42.2	12.7	380
Haryana	18.6	80.3	1.0	195	15.6	81.9	2.6	266
Himachal Pradesh	26.6	73.3	0.1	43	44.4	55.2	0.4	56
Jammu & Kashmir	42.5	42.1	15.5	175	26.6	41.1	32.3	222
Jharkhand	34.5	60.5	5.0	158	37.6	48.5	10.7	183
Karnataka	34.1	60.6	5.3	281	42.9	52.0	5.0	373
Kerala	18.2	71.8	9.9	79	17.2	49.2	32.7	82
Madhya Pradesh	26.4	71.2	2.4	372	30.6	65.2	4.2	420
Maharashtra	21.9	75.7	2.4	292	41.7	47.0	3.4	335
Manipur	35.1	56.7	8.3	161	38.0	53.7	8.3	180
Meghalaya	29.9	60.5	9.5	94	34.9	56.0	9.2	108
Mizoram	32.8	57.3	9.8	169	32.8	55.0	12.2	204
Nagaland	33.3	56.1	10.7	93	29.8	55.3	14.9	174
Orissa	38.2	46.0	15.8	135	23.0	54.1	23.0	152
Punjab	42.4	57.1	0.5	124	44.6	55.4	0.0	150
Rajasthan	21.2	65.6	13.1	241	20.6	74.6	4.7	274
Sikkim	15.0	77.9	7.1	58	18.3	55.7	26.0	70
Tamil Nadu	41.7	49.3	6.0	127	47.7	44.2	6.4	335
Tripura	26.7	68.4	4.9	145	25.1	45.5	29.4	176
Uttar Pradesh	20.9	77.9	1.2	323	22.5	63.9	12.3	369
Uttarakhand	42.7	53.2	4.0	71	49.9	45.3	4.7	86
West Bengal	57.5	33.8	8.7	110	46.0	36.1	17.9	116
UTs combined	30.2	62.0	7.4	226	32.4	54.9	12.3	321
Total	30.2	62.4	7.4	5182	34.5	54.1	9.8	6464

Table 7.6b: Percentage of children under 2 years who had diarrhoea in two weeks preceding the survey by amount of breastfeeding & fluids offered according to States/UTs -Rural

States/UT	В	reastfeedir	ng	Number	FI	uids to drii	nk	Number of
	Less than usual	Usual	More than usual	of children currently breastfeeding and who had diarrhoea (N)	Less than usual	Usual	More than usual	children who had diarrhea # (N)
Andhra Pradesh	26.3	23.5	14.3	134	32.0	22.3	10.2	144
Arunachal Pradesh	31.4	28.2	6.0	56	24.9	33.4	6.7	71
Assam	26.1	33.8	12.1	76	32.8	27.9	8.0	87
Bihar	16.4	35.0	6.4	217	18.5	31.3	5.4	239
Chhattisgarh	16.4	32.1	5.7	66	16.9	31.6	5.2	70
Delhi	2.5	12.5	2.7	34	2.6	8.6	3.7	41
Goa	7.4	28.8	13.2	43	6.2	34.1	8.8	54
Gujarat	26.8	21.5	8.2	174	28.0	23.7	7.5	235
Haryana	9.7	41.4	0.3	99	6.7	39.0	0.8	127
Himachal Pradesh	15.4	43.4	0.0	23@	23.1	29.7	0.0	27
Jammu & Kashmir	21.5	21.3	8.6	96	14.3	19.6	15.6	115
Jharkhand	20.9	37.0	3.1	95	22.8	29.5	5.2	106
Karnataka	12.6	37.5	3.2	163	20.6	29.7	2.3	209
Kerala	11.3	37.7	7.0	44	8.3	25.7	21.4	45
Madhya Pradesh	15.2	42.0	1.0	215	16.7	38.4	1.8	240
Maharashtra	14.5	49.1	1.7	175	28.3	30.4	3.5	203
Manipur	16.1	29.2	4.8	86	21.2	27.5	5.7	99
Meghalaya	16.3	35.9	4.6	58	20.0	33.1	4.7	67
Mizoram	23.1	35.0	5.8	108	20.9	33.0	9.1	128
Nagaland	19.1	21.0	5.9	56	18.0	23.4	7.8	108
Orissa	28.5	31.4	12.1	86	13.6	38.3	16.8	92
Punjab	19.7	35.5	0.0	66	22.6	31.0	0.0	81
Rajasthan	10.9	33.7	7.4	135	9.4	40.0	1.7	150
Sikkim	6.4	29.2	2.5	24@	8.5	23.6	11.9	31
Tamil Nadu	21.5	37.2	5.0	79	25.7	33.2	4.8	213
Tripura	16.9	45.1	1.8	93	13.1	27.7	18.2	104
Uttar Pradesh	13.0	49.8	1.0	195	14.3	40.4	7.6	222
Uttarakhand	19.3	22.8	1.1	29	21.7	16.1	.9	30
West Bengal	41.0	18.8	4.0	72	27.9	25.1	7.9	74
UTs combined	13.6	24.4	2.7	94	13.1	19.6	5.1	126
Total	30.2	61.7	8.1	2891	34.1	54.7	9.7	3538

[@] Sample base fewer than 25 # unweighted cases

Table 7.6c: Percentage of children under 2 years who had diarrhoea in two weeks preceding the survey by amount of breast feeding and fluids offered according to States/ UTs -Urban

States/UT	В	reastfeedir	ng	Number	FI	uids to drii	nk	Number of
	Less than usual	Usual	More than usual	of children currently breastfeeding and who had diarrhoea (N)	Less than usual	Usual	More than usual	children who had diarrhea # (N)
Andhra Pradesh	11.4	21.4	3.0	90	12.3	18.0	5.2	96
Arunachal Pradesh	10.1	21.0	3.3	35	10.0	20.0	5.0	40
Assam	10.6	15.1	2.3	39	8.8	20.4	2.0	45
Bihar	4.0	34.2	4.1	126	5.3	30.2	6.0	145
Chhattisgarh	14.5	27.3	4.1	59	14.1	21.8	10.5	65
Delhi	8.2	64.5	9.5	189	11.4	61.5	12.2	269
Goa	9.8	33.3	7.4	49	14.3	34.0	2.7	66
Gujarat	16.8	23.9	2.8	123	16.9	18.7	5.3	145
Haryana	8.8	38.8	1.0	96	9.5	41.8	2.2	139
Himachal Pradesh	13.4	27.1	0.7	20@	23.9	21.1	2.2	29
Jammu & Kashmir	21.6	21.5	5.6	79	10.1	23.0	17.5	107
Jharkhand	13.8	23.6	1.7	63	13.8	18.0	7.1	77
Karnataka	23.7	21.1	1.9	118	23.0	21.5	2.8	164
Kerala	6.3	36.1	1.6	35	9.9	24.7	8.7	37
Madhya Pradesh	11.4	28.8	1.6	157	14.4	25.7	3.0	180
Maharashtra	7.4	26.6	0.7	117	13.5	16.5	0.0	132
Manipur	20.5	26.5	2.8	75	16.2	28.0	1.3	81
Meghalaya	14.9	21.9	6.5	36	15.0	21.5	5.7	41
Mizoram	10.3	21.9	3.9	61	11.9	21.6	3.4	76
Nagaland	3.8	48.2	2.1	37	2.4	42.4	5.9	66
Orissa	7.5	18.5	2.1	49	14.5	13.0	3.8	60
Punjab	25.1	18.8	0.7	58	23.0	23.4	0.0	69
Rajasthan	10.7	32.3	5.0	106	12.7	32.3	3.8	124
Sikkim	5.4	51.4	5.1	34	7.6	36.8	11.5	39
Tamil Nadu	19.3	14.4	2.7	48	21.1	11.9	1.8	122
Tripura	10.1	20.1	6.0	52	15.9	15.7	9.3	72
Uttar Pradesh	8.3	27.9	0.0	128	8.1	23.6	5.0	147
Uttarakhand	21.9	30.8	4.1	42	24.0	31.9	5.5	56
West Bengal	13.6	17.0	5.7	38	18.1	8.9	12.0	42
UTs combined	19.5	36.4	3.4	132	20.2	34.7	6.9	195
Total	30.0	64.1	5.6	2291	35.6	52.6	9.8	2926

[@] Sample base fewer than 25 # unweighted cases

7.3 MANAGEMENT OF ACUTE RESPIRATORY INFECTION

Acute Respiratory Infection (ARI), primarily pneumonia, is one of the leading causes of the childhood morbidity and mortality. Early diagnosis and treatment can prevent a large proportion of ARI-related deaths. Mothers of children below 2 years were asked whether their child had cough with fast breathing and fever during 2 weeks preceding the survey. The analysis of the data shows that 18.8 percent of the children below 2 years reportedly suffered from ARI symptoms (Table 7.7).

ARI symptoms were more common among boys (18.7 percent) than girls (16 percent); among 6-11 month-old children (21.4 percent) than

12-23 month-old children (17.7 percent); and among children from households with lowest wealth quintile (20.7 percent) than households with highest wealth quintile (16.5 percent). Prevalence of ARI symptoms was high among Muslim children.

Table 7.7 presents the healthcare seeking data for children suffering from ARI in the previous 2 weeks. Around 83 percent of the children who had ARI symptoms were taken to a health facility or health provider for treatment. More children were taken to a private health facility/provider (63.4 percent) than government health facility/provider (21.1 percent). As expected, more urban children, and children belonging to households with higher wealth quintile were taken to a health facility than their counterparts from rural areas and from households with lower wealth quintiles.

Table 7.7: Percentage of child and sought treatment from									
Background characteristics	Percentage	Number of	Perce	ntage treat	ed by	Number			
	of children with symptoms of ARI	surviving children under 2 years # (n)	Govt. health facility/ provider	Pvt. health facility/ provider	Any health facility	of children who suffered from ARI#			
Age in Months									
<6	18.3	9985	22.1	59.5	79.5	1443			
6-11	21.4	12527	19.9	64.7	83.6	2276			
12-23	17.7	22598	21.3	64.3	83.5	3587			
Gender *									
Male	18.7	12212 *	21.8	62.1	81.8	2051 *			
Female	16.0	10386 *	21.1	65.6	84.3	1536 *			
Residence									
Rural	18.9	25236	21.9	59.6	79.6	4037			
Urban	18.5	19904	19.0	73.3	90.5	3269			
Mother's Education									
No education	19.7	11140	17.9	57.5	74.1	1951			
<5 years complete	19.5	2434	23.7	66.3	86.8	416			
5-7 years complete	18.8	7107	23.3	60.8	82.3	1193			
8-9 years complete	18.7	7606	22.4	64.9	85.5	1261			
10-11 years complete	18.5	7800	25.2	68.4	91.2	1234			
12 or more years complete	16.5	9053	20.3	77.5	93.8	1251			

Table 7.7: Contd Background characteristics	Percentage	Number of	Doros	ntage treat	ad by	Number
background characteristics	of children	surviving	Govt.	Pvt.	Any	of children
	with	children	health	health	health	who
	symptoms	under 2	facility/	facility/	facility	suffered
	of ARI	years # (n)	provider	provider		from ARI #
Religious Group						
Hinduism	18.2	32640	22.2	61.9	82.2	5586
Islam	23.8	5851	15.2	69.6	83.0	1155
Sikhism	13.6	803	15.0	78.2	92.6	116
Christianity	11.8	4948	38.1	51.5	87.6	338
Others	18.9	848	23.7	63.8	86.3	111
Social Group						
Scheduled Caste	18.2	8050	23.1	59.5	80.1	1445
Scheduled Tribe	15.3	7738	24.3	52.9	75.4	731
Other backward Classes	19.3	15798	20.9	62.5	81.9	2860
Others	19.5	13554	19.2	69.8	87.0	2270
BPL status						
Have BPL card	17.9	14135	23.7	60.6	82.6	2313
Don't have BPL card	19.3	31005	19.6	64.9	82.6	4993
Wealth Index						
Lowest	20.7	9012	18.1	54.2	71.1	1813
Second	19.8	9035	25.1	60.3	83.2	1474
Middle	17.5	9050	22.7	69.4	90.0	1370
Fourth	16.6	9015	24.6	70.8	92.0	1359
Highest	16.5	9028	16.3	80.4	95.5	1290
Type of fuel for cooking						
Electricity, LPG, PNG, Biogas	16.2	19220	19.7	76.5	93.7	2701
Kerosene, coal, lignite, charcoal	21.1	2719	19.0	69.6	87.4	497
Wood	18.9	19237	26.7	54.7	79.4	3243
Straw, shrub, agriculture crop waste, Dung Cakes	21.8	3964	11.1	64.9	75.1	865
Total	18.8	45140	21.1	63.4	82.6	7306

^{*} Data for children aged 12-23 months

The percentage of children with ARI symptoms varied considerably across States (Table 7.8). The percentage of children under 2 years of age who suffered from ARI during 2 weeks preceding the survey ranged from 4 percent in Nagaland to 25.9 percent in Tripura. More than 90 percent of the children suffering from ARI in Delhi, Goa,

Haryana, Himachal Pradesh, Karnataka, Kerala, Maharashtra, Meghalaya, Punjab, Sikkim and Tripura were taken to a health facility or health provider for treatment. On the other hand, in Arunachal Pradesh and Nagaland less than 70 percent children were taken to any health facility/provider for treatment.

[#] unweighted cases

Table 7.8: Percentage of children under 2 years who had ARI during 2 weeks preceding the survey and sought treatment from health facility or provider by States/UTs States/UT Percentage Number of Percentage treated by Number of children surviving of children Govt. Pvt. Any with children who health health health symptoms under 2 suffered facility/ facility/ facility of ARI years # (n) from ARI# provider provider Andhra Pradesh 18.8 1780 22.6 69.0 88.2 308 Arunachal Pradesh 6.7 1141 51.9 64.5 68 15.8 Assam 14.6 1738 50.3 32.7 79.2 279 22.8 76.7 82.9 505 Bihar 2114 6.4 Chhattisgarh 18.5 1047 30.2 56.2 85.0 183 Delhi 19.5 1164 28.1 90.7 230 66.6 Goa 12.8 1075 12.7 85.7 97.0 119 23.9 24.9 64.9 373 Gujarat 1560 84.4 13.9 1259 30.8 64.8 92.2 168 Haryana 104 Himachal Pradesh 9.6 1102 32.3 60.5 92.6 Jammu & Kashmir 20.7 37.7 1231 55.3 83.7 239 7.9 Jharkhand 21.5 1268 64.1 70.9 275 Karnataka 11.8 1518 42.6 48.5 90.7 177 Kerala 12.6 1572 48.8 46.9 94.2 185 Madhya Pradesh 14.1 2062 14.9 61.2 75.8 319 20.5 2017 Maharashtra 15.4 79.6 93.1 384 Manipur 10.1 1258 39.4 42.6 77.8 120 Meghalaya 5.0 1159 58.9 45.1 94.3 56 Mizoram 1231 44.4 45.9 87.6 5.1 59 Nagaland 4.0 1268 24.4 28.8 50.6 50 20.5 1809 42.6 37.2 79.4 330 Orissa 200 16.8 1132 16.5 79.7 94.7 Punjab Rajasthan 11.1 1796 49.6 44.5 89.9 234 Sikkim 5.1 1061 68.7 24.2 91.2 90 Tamil Nadu 14.8 45.3 352 2131 46.8 8.88 25.9 **Tripura** 1187 70.3 40.3 95.5 325 Uttar Pradesh 23.1 2236 7.5 64.7 72.3 541 Uttarakhand 18.9 1150 9.5 74.8 83.2 191 West Bengal 22.2 1652 12.9 67.0 77.8 358 UTs combined 21.4 2422 46.4 54.5 95.8 484 Total 18.8 45140 21.1 63.4 82.6 7306 # unweighted cases

7.4 USE OF BED-NETS AMONG CHILDREN

Table 7.9 shows that only 28.5 percent of households with children aged 12-23 months had

a bed-net. The proportion of such households was slightly higher in rural areas (29.5 percent) as compared to those in urban areas (25.9 percent). Twenty two percent of mothers/care givers reported that the index child slept under it all seven days and 77.4 percent children never slept under the bed-net.

	ısing bed-net by ı		
Responses	Rural	Urban	Total
Percentage of households which had bed-nets	29.5	25.9	28.5
Frequency of using bed-net by child (number of days	per week)		
Never slept under bed-net	73.4	76.9	74.4
1-3 days	1.5	2.1	1.7
4-6 days	1.8	0.9	1.5
All 7 days	23.3	20	22.4
Number of children #	12635	9969	22604

States/UTs	Percentage of	Freque	ency of us	ing bed-n	et (in days)	Number
	households having bed-nets	1-3	4-6	All 7 days	Never slept under bed-net	of children aged 12-23 months #
Malaria Endemic States						
Andhra Pradesh	10.8	1.3	0.8	8.4	89.6	887
Arunachal Pradesh	93.7	1.4	3.7	87.1	7.8	585
Assam	95.4	1.4	2.3	91.7	4.6	875
Gujarat	13.6	3.1	1.5	7.6	87.7	786
Karnataka	26.1	2.7	4.9	17.8	74.6	751
Madhya Pradesh	15.9	2.1	0.6	9.9	87.5	1040
Maharashtra	15.1	0.6	0.7	10.2	88.5	1020
Manipur	96.9	0.4	0.1	96.4	3.1	630
Meghalaya	65.3	7.9	16.8	40.3	35.0	586
Mizoram	97.0	1.2	1.7	93.8	3.4.0	624
Nagaland	45.9	0.7	0.9	43.2	55.3	641
Orissa	51.3	2.1	0.4	44.1	53.4	889
Rajasthan	3.8	0.5	0.5	2.4	96.6	894
Tripura	99.5	0.8	-	98.5	0.7	603

States/UTs	Percentage of	Freque	ency of us	ing bed-n	et (in days)	Number
	households having bed-nets	1-3	4-6	All 7 days	Never slept under bed-net	of children aged 12-23 months #
Uttar Pradesh	14.8	0.4	2.0	8.3	89.3	1112
West Bengal	87.3	0.6	0.2	85.7	13.6	827
Non-malaria Endemic Sta	ites					
Bihar	50.3	1.3	2.0	40.6	56.1	1055
Chhattisgarh	29.3	3.7	0.7	22.7	72.9	522
Delhi	16.1	3.8	1.2	3.5	91.5	585
Goa	8.9	0.8	0.7	7.4	91.1	534
Haryana	9.4	3.5	2.5	2.7	91.3	634
Himachal Pradesh	1.3	0.9	-	-	99.1	547
Jammu & Kashmir	10.5	2.3	1.6	-	96.1	620
Jharkhand	57.3	2.8	0.2	34.8	62.3	635
Kerala	44.1	6.5	8	29.6	55.9	760
Punjab	4.7	3.6	0.1	0.5	95.8	570
Sikkim	9.0	1.5	0.7	3.2	94.5	535
Tamil Nadu	5.6	2.1	0.3	3.0	94.6	1068
Uttarakhand	15.4	1.7	1.3	9.0	88.0	576
UTs combined	20.1	3.5	1.0	14.4	81.1	1213
Total	28.5	1.7	1.5	22.4	74.4	22604

Chapter 8

Conclusions and Way Forward

The CES 2009 captures and provides coverage levels of some key maternal and child health interventions at state level. However, inter-district variations within the States are not ascertained in this survey. When compared with DLHS-3 survey (conducted in 2005/2006), the CES results represent the impact of RCH-II/ NRHM on coverage of key maternal, newborn and child health indicators.

The most notable achievements were made in maternal care. More pregnant women received antenatal care - at least 1 ANC visits increased by about 15 percent; 3+ ANC rose by 19 percent and full ANC showed a rise by about 8 percent when compared to DLHS3. Of concern however, is the low level of IFA consumption during pregnancy. The conditional cash transfer worked to its fullest under JSY and pushed institutional deliveries from 47 percent (DLHS3) to 73 percent seen in the present survey. However, the institutional deliveries, in spite of some progress, remained less than 50 percent in states such as Bihar, Chhattisgarh, Himachal Pradesh, Jharkhand, Nagaland and Uttarakhand. In parallel, skilled birth attendance reached a coverage level of 76 percent from 53 percent seen previously. ASHAs were able to make their presence felt by facilitating 21 percent of all institutional deliveries.

Immunization coverage improved marginally (measles and full immunization coverage increased by 5 percent and 7.5 percent respectively). Some States continue to have high immunization drop-out rates resulting in low levels of full immunization. The DPT and OPV booster immunization also remained static at the same low levels as seen in previous CES 2006.

Though proportion of newborns checked up within 24 hours of birth has risen by about 20 percent since DLHS3, probably due to phenomenal rise in institutional deliveries, breast feeding within 1 hour of birth dropped by 7 percent, reflecting a significant missed opportunity. About 20 percent more children suffering from diarrhea received lifesaving ORT or increased fluids as compared to DLHS3 data. Harmful practices such as decreasing fluids or reducing breast feeding during childhood diarrhea remains prevalent at significant levels and should be addressed urgently by planners.

While CES shows increased coverage of most interventions as compared to DLHS-3, the finding should be viewed with a note of caution. The DLHS-3 was undertaken in 2005-6 and covered a period of previous 3 years. On the other hand, CES 2009 gives coverage estimates for 1 year previous to survey.

The quality of care, social inequity and interstate disparity remain areas of concern. For example, in CES 2009, the full ANC coverage is high Kerala (78 percent) while in otherwise better performing states it remains low – to name a few - Andhra Pradesh (46 percent), Tamil Nadu (44 percent) and Goa (53 percent). Within Bihar, higher proportions of children from highest wealth quintile (81 percent) have received full immunization as compared to those in lowest wealth quintile (45 percent). Severe shortage of human resources, slow improvement of health infrastructure, and limited capacity of

programming, planning and implementation at the district level thereby hampering utilization of allocated funds are some of the challenges that NRHM needs to overcome to bring about substantial reductions in maternal and child mortality.

CES 2009 can stimulate identification of operational research into key issues in delivery of MCH interventions such as why breast feeding rates remain low on the face of high institutional births and posting of ASHAs and AWW in all villages.

There is also need for triangulation of the findings of the CES 2009 with data available in the Health management Information System (HMIS) and other small scale state level surveys and studies.

The finding of this survey should lead to enhanced discussion between MOHFW, Planning Commission, States Governments and other partners to understand the bottlenecks in delivery of MCH interventions and improve quality for effectiveness.

Periodic critical information on key MCH indicators is boon to planners and programmers. MOHFW has commissioned Annual Health Survey in 284 districts of 9 States, with reports likely in 2011. Further, DLHS4 and NFHS4 are also on the drawing board. While awaiting findings of these large surveys, the results of the CES 2009 should be useful for preparation of State and District plans.

Appendices and Questionnaires

APPENDIX 1

List of Variables for the development of Wealth Index

Assets	Coding categories
Time of house	Pucca House=1
Type of house	Otherwise=0
Source of drinking water	Piped water, Hand Pump=1
Source of diffiking water	Otherwise=0
What type of fuel	Electricity or LPG=1
Triat type of faci	Otherwise=0
Ownership of house	Yes=1
	No=0
Toilet facility	Flush/Pour flush, Pit latrine, Twin pit=1
	Otherwise=0
Does this household own any irrigated agricultural land?	Yes=1; No=0
Does this household own any livestock?	Yes=1; No=0
Main Source of Lighting	Electricity=1 Otherwise=0
Does your HH have - Electricity?	Yes=1; No=0
Does your HH have - A mattress?	Yes=1; No=0
Does your HH have - A pressure cooker?	Yes=1; No=0
Does your HH have - A chair?	Yes=1; No=0
Does your HH have - A cot or bed?	Yes=1; No=0
Does your HH have - A table?	Yes=1; No=0
Does your HH have - An electric fan?	Yes=1; No=0
Does your HH have - A radio or transistor?	Yes=1; No=0
Does your HH have - A block and white television?	Yes=1; No=0
Does your HH have - A colour television?	Yes=1; No=0
Does your HH have - A sewing machine?	Yes=1; No=0
Does your HH have - A mobile telephone?	Yes=1; No=0
Does your HH have - Any other type of telephone?	Yes=1; No=0
Does your HH have - A computer?	Yes=1; No=0
Does your HH have - A refrigerator?	Yes=1; No=0
Does your HH have - A watch or clock?	Yes=1; No=0
Does your HH have - A bicycle?	Yes=1; No=0
Does your HH have - A motor cycle or scooter?	Yes=1; No=0
Does your HH have - An animal-drawn cart?	Yes=1; No=0
Does your HH have - A car?	Yes=1; No=0
Does your HH have - A water pump?	Yes=1; No=0
Does your HH have - A thresher?	Yes=1; No=0
Does your HH have - A tractor?	Yes=1; No=0

APPENDIX 2

QUESTIONNAIRE Child Immunization Coverage

	Schedule Number	
ID	ENTIFICATION	
State		
District		
CD block/tehsil/taluk		
Rural/Urban $(Rural - 1, urban - 2)$		
PSU Number		
Name of Village/Ward		
Name of Household Head		
Address		
Name of the respondent for the first section		
Number of mothers with child 12-23 months in	n the household	
Interview Date Month	Year	
Date		
Number of visits made		
Result status of questionnaire	Completed	1
	No eligible respondent at home	2
	Entire HH absent for extended period	
	Refused	4
	Other (specify)	6
Name and code of the investigator	Signature of the investigator	
Spot/back checked by		
Name	Date	

Introduce yourself in the following way:

Namaste! My name is ------ and I am working for ORG Centre for Social Research. We are conducting a national survey for Government of India/UNICEF on immunization services for children and maternal care of women. We would greatly appreciate the participation of your household in this survey. I would like to ask you some questions about your household and some about the immunization of the children in the age group 12-23 months. The information will help the government to assess health and information needs and to plan better health services. Information you provide will be kept strictly confidential and used only for research.

This questionnaire is for immunization of children. We learn that there is a child in the age group 12-23 months in this household. If this information suggests that there is no child of that age group, then politely discontinue.

SECTION 1: HOUSEHOLD PROFILE

This section to be administrated to the head of the household/any other adult respondent.

Q. No.	Question	Responses Code Skip to
101.	How many members usually live in this household including yourself?	Males Females Members >= 5 years
		Members <5 years
		Total
102.	What is the religion of the head of household?	Hindu
		Christian 4 Jain 5 Other (specify) 6
103.	What is the caste of the head of household?	Scheduled caste
Now I v	vill like to ask you some questions about yo	ur household
104.	What kind of toilet facility does your household use?	Flush or pour flush toilet Own flush toilet
		Public pit toilet/latrine

Q. No.	Question	Responses	Code	Skip to
105.	What is the main source of lighting for	Electricity	1	
	your household?	Solar energy		
		Kerosene		
		Biogas	4	
		Gas		
		Oil		
		Other (specify)		
106.	What type of fuel does your household	Electricity	1	
	mainly use for cooking?	Lpg/natural gas	2	
		Biogas		
		Kerosene		
		Coal/lignite		
		Charcoal		
		Wood		
		Straw/shrubs/grass		
		Agricultural crop waste		
		Dung cakes		
		Other (specify)	96	
107	NAME of the construction of the first section	. ,	30	
107.	What is the main source of drinking water	Piped water	4	
	for members of your household?	Piped into residence/yard/plot		
		Public tap	2	
		Ground water		
		Hand pump into residence/yard/p		
		Public hand pump	4	
		Well water		
		Well into residence/yard/plot		
		Protected well	5	
		Unprotected well	6	
		Public well		
		Protected well	7	
		Unprotected well	8	
		Spring water		
		Protected spring	9	
		Unprotected spring	10	
		Rain water	11	
		Tanker/truck	12	
		Surface water	13	
[Other (specify)		
108.	Does your household own this house or	Yes		
	any other house?	No.		
100	,			
109.	How many rooms in this household are	Do o mo		
	used for sleeping?	Rooms		
110.	Does your household own any	Yes		\ 440
	agricultural land?	No	2	→ 113
111.	How much agriculture land does this			
[household own?			
[Acres		
[(If not in acres, specify size and unit			
		<u> </u>		

Q. No.	Question	Responses	Code	Skip to
112.	Out of this land, how much land is irrigated?	Acres].	
	(If not in acres, specify size and unit)	None	9995	
113.	Does your household own any livestock?	Yes		
114.	Do you have the following items in your house? Mattress? Pressure cooker? Chair? Cot or bed? Table? Electric fan? Radio or transistor? Black and white television? Colour television? Sewing machine? Mobile telephone? Other type of telephone? Computer? Refrigerator? Watch or clock? Bicycle?	Mattress 1 Pressure cooker 1 Chair 1 Cot or bed 1 Table 1 Electric fan 1 Radio or transistor 1 Black and white television 1 Colour television 1 Sewing machine 1 Mobile telephone 1 Other type of telephone 1 Computer 1 Refrigerator 1 Watch or clock 1 Bicycle 1 Motor cycle or scooter 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
115.	Motor cycle or scooter? Animal-drawn cart? Car? Water pump? Thresher? Tractor? Does any usual member of this household have a bank account or a post	Animal-drawn cart 1 Car 1 Water pump 1 Thresher 1 Tractor 1 Yes No		
116.	office account? Does this household have a BPL card?	Yes	1	
117.	Type of house Record observations Roof	NachhaSemi-puccaPucca	1	
118.	Type of windows Record observations	Any windows Windows with glass Windows with screen Windows with curtains or shutters	1 2 1 2	
119.	Ask respondent for a teaspoonful of cooking salt. Test salt for iodine	0 Ppm (no iodine) Less than 15 ppm More than 15 ppm	2	
	Record ppm (parts per million)	No salt in household		

SECTION 2A: CHILD'S PROFILE

Q. No.	Question	Responses	Code	Skip to
201.	What is the name of your child in age group 12-23 months?			
202.	What is the gender of the child?	BoyGirl		
203.	What is his/her date of birth?	Date DD MM Y	YYY	
204.	What is the age of [name of child]? (In completed months)	Age (in completed months)		
205.	Whether the child has celebrated his/her second birthday?	Yes		→ End
206.	What is the birth order of the (name)?	Birth order		
207.	Does this household have a bed-net that can be used for sleeping?	Yes		→ 210a
208.	How many days during the last one week the child slept under the bed-net?	Number of days		
209.	Was the bed-net treated with a chemical (insecticide) to kill mosquitoes/bugs in the last 6 months?	Yes No Don't know	2	

SECTION 2B: RESPONDENT'S PROFILE

Ask the remaining questions to the mother/care taker of the child

Q. No.	Question	Responses	ode	Skip	o to
210a.	Name of the respondent				
210b.	Type of respondent	Mother	1		
		Care taker	2		
211.	What is your age?				
	(In completed years)	Years			
212.	Can you read and write any language	Yes	1		
	with understanding?	No	2		
213.	Have you ever been to school?	Yes	1	\rightarrow	215
		No	2		
214.	How many years of schooling you have completed?	Years of schooling completed			
215.	Can your husband read and write in any	Yes	1	\rightarrow	301
	language with understanding?	No	2		
216.	Has your husband ever been to school?	Yes	1		
		No	2		
217.	How many years of schooling your	Years of schooling completed			
	husband has completed?	Don't know	98		

SECTION 3: KNOWLEDGE AND AWARENESS OF IMMUNISATION

Q. No.	Question	Responses				Cod	e Skip to
301.	Do you know what vaccines an infant should get before he/she attains age of one year?	Yes					
	(A child should get BCG, DPT, OPV, and Measles during his/her first year).						
302.	List the immunizations, number of doses a get the first dose	and age (in months) at which child should					
	Note: Let the mother spontaneously name the vaccinations required. Circle '1' for all vaccines mentioned spontaneously. If she is not able to recall all the vaccines then read the vaccines not mentioned and circle '2' if she responds positively. Circle '8' for all those vaccines not known to the respondent.				accines not		
	Vaccinations	Voluntary	After	Don't			know ask for
		reporting			No. of doses required Record not know	d. 8 if wn	Age at which First dose required (Months). Record 98 if not known
	BCG – A vaccination against tuberculosis, that is, an injection that usually causes a scar	1	2	8			
	DPT – A vaccination against Diphtheria, Whooping Cough and Tetanus given to the child as an injection A	1	2	8			
	OPV – Polio vaccine that is, drops in the mouth	1	2	8			
	Hepatitis B – An injection given along with DPT and OPV	1	2	8			
	Measles – an injection against measles given at right arm/shoulder	1	2	8			
	Vitamin A – a dose given with spoon generally along with measles	1	2	8			

SECTION 4: COVERAGE BY ROUTINE IMMUNISATION

Q. No.	Question	Responses	Code	Ski	ip to
401.	Is there an immunization card/any	Card seen, completely filled	1	\rightarrow	403
	document for recording immunization for	Card seen, partially filled	2		
	[NAME]? If yes, may I see it, please?	Card seen with no entry	3		
		Yes, card not seen	4	\rightarrow	403
		No card available	5]	404
		Don't know	8	5	404
402.	Why card is blank/partially filled?	Forgot to take the card during			
		immunization	1		
		Had misplaced the card	2		
		Anm/doctor never recorded	3		
		Other (specify)	6		
403.	Who issued you this card?	Government facilities/personnel	1	1	
		Non-government facilities/personne	I	}	407
		(private)	2]]	
404.	Was there any immunisation card made	Yes, it got lost, did not ask for other	1	h	
	for (Name's) immunisation?	Yes, it got destroyed, did not ask for		}	409
		other	2	J	
		No	3		
405.	Do you know that a card has to be	Yes	1		
	issued to maintain record of your child	No	2	\rightarrow	409
	immunization?				
406.	Why did you not get the card made?	No body approached me	1	1	
		It was not available at the health cer	nter 2		409
		I did not see the advantage	3		403
		Other (specify)	6]]	

CHECK Q401: IF CODED '4' SKIP TO Q408

407.	Immunization status of the child:	BCG	Day	Month	Year
		POLIO 0			
	Copy dates from the card.	HEP B (Birth)			
		POLIO 1			
	If only part of the date is shown on the card, record 98 or 9998 for don't know	POLIO 2			
	column for which information is not given	POLIO 3			
		DPT 1			
		DPT 2			
	If card shows vaccination given but no date recorded, write '44' in day column	DPT 3			
		HEP B 1			
		HEP B 2			
		HEP B 3			
		Measles			
		Vitamin A 1			
		Dpt booster			
		Opv booster			
		MMR			
		Vitamin A 2			

that are not recorded on this card? Record 'yes' only if respondent mentions bcg, dpt 1-3, polic, 0-3 and/or measles vaccine (s). Has (name) received any vaccinations to prevent him/her from certain diseases? No. 2 2	Q. No.	Question	Responses	Code	Skip to
Record 'yes' only if respondent mentions bcg, dpt 1-3, polio, 0-3 and/or measles vaccine (s).	408.	Has (name) received any vaccinations	Yes	1	
Don't know		that are not recorded on this card?			3 423
bcg, dpt 1-3, polio, 0-3 and/or measles If yes record '66' in day column of the above table for the vaccinations given and skip to 423 437			Don't know	8] .20
Vaccine (s). above table for the vaccinations given and skip to 423					
Has (name) received any vaccinations to prevent him/her from certain diseases? No.		vaccine (s).	1	en and	
Prevent him/her from certain diseases?	400		•		
Now please tell me if (Name) has received any of the following vaccinations. A BCG vaccination against tuberculosis, that is, an injection that usually causes a scar?	409.	I			1
Now please tell me if (Name) has received any of the following vaccinations.		prevent min/her nom certain diseases:			} 437
A BCG vaccination against tuberculosis, that is, an injection that usually causes a scar?	Now pl	ease tell me if (Name) has received any of t			1,
that is, an injection that usually causes a scar? Any polio vaccine, that is, drops in the mouth? Any polio vaccine, that is, drops in the mouth? Don't know				1	
Scar? Don't know 8	410.				
Any polio vaccine, that is, drops in the mouth? No					
Mounty No	411.				
Don't know					1
polio campaign] 412. Was the first Polio Vaccine received in the first two weeks after birth? 413. How many times Polio Vaccine received? (Excluding polio '0' and pulse polio) (Record no. of times) Probe for drops usually given along with DPT. Exclude pulse polio immunisation 414. A DPT vaccination against Diphtheria, Whooping Cough and Tetanus given to the child as an injection? 415. How many DPT injections were given in thigh or buttocks, sometimes at the same time as polio drops? (Record no. of times) 416. Was an injection against MEASLES given at right arm/shoulder? 417. Has (NAME) ever received a VITAMIN A dose? Instruction: A dose given from a bottle with spoon 418. How many times was the VITAMIN A Number.					} 414
412. Was the first Polio Vaccine received in the first two weeks after birth? 413. How many times Polio Vaccine received? (Excluding polio '0' and pulse polio) (Record no. of times) Probe for drops usually given along with DPT. Exclude pulse polio immunisation 414. A DPT vaccination against Diphtheria, Whooping Cough and Tetanus given to the child as an injection? 415. How many DPT injections were given in thigh or buttocks, sometimes at the same time as polio drops? (Record no. of times) 416. Was an injection against MEASLES given at right arm/shoulder? 417. Has (NAME) ever received a VITAMIN A dose? Instruction: A dose given from a bottle with spoon 418. How many times was the VITAMIN A Number.		[Don't include drops given during pulse			
the first two weeks after birth? No		polio campaign]			
How many times Polio Vaccine received? (Excluding polio '0' and pulse polio) Don't know	412.	Was the first Polio Vaccine received in	Yes	1	
(Excluding polio '0' and pulse polio) (Record no. of times) Probe for drops usually given along with DPT. Exclude pulse polio immunisation 414. A DPT vaccination against Diphtheria, Whooping Cough and Tetanus given to the child as an injection? 415. How many DPT injections were given in thigh or buttocks, sometimes at the same time as polio drops? (Record no. of times) 416. Was an injection against MEASLES given at right arm/shoulder? 417. Has (NAME) ever received a VITAMIN A dose? Instruction: A dose given from a bottle with spoon 418. How many times was the VITAMIN A Number.		the first two weeks after birth?	No	2	
Record no. of times Probe for drops usually given along with DPT. Exclude pulse polio immunisation	413.	How many times Polio Vaccine received?	Number		
Probe for drops usually given along with DPT. Exclude pulse polio immunisation 414. A DPT vaccination against Diphtheria, Whooping Cough and Tetanus given to the child as an injection? 415. How many DPT injections were given in thigh or buttocks, sometimes at the same time as polio drops? (Record no. of times) 416. Was an injection against MEASLES given at right arm/shoulder? Has (NAME) ever received a VITAMIN A dose? Instruction: A dose given from a bottle with spoon A Don't know		(Excluding polio '0' and pulse polio)	Don't know	8	
Probe for drops usually given along with DPT. Exclude pulse polio immunisation 414. A DPT vaccination against Diphtheria, Whooping Cough and Tetanus given to the child as an injection? 415. How many DPT injections were given in thigh or buttocks, sometimes at the same time as polio drops? (Record no. of times) 416. Was an injection against MEASLES given at right arm/shoulder? Has (NAME) ever received a VITAMIN A dose? Instruction: A dose given from a bottle with spoon A Don't know					
DPT. Exclude pulse polio immunisation 414. A DPT vaccination against Diphtheria, Whooping Cough and Tetanus given to the child as an injection? 415. How many DPT injections were given in thigh or buttocks, sometimes at the same time as polio drops? (Record no. of times) 416. Was an injection against MEASLES given at right arm/shoulder? 417. Has (NAME) ever received a VITAMIN A dose? Allow Many times was the VITAMIN A Number. 418. How many times was the VITAMIN A Number.		(Record no. of times)			
DPT. Exclude pulse polio immunisation 414. A DPT vaccination against Diphtheria, Whooping Cough and Tetanus given to the child as an injection? 415. How many DPT injections were given in thigh or buttocks, sometimes at the same time as polio drops? (Record no. of times) 416. Was an injection against MEASLES given at right arm/shoulder? 417. Has (NAME) ever received a VITAMIN A dose? Allow Many times was the VITAMIN A Number. 418. How many times was the VITAMIN A Number.		Poster for done or all of an alexandria			
A DPT vaccination against Diphtheria, Whooping Cough and Tetanus given to the child as an injection? No		1			
Whooping Cough and Tetanus given to the child as an injection? 415. How many DPT injections were given in thigh or buttocks, sometimes at the same time as polio drops? (Record no. of times) 416. Was an injection against MEASLES given at right arm/shoulder? Has (NAME) ever received a VITAMIN A dose? Instruction: A dose given from a bottle with spoon 418. How many times was the VITAMIN A Number. 100n't know 8 416. No. 22 Don't know 8 417. Has (NAME) ever received a VITAMIN A dose? Don't know 8 418. How many times was the VITAMIN A Number.	414		V		
the child as an injection? Don't know	414.				1
How many DPT injections were given in thigh or buttocks, sometimes at the same time as polio drops? (Record no. of times) 416. Was an injection against MEASLES given at right arm/shoulder? Has (NAME) ever received a VITAMIN A dose? Instruction: A dose given from a bottle with spoon 418. How many times was the VITAMIN A Number.					} 416
thigh or buttocks, sometimes at the same time as polio drops? (Record no. of times) 416. Was an injection against MEASLES given at right arm/shoulder? Has (NAME) ever received a VITAMIN A dose? Instruction: A dose given from a bottle with spoon 418. How many times was the VITAMIN A Number.	445				
time as polio drops? (Record no. of times) 416. Was an injection against MEASLES given at right arm/shoulder? Has (NAME) ever received a VITAMIN A dose? Instruction: A dose given from a bottle with spoon 418. How many times was the VITAMIN A Number.	415.	I = = = = = = = = = = = = = = = = = = =			
(Record no. of times) 416. Was an injection against MEASLES given at right arm/shoulder? Yes 1 No 2 2 Don't know 8 417. Has (NAME) ever received a VITAMIN A dose? Yes 1 Instruction: A dose given from a bottle with spoon Don't know 8 418. How many times was the VITAMIN A Number			Don't know	0	
416. Was an injection against MEASLES given at right arm/shoulder? Has (NAME) ever received a VITAMIN A dose? Instruction: A dose given from a bottle with spoon How many times was the VITAMIN A Number.		time as pono drops:			
416. Was an injection against MEASLES given at right arm/shoulder? Has (NAME) ever received a VITAMIN A dose? Instruction: A dose given from a bottle with spoon How many times was the VITAMIN A Number.		(Record no. of times)			
at right arm/shoulder? No	416.		Yes	1	
Don't know			No	2	
dose? Instruction: A dose given from a bottle with spoon All. How many times was the VITAMIN A No		-	Don't know	8	
Instruction: A dose given from a bottle with spoon 418. How many times was the VITAMIN A Don't know	417.	Has (NAME) ever received a VITAMIN A	Yes	1	1
Instruction: A dose given from a bottle with spoon 418. How many times was the VITAMIN A Number			No	2	420
with spoon 418. How many times was the VITAMIN A Number			Don't know	8)
418. How many times was the VITAMIN A Number		_			
		with spoon			
dose received? Don't know 8	418.	How many times was the VITAMIN A	Number		
		dose received?	Don't know	8	

Q. No.	Question	Responses	Code	Skip to
419.	Was your child given vitamin A supplement during the last 6 months?	Yes	2	
420.	Was HEPATITIS-B Injection given to the child?	Ves	2	} 423
421.	How many times did he/she receive Hepatitis B vaccine?	Number Don't know		
422.	Was the first HEPATITIS B vaccine received in the first two weeks after birth?	Yes	2	
423.	Did (NAME) ever receive any vaccinations to prevent him/her from getting disease, including vaccinations received in a Pulse Polio campaign?	Yes	2	} 425
424.	How many times (NAME) got drops during Pulse Polio Campaign in last one year?	Number Don't know		
Check	question 204 and ask Qs.425 & 426 Only if [r	name] has completed 18 months of a	ge	
425.	Has [Name] received any booster dose for DPT (given after DPT 3)?	Yes No Don't know	2	
426.	Has [name] received any booster dose for opv (given after opv 3)? (Don't include opv given during pulse	Yes	2	
	polio campaign)			
426A.	Has [name] received any dose for mmr (measles mumps rubella)?	Yes	2	
l	107, 410, 414, 416 & 420: If child was given ie, if not skip to 437	bcg, dpt, hepatitis b or measles at lea	ast once, t	then
427.	Was the syringe opened from a packet in front of you?	Yes	1	
428.	Whether the syringe was bought by you or it was provided by the health facility?	Bought by the respondent Provided by the facility Don't know	2	
429.	Was your child given all vaccination using disposable syringe (syringe opened from a packet)?	Yes		

Q. No.	Question	Responses	Code	Skip to
430.	From where did (NAME) receive most of his/her vaccinations?	Government/municipal hospital PHC/CHC Sub centre Private hosp./Clinic Other private facility Anganwadi centre Some other place in the village Other (Specify)	2456	
431.	How far the place is from your house?	KMS		
432.	How long it takes to travel to the place?	Minutes		
433.	Which are the sources of your information about immunization? Any other? Record all mentioned	ANM/LHV/health worker (Male) Aww	B C F G G J	
434.	How many times you/any other family member visited for your child's last vaccination?	Once	1	→ 436
435.	What are the reasons?	Service provider absent	B C	
436.	During any of your visit did you receive message/advice on following at least once (Read out) A. What injections were given on that	What injections were given	es No	
	B. Were the side effects of the vaccination and their management	Side effects of vaccination and their management	1 2	
	explained C. When to come for next vaccination	When to come back Remember to bring card during	1 2	
	D. Remember to bring card during the next visit		1 2	

Q. No.	Question	Responses	Code	Skip to		
Check 407-416. If the child has not received any/some of the vaccinations, then ask 437.						
If child	If child has received, all vaccinations, then skip to 501					
437.	Your child has not received any or	Do not feel need for vaccination A				
	some of the vaccinations, what are the	Do not know what vaccines are needed				
	reasons?	and when? B				
		Do not know where to take child for				
		immunization	C			
Any other?		Fear of side effects	D			
		Services not available when required E				
		Cannot afford the cost	nnot afford the costF			
	Record all mentioned	Too far to take the child	e childG			
		Did not have time to take child for immunization				
		Time is not convenient				
		Place is not convenient				
		Other (specify)	X			

SECTION 5: BREASTFEEDING AND SUPPLEMENTARY FEEDING PRACTICES

Instruction: In case the respondent is a care taker skip to 513

Q. No.	Question	Responses	Code	Ski	p to
501.	Did you ever breastfeed [name]? Yes		1		
		No2		\rightarrow	511
502.	How long after birth did you first put (name) to the breast?	Immediately/within half an hour 000			
	If less than half an hour, circle '000'.	Hours1			
	If less than 24 hours, record hours Otherwise, record days	Days 2			
503.	Was the colostrums ('keel/yellowish/thick breast milk) fed to the child?	Yes, was fed to the child		→	505
504.	Why colostrum was not fed to the child? (Use local term for colostrum)	Relatives against feeding colostrum Against religion/tradition Colostrum is harmful to the child	2		
	Anything else?	Infant may get diarrhoea Advised not to feed child for 3 days	5		
	Record all mentioned	Others (specify)			
504a.	Was the child given any prelacteal feed before starting breasfeeding?	Yes			
505.	In the first three days after delivery, was [name] given anything to drink other than breast milk	Yes		→	507
506.	What was [name] given to drink?	Milk (other than breast milk)			
	Anything else?	Plain water Sugar or glucose water	C		
	Record all mentioned	Gripe water Sugar-salt-water solution Fruit juice	Е		
		Infant formula	G		
		HoneyJanam ghutti	1		
		Other (specify)			
507.	Are you still breastfeeding?	Yes	1	→	509
508.	How many times in last 24 hours, you breastfeed your child?	Number			
509.	Till how many days/months did you exclusively breastfeed the child?	Days 1			
		Months 2			
510.	During first six months of [name] what type of feeding was done?	Breast milk			
		Other milk	C		
	Any thing else?	Other food suppliments			
		Other (specify)	X		

Q. No.	Question	Responses	Code	Sk	ip to
511.	Did anybody talk to you as to when	Yes1 No2			
	breast feeding needs to be initiated?			\rightarrow	513
512.	From where did you get these	Anm/lhv/health worker (male) A			
	information?	AWW	В		
		Govt. Doctor	C		
	Any one else?	Pvt. Doctor	D		
		Social worker, ngo worker	E		
	RECORD ALL MENTIONED	Radio/tv			
		Billboards, posters at health centers	3,		
		Booklets, newspaper etc	G		
		Husband or family members	H		
		Asha	I		
		Traditional birth attendant	J		
		Friends/neighbours			
		Other (specify)	X		
513.	Has (name) had diarrhoea in the last two	Yes		1	
	weeks?	No	2	518	
		Don't know	8]	
514.	During the current (last) episode of	,	es No		
	diarrhoea have you given the following				
	liquids to the child?				
	A. Plain water	A. Plain water	1 2		
	B. Salt and sugar solution	B. Salt and sugar solution	1 2		
	C. Fruit juice	C. Fruit juice			
	D. Lime water	D. Lime water			
	E. Gruel made from rice	E. Gruel made from rice			
	(other local grain)	(other local grain)	1 2		
	F. Home remedy	F. Home remedy			
	G. Breast milk	G. Breast milk	1 2		
515.	Did you give ors solution to child during	Yes	1		
	the current (last) episode of diarrhoea?	No	2		
515a.	If respondent is care taker (210b = 2) and/	Less than usual	1		
	or 507=2 skip to q515b	Usual			
		More than usual	3		
	How much (name) was breastfed during				
	the current (last) episode of diarrhoea?				
	Was he/she breastfed less than usual,				
	usual or more than usual?				
515b.	How much (name) was given to drink	Less than usual	1		
	during the current (last) episode of	Usual	2		
	diarrhoea? Was he/she given less than	More than usual	3		
	usual, usual or more than usual?				
515c.	How much (name) was given to eat	Less than usual	1		
	during the current (last) episode of	Usual	2		
	diarrhoea? Was he/she given less than	More than usual	3		
	usual, usual or more than usual?				
	Did the	Yes	1		
516.	Did you seek advice or treatment for the	1 es			

Q. No.	Question	Responses	Code	Sk	ip to
517.	Where did you seek advice or treatment?	Government			
		Hospital	A		
	Anywhere else?	Dispensary	В		
		UHC/UHP/UFWC	C		
	If unable to determine if a hospital/	CHC/rural hospital	D		
	health centre/clinic is government or	PHC	E		
	private medical sector, write the name of	Sub-centre	F		
	the place(s)	Anganwadi/icds centre	G		
		Asha	H		
		Ayush hospital/clinic	1		
	Name of the place(s)	Other public sector health facility	/J		
	' '	NGO/trust hosp./Clinic			
	(Record all mentioned)	Private			
	,	Hospital			
		Doctor/clinic			
		Ayush hospital/clinic			
		Pharmacy/drug store			
		Other pvt. Sector health facility			
		Other (specify)			
518.	Has (name) been ill with fever at any time	Yes			
510.	in the last two weeks?	No			
	in the last two weeks:	Don't know			
F10	Lie / a see North and the second at any				
519.	Has (name) been ill with cough at any	Yes			004
	time in the last two weeks?	No			601
		Don't know)	
520.	When (name) had this illness with a	Yes			
	cough, did he/she breathe faster than	No			
	usual with short, rapid breaths or have	Don't know	8		
	difficulty in breathing?				
521.	Did you seek advice or treatment for the	Yes	1		
	illness from any source?	No	2	\rightarrow	601
522.	Where did you seek advice or treatment?	Government			
	Anywhere else?	Hospital	A		
		Dispensary	В		
	If unable to determine if a hospital/	UHC/UHP/UFWC	C		
	health centre/clinic is government or	CHC/rural hospital			
	private medical sector, write the name of	PHC	E		
	the place(s)	Sub-centre	F		
		Anganwadi/icds centre			
		Asha	H		
	Name of the place(s)	Ayush hospital/clinic	I		
		Other public sector health facility	/J		
	(Record all sources mentioned)	NGO/trust hosp./Clinic	K		
		Private			
		Hospital	I		
		Doctor/clinic	M		
		Ayush hospital/clinic	N		
		Pharmacy/drug store			
		Other pvt. Sector health facility			
		Other (specify)			

SECTION 6: ACCESSIBILITY OF IMMUNISATION SERVICES

Q. No.	Question	Responses	Code	Skip	to
601.	How often ANM/Health Worker comes to				
	this village/area for vaccination?				
		Once a month	3		
		Once a quarter	4		
		Sometimes	5		
		Never	6		
		DK/CS	7		
		Other (specify)	96		
602.	Is routine immunization session held in	Yes	1)	
	your village/area?	No	2	}	606
		Don't know	8	J	
603.	Where it is held?	Icds centre/awc	1		
		Sub-centre/urban health post	2	\rightarrow	505
		Pradhan's house	3		
		Community center	4		
		Under a tree	5		
		Home	6		
		Other (specify)	96		
604.	Are the sessions always held at the same	Yes	1		
	place?	No	2		
605.	Is this place convenient for you to take	Yes	1		
	services?	No	2		
606.	What are your suggestions to improve such sessions?	Record all suggestions			
	Probe for week day, convenient place etc.				

Thank The Respondent And End The Interview

APPENDIX 3

QUESTIONNAIRE Maternal Care Services

	Schedule Number				
IDENTIFICATION					
State					
District					
CD block/tehsil/taluk					
Rural/Urban (Rural – 1, urban – 2)				Ī	
PSU Number					
Name of Village/Ward					
Name of Household Head]	
Address					
Name of the respondent for the first section					
Number of mothers with child 12-23 months in the household					
Interview Date Month	Year				
Date					
Number of visits made					
Result status of questionnaire	Completed		. 1		
	No eligible respondent at home		. 2		
	Entire HH absent for extended period		. 3		
	Refused		. 4		
	Other (specify)		_ 6		
Name and code of the investigator	Signature of the investigator				
Spot/back checked by					
Name	Date				

Introduce yourself in the following way:

Namaste! My name is ------ and I am working for ORG Centre for Social Research. We are conducting a national survey for Government of India/UNICEF on immunization services for children and maternal care of women. We would greatly appreciate the participation of your household in this survey. I would like to ask you some questions about your household and some about the maternal care services of the women who has delivered a child in last 12 months. All Information you provide will be kept strictly confidential and used only for research.

This questionnaire is for maternal care of women who had delivery in last 12 months. If this information suggests that there is no woman who delivered during the last 12 months, then politely discontinue.

SECTION 1: HOUSEHOLD PROFILE

This section to be administrated to the head of the household/any other adult respondent

Q. No.	Question	Responses Code S	Skip to
120.	How many members usually live in this household including yourself?	Males Females Members >= 5 years	
		Members <5 years	
		Total	
121.	What is the religion of the head of	Hindu 1	
	household?	Muslim 2	
		Sikh 3	
		Christian 4	
		Jain 5	
		Other (specify)6	
122.	What is the caste of the head of	Scheduled caste 1	
	household?	Scheduled tribe 2	
		Other backward class 3	
		Other castes4	
Now I v	vill like to ask you some questions about yo	ur household	
123.	What kind of toilet facility does your	Flush or pour flush toilet	
	household use?	Own flush toilet 1	
		Shared flush toilet 2	
		Public flush toilet 3	
		Pit latrine/latrine	
		Own pit toilet/latrine 4	
		Shared pit toilet/latrine5	
		Public pit toilet/latrine	
		No facility/bush/field7	
		Other (specify)96	

Q. No.	Question	Responses	Code	Skip	to
124.	What is the main source of lighting for	Electricity	1		
	your household?	Solar energy			
		Kerosene			
		Biogas	4		
		Gas	5		
		Oil	6		
		Other (specify)	7		
125.	What type of fuel does your household	Electricity	1		
	mainly use for cooking?	Lpg/natural gas	2		
		Biogas	3		
		Kerosene	4		
		Coal/lignite	5		
		Charcoal	6		
		Wood	7		
		Straw/shrubs/grass	8		
		Agricultural crop waste	9		
		Dung cakes	10		
		Other (specify)	96		
126.	What is the main source of drinking water	Piped water			
	for members of your household?	Piped into residence/yard/plot	1		
		Public tap	2		
		Ground water			
		Hand pump into residence/yard/	plot3		
		Public hand pump	4		
		Well water			
		Well into residence/yard/plot			
		Protected well	5		
		Unprotected well	6		
		Public well			
		Protected well			
		Unprotected well	8		
		Spring water			
		Protected spring			
		Unprotected spring			
		Rain water			
		Tanker/truck			
		Surface water			
		Other (specify)			
127.	Does your household own this house or	Yes			
	any other house?	No	2		
128.	How many rooms in this household are used for sleeping?	Rooms			
129.	Does your household own any	Yes	1		
	agricultural land?	No	2	\rightarrow	113
130.	How much agriculture land does this				
	household own?				
1	nodonola own.	Acres			
	(If not in acres, specify size and unit				
	· · ·	·			

Q. No.	Question	Responses	Code	Skip to
131.	Out of this land, how much land is irrigated?	Acres		
	(If not in acres, specify size and unit)	None	9995	
132.	Does your household own any livestock?	Yes	1	
		No	2	
133.	Do you have the following items in your house?	Y	'es No	
	Mattress?	Mattress	1 2	
	Pressure cooker?	Pressure cooker	1 2	
	Chair?	Chair	1 2	
	Cot or bed?	Cot or bed	1 2	
	Table?	Table	1 2	
	Electric fan?	Electric fan	1 2	
	Radio or transistor?	Radio or transistor	1 2	
	Black and white television?	Black and white television	1 2	
	Colour television?	Colour television	1 2	
	Sewing machine?	Sewing machine	1 2	
	Mobile telephone?	Mobile telephone	1 2	
	Other type of telephone?	Other type of telephone	1 2	
	Computer?	Computer	1 2	
	Refrigerator?	Refrigerator	1 2	
	Watch or clock?	Watch or clock	1 2	
	Bicycle?	Bicycle	1 2	
	Motor cycle or scooter?	Motor cycle or scooter	1 2	
	Animal-drawn cart?	Animal-drawn cart	1 2	
	Car?	Car	1 2	
	Water pump?	Water pump	1 2	
	Thresher?	Thresher	1 2	
	Tractor?	Tractor	1 2	
134.	Does any usual member of this	Yes	1	
	household have a bank account or a post	No	2	
	office account?	Don't know		
135.	Does this household have a BPL card?	Yes		
100.	Book tills flouderfold fluve a Bi E dard.	No		
		Don't know	8	
136.	Type of house	Kachha		
	Record observations	Semi-pucca		
	RoofWall	Pucca	3	
	Floor			-
137.	Type of windows		es No	
	Record observations	Any windows		
		Windows with glass		
		Windows with screen		
		Windows with curtains or shutters.		1
138.	Ask respondent for a teaspoonful of	0 Ppm (no iodine)		
	cooking salt. Test salt for iodine	Less than 15 ppm		
		More than 15 ppm		
	Record ppm (parts per million)	No salt in household	4	

SECTION 2: RESPONDENT'S BACKGROUND CHARACTERISTICS

(Target Population: Index Mother with delivery in last 12 months)

Q. No.	Question	Responses	•	Skip to
201.	Name of the woman			
202.	What is your age? (In completed years)	Age in completed years		
203.	Can you read and write any language with understanding?	Yes		
204.	Have you ever been to school?	Yes	_	→ 206
205.	How many years of schooling you have completed?	Years of schooling completed		
206.	Can your husband read and write in any language with understanding?	Yes No Not applicable	.2	→ 209
207.	Has your husband ever been to school?	Yes		→ 209
208.	How many years of schooling your husband has completed?	Years of schooling completed	98	
209.	How many deliveries you had?	Number		
210.	How many live births you had?	Number 0	0	→ 212
211.	How many children are currently living?	Male		
212.	What was the outcome of your last pregnancy?	Still birthLive birth		→ 217a
213.	Is the child alive?	Yes		→ 216
214.	Name of the child			
215.	What is the current age of the child? (If less than 1 month code 00)	Age in completed months		→ 217a
216.	What was the age of the child at the time of death? (If age is less than 1 month, then record in days)	Age in completed months		
217a.	Does this household have a bed-net that can be used for sleeping?	Yes		→ 301
217.	How many days during the last one week the mother slept under the bed-net?	Number of days		
218.	Was the bed-net treated with a chemical (insecticide) to kill mosquitoes/bugs in the last 6 months?	Yes No Don't know	.2	

SECTION 3: ANTE-NATAL, NATAL AND POST-NATAL CARE

Q. No.	Question	Responses	Code	Ski	ip to
Now I v	would like to ask you some questions about	the Antenatal, Natal and Post-Natal o	care for y	our	
pregna	ncy that happened during last one year.				
301.	Did you register your last pregnancy for	Yes	1		
	getting antenatal care services?	No	2	\rightarrow	303
302.	Pregnancy was registered with whom?	Government doctor	1		
		Private doctor	2		
		Anm	3		
		Anganwadi worker	4		
		Asha	5		
		Other (specify)	6		
303.	When you were pregnant with (NAME/	Yes	1		
	THE STILL BIRTH), did you receive	No	2	\rightarrow	311
	antenatal care?	(If No, probe)			
304.	In which month of last pregnancy did you	Months			
	receive first antenatal care?	Don't know	98		
305.	How many times you received antenatal	Number of times			
	check up during last pregnancy?	Don't know ·····	98		
306.	Where did you receive antenatal care for	Government			
	last pregnancy?	Hospital	A		
		Dispensary			
	Any other place?	UHC/uhp/ufwc			
		CHC/RUR. Hosp			
	If unable to determine if a hospital/	PHC			
	health centre/clinic is government or	Sub-centre			
	private medical sector, write the name of	Anganwadi/icds centre			
	the place(s)	Ayush hospital/clinic			
	Name of the place(s)	Other public sect. Health facility NGO/trust hosp./Clinic			
	Name of the place(s)	Private	J		
	(Record all mentioned)	Hosp./Maternityhome/clinic	К		
	(1.000rd dil montoriod)	Ayush hospital/clinic			
		Other Pvt. Sect. Health facility			
		Home			
		Home	N		
		Parents'home	O		
		Other home	P		
		Other (specify)	X		

Q. No.	Question	Responses	Code	Skip to
307.	As part of your antenatal care during last			
	pregnancy, were any of the following	Ye	s No	
	done at least once? (READ OUT)			
	Weight measured?	Weight1	2	
	Height measured?	Height1	2	
	Blood pressure checked?	Blood pressure1	2	
	Blood tested?	Blood1	2	
	Urine tested?	Urine1	2	
	Abdomen examined?	Abdomen1	2	
	Breast examined?	Breast examined1	2	
	Sonogram or Ultrasound done?	Sonogram or ultrasound1	2	
	Delivery date told?	Delivery date1	2	
	Delivery advice given?	Delivery advice1	2	
	Nutrition advice given?	Nutrition advice1	2	
308.	During (any of) your antenatal care			
	visit (s), did any one tell you about	Ye	es No	
	the following signs of pregnancy			
	complications? (READ OUT)			
	Vaginal bleeding?	Vaginal bleeding1	2	
	Convulsions?	Convulsions1	2	
	Prolonged labour?	Prolonged labour1	2	
309.	Did any one tell you where to go (health	Yes	1	
	facility) if you have any pregnancy	No	2	
	complications?			
310.	During (any of) your antenatal visit (s),			
	did you receive advice on the following	Ye	es No	
	at least once? (READ OUT)			
	Breastfeeding?	Breastfeeding1	2	
	Keeping the baby warm?	Keeping baby warm1	2	
	Need for cleanliness at the time of	Cleanliness1	2	
	delivery?			
	Family planning advice?	Family planning1	2	
	Better nutrition for mother and child?	Nutrition1	2	
	Need for Institutional Delivery?	Institutional delivery1	2	
	Advice to use iodised salt	Advice to use iodised salt1	2	
	Counseling for IFA tablets	Counseling for ifa tablets1	2	
311.	Did you receive/purchase IFA tablets/	Yes	1	
	syrup bottles?	No		→ 315
312.	How many IFA tablets/syrup bottles	Number of tablets		
012.	did you receive/purchase during last			
	pregnancy?	Number of bottles		
	programoy:	TAGINDOI OI DOLLIOS		

→ 317
7 017
→ 329

Q. No.	Question	Responses	Code	Skip to
318.	Who facilitated or motivated you to avail	Doctor	A	
	antenatal care?	Anm	В	
		Health worker	C	
	(Record all mentioned)	Anganwadi worker	D	
		Asha	E	
		Ngo/cbo	F	
		Husband	G	
		Mother-in-law	H	
		Mother	I	
		Relatives/friends	J	
		Self	K	
		Other (specify)		
319.	During your last pregnancy did you	Y	'es No	
	suffer from any of the following health	Any windows	1 2	
	problems? (READ OUT)	Swelling of hands, feet and face		
	Swelling of hands, feet and Face	Paleness/giddiness/weakness		
	Paleness/giddiness/weakness	Visual disturbances		
	Visual disturbances	Excessive fatigue	1 2	If 'no'
	Excessive fatigue	Convulsions not from fever		For all
	Convulsions not from fever	Weak or no movement of foetus	1 2	Go to
	Weak or no movement of foetus	Abnormal position of foetus	1 2	→ 322
	Abnormal position of foetus	Malaria		
	Malaria	Excessive vomiting	1 2	
	Excessive vomiting	Hypertension/high bp		
	Hypertension/High BP	Jaundice		
	Jaundice	Excessive bleeding		
	Excessive bleeding	Vaginal discharge		
	Vaginal Discharge	Other (specify)		
	Other (Specify)			
320.	Did you seek treatment for any of these	Yes	1	
	above (319) health problems?	No	2	→ 322
321.	Where did you go for consultation or to	Government		
	seek treatment?	Hospital	A	
		Dispensary		
	(For problems mentioned in 319)	UHC/UHP/UFWC		
		CHC/Rural hospital	D	
	(Record all mentioned)	PHC		
		Sub center	F	
		Ayush hospital/clinic	G	
		NGO/trust hospital/clinic		
		Private		
		Hospital/clinic	1	
		Ayush hospital/clinic		
		Other (specify)		
322.	Did you receive any supplementary	Yes		
	nutrition from the Anganwadi centre	No		→ 325
	during last pregnancy?			

Q. No.	Question	Responses	Code	Skip to
323.	In a week, how many days you have received supplementary nutrition from Anganwadi centre?	Number of Days		
324.	Whether you have shared this food with other family members?	Yes		
325.	Where did your last delivery take place?	Government Hospital Dispensary UHC/UHP/UFWC CHC/rural hospital PHC Sub center Ayush hospital/clinic	2 4 5	
		NGO/trust hospital/clinic		}→ 327
326.	Who facilitated or motivated you to go to health facility for delivery? (Record all mentioned)	Doctor	B	
327.	During delivery, did you experience any of the following problems? (READ OUT) Did you experience premature labour? Did you experience excessive bleeding? Did you experience prolonged labour? Did you experience obstructed labour? Did you experience breech presentation? Did you experience Convulsion? Did you experience High B.P? Any Other?	Any windows	1 2 1 2 1 2 1 2 1 2 1 2 1 2	
328.	Was the delivery normal or caesarean or assisted?	Normal Caesarean By instrument or assisted	1	

Q. No.	Question	Responses		Code	Skip to
329.	Who conducted your last delivery?	Health personnel			
		Doctor		1	
		ANM/Nurse/LHV		2	
		Other person			
		Dai		3	
		Relatives/friends		4	
		Other (specify)		6	
		No one			
330.	At the time of last delivery were the following done? (READ OUT)	Ye	s No	o DK	
	A. Was the baby immediately wiped dry and then wrapped?	A. Wiped and wrapped 1	2	9	
	B. Was the child given bath immediately after delivery?	B. Given bath 1	2	9	
	C. Was a new/sterilized blade used to cut the cord?	C. New/sterlized blade 1	2	9	
	D. Was a Disposable Delivery Kit (Mamta Kit) used?	D. DDK/mamta kit used 1	2	9	
331.	Check Q325: if code 12 & 96, ask q331	A. Cost too much		A	
	else skip to 332	B. Poor quality service		В	
	What are the reasons for not going to	C. Too far/no transport		C	
	health facility for delivery?	D. No time to go		D	
		E. Not necessary		E	
	(Record all mentioned)	F. Not customary		F	
		G. Better care at home		G	
		H. Family did not allow		H	
		I. Lack of knowledge		l	
		X. Other (specify)		X	
Check 3	325: if institutional delivery then ask 332 to 3	336 else skip to 337			
332.	What was the main mode of	Ambulance		1	
	transportation used by you to reach the	Jeep/car			
	health facility?	Motorcycles/Scooter			
1	,	Bus/train			
		Tempo/auto/tractor			
		Cart			
		On foot			
1		Other (specify)			
200	Har for an the also fill to				
333.	How far was the place of delivery from	KMs			
	your house?	Don't know/can't say		98	
	If less than one km code '00'				
334.	How long it took to reach that place?	Minutes			
335.	How much it cost you for the	Rupees L			
	transportation to the health facility for	No cost paid			
	delivery?	Don't know		99998	

Q. No.	Question	Responses	Code	Skip to
336.	How much cost you incurred for delivery excluding transport cost?	Delivery costRupees No cost paid00		
		Don't know999	998	
337.	Do you know the danger signs of new born? (READ OUT)	`	es No	
	A. Baby does not cry immediately	A. Baby does not cry immediately	1 2	
	B. Blue tongue & lips	B. Blue tongue & lips	1 2	
	C. Difficulty in breathing	C. Difficulty in breathing	1 2	
	D. Cold/hot to touch	D. Cold/hot to touch	1 2	
	E. Abnormal movement	E. Abnormal movement	1 2	
	F. Poor sucking of breast	F. Poor sucking of breast	1 2	
	G. Develop yellow staining of palm and	G. Develop yellow staining of		
	soles	palm and soles	1 2	
338.	Did you (mother) have any check-up	Yes	1	
	within first 10 days after delivery?	No	2	→ 343
339.	Did you (mother) have any check-up	Yes	1	
	within first hour after delivery?	No	2	
		Don't know	8	
340.	How many check ups were done during 3-7 days after delivery?	Number of check UPS		
341.	Where did the first check-up take place?	Government		
		Hospital	1	
		Dispensary	2	
		UHC/UHP/UFWC		
		CHC/Rural hospital	4	
		PHC	5	
		Sub center	6	
		ICDS	7	
		Ayush hospital/clinic	8	
		NGO/trust hospital/clinic	9	
		Private		
		Hospital/clinic		
		Ayush hospital/clinic	11	
		Home		
		Doctor	12	
		ANM/Nurse	13	
		Asha		
		AWW		
		Other (specify)	96	

Q. No.	Question	Responses	Co	de	Ski	p to
342.	Did any of the following happen when	,	Yes	No		
	you had the check-up: (READ OUT)					
	A. Was your abdomen examined?	Abdomen examined	1	2		
	B. Was Vulva and the Perineum	Vulva and perineum examined	1	2		
	examined?	B.P. And pulse measured	1	2		
	C. Was B.P and Pulse was measured?	Advice on breastfeeding	1	2		
	D. Did you receive advice on	Advice on baby care	1	2		
	breastfeeding?	Advice on family planning		2		
	E. Did you receive advice on baby care?	Advice on nutrition	1	2		
	F. Did you receive advice on family planning?	Other (specify)	1			
	G. Did you receive advice on nutrition?					
	X. Any other?					
	Check 212 :Live birth	Still birth				
					→	501
	Last Pregnancy	Last Pregnancy				
343.	Did your child have any check-up after	Yes		1		
	delivery within 24 hours of birth?	No		2		345
		Child did not survive		3		501
		Don't know		8		345
344.	Did any of the following happen when your child had the check-up:	Yes 1	No	DK		
	A. Checked the umbilicus, skin and eyes	Checked the umbilicus,	_	_		
		skin and eyes 1	2	8		
	B. Informed, the baby should be warm to	Informed, the baby should				
	touch at the abdomen and the soles of	be warm to touch at the	_	_		
	the feet should be pink	abdomen 1	2	8		
	C. Ensured good sucking at the breast	Ensured good sucking at	•	•		
		the breast 1	2	8		
	D. Asked for danger signs	Asked for danger sign 1	2	8		
	(Refer Q337 for danger signs)					

Q. No.	Question	Responses	Code	Skip to
345.	How many check-ups took place for the new born child within 10 days of his/her birth?	No. of times		}→ 401
346.	Where did first check-up take place for your child?	Government Hospital Dispensary UHC/UHP/UFWC CHC/Rural hospital Phc Sub center Icds Ayush hospital/clinic Ngo/trust hospital/clinic Private Hospital/clinic Ayush hospital/clinic Ayush hospital/clinic Ayush hospital/clinic Ayush nospital/clinic Ayush hospital/clinic Home Doctor Anm/nurse Asha Aww Other (specify)	234567891011121314	

SECTION 4: BREASTFEEDING AND SUPPLEMENTARY FEEDING PRACTICES

CHECK Q212: IF STILL BIRTH SKIP TO Q501

Q. No.	Question	Responses	Code	Ski	p to
401.	Did you ever breastfeed [Name]?	Yes	1		
		No	2	\rightarrow	411
402.	When did you first breast feed your child?	Immediately/within an hour	000		
		Hours1			
	If less than one hour, circle '000'. If less than 24 hours, record hours Otherwise, record days	Days 2			
403.	Was the colostrum ('Keel/yellowish/thick	Yes, was fed to the child	1		
	breast milk) fed to the child?	No		→	405
404.	Why colostrum was not fed to the child?	Relatives against feeding colostrum.	1		
		Against religion/tradition			
	(Use local term for colostrum)	Colostrum is harmful to the child	3		
		Infant may get diarrhoea	4		
	Record verbatim	Advised not to feed child for 3 days			
		Others (specify)			
404a.	Was the child given any prelacteal feed	Yes			
	before starting breasfeeding?	No			
405.	In the first three days after delivery, was	Yes			
	[NAME] given anything to drink other	No	2	→	407
	than breast milk				
406.	What was [NAME] given to drink?	Milk (other than breast milk)			
	Anything alog?	Plain water			
	Anything else?	Sugar or glucose water			
	Record all mentioned	Sugar-salt-water solution			
	necord an membried	Fruit juice			
		Infant formula			
		Tea			
		Honey			
		Janam ghutti			
		Other (specify)	X		
	Check q213: if child is alive ask following q	uestions else skip to q501			
407.	Are you currently breastfeeding (NAME)?	Yes	1		
		No	2	\rightarrow	409
408.	How many times in last 24 hours, you breastfeed your child?	Number			
400					
409.	Till how many days/months did you exclusively breastfeed the child?	Days1			
		Months2			
		Continuing'000'			

Q. No.	Question	Responses	Code	Skip	to
410.	During first six months of [NAME] what	Breast milk	A		
	type of feeding was done?	Water	В		
		Other milk	C		
		Other food suppliments	D		
	Any thing else?	Other (specify)	X		
411.	Did anybody talk to you as to when	Yes			
	breast feeding needs to be initiated?	No		→ 4	113
412.	From where did you get these	Anm/lhv/health worker (male)	A		
	information?	Aww			
		Govt. Doctor	C		
	Any one else?	Pvt. Doctor	D		
	,	Social worker, ngo worker	E		
	Record all mentioned	Radio/Tv			
		Billboards, posters at health centers	5,		
		Booklets, newspaper etc			
		Husband or family members			
		Asha			
		Traditional birth attendant	J		
		Friends/neighbours	K		
		Other (specify)	X		
413.	At what age/month you have started		Months		
	giving baby other fluids, semisolid, and				
	solid foods?	Other fluids			
		Semisolid food			
		Solid food			
		Not given anything so far	99	 → 4	115
414.	Now I would like to ask you about liquids				
	(NAME) drank yesterday, during the day				
	or at night?				
	Did (NAME) drink: (READ OUT)	,	res No		
	A. Plain water?	Any windows	1 2		
	B. Commercially produced infant food?	Plain water	1 2		
	C. Any other milk such as tinned,	Infant food	1 2		
	powdered, or fresh animal milk?				
	D. Fruit juice?	Tinned, powdered or fresh animal			
		milk			
	E. Tea or coffee?	Fruit juice			
	F. Any other liquids?	Tea/coffee			
		Other liquids			
415.	Whether the child is registered at	Yes	1		
	Anganwadi centre?	No	2		
416.	Has (NAME) had Diarrhoea in the last	Yes	1		
	two weeks?	No	2	→ 4	122

Q. No.	Question	Responses	Code	Skip to
417.	During the current (last) episode of diarrhoea have you given the following liquids to the child? : (READ OUT) A. Plain water	Y	es No	
	B. Salt and sugar solution	Plain water		
	C. Fruit juice	Salt and sugar solution		
	D. Lime water	Fruit juice		
	E. Gruel made from rice(other local grain) F. Home remedy	Lime water Gruel made from rice (other local	1 2	
	G. Breast milk	graingrain	1 2	
	G. Breast fillik	Home remedy		
		Breast milk		
418.	Did you give ORS solution to child during the current (Last) episode of diarrhoea?	Yes		
419.	How much (Name) was breastfed during	Less than usual		
	the current (Last) episode of diarrhoea?	Usual		
	Was he/she breastfed less than usual, usual or more than usual?	More than usual	3	
419a.	How much (Name) was given to drink	Less than usual	1	
	during the current (Last) episode of	Usual		
	diarrhoea? Was he/she given less than usual, usual or more than usual?	More than usual	3	
420.	Did you seek advice or treatment for the	Yes	1	
	diarrhoea from any source?	No	2	→ 422
421.	Where did you seek advice or treatment?	Government		
		Hospital		
	Anywhere else?	Dispensary UHC/UHP/UFWC		
	If unable to determine if a hospital/	Chc/rural hospital		
	health centre/clinic is government or	PHC	E	
	private medical sector, write the name of	Sub-centre	F	
	the place(s)	Anganwadi/icds centre	G	
		Asha		
		Ayush hospital/clinic	l	
	Name of the place(s)	Other public sector health facility		
	(December 11 and 12 and 1)	Ngo/trust hosp./Clinic	K	
	(Record all mentioned)	Private		
		Hospital		
		Ayush hospital/clinic		
		Pharmacy/drug store		
		Other pvt. Sector health facility		
		Other (specify)		
422.	Has (NAME) been ill with fever at any	Yes		
	time in the last two weeks?	No	2	
		Don't know	8	
423.	Has (NAME) been ill with cough at any	Yes	1	
	time in the last two weeks?	No		⟩ → 501
		Don't know	8	ا

Q. No.	Question	Responses	Code	Ski	ip to
424.	When (NAME) had this illness with a	Yes	1		
	cough, did he/she breathe faster than	No	2		
	usual with short, rapid breaths or have difficulty in breathing?	Don't know			
425.	Did you seek advice or treatment for the	Yes	1		
	illness from any source?	No	2	\rightarrow	501
426.	Where did you seek advice or treatment?	Government			
		Hospital	A		
	Anywhere else?	Dispensary	В		
		UHC/UHP/UFWC	C		
	If unable to determine if a hospital/	CHC/Rural hospital			
	health centre/clinic is government or	PHC	E		
	private medical sector, write the name of	Sub-centre	F		
	the place(s)	Anganwadi/icds centre	G		
		Asha			
		Ayush hospital/clinic			
	Name of the place(s)	Other public sector health facility	/J		
		NGO/trust hosp./Clinic	K		
	(Record all sources mentioned)	Private			
		Hospital			
		Doctor/clinic			
		Ayush hospital/clinic			
		Pharmacy/drug store			
		Other pvt. Sector health facility Other (specify)	Р		

SECTION 5: JANANI SURAKSHA YOJANA

Q. No.	Question	Responses	Code	Sk	ip to
501.	Did you register with Sub centre to get	Yes	1		
	MCH card?	No	2		
502.	Are you aware of JSY?	Yes	1		
		No	2		
503.	Did you receive any Govt. assistance for	Yes	1		
	delivery care under the Janani Suraksha	No	2		
	Yojana (JSY)/State Specific Scheme?				
If instit	utional delivery (check 325) ask the followin	g questions otherwise go to section v	⁄i		
504.	Did ASHA escort/accompany you to	Yes	1		
	health facility for delivery?	No	2	\rightarrow	506
		No Asha	3	\rightarrow	507
505.	Did ASHA stay with you in the health	Yes	1		
	facility after delivery?	No	2		
506.	Who arranged for the transport?	Self/family	1		
		Asha	2		
		Anm	3		
		Other (specify)	6		
507.	After how much time of delivery, you were sent home?	Hours [if less than 24 hours]1			
	were sent nome:	Days2			
507a.	Did you receive the money under JSY	One instalment	1		
	scheme in one or more installments?	Two instalments	2		
		More than two instalments	3		
		Never got	4	→	512
508.	When did you receive incentive money	Before birth	1		
	under JSY scheme?	Immediately after birth in hospital	2		
		Within first 10 days	3		
		Within one month	4		
		Within three months			
		Any time later	6		
509.	How money was received?	Cash			
		Cheque	2		
510.	Did you face any difficulties in receiving	Yes			
	incentives?	No	2	\rightarrow	512
511.	What difficulties did you face?				
	Record verbatim				
512.	Were you provided with separate bed or	Separate bed			
	shared bed with other patients?	Shared bed			
		No bed			
513.	Were you counselled after the delivery?	Yes			
		No	2		

Q. No.	Question	Responses			Code	Skip to		
514.	Now I will ask you about your views on satisfaction levels regarding quality of services at the health facility you visited for delivery. How much satisfied were you with?							
	Quality of services Dissatisfied Neither Satisfied Satisfied give reason							
	A. Behavior of staffs	1	2	3				
	B. Timely attention 1 2 3							
	C. Cleanliness of ward 1 2 3							
	D. Cleanliness of bathroom	1	2	3				

SECTION 6: ACCESSIBILITY OF MATERNAL SERVICES

Q. No.	Question	Responses	Code	Ski	ip to
601.	What is the nearest place where you	At home	1		
	get antenatal services by skilled service	In same village (through visiting an	m)2		
	provider?	Subcentre	3		
		Phc	4		
		Govt. Hospital			
		Pvt. Doctor/hospital/clinic			
		Other (specify)			
		Dk/CS		\rightarrow	605
602.	Is this place is within the village or	Within the village	1		
	outside the village	Outside the village	2		
603.	How far is this place from your house?	Distance in kms			
	If less than one km code '00'				
604.	How long it takes to travel to the place?	Time in minutes			
	(Record in minutes)	Dk/CS	998		
605.	How far is the closest subcentres/urban	Distance in KMs			
	health post from your house?	Burro			
	(5)	DK/CS	98		
	(Record in kms)				
606.	How long it takes for you to reach there?	Time in minutes			
	(Record in minutes)				
607.	How often anm comes to this village/area	Once a week	1		
	for maternal services?	Twice a month	2		
		Once a month	3		
		Once a quarter	4		
		Sometimes	6		
		Never	7		
I		Other (specify)	96		
L		Dk/CS	98		

Thank The Respondent And End The Interview

APPENDIX 4

QUESTIONNAIRE Village Information

	IDENTIFICATION		
State			
Name of Interviewer			<u>_</u>
Date of Interview			

VILLAGE INFORMATION

Q. No.	Questions		Coding Categorie	s			Skip to
1.	Population of the main village						
2.	Number of Hamlets in of the village						
3.	Distance to nearest town (in km.)		Kms.				
4.	Whether village is connected by		Yes			. 1	7
	all-weather road to other places?		No			. 2	
5.	Type of road?		Kachha Road				
			Motorable Road			. 2	
6.	What are the educational facilities in the village?			Yes	No		stance to st facility
	(Read out each response)	Primar	ry school : Govt.	1	2	availab	le (Kms.)
		Primar	ry school : Private	1	2		
		Middle	e school	1	2		
		1	dary/Higher dary school	1	2		
		Colleg	е	1	2		
		Madar	sa	1	2		
		Adult 6	education centre	1	2		
7.	What are the health facilities in the village?			Yes	No	1	stance to
	(Read out each response)	Sub-ce	entre	1	2		le (Kms.)
	·	PHC		1	2		
		CHC		1	2		
		Govt. I	Hospital	1	2		
			e clinic	1	2		
		Private	e hospital	1	2		
		Chemi	st shop	1	2		
8.	Whether ASHA is identified and wor	king in t	the Yes			1	
	village		No			2	10

Q. No.	Questions	Coding Categories	Skip to
9.	Number of ASHA working in the village?	Number	
10.	How many anganwadi centres are functioning in the village	Number	
11.	Population covered by of each anganwadi	1	
	centre		
		2	
		3	
		3	
		4	

APPENDIX 5

Sampling Error Estimation

States	Estimate	Sampling	Number of Cases	Relative	95% Confid	ence Interval						
	(5)	Error		Standard								
	(R)	(SE)	(Unweighted)	Error (%) (SE/R)	R-1.96SE	R+1.96SE						
	Mothers received 3+ Antenatal Checkups											
Andhra Pradesh	0.970	0.006	896	0.639	0.958	0.982						
Arunachal Pradesh	0.504	0.021	569	4.155	0.463	0.545						
Assam	0.664	0.016	881	2.369	0.633	0.695						
Bihar	0.338	0.015	1066	4.512	0.308	0.368						
Chhattisgarh	0.714	0.018	533	2.573	0.678	0.750						
Delhi	0.834	0.015	589	1.779	0.805	0.863						
Goa	0.977	0.005	543	0.561	0.966	0.988						
Gujarat	0.832	0.013	800	1.573	0.806	0.858						
Haryana	0.686	0.018	639	2.564	0.652	0.720						
Himachal Pradesh	0.674	0.018	563	2.730	0.638	0.710						
Jammu & Kashmir	0.870	0.014	622	1.569	0.843	0.897						
Jharkhand	0.575	0.019	637	3.355	0.537	0.613						
Karnataka	0.913	0.009	789	1.026	0.895	0.931						
Kerala	0.908	0.011	832	1.220	0.886	0.930						
Madhya Pradesh	0.600	0.015	1046	2.482	0.571	0.629						
Maharashtra	0.826	0.011	1004	1.378	0.804	0.848						
Manipur	0.850	0.012	629	1.467	0.826	0.874						
Meghalaya	0.710	0.018	581	2.597	0.674	0.746						
Mizoram	0.790	0.017	619	2.135	0.757	0.823						
Nagaland	0.294	0.019	639	6.510	0.256	0.332						
Orissa	0.770	0.013	947	1.653	0.745	0.795						
Punjab	0.734	0.018	583	2.424	0.699	0.769						
Rajasthan	0.552	0.016	908	2.957	0.520	0.584						
Sikkim	0.873	0.012	537	1.342	0.850	0.896						
Tamil Nadu	0.926	0.008	1104	0.876	0.910	0.942						
Tripura	0.831	0.014	600	1.688	0.804	0.858						
Uttar Pradesh	0.382	0.014	1135	3.785	0.354	0.410						
Uttaranchal	0.548	0.020	580	3.679	0.508	0.588						
West Bengal	0.832	0.012	838	1.403	0.809	0.855						
UT Combined	0.828	0.010	1275	1.236	0.808	0.848						

States	Estimate	Sampling Error	Number of Cases	Relative Standard	95% Confidence Interval	
	(R)	(SE)	(Unweighted)	Error (%) (SE/R)	R-1.96SE	R+1.96SE
	<u>'</u>	Mothers rece	eived Full Antena	atal Care		
Andhra Pradesh	0.462	0.017	896	3.593	0.429	0.495
Arunachal Pradesh	0.163	0.016	569	9.521	0.133	0.193
Assam	0.213	0.013	881	6.272	0.187	0.239
Bihar	0.045	0.009	1066	20.889	0.027	0.063
Chhattisgarh	0.199	0.019	533	9.779	0.161	0.237
Delhi	0.416	0.020	589	4.904	0.376	0.456
Goa	0.534	0.021	543	4.019	0.492	0.576
Gujarat	0.457	0.018	800	3.862	0.422	0.492
Haryana	0.429	0.020	639	4.608	0.390	0.468
Himachal Pradesh	0.392	0.021	563	5.283	0.351	0.433
Jammu & Kashmir	0.435	0.020	622	4.526	0.396	0.474
Jharkhand	0.109	0.014	637	12.550	0.082	0.136
Karnataka	0.402	0.018	789	4.361	0.368	0.436
Kerala	0.779	0.015	832	1.922	0.750	0.808
Madhya Pradesh	0.111	0.011	1046	9.658	0.090	0.132
Maharashtra	0.270	0.014	1004	5.156	0.243	0.297
Manipur	0.284	0.019	629	6.634	0.247	0.321
Meghalaya	0.281	0.019	581	6.883	0.243	0.319
Mizoram	0.217	0.017	619	7.793	0.184	0.250
Nagaland	0.035	0.010	639	28.343	0.016	0.054
Orissa	0.375	0.016	947	4.259	0.344	0.406
Punjab	0.294	0.019	583	6.483	0.257	0.331
Rajasthan	0.146	0.012	908	8.377	0.122	0.170
Sikkim	0.277	0.020	537	7.119	0.238	0.316
Tamil Nadu	0.441	0.015	1104	3.404	0.412	0.470
Tripura	0.215	0.017	600	7.874	0.182	0.248
Uttar Pradesh	0.124	0.010	1135	8.177	0.104	0.144
Uttaranchal	0.170	0.017	580	9.935	0.137	0.203
West Bengal	0.174	0.014	838	7.828	0.147	0.201
UT Combined	0.410	0.014	1275	3.378	0.383	0.437

States	Estimate	Sampling Error	Number of Cases	Relative Standard	95% Confidence Interva	
	(R)	(SE)	(Unweighted)	Error (%) (SE/R)	R-1.96SE	R+1.96SE
		Mothers de	livered in an Inst	titution		
Andhra Pradesh	0.942	0.008	896	0.838	0.927	0.957
Arunachal Pradesh	0.699	0.019	569	2.678	0.662	0.736
Assam	0.644	0.015	881	2.351	0.614	0.674
Bihar	0.483	0.015	1066	3.124	0.453	0.513
Chhattisgarh	0.449	0.022	533	4.817	0.407	0.491
Delhi	0.836	0.015	589	1.791	0.807	0.865
Goa	0.998	0.002	543	0.184	0.994	1.000
Gujarat	0.781	0.014	800	1.803	0.753	0.809
Haryana	0.633	0.018	639	2.904	0.597	0.669
Himachal Pradesh	0.503	0.020	563	4.000	0.464	0.542
Jammu & Kashmir	0.809	0.014	622	1.712	0.782	0.836
Jharkhand	0.401	0.020	637	4.943	0.362	0.440
Karnataka	0.864	0.011	789	1.272	0.842	0.886
Kerala	0.999	0.001	832	0.120	0.997	1.000
Madhya Pradesh	0.810	0.012	1046	1.484	0.786	0.834
Maharashtra	0.818	0.012	1004	1.496	0.794	0.842
Manipur	0.800	0.016	629	1.954	0.769	0.831
Meghalaya	0.636	0.019	581	3.000	0.599	0.673
Mizoram	0.830	0.015	619	1.825	0.800	0.860
Nagaland	0.304	0.019	639	6.391	0.266	0.342
Orissa	0.755	0.013	947	1.764	0.729	0.781
Punjab	0.603	0.019	583	3.217	0.565	0.641
Rajasthan	0.705	0.014	908	1.986	0.678	0.732
Sikkim	0.689	0.018	537	2.627	0.654	0.724
Tamil Nadu	0.984	0.004	1104	0.446	0.975	0.993
Tripura	0.826	0.014	600	1.742	0.798	0.854
Uttar Pradesh	0.621	0.015	1135	2.335	0.593	0.649
Uttaranchal	0.535	0.020	580	3.725	0.496	0.574
West Bengal	0.695	0.015	838	2.186	0.665	0.725
UT Combined	0.881	0.008	1275	0.932	0.865	0.897

States	Estimate	Sampling Error	Number of Cases	Relative Standard	95% Confidence Interva	
	(R)	(SE)	(Unweighted)	Error (%) (SE/R)	R-1.96SE	R+1.96SE
	D	elivery attend	led by Skill Birth	Attendant		
Andhra Pradesh	0.956	0.007	896	0.730	0.942	0.970
Arunachal Pradesh	0.719	0.018	569	2.542	0.683	0.755
Assam	0.655	0.015	881	2.292	0.626	0.684
Bihar	0.532	0.015	1066	2.786	0.503	0.561
Chhattisgarh	0.564	0.021	533	3.665	0.523	0.605
Delhi	0.846	0.015	589	1.721	0.817	0.875
Goa	0.998	0.002	543	0.184	0.994	1.000
Gujarat	0.852	0.012	800	1.452	0.828	0.876
Haryana	0.693	0.018	639	2.534	0.659	0.727
Himachal Pradesh	0.537	0.020	563	3.695	0.498	0.576
Jammu & Kashmir	0.829	0.014	622	1.630	0.803	0.855
Jharkhand	0.473	0.020	637	4.180	0.434	0.512
Karnataka	0.884	0.010	789	1.153	0.864	0.904
Kerala	0.999	0.001	832	0.120	0.997	1.000
Madhya Pradesh	0.829	0.012	1046	1.390	0.806	0.852
Maharashtra	0.855	0.011	1004	1.327	0.833	0.877
Manipur	0.827	0.014	629	1.721	0.799	0.855
Meghalaya	0.652	0.019	581	2.893	0.615	0.689
Mizoram	0.851	0.014	619	1.697	0.823	0.879
Nagaland	0.438	0.020	639	4.518	0.399	0.477
Orissa	0.791	0.013	947	1.606	0.766	0.816
Punjab	0.667	0.018	583	2.751	0.631	0.703
Rajasthan	0.758	0.013	908	1.673	0.733	0.783
Sikkim	0.699	0.018	537	2.551	0.664	0.734
Tamil Nadu	0.986	0.004	1104	0.417	0.978	0.994
Tripura	0.831	0.014	600	1.698	0.803	0.859
Uttar Pradesh	0.642	0.014	1135	2.227	0.614	0.670
Uttaranchal	0.587	0.019	580	3.308	0.549	0.625
West Bengal	0.726	0.015	838	2.019	0.697	0.755
UT Combined	0.907	0.007	1275	0.766	0.893	0.921

States	Estimate	Sampling Error	Number of Cases	Relative Standard	95% Confidence Interval	
	(R)	(SE)	(Unweighted)	Error (%) (SE/R)	R-1.96SE	R+1.96SE
		Breastfeedin	g within 1 Hour	of Birth		
Andhra Pradesh	0.272	0.016	894	5.724	0.241	0.303
Arunachal Pradesh	0.556	0.021	557	3.775	0.515	0.597
Assam	0.461	0.017	866	3.668	0.428	0.494
Bihar	0.165	0.011	1062	6.691	0.143	0.187
Chhattisgarh	0.444	0.022	527	4.860	0.402	0.486
Delhi	0.285	0.019	581	6.533	0.249	0.321
Goa	0.663	0.020	541	3.041	0.623	0.703
Gujarat	0.500	0.018	781	3.580	0.465	0.535
Haryana	0.510	0.020	631	3.902	0.471	0.549
Himachal Pradesh	0.388	0.020	558	5.276	0.348	0.428
Jammu & Kashmir	0.204	0.015	613	7.407	0.174	0.234
Jharkhand	0.156	0.014	633	9.026	0.128	0.184
Karnataka	0.382	0.018	772	4.660	0.347	0.417
Kerala	0.660	0.017	815	2.505	0.628	0.692
Madhya Pradesh	0.312	0.014	1032	4.609	0.284	0.340
Maharashtra	0.513	0.016	1000	3.080	0.482	0.544
Manipur	0.751	0.016	628	2.196	0.719	0.783
Meghalaya	0.677	0.019	574	2.836	0.639	0.715
Mizoram	0.565	0.020	607	3.481	0.526	0.604
Nagaland	0.494	0.020	628	4.036	0.455	0.533
Orissa	0.637	0.016	926	2.499	0.606	0.668
Punjab	0.164	0.015	565	9.439	0.134	0.194
Rajasthan	0.277	0.015	904	5.451	0.247	0.307
Sikkim	0.557	0.022	528	3.910	0.514	0.600
Tamil Nadu	0.391	0.015	1067	3.872	0.361	0.421
Tripura	0.071	0.012	587	16.817	0.048	0.094
Uttar Pradesh	0.156	0.011	1130	7.308	0.134	0.178
Uttaranchal	0.249	0.019	577	7.446	0.213	0.285
West Bengal	0.292	0.016	826	5.329	0.262	0.322
UT Combined	0.429	0.014	1222	3.310	0.401	0.457

States	Estimate	Sampling Error	Number of Cases	Relative Standard	95% Confidence Interval	
	(R)	(SE)	(Unweighted)	Error (%) (SE/R)	R-1.96SE	R+1.96SE
	Excl	usive Breast	Feeding (6-9 mo	nth children)		
Andhra Pradesh	0.522	0.026	365	5.008	0.471	0.573
Arunachal Pradesh	0.486	0.032	242	6.628	0.423	0.549
Assam	0.507	0.027	337	5.335	0.454	0.560
Bihar	0.318	0.025	310	8.009	0.268	0.368
Chhattisgarh	0.474	0.039	162	8.283	0.397	0.551
Delhi	0.186	0.026	220	14.011	0.135	0.237
Goa	0.316	0.034	198	10.813	0.249	0.383
Gujarat	0.447	0.030	271	6.803	0.387	0.507
Haryana	0.343	0.030	209	8.741	0.284	0.402
Himachal Pradesh	0.590	0.037	177	6.314	0.517	0.663
Jammu & Kashmir	0.794	0.028	221	3.501	0.740	0.848
Jharkhand	0.365	0.036	188	9.852	0.295	0.435
Karnataka	0.498	0.030	274	6.040	0.439	0.557
Kerala	0.433	0.029	282	6.721	0.376	0.490
Madhya Pradesh	0.482	0.028	319	5.817	0.427	0.537
Maharashtra	0.372	0.027	332	7.148	0.320	0.424
Manipur	0.532	0.037	183	6.878	0.460	0.604
Meghalaya	0.431	0.036	190	8.383	0.360	0.502
Mizoram	0.329	0.031	234	9.474	0.268	0.390
Nagaland	0.356	0.028	271	7.958	0.300	0.412
Orissa	0.468	0.030	282	6.365	0.410	0.526
Punjab	0.433	0.041	144	9.497	0.352	0.514
Rajasthan	0.352	0.029	279	8.134	0.296	0.408
Sikkim	0.636	0.035	204	5.458	0.568	0.704
Tamil Nadu	0.204	0.021	394	10.382	0.162	0.246
Tripura	0.685	0.033	219	4.774	0.621	0.749
Uttar Pradesh	0.163	0.023	332	13.896	0.119	0.207
Uttaranchal	0.197	0.028	188	14.447	0.141	0.253
West Bengal	0.287	0.030	234	10.408	0.228	0.346
UT Combined	0.461	0.024	430	5.202	0.414	0.508

States	Estimate	Sampling Error	Number of Cases	Relative Standard	95% Confidence Interva	
	(R)	(SE)	(Unweighted)	Error (%) (SE/R)	R-1.96SE	R+1.96SE
	<u>'</u>	Childr	en Full Immunize	ed		
Andhra Pradesh	0.680	0.016	887	2.285	0.650	0.710
Arunachal Pradesh	0.248	0.019	585	7.565	0.211	0.285
Assam	0.591	0.017	875	2.817	0.558	0.624
Bihar	0.490	0.015	1055	3.137	0.460	0.520
Chhattisgarh	0.573	0.021	522	3.667	0.532	0.614
Delhi	0.715	0.019	585	2.594	0.679	0.751
Goa	0.879	0.014	534	1.622	0.851	0.907
Gujarat	0.566	0.018	786	3.111	0.531	0.601
Haryana	0.717	0.018	634	2.544	0.681	0.753
Himachal Pradesh	0.758	0.019	547	2.497	0.721	0.795
Jammu & Kashmir	0.666	0.019	620	2.799	0.629	0.703
Jharkhand	0.597	0.019	635	3.236	0.559	0.635
Karnataka	0.780	0.015	751	1.935	0.750	0.810
Kerala	0.815	0.014	760	1.697	0.788	0.842
Madhya Pradesh	0.429	0.015	1040	3.585	0.399	0.459
Maharashtra	0.786	0.013	1020	1.670	0.760	0.812
Manipur	0.519	0.020	630	3.796	0.480	0.558
Meghalaya	0.608	0.020	586	3.332	0.568	0.648
Mizoram	0.737	0.018	624	2.379	0.703	0.771
Nagaland	0.278	0.018	641	6.579	0.242	0.314
Orissa	0.595	0.016	889	2.745	0.563	0.627
Punjab	0.836	0.016	570	1.877	0.805	0.867
Rajasthan	0.538	0.017	894	3.093	0.505	0.571
Sikkim	0.853	0.013	404	1.524	0.828	0.878
Tamil Nadu	0.773	0.013	1068	1.658	0.748	0.798
Tripura	0.660	0.019	603	2.852	0.623	0.697
Uttar Pradesh	0.409	0.015	1112	3.587	0.380	0.438
Uttaranchal	0.715	0.018	576	2.531	0.680	0.750
West Bengal	0.649	0.017	827	2.558	0.616	0.682
UT Combined	0.713	0.013	1213	1.854	0.687	0.739

States	Estimate	Sampling Error	Number of Cases	Relative Standard	95% Confidence Inte	
	(R)	(SE)	(Unweighted)	Error (%) (SE/R)	R-1.96SE	R+1.96SE
	Children	suffering fron	n ARI treated at	any health facili	ty	
Andhra Pradesh	0.882	0.018	308	2.053	0.847	0.917
Arunachal Pradesh	0.645	0.058	68	9.051	0.531	0.759
Assam	0.792	0.026	279	3.251	0.742	0.842
Bihar	0.829	0.016	505	1.982	0.797	0.861
Chhattisgarh	0.850	0.027	183	3.185	0.797	0.903
Delhi	0.907	0.019	230	2.143	0.869	0.945
Goa	0.970	0.014	119	1.488	0.942	0.998
Gujarat	0.844	0.019	373	2.226	0.807	0.881
Haryana	0.922	0.023	168	2.464	0.877	0.967
Himachal Pradesh	0.926	0.028	104	2.991	0.872	0.980
Jammu & Kashmir	0.837	0.023	239	2.771	0.792	0.882
Jharkhand	0.709	0.026	275	3.676	0.658	0.760
Karnataka	0.907	0.024	177	2.631	0.860	0.954
Kerala	0.942	0.019	185	2.000	0.905	0.979
Madhya Pradesh	0.758	0.023	319	3.013	0.713	0.803
Maharashtra	0.931	0.013	384	1.427	0.905	0.957
Manipur	0.778	0.038	120	4.920	0.703	0.853
Meghalaya	0.943	0.042	56	4.423	0.861	1.000
Mizoram	0.876	0.049	59	5.623	0.779	0.973
Nagaland	0.506	0.069	50	13.704	0.370	0.642
Orissa	0.794	0.022	330	2.746	0.751	0.837
Punjab	0.947	0.015	200	1.631	0.917	0.977
Rajasthan	0.899	0.018	234	2.038	0.863	0.935
Sikkim	0.912	0.026	90	2.899	0.860	0.964
Tamil Nadu	0.888	0.017	352	1.948	0.854	0.922
Tripura	0.955	0.013	325	1.331	0.930	0.980
Uttar Pradesh	0.723	0.018	541	2.556	0.687	0.759
Uttaranchal	0.832	0.027	191	3.215	0.780	0.884
West Bengal	0.778	0.022	358	2.846	0.735	0.821
UT Combined	0.958	0.010	484	1.051	0.938	0.978

States	Estimate	Sampling Error	Number of Cases	Relative Standard	95% Confidence Interval	
	(R)	(SE)	(Unweighted)	Error (%) (SE/R)	R-1.96SE	R+1.96SE
	Chi	ldren sufferin	g from diarrhoea	a given ORS		
Andhra Pradesh	0.359	0.032	240	8.841	0.297	0.421
Arunachal Pradesh	0.748	0.039	111	5.166	0.672	0.824
Assam	0.530	0.044	132	8.242	0.444	0.616
Bihar	0.224	0.022	384	9.701	0.181	0.267
Chhattisgarh	0.615	0.043	135	6.920	0.532	0.698
Delhi	0.702	0.026	310	3.714	0.651	0.753
Goa	0.793	0.037	120	4.695	0.720	0.866
Gujarat	0.569	0.026	380	4.497	0.519	0.619
Haryana	0.743	0.027	266	3.607	0.690	0.796
Himachal Pradesh	0.423	0.064	56	15.092	0.298	0.548
Jammu & Kashmir	0.766	0.028	222	3.615	0.712	0.820
Jharkhand	0.216	0.033	183	15.384	0.151	0.281
Karnataka	0.688	0.024	373	3.480	0.641	0.735
Kerala	0.564	0.054	82	9.661	0.457	0.671
Madhya Pradesh	0.415	0.024	420	5.880	0.367	0.463
Maharashtra	0.452	0.027	335	5.998	0.399	0.505
Manipur	0.757	0.034	180	4.449	0.691	0.823
Meghalaya	0.828	0.038	108	4.535	0.754	0.902
Mizoram	0.567	0.035	204	6.171	0.498	0.636
Nagaland	0.495	0.038	174	7.661	0.421	0.569
Orissa	0.618	0.040	152	6.471	0.540	0.696
Punjab	0.518	0.041	150	7.905	0.438	0.598
Rajasthan	0.392	0.030	274	7.673	0.333	0.451
Sikkim	0.447	0.060	70	13.443	0.329	0.565
Tamil Nadu	0.579	0.027	335	4.670	0.526	0.632
Tripura	0.722	0.033	176	4.632	0.656	0.788
Uttar Pradesh	0.143	0.020	369	14.217	0.103	0.183
Uttaranchal	0.134	0.046	86	34.194	0.044	0.224
West Bengal	0.365	0.047	116	12.742	0.274	0.456
UT Combined	0.601	0.027	321	4.542	0.547	0.655

APPENDIX 6

Comparison with DLHS3 and NFHS3

The CES 2009, DLHS3 and NFHS3 were compared and the findings are given in table below. The sample size for CES 2009 was robust enough for providing reliable coverage estimates that were comparable with other large surveys. Some important coverage estimates produced by these surveys are given below.

Table: Comparison of NFHS3, DLHS3 and CES 2009							
Characteristics	CES 2009	DLHS3	NFHS3				
Geographical resolution of coverage estimates	State	District	State				
Year of survey and duration of coverage estimates	1 year: Events that occurred 12 months preceding the time of data collection (Data collection from November 2009 to Jan 2010)	3 years: Events that occurred in last 3 years starting from 1st Jan 2004 (Data collection from December 2007 to December 2008)	5 years: Data related to events that occurred during the 5 year period preceding the survey (Data collection from November 2005 to August 2006)				
Actual data period	2008 - 09	2004-06	2001-05				
Children aged 12-23 months (n)	22,604	64,702	10,419				
Pregnant women (n)	22,984	2,21,245	39,677				
	(1 yr cohort)	(3 yr cohort)	(5 yr cohort)				

Table: Coverage estimates of key indicators according to CES 2009, DLHS3 and NFHS3								
(all figures in percentage)								
Indicator	CES 2009	DLHS3	NFHS3					
Immur	ization							
BCG coverage	86.9	86.7	78.1					
DPT3 coverage	71.5	63.4	55.3					
OPV3 coverage	70.4	65.6	78.2					
Measles coverage	74.1	69.1	58.8					
Hep-B3 coverage∞	58.9	NA	NA					
Full Immunization	61.0	53.5	43.5					
DPT Booster	41.1	NA	NA					
Materna	l Health							
Consumption of IFA during pregnancy ≥ 100 days	31	27.3*	23.1*					
At least 1 ANC	90.4	75.2	76.5					
3 or more ANC	68.7	49.8	52.0					
Full ANC**	26.5	18.8	NA					
Institutional Delivery	73	47	38.7					
Safe Deliveries (Skilled birth Attendance)	76	52.7	46.6					
Newbo	rn Care							
Newborns checked within 24 hours of birth	65.5	44.5	NA					
Initiation of breast feeding within 1 hour of birth	33.6	40.5	23.6					
Child M	lorbidity							
Care Seeking for Diarrhea	67.8	70.6	59.8					
Care Seeking for ARI	82.6	77.4	69.0					
ORT or increased fluids for diarrhea	53.6	34.2#	43.0					

 $[\]infty$ 3 doses of Hepatitis B vaccine coverage among 12-23 months old children in 16 States/UTs where it is part of UIP *data is for IFA consumption for \ge 90 days (for DLHS3, see Table 4.5B of the DLHS report)

^{**}Full ANC: Pregnant women who had at least 3 ANC checkups, 1 TT injection and ≥ 100 IFA tablets/syrup doses consumed # Data relates to ORS use only

NA – Not available

NOTES:	



United Nations Children's Fund

UNICEF House, 73 Lodi Estate, New Delhi - 110 003

www.unicef.in