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REVIEW OF ONGOING ORT PROGRAMME IN INDIA

B. S. Nagi

COUNCIL FOR SOCIAL DEVELOPMENT 53, Lodi Estate, New Delhi-110003

1990

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Sponsored by: Ministry of Health and Family Welfare, Government of India

> Funded by: World Health Organization, New Delhi



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ACKNOWLEDGEMENT

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At the outset I am grateful to the Ministry of Health and Family Welfare, Government of India for sanctioning the present study. I am sincerely grateful to Mr. P. K. Mehrotra, former Joint Secretary, Mrs. Vineeta Rai, Joint Secretary, Dr. K. B. Banerjee, Deputy Commissioner (MCH), Dr. K. P. M. Prabhu, former Assistant Commissioner (MCH), Dr. (Miss) A. Bhardwaj, Assistant Commissioner (MCH), Dr. (Miss) Susan Mary Passah, and Mr. Devi Prasad, Deputy Secretary from the Ministry for their valuable guidance and help at various stages of the project.

World Health Organization was kind enough for providing generous financial support for the project. I am deeply indebted to Dr. M.H. Mearson, Dr. K.B. Singh, Dr. A.V.K.V. De Silva, Dr. B. Forsberg, Dr. Leila Richards, Dr. J. Tullock, Mr. Richard Peck, Mr. R.S. Bhatnagar and Mr. R. Krishnan from WHO for their guidance and academic help at various stages of the project.

I am very grateful to the State-Coordinators: Dr.(Mrs.) H.K.Paintal, Dr.H.K. Pokhriyal, Dr. R.P. Singh, Dr. Mohan Advani, Dr. K. Venkateswara Rao, Dr. R. D. Gambhir, Dr. S. K. Nair, Prof. K. C. Panda, and Mr. S. L. Batra who were kind enough to spare their valuable time to help me in selection of Research Teams and for coordinating and supervising the field work in their respective areas.

I am thankful to all field **supervisors** and research investigators for undertaking the challenging task of collecting valuable data from various sources and providing me with their insight observations which proved very helpful in writing this report.

I am grateful to my friends, **Dr. V. B.** Singh and Dr. B. R. Patil who helped me in organizing the training programme for field staff, checking the data collection work in the field and for their valuable comments and suggestions on the draft report.

My special thanks are to the Advisory Committee Members: Dr. Prodipto Roy, Dr. Bhupinder Singh, Dr. V. B. Singh, Mr. O.P. Misra, Dr. B. R. Patil, Dr. S.K. Jha, Dr. K.P.M. Prabhu, and Dr. V. K. Pal for their guidance and suggestions from time to time.

I am thankful to my colleagues, Mrs. Saveera Thakkar, Mr. A.P. Rai, Mr. R.S. Pandey, Mrs. Sona Bahuguna, Miss Shanti Bist, Miss Shibani Ganguli, Mrs. Kamal, Miss Neelam Bhatnagar, Mr. Tilak Raj, Mr. R.C. Arora, Mrs. Tamali Sengupta, Mr. Varun Kochhar, Mr. P.Srikar, Mr. Suraj Pal, Mrs. Manu Samanta, Miss Chinmoyee Ghosal, Mr. M.R. Anand, Ms. Madhur Saxena, Ms. Reeta Khurana, Mr. S.K. Ray, Mrs. Premalata Puri, Mrs. Lovely Nagpal, Mr. Rama Nand, Mr. Roshan Lal, and Mr. Brij Mohan for their cooperation and help during the course of the project. My sincere thanks are due to all the respondents who spared their valuable time in supplying the requisite information for making the project a success.

Last but not the least, I wish to convey my thanks to all those who helped me in one way or the other and contributed in their own ways for the successful completion of the project.

November, 1990

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Dr. B. S. Nagi Director (ORT Project)

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INTRODUCTION

1.1 Country Profile

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India, a Union of States, is a sovereign, socialist, secular, democratic republic with a Parliamentary system of Government. It is a vast country with an estimated population of 820 million people residing in 25 States and 7 Union Territories having different religions, social customs, languages and social norms. There are 15 official languages specified in the Constitution. Seventy-seven per cent of the people live in rural areas comprising more than 5,00,000 villages. Children in the age group of 0-4 years comprise about 14 per cent of the total population and are more than 100 million in number. Approximately 36.3 per cent of the population is literate. Women have a lower literacy rate than men. Only 60 per cent of the population (1985) have access to safe drinking water supply. The birth and death rates are around 32 per 1000 (1987) and 10.9 per 1000 (1987) respectively while the infant mortality rate is about 95 per 1000 live births (1987). The major causes of mortality in the age group below five years are premature births, respiratory diseases, diarrhoea, fevers and mal-nutrition. Because of the emphasis on safe motherhood practices and better care of infants, the infant mortality rate has declined from 129 in 1976 to 95 in 1987. However, there is no marked change in the 0-4 years mortality rate which was 41.8 in 1979-80 and 41.2 in 1984. Diarrhoea is a major killer in this age group.

1.2 CDD Programme in India

Government of India is committed to reducing the infant mortality and preschool child mortality rates from the levels of 95 per 1000 and 41.2 per 1000 to 50 and 10 respectively by the year 2000 AD. Child survival activities are of utmost importance to the Government of India. The National Control of Diarrhoeal Diseases Programme for children under the age of 5 years (ORT Programme) has been taken up as a centrally sponsored scheme (under Child Survival Activities) under the umbrella of the Family Welfare Programme.

Diarrhoea is one of the major causes of death in children under 5 years in India. An estimated 1.5 million children die because of diarrhoea and diarrhoea related causes. The main objective of the programme is to prevent deaths due to dehydration. The efficacy of ORT in combatting dehydration problem successfully in epidemics near Calcutta during the Bangladesh war and the discovery by scientists that non-cholera diarrhoeal diseases could also be treated with ORT led to the centrally funded National Control of Diarrhoeal Diseases Programme amongst children under five years of age. Rs. 25 crores (\$250 million) was earmarked for the ORT Programme in the 7th Plan period (1985-90). However, the scheme was approved and circulated to the States in the year 1987-88. The programme has been implemented in the country for four years. The main components of the programme are:

1. Training of medical and para-medical personnel;

- 2. Education of community, especially the mothers, through inter-personal communication, printed educational material and the mass media on prevention and home management of diarrhoea;
- 3. Supply of ORS packets;

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- 4. Augmentation of staff and mobility; and
- 5. Periodic monitoring and evaluation of the programme.

Programme implementation was similar to that of the Universal Immunization Programme, the district being taken up in a phased manner for the various CDD activities. The programme was implemented in ninty districts in each of the two years 1986-87 and 1987-88. Another 120 districts were added in the year 1988-89, and by 1989-90 the whole country was covered.

To assess the knowledge, attitude and practices prevailing in the prevention and treatment of childhood diarrhoea in various parts of the country a major KAP study was also conducted by Indian Market Research Bureau (IMRB), New Delhi, with UNICEF assistance at the request of the Government of India. This study proved quite helpful in formulating the action plan for the programme of ORT for children under the age of five years.

In the year 1989, the Government of India decided to review the ongoing programme of ORT in the country. In order to get a countrywide picture, the study was taken up in six randomly selected states, representating different regions of India. The Council for Social Development was entrusted with the responsibility of conducting the study. The main objectives of the study were :

- 1. To ascertain the extent to which the ORT programme has been implemented in six States;
- 2. To assess the level of knowledge about ORT among mothers and health providers in these States; and
- 3. To suggest measures which would improve ORT training.

CHAPTER 2

METHODOLOGY

2.1 Sampling Design

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A six stage random sampling method was used for the purpose of selecting sample units for the study. These stages are described below:

- (i) <u>At the first stage</u> 17 major states were arranged in descending order on the basis of mortality estimates for children between age group 0-4 years available for the year 1984 in rural India (See Annexure 1). In the absence of data regarding deaths due to diarrhoea, child mortality rate had to be used as a basis for stratifying the states. After arranging the states in this order two states were excluded from the list, i.e., Kerala due to its extra-ordinarily low child mortality rate (8.8) and Punjab due to its currently disturbed situation. Based on child mortality rate the remaining 15 states were grouped in five strata, i.e., (i) > 65, (ii) 55 to 64, (iii) 45 to 54, (iv) 35 to 44, (v) 25 to 34. Since there was only one state in the first stratum, the selection of Uttar Pradesh was obvious. One state from each of the next 3 strata was randomly selected. Since the last stratum consisted of 6 states, two states were selected randomly. Following states were thus finally selected:
 - 1. Uttar Pradesh
 - 2. Rajasthan
 - 3. Orissa
 - 4. Нагуапа
 - 5. Maharashtra
 - 6. Tamil Nadu
- (ii) <u>At the second stage</u> From each of the selected States, a minimum of two or 15% of the total districts in the state were selected with probability proportional to their size (population). In all, a total of 24 districts were sampled for the survey.
- (iii) <u>At the third stage</u> From each of the selected districts, a minimum of two or 15% of the total number of blocks in a district were selected with probability proportional to the rural population size in each distirct.

- (iv) <u>At the fourth stage</u> From each of the selected blocks, a minimum of two or 15% of the total sub-centres were selected with probability proportional to the size of the population of the sub-centres. The selection was done by simple random sampling if the population figures were not available.
- (v) <u>At the fifth stage</u> 1, 2 or 3 villages were selected from each of the selected sub-centres with simple random sampling procedure if the number of villages was upto 4, 4-8 or more than 8 respectively.
- (vi) <u>At the sixth stage</u> 25% of the total households with children in the age group of 0-4 years were randomly selected in each village.
- (vii) In the urban sample, the survey was confined to the headquarters of the districts selected. From each of the district headquarters, 15% of the wards were selected by simple random sampling. A minimum of two wards were selected in each district headquarter. From each of the selected wards, 25% of the households with children in the age group of 0-4 years were randomly selected.

2.2 Schedules

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The study consisted of eleven types of schedules, to be administered to different types of respondents. (A complete list of the schedules is given in Annexure 2). The schedules were designed during meetings with personnel from the Ministry of Health and Family Welfare, the World Health Organization and the Council for Social Development. The following persons were primarily involved in developing the schedules: Dr. K.P.M. Prabhu, Assistant Commissioner (ORT), Ministry of Health and Family Welfare; Dr. K.B. Singh and Dr. A.V.K.V. De Silva, WHO, New Delhi and Dr. B.S. Nagi, Project Director (ORT), Council for Social Development. The schedules were revised after receiving the comments from WHO, Head-quarter, Geneva. These schedules were then pre-tested in three States, U.P. (Moradnagar), Haryana (Sonepat), and Rajasthan (Jhun Jhunu). On the basis of the findings of the pretest, these schedules were again modified by a Committee consisting of Dr. K.P.M. Prabhu, Dr. B.S. Nagi, Dr. Forsberg and Dr. Richards from WHO, Geneva.

The schedules for Household, Village and Para-medical Staff were translated into four languages: Hindi, Marathi, Tamil and Oriya. Before printing these were pretested in respective States to ensure that the questions were easily understood by the respondents in their own language. On the basis of pretests, changes were made in the translation.

Most of the questions of these schedules were structured and formated in a manner so that data could be entered on computer directly from the schedules. This procedure avoided the error-prone laborious method of coding the data on separate sheets.

2.3 Identification of State Coordinators

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State Coordinators with a sound background in medicine or the social sciences were selected to help in selecting the field investigators and supervisors and to direct the survey in their respective states.

Two types of investigators were recruited to collect the data : medical graduates and post graduates in social sciences. The medical graduates (investigators) were to interview - physicians, pharmacists and some of the para-medical staff at health facilities (excluding subcentres). The remaining respondents (mothers/caretakers, village leaders, health trainers and para-medical staff at sub-centres) were interviewed by the social science post-graduate investigators.

A team of three to four investigators and one supervisor was deputed for each district. The supervisors were entrusted with the responsibility of selecting the sampling units and checking the work of the investigators.

The following schedules were completed by the socical science post-graduate investigators:

a. <u>Enumeration Proforma (Schedule No.11 see Annexure 2)</u>

This proforma was administered to all the families residing in the selected villages/wards. (Family is defined here as the members of a household living together and eating from a common kitchen). After the enumeration in the village was complete, 25% of the households (families) having children below 5 years were randomly selected. An additional 5% of the households were selected for the purpose of substitution.

b. <u>Household Schedule (Schedule No.10 see Annexure 2)</u>

This schedule was administered to the 25% of the households selected. The Respondents were mothers of children below 5 years of age. If the mother was not available during the period of the survey, the caretaker (usually a woman) responsible for looking after the child/children was interviewed. If neither the mother nor the caretaker was available during the survey, another household from the substitution list was selected.

As a check on the work of the investigators, the supervisors were instructed to revisit at least 5% of the sampled houses. The supervisor asked the mother/caretaker a few questions from the schedule to determine whether the investigators had actually visited the household or not. A one page proforma was designed for this purpose (see Annexure 3).

(a) <u>Village Schedule (Schedule No.8 see Annexure 2)</u>

The main respondent for the village schedule was the head of the village or elderly person(s) of the village. But there were certain questions for which other persons, such as the ANM, were also interviewed. In many cases other persons such as teacher, shopkeeper, sarpanch, panchayat member, etc., were also consulted for getting the requisite information for the village schedule.

(b) <u>Schedule for para-medical staff (Health Workers) (Schedule No.3 see Annexure 2)</u>

The para-medical staff, i.e., ANM or MPHW (Male) or both were interviewed. If the subcentre was without any staff, the staff of the nearby sub-centre was interviewed.

(c) <u>Schedule for Assessment of Supplies and Facilities of Sub-Centre (Schedule No.5 see</u> <u>Annexure 2)</u>

This schedule was administered to ANM or MPHW (Male) at the sub-centre.

The following schedules were convassed by the medical graduates (investigators) (see Annexure 2):

1. Schedule for Medical Officer: Medical College / District Hospital / Taluka Hospital/ CHC / PHC / Dispensary.

2. Schedule for Health Worker (Paramedical).

3. Schedule for Assessment of Supplies and Facilities.

4. Schedule for Health and Family Welfare Training Centre.

5. Schedule for Private Practitioner.

6. Schedule for Pharmacist.

2.4 Training Courses

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The post-graduate Investigators and Supervisors were oriented in three-days training courses organized in various States. Medical graduates underwent a similar three-days training course which was held in New Delhi. Each training course included one day of field work.

Question by question instructions and guidelines were prepared to help the investigators with problems which might arise in the field.

2.5 Checking of Data

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After 7 to 8 days field work, the schedules were checked in the field by the Senior Staff from the Council for Social Development. This exercise helped to remove doubts about questions which the investigators might have faced even after the training. Each schedule was checked in presence of the investigator and ambiguities were cleared and the mistakes committed by the investigators were rectified. When serious errors detected, he/she was asked to go back to the field and get the required information once again.

Every fortnight or so the completed schedules were hand carried to CSD or sent to New Delhi by the State Coordinators by registered mail.

A team of six coders transferred the data in the boxes provided in the schedules. A code book was designed for the open ended questions.

The data entry/verification was done at CSD and software was developed to cross check certain variables by computer. The data were thoroughly checked before starting the computer analysis. Software was also developed beforehand for processing the data on SN-23 and PC - AT computers.

CHAPTER 3

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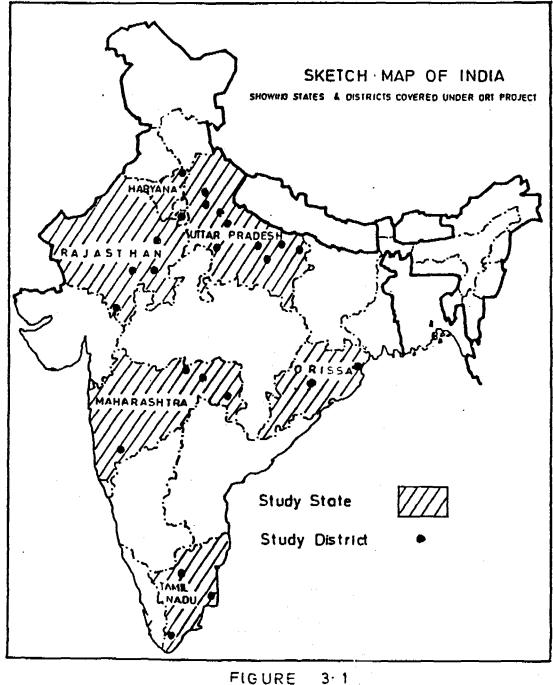
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PROFILE

Union of India comprises of 25 States and 7 Union Territories divided into a total of 440 Districts. Out of these, six States and 24 Districts which were systematically selected for the purpose of this study are shown in Figure 3.1.



FIGURE

Table 3.1 shows rural and urban population and the number of children under 5 years of age in each of the six selected States, i.e., Haryana, Maharashtra, Orissa, Rajasthan, Tamil Nadu and Uttar Pradesh.

S. State No.		Population				No. of children under 5 years of age		
		Total	Rural	Urban	Total	Rural	Urban	
1.	Нагуапа	12850902	10029073	2821829	2106789	1686988	419801	
2.	Maharashtra	62715300	40748494	21966806	8748461	6181682	2566779	
3.	Orissa	26272054	23166419	3105635	3963806	3498772	465034	
4.	Rajasthan	34108292	26 96787 1	7140421	5926969	4772523	1154446	
5.	Tamil Nadu	48297456	32369504	15927952	6596806	4524305	2072501	
6.	Uttar Pradesh	110885874	90912651	19973223	18928272	15701704	3226568	
	Total	295129878	224194012	70935866	46271103	36365974	9905129	

Table 3.1: Total population and total number of children under 5 years of age*

* Source: Census of India 1981, Series I Part IV-A (Social and Cultural Tables)

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Population figures pertaining to rural and urban areas of the 24 selected districts are given in Table 3.2

	State /		Population	•	
5.No.	District	Total	Rural	Urban	
	Haryana	· · · · ·			
1.	Ambala	1400133	936755	463378	
2.	Gurgaon	840817	671655	169162	
£.	Total	2240950	1608410	632540	
	Maharashtra				
3.	Wardha	926737	695231	231506	
4.	Amravati	1858120	1313673	544447	
5.	Sangli	1826186	1432150	394036	
6.	Chandrapur	2054286	1792883	261403	
	Total	6665 329	5233937	1431392	
_	Orissa				
7.	Phulbani	712772	675656	37116	
8.	Baleswar	2253090	2067163	185927	
	Total	2965862	2742819	223043	
_	Rajasthan				
9.	Jaipur	3406104	2166248	1239856	
10.	Bundi	586596	486759	99837	
11.	Bhilwara	1308500	1120225	188275	
12.	Dungarpur	680865	636744	44121	
	Total	5982065	4409976	1572089	
	Tamil Nadu			000050	
13.	Salem	3429822	2437772	992050	
14.	Tirunelveli	3559174	2321482	1237692	
15.	Thangavur	4057230	31210 28	936202	
	Total	11046226	78802 8.2	3165944	
	Uttar Pradesh				
16.	Basti	3576783	3404916	171867	
17.	Barabanki	2012576	1836497	176079	
18.	Etawah	1748737	1490717	258020	
19.	Bareilly	2264770	1613628	651142	
20.	Sultanpur	2037783	1970404	67379	
21.	Deoria	3487350	3255923	231427	
22.	Muradabad	3151044	2300209	850833	
23.	Shahjahanpur	1648659	1329009	319650	
24.	Bijnor	1925637	1445271	480360	
	Total	21853339	18646574	3206765	
	Grand Total	50753771	40521998	10231773	

Table 3.2: Rural and urban population of 24 districts*

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Source: Census of India, 1981

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Table 3.3 presents district-wise population covered under the study. This table also shows the female-male ratio as well as the percentage of children under 5 years of age to the total population.

S.N	S.No. State/District Total popula- tion		Perc	entage of		tages of ch der 5 years		Percent of ma popul	rried n lation h h	otal o.of ouse oids numerated	% of house- holds covered
			Male	Female	Male	Female	Total	Male	Female		
1	2	3	4	5	6	7	8	9	10	11	12
	HARYANA										
01	Ambala	38910	51.67	48.33	5.97	5.31	11.27	23.10	24.79	7276	10.21
02	Gurgaon	22034	52.41	47.59	6.56	6.24	12.81	22.86	24.70	3746	11.61
	Total :	60944	51.94	48.06	6.18	5.64	11.83	23.01	24.76	11022	10.69
	MAHARASHT	'RA									
03	Wardha	23541	51.36	48.64	4,92	4.97	9.89	21.76	24.25	5439	7.83
04	Amravati	94965	54.14	45.86	8.73	5.29	14.02	23.89	17.72	13991	5.42
05	Sangli	41780	51.12	48.88	5.65	5.45	11.10	23.28	25.67	7571	10.01
06	Chandrapur	26902	51.20	48.80	5.75	5.26	11.01	21.69	23.92	5037	10.38
	Total :	187188	52.70	47.30	7.14	5.28	12.42	23.17	21.21	32038	7.69
	ORISSA								,		
07	Phulbani	10162	50.05	49.95	7.05	6.71	13.76	21.09	23.50	1987	16.51
08	Baleswar	14644	51,39	48.61	5.77	5.31	11.08	21.07	23.84	2477	11.63
	Total :	24806	50.84	49.16	6.29	5.89	12.18	21.08	23.70	4464	13.80
	RAJASTHAN				·						•
09	Jaipur	64475	53.14	46.86	6.33	5.36	11.69	22.84	23.71	10029	11.65
10	Bundi	26325	52.40	47.60	6.51	5.99	12.51	23.56	25.26	4629	12.25
11	Bhilwara	38021	51.84	48.16	3.48	2.94	6.42	24.85	26.61	7564	7.91
12	Dungarpur	26693	50.99	49.01	6.01	5.98	11.98	23.27	24.81	4551	12.96
	Total :	155514	52.33	47.67	5.61	4.98	10.59	23.53	24.87	26773	10.92
	TAMIL NADU					-					
13	Salem	72001	50.65	49.35	4.10	4.00	8.10	23.71	27.63	15831	7.29
14	Tirunelveli	288 79	50.54	49.46	4.36	4.10	8.46	22.16	26.42	6053	8.21
15	Thanjavur	51311	50.33	49.67	4.81	4.61	9.42	21.76	25.44	14087	8.72
	Total :	152191	50.52	49.48	4.39	4.23	8.61	22.76	26.66	35971	8.00

Table 3.3: Distribution of population covered under the study

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	ALL STATES	901453	52.23	47.77	6.25	5.48	11.73	22.72	23.77	165828	10.45
	TOTAL :	320810	52.88	47.12	6.93	6.38	13.31	22.11	23.19	55560	13.08
24	Bijnor	11506	53.55	46.45	7.27	6.44	13.71	21.46	22.35	1956	15.54
23	Shahjahanpur	16085	53.47	46.53	6.53	5.89	12.42	21.82	23.27	3049	12.73
22	Muradabad	59038	52.72	47.28	7.78	7.30	15.08	19.82	20.54	12106	14.19
21	Deoria	42584	52.07	47.93	7.18	6.83	14.00	22.65	24.11	6142	14.72
20	Sultanpur	18916	5 1.7 2	48.28	8.06	7.33	15.39	26.14	28.12	2848	14.96
19	Bareilly	78060	52.37	47.63	6.06	5.71	11.76	21.12	22.65	13602	11.62
18	Etawah	27216	54.20	45 .80	7.31	6.28	13.59	22.10	23.18	4909	12.75
17	Barabanki	36153	54.75	45.25	6.63	5.58	12.21	24.66	24.29	6567	11.51
16	Basti	31252	52.34	47.66	6.56	6.44	12.99	23.20	24.29	4381	14.36
	UTTAR PRADE	SH			• .						

Number and type of different sampling units selected for the study are given in Table 3.4.

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S. No.	Type of sampling units	Haryana	Mahara- shtra	Orissa	Rajasthan	Tamil Nadu	Uttar Prade	Total sh
1.	Number of villages**	19	55	19	64	45	133	335
2.	Mothers/ Caretakers	1178	2465	616	2923	2879	7269	17330
3.	No. of Medi- cal Colleges	4	2	2	2	9	9	28
4.	No. of District Hospitals	8	3	4	4	4	19	42
5.	No. of Taluka Hospitals	0	3	4	0	19	0	26
6.	No. of PHCs/ CHC	26	15	9	13	52	99	214
7.	Others*	24	4	14	2	27	25	96
8.	No. of Health and Family We Training centre		2	2	1	2	4	12
9.	No. of SCs	11	37	8	43	39	86	224
10.	No. of Pharmacists	23	36	18	55	82	148	362
11.	No. of Medical Officers	62	27	33	21	111	152	406
12.	No. of Private Practitioners	29	56	18	53	102	166	424
13.	No. of Health Workers	57	107	47	102	253	336	902
14.	No. of Blocks covered in Rural areas	4	8	5	9	13	24	63
15.	No. of Wards covered in urban areas	5	31	6	18	17	31	108

Table 3.4 Number and type of different sampling units covered in the ORT survey

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** Data regarding the infrastructural facilities available for the sampled villages were collected and relevant tables (Tables 1-5) are given in Annexure 4.

* Others include Dispensaries, Nursing homes, I.D.Hospitals, Police & Rly.Hospitals, Mission/ Charitable hospitals, State Health Centres/State Ayurvedic Hospitals, and Municipal Hospitals. Health system in rural India is well defined. Functions and responsibilities allocated at various levels are given as under:

At the state level, the Directorate of Health Services is responsible for the health care of rural and urban people in the state.

At the district level, Chief Medical Officer is responsible for the health care of rural and urban people in the district. Within the district there are Primary Health Centres (PHCs) responsible for health of the people in rural areas allocated to them. Each PHC is divided into sub-centres, depending on the population in the PHC area. The sub-centre is the lowest health unit in rural area. Each sub-centre looks after a number of villages comprising population of about 5000 in plains, but in hilly, tribal and inaccessible areas, the sub-centre looks after only about 3000 population. Auxiliary Nurse Midwife (ANM) is the person incharge of sub-centre. She is in a sense, the only real grass root worker who is in constant touch with the people and looks after the health problems of the people in her area. Sub-centre is the only health facility which is very close to the villagers. There are Community Health Centres also in the rural areas. One Community Health Centre covers 80,000 to 1.2 lakh of population. This serves as a referral institution, having a minimum of 30 beds and 4 specialists, for 4 Primary Health Centres. It was expected to have 50% of the total required Community Health Centres in position in the country by 31.3.1990.

Table 3.5 gives the distribution of PHCs, CHCs and sub-centres in the six States selected for the study.

S.No. State		РНС		CHC		Sub-centre	
1.	Нагуапа	341	@	41	*	2299	*
2.	Maharashtra	1546	*	278	*	9248	*
3.	Orissa	984	* ·	83	*	5426	*
4.	Rajasthan	. 898	@	136	@	6492	*
5. ·	Tamil Nadu	1222	-	72	*	8558	*
6.	Uttar Pradesh	2972	*	185	*	21653	*
	Total	7962		795		53676	

Table 3.5	Number of Primary Health Centres, Community Health Centres and	
	Sub-Centres in six states**	

Information relates to 31.12.89

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@ Information relates to 30.9.89

** Source : Rural Health Statistics in India, Dec. 1989

Table 3.6 presents the actual figure of trained personnel in the sampled states.

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Table 3.6: Number of medical and paramedical personnel trained under the	
Multi-purpose Worker Schemes since inception of the scheme as on December	
1987 *	

S. No	State).	Medical Officer	@BEE	Health Assis- tant (male)	Health Assis- tant (female)	Multi- Purpose Worker (male)	Multi- Purpose Worker (female)
1.	Haryana	892	95	640	132	1913	1021
2.	Maharashtra	3719	00	3949	2807	11409	14609
3.	Orissa	667	312	1373	443	4457	6953
4.	Rajasthan	883	186	1614	520	3761	2436
5.	Tamil Nadu	2107	401	2239	1701	4970	4185
6.	Uttar Pradesh	2486	1020	4593	5442	11363	26215
•	Total	10754	2014	14408	11045	37873	55419

 * Source: Rural Health Statistics in India Dec. 1989. Directorate General of Health Services, Ministry of Health & Family Welfare, Govt. of India.
 @ Block Extension Educator

Twelve Health and Family Welfare Training Centres were also visited by the investigators (medical graduates) but the response was not very encouraging. These centres train the medical and paramedical personnel on ORT. At most of these training centres it was pointed out that the faculty who had undergone the training in management of diarrhoea at NICED, Calcutta was inadequate (there is a general feeling that personnel trained at NICED, Calcutta are the best facilitators). Table 3.7 gives the number of faculty members trained in ORT at NICED, Calcutta.

S.No	. State	No. of H & F W T centres	T	otal Faculty members	 Faculty members trained at NICED Calcutta 	
		1 centres	Male	Female	Total	
1	2	- 3	4	5	6	7
1.	Haryana	1	5	6	11	2 (18.2)
2.	Maharashtra	2	10	6	16	2 (12.5)
3.	Orissa	2	9	6	15	(6.7)
4.	Rājasthan	1	10	6	16	2 (12.5)
5.	Tamil Nadu	2	17	9	26	3 (11.5)
6.	Uttar Pradesh	4	30	12	42	4 (9.5)
	Total	12	81	45	126	14 (11.1)

 Table 3.7: Distribution of faculty members of Health and Family Welfare Training

 Centres who got training at NICED, Calcutta

Figures in parenthesis are the percentages.

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Table 3.8 gives the number of medical officers and health workers trained in management of diarrhoea by the Health and Family Welfare Training Centres.

Table 3.8 Personnel trained by H&FWTCs in management of diarrhoea

S. No.	State	No. of H&FWTC		edical ficers	Health Workers		Total per trained	
			87-88	88-89	87-88	88-89	medical officers	health workers
1	2	3	4	5	6	7	8	9
1.	Haryana	1	9	NA	26	16	9	42
2.	Maharashtra	2	12	726	24	NA	738	24
3.	Orissa	2	315	75	NA	8	390	
4.	Rajasthan	1	NA	NA	NA	NA	NA	NA
5.	Tamil Nadu	2	94	439	817	8536	533	9353
6.	Uttar Pradesh	4	675	331	4930	265 6	1006	7586
	Total	12 :	1105	1571	5797	11216	2676	17013

NA: Information not available.

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CHAPTER 4

MOTHERS' KNOWLEDGE OF ORT

The success of ORT programme depends to a very large extent on mothers' knowledge about different aspects of ORT. In order to study different aspects of ORT 17,330, mothers/ caretakers of children below 5 years of age were interviewed through semi-structured interview schedule and their knowledge about different aspects of the management of diarrhoea was investigated. About 53 per cent of these respondents are illiterate. Taking those who are literate, 16.6 per cent, 13.2. per cent and 17.6 per cent have studied upto primary, middle and matric and above levels respectively (Table 4.1). The percentage of literate mothers is the highest (68.2%) in Tamil Nadu followed by Maharashtra (63.4%) and Haryana (56.4%). Level of literacy among mothers is as low as 37 per cent in Rajasthan and Uttar Pradesh, whereas in Orissa it is about 50 per cent.

S.N	No. State	No .of mot hers/ care- tak ers	Illite- rate	Upto primary	Upto middle	Upto matr- ic/higher secondary	uate &
1 :	2	3	4	5	6	7	8
1	Haryana	1 178	513	135	145	197	188
	· ·		(43.6)	(11.5)	(12.3)	(16.7)	(15.9)
2	Maharashtra	2465	903	537	558	374	93
			(36.6)	(21.8)	(22.6)	(15.2)	(3.8)
3	Orissa	6 16	313	104	89	95	15
		•	(50.8)	(16.9)	(14.4)	(15.4)	(2.4)
4	Rajasthan	2 923	1868	360	291	254	150
	•		(63.9)	(12.3)	(10.0)	(8.7)	(5.9)
5	Tamil Nadu	2 8 79	914	860	616	441	48
			(31.8)	(29.9)	(21.4)	(15.3)	(1.6)
6	Uttar	7269	4584	875	583	726	501
	Pradesh		(63.1)	(12.0)	(8.0)	(10.0)	(6.9)
	Total :	17 330	9095	2871	2282	2087	995
			(52.5)	(16.6)	(13.2)	(12.0)	(5.7)

Table 4.1: Distribution of mothers/caretakers by education

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Figures in parenthesis are the percentages.

Note: - Percentages are calculated on the basis of Col.3.

4.1 Children's health problems: Who takes decision?

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Table 4.2 shows that only 18.1 per cent of the mothers/caretakers play the role of decision makers with regard to the health problems of children in the family whereas in majority of families the decisions are taken by the husbands of the respondents (66.4%). However, in 14 per cent of the households, the main decision makers are fathers-in-law, mothers-in-law, brothers-in-law.

				Rela	tionship wi	th respond	ent	
S. N	o. State	No.of mothers/ caretaker	Self s	Spouse	Father- in-law	Mother- in-law	Brother- in-law	Others*
1	2	3	4	5	6	7	8	9
1	Haryana	1178	280 (23.8)	656 (55.7)	181 (15.3)	39 (3.3)	9 (0.8)	13 (1.1)
2	Maharashtra	2465	176 (7.1)	1776 (72.0)	348 (14.1)	73 (3.0)	26 (1.1)	66 (2.7)
3	Orissa	616	29 (4.7)	512 (83.1)	50 (8.1)	7 (1.1)	11 (1.8)	. 7 (1.1)
4	Rajasthan	2923	38 (1.3)	2076 (71.0)	691 (23.6)	46 (1.6)	45 (1.6)	27 (0.9)
5	Tamil Nadu	2879	1218 (42.3)	1582 (55.0)	18 (0.6)	38 (1.3)	3 (0.1)	20 (0.7)
6	Uttar Pradesh	7269	1400 (19.3)	4905 (67.5)	578 (8.0)	490 (2.6)	62 (0.9)	134 (1.8)
	Total :	17330	3141 (18.1)	11507 (66.4)	1866 (10.8)	393 (2.3)	156 (0.9)	267 (1.5)

Table 4.2: Decision makers with regard to health problems of children in the family

Figures in parenthesis are the percentages.

Note: - Percentages are calculated on the basis of Col. No. 3.

* Others include Father, Sister-in-law, Mother, Brother, Grand father, Grand mother, Nephew, Daughter, Daughter-in-law, Uncle and Aunt.

4.2 Management of diarrhoeal children by mothers/caretakers

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Table 4.3 shows that 50.7 per cent of children with diarrhoea are treated at home by their mothers/caretakers. Only 9.6 per cent of mothers seek the advice of health workers. However, 72 per cent children are taken to private practitioners and 20.9 per cent of them are taken to the government hospitals or PHCs.

		-				
S.N	lo. State	No. of childern having diarrhoea in the last 30 days	Treated at home	Got advice from health- worker and then treated	practiti-	Went to nearest hospital/ PHC
1	2	3	4	5	6	7
1.	Haryana	188	101 (53.7)	11 (5.9)	161 (85.6)	_18 (9.6)
2.	Maharashtra	507	208 (41.0)	85 (16.8)	442 (87.2)	134 (26.4)
3.	Orissa	149	114 (76.5)	21 (14.1)	44 (29.5)	54 (36.2)
4.	Rajasthan	781	468 (59.9)	101 (12.9)	271 (34.7)	290 (37.1)
5.	Tamil Nadu	527	185 (35.1)	71 (13.5)	337 (63.9)	107 (20.3)
6.	Uttar Pradesh	1732	892 (51.5)	85 (4.9)	1541 (89.0)	210 (12.1)
	Total	3884	1968 (50.7)	374 (9.6)	2796 (72.0)	813 (20.9)

Table 4.3: Action taken by mothers/caretakers when the child under 5 years had diarrhoea during the last 30 days

Figures in parenthesis are the percentages.

Note : Percentages are calculated on the basis of Col.3.

It is interesting to note that more than 85 per cent of the children with diarrhoea are taken to private practitioners in Haryana, Maharashtra and Uttar Pradesh. Consequently percentages of children with diarrhoea who are taken to the government hospitals are as low as 9.6 in Haryana and 12.1 in Uttar Pradesh.

4.3 Recognising ORS packets

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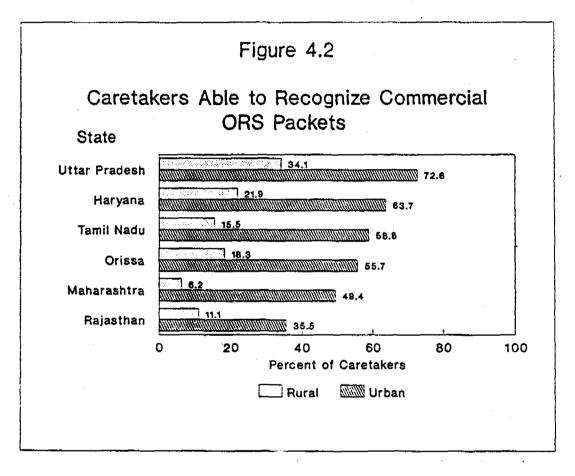
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Figure 4.1 shows that percentage of mothers/caretakers' recognition of government ORS packets is higher in rural areas as compared to urban areas. This percentage is the highest in Tamil Nadu (28.2%) followed by Haryana and Maharashtra (23%). The trend is, however, just the opposite in the State of Rajashtan where the percentage of such mothers is higher in urban areas than in the rural areas.

Caretal	kers Able	to Recoo	nise Gov	/ernmer	nt
State		RS Packe	-		
Tamil Nadu	7.9	28.2	•		
Haryana	7.8	23.1			
Mahar ashtra	7.4	22.8			
Orissa	15.7				
Uttar P radesh	4 8.2				
Rajasthan	5.8 12.7	,	1		
	0 20	40 Possont 4	60 of Caretakers	80	100
		reicenti	JI Galetakers		

Figure 4.2 shows that the percentage of respondents recognizing the commercial ORS packets is quite high in urban areas as compared to rural areas in almost all the States. It varies from 72.6 per cent to 35.5 per cent, highest being in Uttar Pradesh and lowest being in Rajasthan. The recognition of commercial ORS packets in rural areas also happens to be the highest (34.1%) in Uttar Pradesh. It is, therefore, quite evident from Figures 4.1 and 4.2 that commercial ORS packets are recognised more widely than the government ORS packets in all the States.



Mothers were shown the leading local commercial ORS packets to recognize only after they failed to recognize the government packets, thus the question was biased in favour of government packets. In other words, the proportion of mothers recognizing the local packets is understated because the formulation of the question was such that it does not take into account mothers who were familiar with both commercial as well as the government packets. Districtwise distribution of mothers recognising government/commercial ORS packets is given in Anexure 4 (Table 6).

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4.4 Supply of ORS packets

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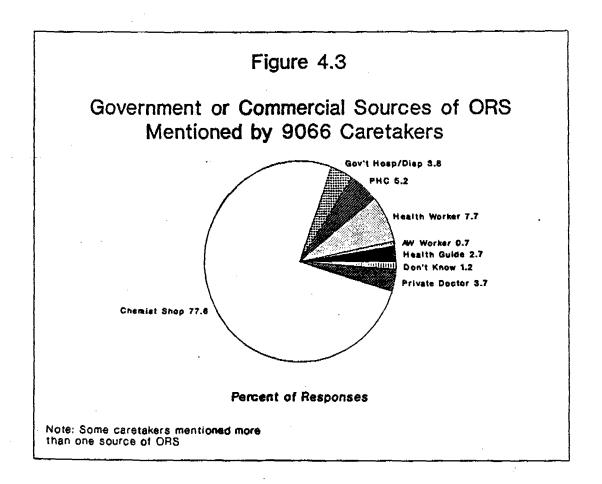
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Figure 4.3 shows that out of the total number of mothers who have recognised ORS packets, 77.6 per cent can get these from chemists' shops as against all governmental sources put together such as village health guides, anganwadi workers, health workers, PHC and government hospital or dispensary which account for only 20 per cent of the ORS supply to the mothers. Most frequented source among them is the health workers who have been mentioned by 7.7 per cent of the mothers.



Statewise distribution of sources of supply of ORS packets to mothers is given in Table 4.4.

Table 4.4: Distribution of mothers/	caretakers by the source of supply of ORS packets
(Govt/Commercial)	

S. No.	State	Number recognised ORS Packe	Guide	Angan- wadi Worker	Health Worker	РНС	Govt. Hospital/ Dispensary	• –	Private Doctor	Don't Know the source of supply
1	2	3	4	5	6	7	8	9	10	11
1.	Haryana	723	35 (4.8)	4 (0.6)	77 (10.7)	17 (2.4)	11 (1.5)	540 (74.7)	25 (3.6)	30 (4.1)
2.	Maharas- htra	1080	43 (4.0)	16 (1.5)	121 (11.2)	110 (10.2)	50 (4.6)	688 (63.7)	67 (6.2)	14 (1.3)
3.	Orissa	305	23 (7.5)	1 (0.3)	19 (6.2)	20 (6.6)	26 (8.5)	216 (70.8)	3 (1.0)	1 (0.3)
4.	Rajasthan	972	35 (3.6)	7 (0.7)	105 (10.8)	76 (7.8)	82 (8.4)	731 (75.2)	13 (1.3)	26 (2.7)
5.	Tamil Nadu	1611	50 (3.1)	29 (1.8)	239 (14.8)	68 (4.2)	117 (7.3)	1110 (68.9)	19 (1.2)	0 (0.0)
6.	Uttar Pradesh	4375	55 (1.3)	3 (0.1)	141 (3.2)	178 (4.1)	58 (1.3)	3753 (85.8)	207 (4.7)	39 (0.9)
	Total :	9066	241 (2.7)	60 (0.7)	702 (7.7)	468 (5.2)	344 (3.8)	7038 (77.6)	334 (3.7)	110 (1.2)

Figures in parenthesis are the percentages. Note: Some respondents have indicated more than one response. The percentages are calculated on the basis of col.2.

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4.5 Use of ORS

Table 4.5 shows that 44 per cent of the mothers have used ORS (government/commercial) for diarrhoea. Percentage of such mothers is highest in Haryana (50.7%) and lowest in Rajasthan (27.5%).

Table 4.5: Use of ORS by mothers/caretakers

S.No. State	No.of		ORS used	
	mothers/ caretakers	Yes	No	Do not know
1 2	3	4	5	6
1 Haryana	1178	597	128	453
·		(50.7)	(10.9)	(38.4)
2 Maharashtra	2465	950	136	1379
		(38.6)	(5.5)	(55.9)
3 Orissa	616	283	23	310
		(46.0)	(3.7)	(50.3)
4 Rajasthan	2 923	805	. 240	1878
		(27.5)	(8.2)	(64.3)
5 Tamil Nadu	2879	1408	203	1268
		(48.9)	(7.1)	(44.0)
6 Uttar	7269	3584	355	3330
Pradesh		(49.3)	(4.9)	(45.8)
Total :	17330	7627	1085	8618
		(44.0)	(26.3)	(49.7)

Figures in parenthesis are the percentages. Note: - Percentages are calculated on the basis of Col.3.

4.6 Preparation of ORS solution

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Table 4.6 shows the distribution of mothers who have recognised ORS packets and claimed to know how to prepare ORS solution.

S.No.	State	No. of mothers/ caretakers	No. of mothers who claimed to know how to pre- pare ORS solu- tion	Percentages
1	2	3	4	5
1.	Haryana	1178	617	(52.4)
2.	Maharashtra	2465	954	(38,7)
3.	Orissa	616	284	(46.1)
4.	Rajasthan	2923	832	(28.5)
5.	Tamil Nadu	2879	1442	(50.1)
6.	Uttar Pradesh	7269	3940	(54.2)
	Total	17330	80 69	(46.6)

Table 4.6: Preparation of ORS solution

Figure 4.4 shows that of the 8069 mothers/caretakers who have claimed to know how ORS solution is prepared, not more than 30.3 per cent of them could prepare it correctly in any of the States under the study. The highest percentage of such respondents is in Tamil Nadu (30.3 %) and the lowest percentage is in Uttar Pradesh (7%).

Correct ORS Preparation Rate State Tamil Nadu 30.3 ÷. Orissa 23.2 Haryana 21.7 20.8 Maharashtra 10.2 Rajasthan' Uttar Pradesh 0 20 40 60 80 100 Percent of Caretakers Using ORS Correct preparation of ORS solution is defined as dissolving the ORS according to

Correct preparation of ORS solution is defined as dissolving the ORS according to instructions given on the packet. For example, for some commercial ORS brands such as Electral, correct preparation means dissolving the correct amount of powder, measured by a spoon, into a glass; and for government ORS packet, it means emptying the entire packet into 950-1200 ml of water. In both the cases the correct preparation means dissolving the ORS completely.

The distribution of mothers/caretakers on different items considered relevant for the correct preparation of ORS solution is given in Table 4.7. It is clear from the table that 93.9 per cent of the mothers prepared the ORS in clean container and 80 per cent prepared with clean hands. Around 75 percent did not use the correct amount of ORS, about 83 per cent dissolved the ORS completely.

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Figure 4.4

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S. No.	State	No. of mothers who claimed to know how to prepare ORS solution		Clean water used	ORS complet- ely disso- lved	Correct amount of powd- er used	Respon- dents hands were clean	Correct amount of water used
1	2	3	4	5	6	7	8	9
1.	Haryana	617	614	613	548	209	594	143
2.	Maharashtra	a 954	879	898	850	216	693	212
3.	Orissa	284	252	266	76	68	203	68
4.	Rajasthan	832	832	815	755	106	742	219
5.	Tamil Nadu	1442	1343	1206	1149	488	1137	487
6.	Uttar Pradesh	3940	3672	3737	3346	991	3087	964
	Total	8069	7575 (93.9)	7535 (93.4)	6724 (83.3)	2078 (25.8)	6456 (80.0)	2093 (25.9)

 Table 4.7: Observations made by the investigators while the mothers were preparing ORS solution

Figures in parenthesis are the percentages.

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4.7 ORS use rate

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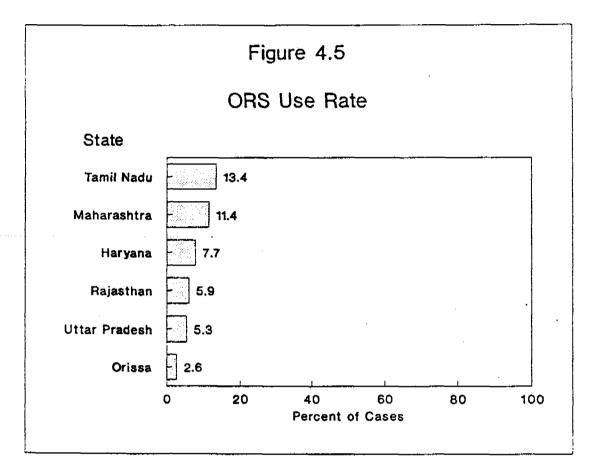
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ORS use rate is defined as the percentage of cases who have used ORS for diarrhoea. Figure 4.5 shows that it is the highest in Tamil Nadu and lowest in Orissa.



4.8 Preparation of SSS

Table 4.8 shows that about 38 per cent of the mothers/ caretakers have claimed to know how to prepare Sugar Salt Solution (SSS). The percentage of such mothers is more than 55 in Haryana, Maharashtra and Orissa; whereas, it is the lowest in Tamil Nadu (24.2 %).

Т	Table 4.8:Percentage of mothers / caretakers who prepared SSS					
S.	No. State	No. of mothers/ caretakers	No.of mothers/ caretakers who claimed that they know how to prepare SSS	Percentage of mothers who claimed to know how to prepare SSS		
		A	В	B/A		
1.	Haryana	1178	679	57.6		
2.	Maharashtra	2465	1464	59.4		
3.	Orissa	616	343	55.7		
4.	Rajasthan	2923	977	33.4		
5.	Tamil Nadu	2879	698	24.2		
6.	Uttar Pradesh	7269	2383	32.8		
	Total	17330	6544	37.8		

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4.9 SSS use rate

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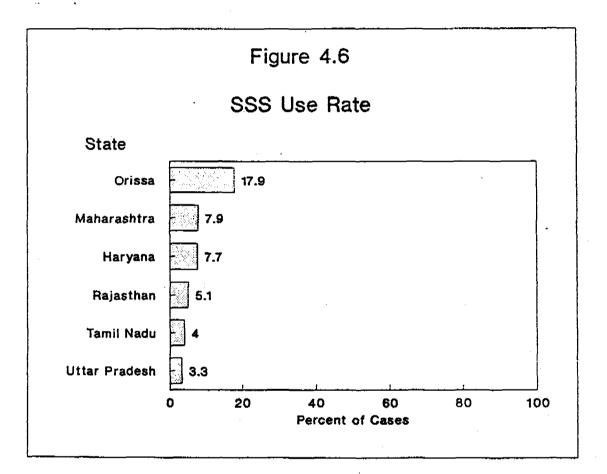
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Figure 4.6 indicates that SSS use rate is the highest in Orissa (17.9%) followed by Maharashtra (7.9%) and is the lowest in Uttar Pradesh (3.3%).



4.10 ORT use rate

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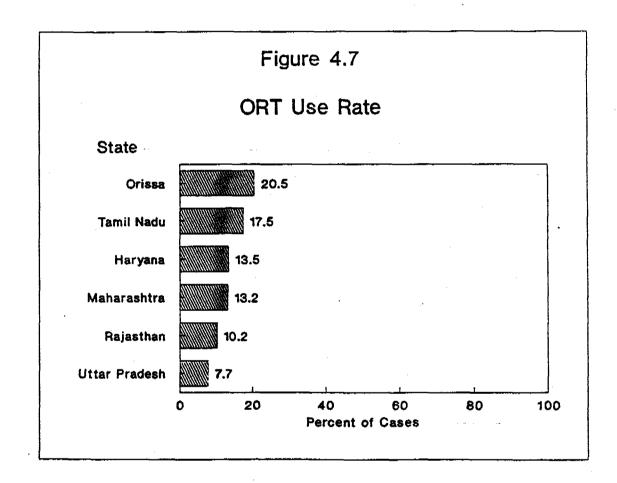
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The ORT use rate is defined here as percentage of children with diarrhoea in the last 24 hours who are given either ORS or SSS. The ORT use rate ranges from 20.5 per cent in Orissa to 7.7 per cent in Uttar Pradesh (Figure 4.7).



4.11 Continued breast feeding rate

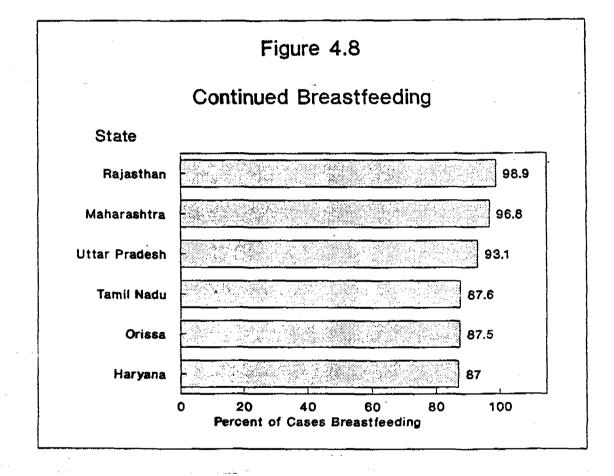
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Continued breast feeding rate has been calculated from out of the mothers who were breast feeding before their children developed diarrhoea. Figure 4.8 shows that percentage of such mothers is the highest in Rajasthan (98.9%) and the lowest in Haryana (87%) which indicates quite a satisfactory state of affairs as far as breast feeding is concerned.



4.12 Continue feeding rate

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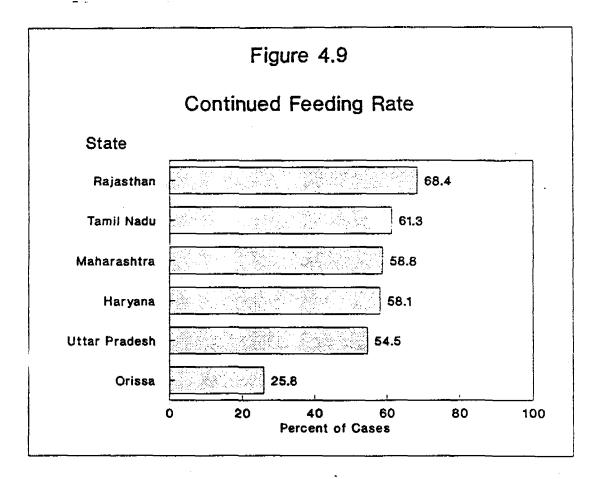
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More than half the mothers/caretakers give their children as much food as usual or more food than usual during diarrhoea (Figure 4.9). Percentage of such mothers is 68.4 in Rajasthan. However, this percentage varies from 54.5 to 61.3 in other States except Orissa where this percentage is very low, i.e., 25.8 only.



4.13 Increased fluid rate other than breast feed

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() () () () Figure 4.10 shows quite a low percentage of mothers who say that they have increased the amount of fluids to their children during diarrhoea. The percentage of such mothers varies from 1.5 to 11.6, the highest being in Haryana and the lowest being in Tamil Nadu.

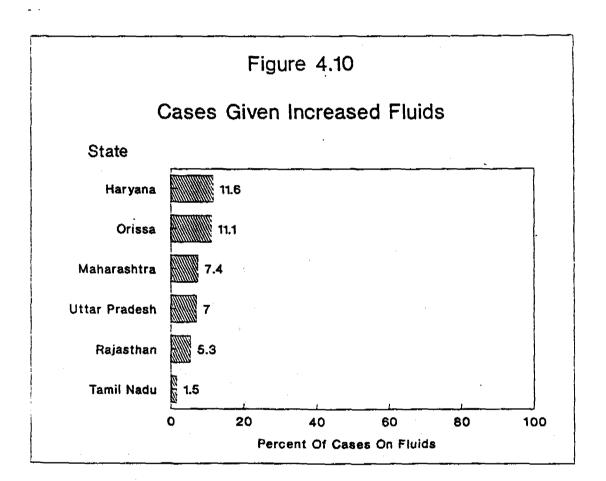
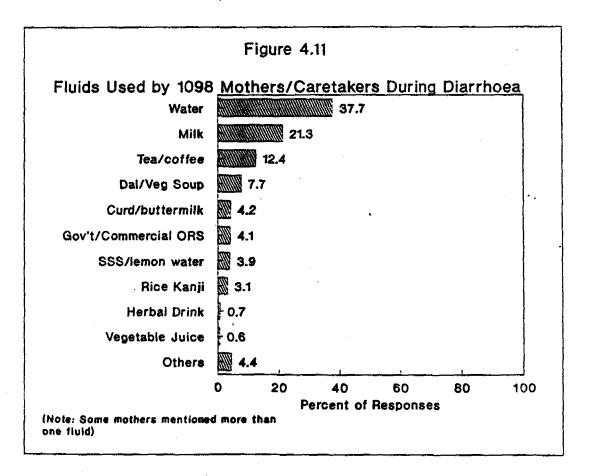


Figure 4.11 shows that the most common fluids given to children during diarrhoea are water (37.7%), milk (21.3%), and tea/coffee (12.4%). ORS and Sugar Salt Solution (SSS) are mentioned by almost equal percentage but they rank sixth and seventh among the ten fluids most frequently mentioned by the mothers.



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4.14 Drug use rate

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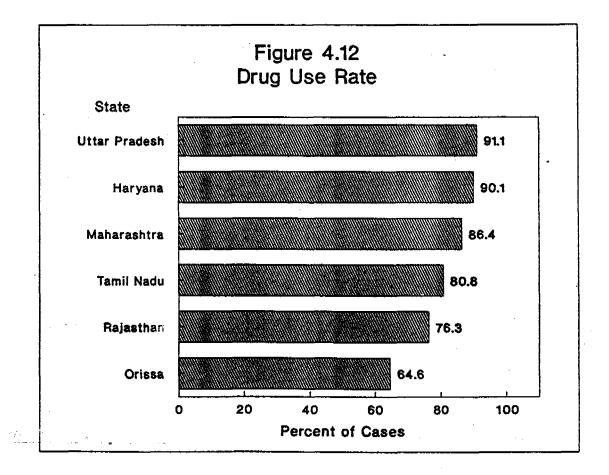
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The percentage of children given drugs during the last diarrhoeal episode is very high. It ranges from 91.1 per cent in Uttar Pradesh to 64.6 per cent in Orissa (Figure 4.12). Mothers were asked what medicines they gave to their children during the last episode of diarrhoea; if they gave traditional remedies such as, tonics, herbs, and powders, these were also included in this answer along with allopathic medicines.



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4.15 Knowledge of referral

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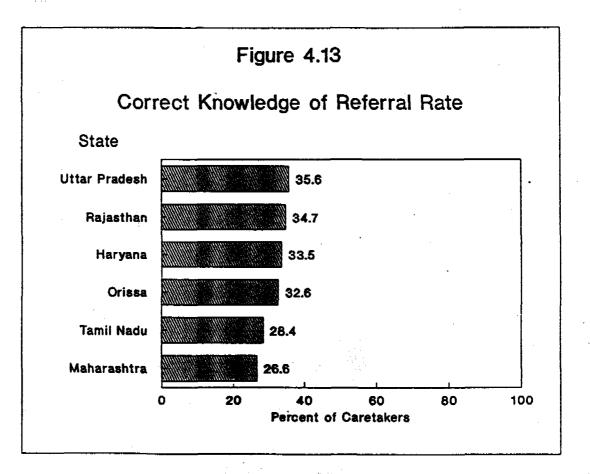
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Mothers were asked about the diarrhoeal symptoms which compelled them most to seek medical help. Figure 4.13 shows that approximately 1/4th to 1/3rd of the mothers could name three or more symptoms of dehydration in a child that compelled them to seek medical help. Awareness of these symptoms is quite uniform among the States, highest being in Uttar Pradesh (35.6%) and the lowest in Maharashtra (26.6%).



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4.16 30 days diarrhoea incidence rate

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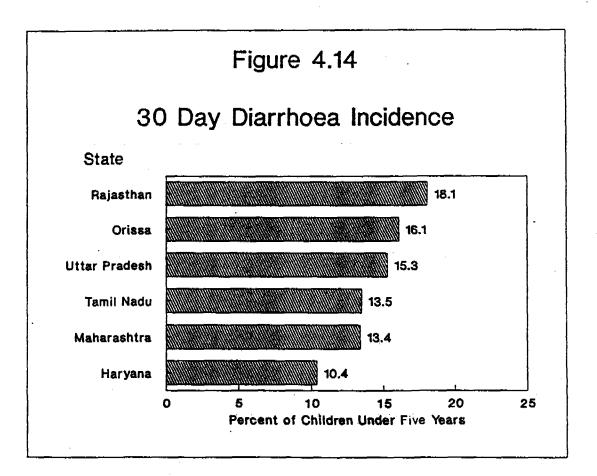
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The 30 days diarrhoea incidence rate is the percentage of children having diarrhoea during the last 30 days. Figure 4.14 shows that the percentage of such children is the highest in Rajasthan (18.1%) and it is lowest in Haryana (10.4%).

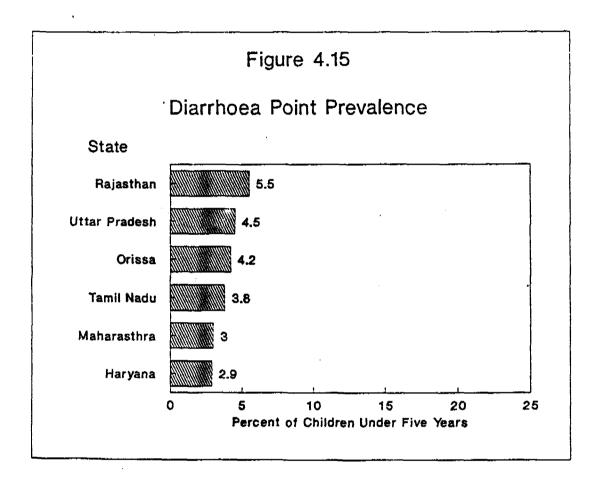


4.17 Diarrhoea point prevalence

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This is the percentage of children having diarrhoea during the last 24 hours. Figure 4.15 shows the percentage of children with diarrhoea during the last 24 hours. The percentages vary from 5.5 to 2.9 highest being in Rajasthan and lowest being in Haryana.



Summary

The diarrhoea incidence figures obtained through the present survey are in the same range as those from previous surveys conducted by National Institute of Communicable Diseases, New Delhi in 1985 and 1987.

Data presented in this Chapter lead us to the following observations:

i) The continued breast feeding rate is high in all the States, reflecting the long standing practice among the mothers who continued breast feeding during diarrhoea.

- ii) Continued feeding rate is very low in Orissa. However, the low rates were also found in Orissa during KAP study conducted by the Indian Market Research Bureau from 1985 to 1989 in which 68 per cent of mothers interviewed reported that they gave their children less food and/or fed them less after and during diarrhoeal episode.
- iii) The percentage of diarrhoeal cases given increased fluids is surprisingly very low in all the States. It seems that this aspect of ORT programme has not been adequately emphasised and communicated to the mothers.
- iv) Rate of increased fluid intake during diarrhoea in Tamil Nadu is unexpectedly low.
- v) There is a wide variation in SSS use rates between the States. Again Tamil Nadu surprisingly has the lowest rate among all the States. It may be due to the fact that SSS use rate is promoted and/or used more widely in States where access to government ORS is low.
- vi) Familiarity of mothers with the commercial brands of ORS is more than government ORS. Unfortunately very few of the commercial brands adhere to the WHO formula.

The percentage of mothers going to private practitioners for diarrhoeal treatment of their children is very high. This might be the reason for the mothers' familiarity with commercial ORS packets because the private practitioners, more often than not, recommend the use of commercial ORS. This also gets supported from the data when the large number of mothers have mentioned that they obtain their ORS packets from chemist shops or doctors' dispensary rather than from the local PHC or sub-centre.

- vii) The ORS use rate is highest in Uttar Pradesh and Haryana, the States where commercial ORS brands are most widely known to mothers.
- viii) And, finally, the high drug use rate reflects the tendency of mothers to get their children cured immediately and therefore, they turn to drugs to achieve quick results and relief for their children.

Recommendations

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Mothers need to be educated about nutrition and locally available food to be given to children during diarrhoea, and also about giving atleast the same or more amount of food.

Major emphasis should be placed on the message to mothers about increasing use of fluids during diarrhoea. Mothers should be adequately informed about the recommended home made fluids available in their regions. The high familiarity with commercial ORS brands in most States suggests that there is a larger potential market for WHO formula for ORS where it becomes more widely available through social marketing. Ideally, this formula should be sold through chemists' shops, where it will compete with the familiar but more expensive commercial ORS brands.

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Mothers will continue to prepare ORS incorrectly as long as there are packets of different sizes available in the market with different preparation instructions written on them. The problem of incorrect ORS preparation is compounded by the low literacy rate among the mothers in most of the states. It is strongly reccommended that much of the confusion could be easily eliminated by adopting a uniform packet size with clear and uniform instructions and a familiar logo identifying packets using the WHO formula.

<u>CHAPTER 5</u>

HEALTH WORKERS' KNOWLEDGE OF ORT

The paramedical workers, especially the ANMs and the MPHWs(M), are really the grassroot workers as they are the ones who remain in constant touch with the rural masses. In rural areas, the higher level and specialised health and medical facilities, like dispensaries, PHC level hospitals, etc. are not within the easy reach of the village population. Consequently, the sub-centre is relatively easily accessible to them. The ANMs or the MPHWs are expected to stay at or around the sub-centre so that they become accessible to the rural masses visiting sub-centres at any time for their health problems. Thus, the success of any health programme, whether it is ORT or Immunization, depends largely on the knowledge, competence and committment of these health workers. In view of the importance of the services of the health workers, it is essential to involve them in framing the health plans at the grassroot level which they have to really carry out. Any plan, thrust upon them from above may not be a success and may be devoid of real needs of the village population which only a grassroot worker may understand.

In the present study, 902 health workers from different health facilities of the study areas were interviewed with a view to assess their knowledge in respect of handling different aspects of ORT programme. The type of health workers interviewed are ANM/MPHW(M), Lady Health Visitor, Health Inpsector, Nurse and Block Extension Educator. Results of the study are presented in the following pages.

5.1 Training in management of diarrhoea

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The statewise distribution of the health workers who have received special training in management of diarrhoea is given in Table 5.1. This Table shows that more than 50 per cent of the health workers have not received the training and in case of Rajasthan only 5 per cent of them have undergone any such training.

S.No.	State	No. of health workers	Received Special Training in Management of Diarrhoea
1	2	3	4
1.	Нагуапа .	57	23 (40.4)
2.	Maharashtra	107	44 (41.1)
3.	Orissa	47	26 (55.3)
4.	Rajasthan	102	5 (4.9)
5.	Tamil Nadu	253	130 (51.4)
5.	Uttar Pradesh	336	189 (56.3)
	Total :	902	417 (46.2)

Table 5.1: Health workers who received special training in management of diarrhoea

Figures in parenthesis are the percentages

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5.2 Knowledge about signs to assess simple diarrhoeal patients

The health workers are expected to have the knowledge of atleast three out of six signs of simple diarrhoea. The percentage of health workers having adequate knowledge, i.e., of atleast three signs is about 63 in all the states (Table 5.2). This percentage is as high as 80.2 in Tamil Nadu and as low as 44 in Maharashtra. In rest of the States this percentage is over 50. The statewise distribution of health workers having knowledge of the major six signs for assessing diarrhoea is given in Table 5.3. This Table shows that the knowledge among health workers about four signs, viz., duration of diarrhoea, number of stools in 24 hours, colour of stools or bloody stools and consistency of loose or watery stools is quite adequate.

S.No.	State	No. of health workers	Recognised less than three signs	Recognised thr ee or more signs
1	2	3	4	5
	Haryana	57	22 (38.6)	35 (61.4)
2.	Maharashtra	107	60 (56.1)	47 (43.9)
3.	Orissa	47	23 (48.9)	24 (51.1)
4. :	Rajasthan	102	45 (44.1)	57 (55.9)
5. '	Tamil Nadu	253	50 (19.8)	203 (80.2)
5.	Uttar Pradesh	336	133 (39.6)	203 (60.4)
	Total:	902	333 (36.9)	569 (63.1)

 Table 5.2: Health workers recognizing three or more signs of diarrhoeal illness

Figures in parenthesis are the percentages

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S.No	. State	No. of health workers	Dura- tion of diarr- hoea	No. of stools in 24 hours	Colour of stool or bloody stool	Consis- tency of loose or watery stool	Child has fever	Child has other illness
1	2	3	4	5	6	7	8	9
1.	Haryana	57	47 (22.5)	50 (87.7)	28 (49.1)	32 (56.1)	7 (12.3)	0 (0.0)
2.	Maharashtra	107	73 (68.2)	86 (80.4)	32 (29.9)	59 (55.1)	14 (13.1)	3 (2.8)
3.	Orissa	47	31 (66.0)	38 (80.9)	22 (46.8)	22 (46.8)	9 (19.1)	7 (14.9)
4.	Rajasthan	102	86 (84.3)	71 (69.6)	41 (40.2)	62 (60.8)	7 (6.9) -	2 (2.0)
5.	Tamil Nadu	253	244 (96.4)	231 (91.3)	162 (64.0)	189 (74.7)	51 (20.2)	12 (4.7)
6.	Uttar Pradesh	336	281 (83.6)	255 (75.9)	201 (59.8)	203 (60.4)	86 (25.6)	20 (6.0)
	Total :	902	762 (84.5)	731 (81.0)	486 (53.9)	567 (62.9)	174 (19.3)	44 (4.9)

Table 5.3: Signs recognised by health workers regarding diarrhoea

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Figures in parenthesis are the percentages Note: Percentages are calculated on the basis of col.3

5.3 Knowledge about signs to assess the dehydrated children

The health workers are expected to know at least 8 out of 12 signs to assess dehydration. Table 5.4 shows the distribution of health workers having knowledge of 8 or more signs. It is evident from the Table that the percentage of health workers with requisite knowledge of 8 or more signs to assess the dehydration is rather low in almost all the States except Tamil Nadu where it is about 50 per cent. It is as low as 2 per cent in Rajasthan.

S.No. State		No. of health workers	Recognised eight or more signs	• Recognised less than eight signs
1	2	3	4	5
1	Haryana	57	7	50
	•		(12.3)	(87.7)
2	Maharashtra	107	12	. 95
			(11.2)	(88.8)
3	Orissa	47	12	35
			(25.5)	(74.5)
4	Rajasthan	102	2	100
	·		(2.0)	(98.0)
5	Tamil Nadu	253	123	130
			(48.6)	(51.4)
6	Uttar Pradesh	336	82	254
			(24.4)	(75,6)
	Total	902	238	664
			(26.4)	(73.6)

Table 5.4: Recognising eight or more signs of dehydration

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Figures in parenthesis are the percentages

Table 5.5 shows statewise distribution of health workers on all the 12 signs for assessing the dehydration of children.

Table 5.5: Signs recognised by health workers regarding diarrhoea with some dehydration

S.Ne	o. State	No. of health worken:	No. of stools per day	uat of vomi- ting	Thirst (ls child demand ding water requent	or no urine	Child drowsy/ list- less				Rapid brea- thing	Skin pinch goes	pulse	Fonta- nelle sunken
 1	2.	3	4	5	6	7	8	9	10	11	12	13	14	15
1.	Нагузра	57	44 (72.2)	14 (24.6)	28 (49.1)	9 (15.8)	25 (43.9)	9 (15.8)	52 (91.2)	49 (86.0)	10 (17.5)	48 (84.2)	17 (29.8)	12 (21.1)
2.	Maharashtra	107	80 (74.8)	57 (5 3.3)	43 (40.2)	17 (15.9)	54 (50.5)	6 (5.6)	88 (82-2)	50 (46.7)	23 (21 <i>-</i> 5)	97 (90.7)	26 (24.3)	49 (45.8)
3.	Orissa	47	38 (80.9)	29 (61.7)	21 (44.7)	26 (55.3)	21 (44.7)	5 (10.6)	33 (70.2)	43 (91.5)	8 (17.0)	34 (72.3)	9 (19.1)	15 (31.9)
4.	Rajasthan	102	80 (78.4)	28 (27.5)	52 (51.0)	6 (5.9)	54 (52.9)	16 (15.7)	71 (69.6)	48 (47.1)	5 (4.9)	79 (775)	15 (14.7)	11 (10.8)
5.	Tamil Nadu	253	241 (95.3)	172 (68.0)	116 (45.8)	145 (57.3)	147 (58.1)	56 (22.1)	243 (96.0)	192 (75.9)	38 (15.0)	231 (91.3)	133 (52.6)	173 (68.4)
 6.	Uttar Pradest	h 336	285 (84.8)	184 (54.8)	197 (58.6)	104 (31.0)	214 (63.7)	33 (9.8)	284 (84.5)	237 (70.5)	51 (15.2)	251 (74.7)	95 (28.3)	111 (33.0)
	Total :	902	768 (85.1)	48 4 (53.7)	457 (50.7)	307 (34.0)	515 (57.1)	125 (13.9)	771 (85.5)	619 (68.6)	135 (15.0)	740 (82.0)	295 (32.7)	371 (41.1)

Figures in parenthesis are the percentages

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Note: Percentages are calculated on the basis of Col.3.

5.4 Advising mothers/caretakers about diarrhoea without dehydration

Table 5.6 shows that more than 66 per cent of the health workers give advice to mothers/ caretakers regarding ORT except in Rajasthan where it is comparatively low, i.e., 48 per cent. About 71 per cent say that home fluids should be given more frequently to the children with diarrhoea. More than 57 per cent mention about the diet to be given to children with diarrhoea, i.e., the type of food and the feeding should be continued during diarrhoea, except in Maharashtra and Orissa where the percentage of such health workers is about 40. About 40 per cent of the health workers also advise the mothers regarding prevention of diarrhoea. The percentage of health workers who advise to give extra food to the children after the diarrhoea stops is very low (9.6 per cent). There are only 19 per cent of workers who mention that the mothers/caretakers should bring the children to health facility if they notice any sign of dehydration among their children.

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Table 5.6: Advice given to mothers/caretakers for children having diarrhoea

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S.N	o. State	No. of health work ers	Advice on ORT	Advice on home fluids (increase amount, frequen- cy, type of fluids)	Advice on diet (con- tinue fee- ding,type of food)	Advice to give extra food after diarrhoea stops	Continue breast feeding	Advice on pro per wea- ning pra ctices	Advice on when to bring child (signs of dehydra- tion)	Advice how to prevent diarrhoea (hygiene, clean food clean water disposal of stools
1	2	3	4	5	6	7	8	9	10	11
1.	Haryana	57	44 (77.2)	45 (78.9)	33 (57.9)	2 (3.5)	35 (61.4)	29 (50.9)	1 (1.8)	10 (17.5)
2.	Mahara- shtra	107	85 (79.4)	62 (57.9)	43 (40.2)	2 (1.9)	46 (43.0)	9 (8.4)	15 (14.0)	44 (41.1)
3.	Orissa	47	42 (89.4)	39 (83.0)	19 (40.4)	2 (4.3)	16 (31.9)	2 (4.3)	15 (31.9)	12 (25.5)
4.	Rajas- than	102	49 (48.0)	43 (42.2)	64 (62.7)	6 (5.9)	34 (33.3)	15 (14.7)	2 (2.0)	14 (13.7)
5.	Tamil Nadu	253	185 (73.1)	214 (84.6)	167 (66.0)	65 (25.7)	180 (72.1)	17 (6.7)	132 (52.2)	151 (59.7)
6.	Uttar Pradesh	336	222 (60.1)	239 (71.1)	193 (57.4)	10 (3.0)	_170 (50.6)	96 (28.6)	6 (1.8)	129 (38.4)
	Total :	902	627 (69.5)	642 (71.2)	519 (57.5)	87 (9.6)	481 (53.3)	168 (18.6)	171 (19.0)	360 (39.9)

Figures in parenthesis are the percentages Note: Percentages are calculated on the basis of col.3.

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5.5 Knowledge about treatment of children with diarrhoea having some dehydration

Most of the health workers in all the States except in Tamil Nadu mention that they give ORS packets to mothers/caretakers who come to them with children having some dehydration (Table 5.7). It is interesting to note that in Tamil Nadu 60.9 per cent of the health workers detain the children at least for one hour for ORT whereas this practice is not so prevalent in other States. Only 12.5 per cent of the health workers refer such cases to other health facilities and about 2 per cent give medicines on their own.

Table 5.7: Treatment of children with diarrhoea having some dehydration

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12	No. State	No. of health worker	Send home s with ORS	Detain at least for one hour	Refer	Admit	Hygenic food& water should be given	Sugar & Salt Solu- tion	Medicine be given	
1	2	3	4	5	6	7	8	9	10	11
1.	Нагуапа	57	52 (91.2)	1 (1.8)	2 (3.5)	2 (3.5)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
2.	Mahara shtra	107	77 (72.0)	10 (9.3)	1 (0.9)	0 (0.0)	0 (0.0)	6 (5.6)	13 (12.1)	0 (0.0)
3.	Orissa	47	33 (70.2)	11 (23.4)	3 (6.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
4.	Rajas- than	102	80 (78.4) -	1 (1.0)	14 (13.7)	0 (0.0)	0 (0.0)	5 (4.9)	1 (1.0)	1 (1.0)
5.	Tamil Nadu	253	53 (20.9)	154 (60.9)	25 (9.9)	20 (7.9)	0 (0.0)	1 (0.4)	0 (0.0)	0 (0.0)
6.	Uttar Pradesh	336	197 (58.6)	27 (8.0)	68 (20.2)	23 (6.8)	2 (0.6)	16 (4.8)	3 (0.9)	0 (0.0)
	Total :	902	492 (54.5)	204 (22.6)	113 (12.5)	45 (5.0)	2 (0.2)	28 (3.1)	17 (1.9)	1 (0.1)

Figures in parenthesis are the percentages Note: Percentages are calculated on the basis of col.3.

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5.6 Knowledge about treating children with severe dehydration

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Over 3/4th of the health workers refer the severely dehydrated cases to PHCs or other health facilities (Table 5.8). About 60 per cent of them refer the cases with ORT in transit. Only about 25 per cent admit such cases for Intra-venous (IV).

Table 5.8: Treatment of children with diarrhoea having severe dehydration

1.2	No. State	No. of health workers	Admit for L.V. and ORT	Admit for I.V. only	Refer with I.V. in transit	Refer with ORT in transit	Refer without I.V. or ORT in transit	Refer to PHC with SSS in transit
1	2	3	4	5	6	7	8	9
1.	Haryana	57	10 (17.5)	4 (7.0)	1 (1.8)	34 (59.6)	8 (14.0)	0 (0.0)
2.	Maharash- tra	107	19 (17.8)	16 (15.0)	5 (4.7)	55 (51.4)	6 (5.6)	6 (5.6)
3.	Orissa	47	17 (36.2)	. 2 (4.3)	0 (0.0)	25 (53.2)	3 (6.4)	(0.0)
4.	Rajasthan	102	26 (25.5)	6 (5.9)	2 (2.0)	45 (44.1)	17 (16.7)	6 (5.9)
5.	Tamil Nadu	253	43 (17.0)	28 (11.1)	23 (9.1)	135 (53.4)	24 (9.5)	0 (0.0)
6.	Uttar Pradesh	336	22 (6.5)	27 (8.0)	13 (3.9)	220 (65.5)	35 (10.4)	19 (5.7)
<u></u>	Total :	902	137 (15.2)	83 (9.2)	44 (4.9)	514 (57.0)	93 (10.3)	31 (3.4)

Figures in parenthesis are the percentages Note: Percentages are calculated on the basis of col. 3.

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5.7 Estimation of ORS solution requirement

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Health workers are supposed to know the correct quantity of ORS solution to be given to diarrhoeal patients. But it is disheartening to note from Table 5.9 that only 50 per cent of the health workers know the correct quantity of ORS solution to be given. About 13 per cent health workers do not know at all about correct quantity of ORS solution requirement. This percentage is as high as 59 in Haryana followed by Uttar Pradesh (56%), Rajasthan (53%) and Maharashtra (51.4%).

S.No.	State	No. of health workers	Correct Response	Incorrect Response	No Response
1.	Haryana	57	34 (59.6)	13 (22.8)	10 (17.6)
2.	Maharashtra	1 07	55 (51.4)	38 (35.5)	14 (13.1)
3.	Orissa	47	20 (42.6)	23 (48.9)	4 (8.5)
4.	Rajasthan	102	54 (53.0)	30 (29.4)	18 (17.6)
5.	Tamil Nadu	253	106 (41.9)	97 (38.3)	50 (19.8)
6.	Uttar Pradesh	3 36	188 (56.0)	123 (36.6)	25 (7.4)
	Total :	902	457 (50.7)	324 (35.9)	121 (13.4)

Table 5.9: Estimation of ORS solution requirements

Figures in parenthesis are the percentages

5.8 Estimation of IV fluids requirement

Table 5.10 shows that about 85 per cent of the health workers do not know the correct estimation of IV fluid requirements to be given to severely dehydrated children. As a matter of fact the health workers who had undergone the special training in the management of diarrhoea must know about IV fluid estimation as this is an essential part of their training courses.

Tab	Table 5.10: Estimation of IV fluids requirements											
S.No.	State	No. of health workers	Mentioned correctly	Not mentioned correctly	No Response							
1.	Haryana	57	4 (7.0)	7 (12.3)	46 (80.7)							
2.	Maharashtra	107	1 (0.9)	9 (8.4)	97 (90.7)							
3.	Orissa	47	10 (21.3)	12 (25.5)	25 (58.2)							
4.	Rajasthan	102	7 (6.9)	12 (11.7)	83 (81.4)							
5.	Tamil Nadu	253	23 (9.1)	38 (15.0)	192 (75.9)							
6.	Uttar Pradesh	336	5 (1.5)	11 (3.3)	320 (95.2)							
	Total :	902	50 (5.5)	89 (9.9)	763 (84.6)							

Figures in parenthesis are the percentages

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5.9 Knowledge about drugs to be given to diarrhoeal cases

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Only about 3/4th of the health workers seem to have given drugs to the diarrhoeal patients (Table 5.11).

S.N	o. State	No. of health workers	Drugs . Given	
1	2	3	4	
1.	Haryana	57	51 (89.5)	
2.	Maharashtra	107	94 (87.9)	
3.	Orissa	47	41 (87.2)	
4.	Rajasthan	102	90 (88.2)	
5.	Tamil Nadu	253	179 (70.8)	
6.	Uttar Pradesh	336	216 (64.3)	•
	Total :	902	671 (74.4)	

Table 5.11: Distribution of health workers who have given drugs to diarrhoeal patients

Figures in parenthesis are the percentages

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5.10 Knowledge about preparation of ORS solution

Health workers must know how to prepare ORS solution correctly because they are responsible to impart this knowledge to mothers/caretakers. Table 5.12 shows that only about 66 per cent of the health workers know how to prepare ORS solution correctly; 29 per cent incorrectly; whereas about 5 per cent do not know how to prepare ORS solution at all.

In Tamil Nadu over 84 per cent of the health workers know about the preparation of ORS solution correctly followed by Uttar Pradesh (67%) and Maharashtra (60%). It is seen from Table 5.13 that over 3/4th of the health workers can prepare ORS solution correctly out of the total 417 who received the special training in management of diarrhoea. On the other hand about 58 per cent can prepare correctly out of the total 485 who have not undergone the training. Hence, it is evident from the Table that the percentage of health workers who can prepare the ORS solution correctly is quite high from among those who have received special training in management of diarrhoea than from those who have not received the special training.

Tab	le 5.12: Health w	orkers know	ing how to prepa	re ORS Solution	
S.No.	State	No. of health work ers	Prepared Correctly	Prepared Incorrectly •	Don't know how to prepare
1	2	3	4	5	6
1	Нагуала	57	29 (50.8)	23 (40.4)	5 (8.8)
2	Maharashtra	107	64 (59.8)	43 (40.2)	0 (0.0)
3	Orissa	47	19 (40.4)	28 (59.6)	0 (0.0)
4	Rajasthan	102	47 (46.1)	50 (49.0)	5 (4.9)
5	Tamil Nadu	253	213 (84.2)	25 (9.9)	15 (5.9)
6	Uttar Pradesh	336	224 (66.7)	94 (28.0)	18 (5.3)
	Total :	902	596 (66.1)	263 (29.1)	43 (4.8)

Figures in parenthesis are the percentages

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Table 5.13:	Distribution of health workers by correct preparation of ORS and special
	training in management of diarrhoea

C N1-				Special Trai	ning -	
S.No	State	No. of health	Rece	lived	Did not Re	ceive
		workers	Prepared Correctly	Prepared Incorrectly	Prepared Correctly	Prepared Incorrectly
1	2	3	4	5	6	7
1.	Нагуапа	57	14 (24.6)	9 (15.8)	15 (26.3)	19 (33.3)
2.	Maharastra	107	27 (25.2)	17 (15.9)	37 (34.6)	26 (24.3)
3.	Orissa	47	12 (25.5)	14 (29.8)	7 (14.9)	14 (29.8)
4.	Rajasthan	102	5 (4.9)	0 (0.0)	42 (41.2)	55 (53.9)
5.	Tamil Nadu	253	114 (45.1)	16 (6.3)	99 (39.1)	24 (9.5)
6.	Uttar Pradesh	336	142 (42.3)	47 (14.0)	82 (24.4)	65 (19.3)
	Total :	902	314 (34.8)	103 (11.4)	282 (31.3)	203 (22.5)

Figures in parenthesis are the percentages.

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5.11 Knowledge regarding the correct advice about feeding children during diarrhoea

Most of the health workers advise the mothers/caretakers that breast feeding should be continued as usual to the children during diarrhoea (Table 5.14). Only in Maharashtra about 26 per cent are of the opinion that breast-feeding should be increased followed by Haryana (19.3 per cent) whereas in Orissa no health worker advises about the increase in breast feeding.

(56)

Table 5.14 shows that 49 per cent advise that the quantity of other fluids should be increased during diarrhoea. The percentage of such health workers in Tamil Nadu is about 67 whereas in Orissa it is only 4.3 per cent. As far as solid food is concerned only 43.3 per cent are of the opinion that this should be continued as usual.

Less than 50 per cent of the health workers are of the opinion that bottle-feeding should be stopped. More attention should be given to the bottle feeding because it should be stopped absolutely during diarrhoea. The children who were taking milk with bottle before diarrhoea should be given milk with cup and spoon during diarrhoea. Although all the health workers are expected to know that breast feeding and other fluids should be increased during diarrhoea but it is not found so. Therefore, this is a matter of great concern.

Table 5.14: Advice given to mothers regarding feeding children under 5 years during diarrhoea

S. State No.	No. of health		Brea	st Feedi	ng		Bottle]	Feeding			Other F	uids			Solid	Feeds	
	worker	-	Decre- ase	Conti- nut as usual	Incre- ase	Step	Decre- ase	Conti- nue as usual	Incre- ase	Stop	Decre- ase	Conti- nue as usual	Incre- ase	Stop	Decre- ase	Conti- nue as usual	Incre- ase
1 2	3	4	5	6	7	*	,	10	11	. 12	13	14	15	16	17	18	19
1. Haryana	57	1 (1.8)	0 (0.0)	45 (78.9)	11 (19.3)	32 (56.1)	9 (15.8)	15 (26.3)	1 (1.8)	0 (0.0)	2 (3.5)	31 (54.4)	24 (42.1)	8 (14.0)	9 (15.8)	35 (61 <i>.</i> 4)	5 (8.8)
2. Mahara shtra	107	5 (4.7)	1 (0.9)	73 (68.2)	28 (26.2)	29 (27.1)	13 (12-1)	49 (45.8)	16 (15.0)	3 (2.8)	5 (4.7)	48 (44.9)	51 (47.7)	23 (21.5)	31 (29.0)	38 (35.5)	15 (14.0)
3. Orissa	47	12 (25.5)	5 (10.6)	30 (63.8)	0 (0.0)	25 (53. 2)	4 (85)	18 (3 8.3)	0 (0.0)	4 (8.5)	8 (17.0)	.33 (70.2),	2 . (43)	32 . (68.1)	6 (12.8)	9 (19.1)	0 (0.0)
4. Rajasthi		11 (10.8)	18 (17.6)	58 (56.9)	15 (14.7)	51 (59.0)	41 (40.2)	7 (6.9)	3 (2.9)	3 (2.9)	16 (15.7)	46 (45.1)	37 (36.3)	11 (10.8)	34 (33.3)	47 (46.1)	10 (9.8)
5. Tamil Nadu	253	و (35)	7 (2.8)	215 (85.0)	22 (8.7)	156 (Q.7)	15 (5.9)	72 (28.5)	10 (4.0)	3 (12)	10 (4.0)	70 (27.7)	170 (67.2)	77 (30.4)	18 (7.1)	146 (57.7)	12 (4.7)
6. Uttar Pradesh	336	29 (8.6)	70 (20.8)	204 (60.7)	33 (9.8)	141 (42.0)	98 (29.2)	66 (19.6)	31 (9.2)	8 (2.4)	55 (16.4)	115 (34 <i>.</i> 2)	158 (47.0)	72 (21.4)	127 (37.8)	115 (34.2)	22 (6.5)
7. Total:	902	67 (7.4)	101 (11.2)		109 (12.1)	434 (41.1)	180 (20.0)	227 (25.1)	61 (6.8)	21 (2.3)	96 (10.7)	343 (38.0)	442- (49.0)	223 (24.7)	225 (24.9)	390 (43.3)	64 (7.1)

Figures in parenthesis are the percentages.

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Note: Percentages are calculated on the basis of Col.3.

5.12 Knowledge regarding the correct advice about feeding children after diarrhoea

More than 3/4th of the health workers are of the opinion that breast feeding after diarrhoea should be continued as usual whereas only 17.8 per cent are of the opinion that breast feeding should be increased.

As far as bottle feeding is concerned, 67.4 per cent are of the view that it should be continued as usual. Around 70 per cent opine that other fluids should also be given to children as usual after diarrhoea.

As far as solid food is concerned, 23.1 per cent of the health workers are of the opinion that this should be increased after diarrhoea whereas more than 60 per cent are of the view that it should be given to the children as usual.

Table 5.15:	Advice given to mothers/caretakers regarding feeding children under 5
,	years after diarrhoea

S. No	State	No. of health	<u> </u>	Brea	st Feedi	ng		Bottle	Feeding			Other Fl	uids			Solid	Feeds	
		workers		Decre- ase	Conti- nue as usual	Incre- ase	Stop	Decre-	Conti- nue as usual	Incre- ase	Stop	Decre- ase	Conti- nue as usual	Incre- ase	Stop	Decre- ase	Conti- nue as usual	Incre- ase
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1.	Haryana	57	4 (7.0)	50 (87.7)	3 (5.3)	0 (0.0)	20 (35.1)	33 (57.8)	4 (7.0)	0 (0.0)	4 (7.0)	51 (89.5)	2 (3.5)	0 (0.0)	3 (5.3)	50 (87.7)	4	0 (0.0)
2.	Maharash	tra 107	2 (1.9)	74 (69.2)	29 (27.1)	2 (1.9)	13 (12.1)	(61.7)	66 (24.3)	26 (1.9)	(7.5)	28	57 (38.3)	41 (0.9)	11 (13.1)	4 6 (57.9)	2 2 (27.1)	92 (1.9)
3. 1	Orissa	47	3 (6.4)	41 (87.2)	3 (6.4)	`Ó (0.0)) 10 (21.3)	34	3 (64)	0 (0.0)	0 (0.0)	44 (93.6)	3 (6.4)	0 (0.0)	8 (17.0)	36 (76.6)	3 (6.4)	0 (0.0)
4.	Rajasthan		4 (3.9)	75 (735)	23 (22.5)	(0.0)	22 (21.6)	් 65 (63.7)	14 (13.7)	i (1.0)	16 (15.7)	72	· 14 (13.7)	0 (0.0)	12 (11.8)	68 (66.7)	22 (21.6)	0 (0.0)
	Tamil Nadu	253	1 (0.4)	200 (79.1)	52 (20.6)	0 (0.0)	20 (7.9)	194 (76.7)	31 (12.3)	8 (3.1)	4 (1.6)	182 (71.9)	67 (26.5)	0 (0.0)	26 (10.3)	144 (56.9)	83 (32.8)	0 (0.0)
	Uttar Pradesh	336	29 (8.6)	256 (76.2)	51 (15-2)	0 (0.0)	72 (21.4)	216 (64.3)	45 (13.4)	3 (0.9)	54 (16.1)	226 (67.3)	55 (16.4)	1 (0.3)	71 (21.1)	197 (58.6)	67 (19.9)	1 (0.3)
7.	Total :	902	43 (4.8)	696 (77.2)	161 (17.8)	2	157 (17.4)	608 (67.4)	123 (13:6)	14 (1.5)	86 (95)	632 (70.1)	182 (20.2)	2 (0.2)	134 (14.9)	557 (61.8)	208 (23.1)	- 3 (0.3)

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Note: Percentages are calculated on the basis of Col.3.

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The following conclusions can be drawn from the data presented in this chapter :

- i) The knowledge of health workers regarding the signs to assess the diarrhoeal patients, especially in the case of dehydrated children, is low in almost all the States and the lowest in Rajasthan, i.e., hardly 2 per cent.
- ii) Only about 40 per cent of the health workers advise mothers/caretakers how to prevent diarrhoea.
- iii) The knowledge about the correct preparation of ORS solution is low among the health workers, especially in Orissa (40.4%) and Rajasthan (46.1%).
- iv) The knowledge about the correct quantity of ORS solution requirement is also low among the health workers in all the States especially in Rajasthan and Orissa (about 42 per cent).
- v) More than 50 per cent of the health workers do not advise mothers/caretakers to stop bottle-feeding during diarrhoea. i.e., they do not advise mothers/caretakers to give milk to children with cup and spoon during diarrhoea in case of those children who were bottlefed before diarrhoea.
- vi) Only a small percentage (12 per cent) of health workers advise mothers to increase breast feeding during diarrhoea.
- vii) Less than 50 per cent of the health workers advise mothers/caretakers to increase other fluids during diarrhoea. There are only 4.3 per cent of such health workers in Rajasthan.
- viii) Only a small fraction of health workers advise mothers/caretakers to increase solid foods after the diarrhoea stops.

Recommendations

The observations made above reveal that the knowledge of the health workers about ORT is not satisfactory in almost all the six States under study. It may be pointed out that one-time training in management of diarrhoea is not sufficient at all. Such training should be repeated to the extent possible. The agencies/persons responsible for imparting training in management of diarrhoea should have follow-up programmes to ensure retention and application of knowledge by the health workers. However, the States found deficient in the areas listed above require special attention.

CHAPTER 6

MEDICAL OFFICERS' KNOWLEDGE OF ORT

6.1 Training in management of diarrhoea

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In order to assess the knowledge of ORT among medical officers, 406 medical officers representing Primary Health Centres, Dispensaries, District Hospitals and Medical Colleges were interviewed. Their statewise distribution is given in Table 6.1. This Table also shows the data regarding special training for management of diarrhoea received by them. Maharashtra has about 44 per cent of medical officers who have received the special training while Tamil Nadu has 38 per cent such medical officers. In Rajasthan more than 90 per cent medical officers have not received any special training in management of diarrhoea.

S.No.	State	No. of medical officers	Received training	
1.	Haryana	62	18	·
2. ·	Maharashtra	27	(29.0) 12 (44.4)	
3.	Orissa	33	(44.4) 7 (21.2)	
4.	Rajasthan	21	(21.2) 2 (9.5)	
5.	Tamil Nadu	111	(37.8)	
6.	Uttar Pradesh	152	(37.8) 49 (32.2)	
	Total :	406	130 (32.0)	u

Table 6.1: Medical officers who received special training in management of diarrhoea

Figures in parenthesis are the percentages

6.2 Knowledge about signs to assess the diarrhoeal patients

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Table 6.2 shows that about 3/4th of the medical officers were aware of eight or more signs to assess the diarrhoeal patients. The percentage of such medical officers is about 87 in Tamil Nadu followed by Maharashtra (81.5%). Table 6.3 gives the distribution of the medical officers indicating knowledge of different signs to assess the diarrhoeal patients. About 90 per cent of the medical officers also mention that they take temperature of the children at the time of assessing the diarrhoeal cases (Table 6.4). About 37 per cent of the medical officers say that they weigh the children, if possible, and about 20 per cent report that measles/immunization status is also ascertained at the time of assessing the diarrhoeal cases.

S.No.	State	No. of medical officers	Recognised eight or more signs	Recognised less than eight signs
1.	Нагуапа	62	42	20
	-		(67.7)	(32.3)
2.	Maharashtra	27	22	5
			(81.5)	(4.9)
3.	Orissa	33	26	7
			(78.8)	(21.2)
4.	Rajasthan	21	15	6
	,		(71.4)	(28.6)
5.	Tamil Nadu	111	96	15
			(86.5)	(13.5)
6.	Uttar Pradesh	152	103	49
			(67.8)	(32.2)
	Total :	406	304	102
			(74.9)	(25.1)

Table 6.2: Medical officers recognising eight or more signs of diarrhoea illness

Figures in parenthesis are the percentages

S.No.	State	No of medical officers	Diarr- hoen stools/ day	Vomi- ting	Thirst	Urine	Condi- tion of child	Skin pinch	Sunk- en eyes	gue/	Tears abse- nt/ present	Pulse rate	Fonta- nelle sunken (ln infants)	ratory rate
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Haryana	62	62 (100. 0)	42 (67.7)	4 (65)	14 (22.6)	42 (67.7)	60 (96.8)	58 (93.5)	56 (90.3)	2 (3.2)	40 (64.5)	40 (14.2)	2 (3.2)
2	Maharashtra	27	26 (96.3)	21 (77.8)	8 (29.7)	17 (63.0)	20 (74.1)	25 (92.6)	22 (81 <i>.</i> 5)	22 (81.5)	8 (29.6)	22 (81.5)		11 (40.7)
3	Orissa	33	31 (94.0)	31 (94.0)	12 (36.4)	27 (81.8)	20 (60.6)	28 (84.8)	31 (93.9)	31 (93.9)	2 (6.1)	22 (66.7)	24 (72.7)	11 (33.3)
4	Rajasthan	21	21 (100. 0)	10 (47.6)	5 (23.8)	6 (28.6)	17 (80.9)	17 (80.9)	19 (90.5)	13 (61.9)	3 (14.3)	10 (47.6)	18 (85.7)	2 (9.5)
5	Tamil Nadu	111	111 (100 .0)	103 (92.8)	42 (37.8)	82 (73.9)	86 (775)	109 (98.2)	102 (91.9)	98 (88.3)	58 (52_3)	75 (67.6)	92 (82.9)	41 (36.9)
6	Uttar Pradesh	152	150 (98.7)	107 (70.4)	57 (37.5)	90 (59.2)	109 (71.7)		137 (90.1)	132 (86.8)	7 (4.6)	98 (64.5)	90 (59.2)	52 (34.2)
	Total :	406	401 (98.8)	314 (77.3)	128 (31ے)	236 (58.9)	294 (72.4)	381 (93.8)	369 (90.9)	352 (86.7)	80 (19.7)	267 (65.8)	282 (69_5)	119 (29.3)

Table 6.3: Signs and symptoms for assessment of patients of diarrhoea by medical officers

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Figures in parenthesis are the percentages Note : Percentages are calculated on the basis of Col.3.

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S. No.	State ,	No. of medical officers	Take tempera- ture	Weight if possible	Check measles/ immunization status
1	2	3	4	5	6
1.	Haryana	62	62 (100.0)	20 (32.3)	6 (9.7)
2.	Maharashtra	27	20 (74.1)	8 (29.6)	8 (29.6)
3.	Orissa	33	18 (54.5)	14 (42.4)	4 (12.1)
4.	Rajasthan	21	15 (71.4)	6 (28.6)	3 (14.3)
5.	Tamil Nadu	111	90 (81.1)	62 (55.9)	- 38 (34.2)
6.	Uttar Pradesh	152	119 (78.3)	41 (27.0)	20 (13.2)
-	Total :	406	324 (79.8)	151 (37.2)	79 (19.4)

 Table 6.4: Assessment of patients with diarrhoea by medical officers: additional measures mentioned by doctors

Figures in parenthesis are the percentages

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6.3 Knowledge about preparation of ORS solution

Table 6.5 shows that about 62 per cent of the medical officers know how to prepare ORS solution correctly. While over 80 per cent in Tamil Nadu know how to prepare ORS solution correctly, the percentages of such medical officers are 77.4 and 71.4 in Haryana and Rajasthan respectively. It is only in Maharashtra and Uttar Pradesh where less than 50 per cent of medical officers possess this knowledge whereas in Orissa such cases are about 58 per cent. As the medical officers are also the facilitators for training the paramedical staff under them or located in their area, it is expected that all the medical officers should possess the correct knowledge of preparation of ORS solution.

S.No. No. of State Клож medical officers correctly 1 2 3 4 1. 48 62 Haryana. (77.4) 2. Maharashtra 27 12 (44.4) 3. Orissa 33 19 (57.6) 21 4. Rajasthan 15 (71.4) 5. Tamil Nadu 111 89 (80.2) 6. Uttar Pradesh 152 69 (45.4)

Table 6.5: Distribution of medical officers knowing how to prepare ORS solution

Figures in parenthesis are the percentages

Total:

6.4 Knowledge about ORS ingredients

Table 6.6 shows that over 80 per cent of the medical officers know about all the four ingredients of ORS, i.e., Glucose, Sodium, Potassium, and Bicarbonate/Citrate. This high percentage of correct knowledge may be attributed to the fact that they mostly use one brand of ORS, i.e., government ORS based on the WHO formula having all the above mentioned four ingredients. Moreover, the description of the ingredients is also printed on the ORS packets. Conversly it could be also their theoretical knowledge of ORS based on WHO formula.

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S.No.	State	No. of medical officers	Knowledge of all four in- gredients	Knowledge of less than four ingredients
1	2	3	4	. 5
1	Haryana ·	62	58	4
			(93.5)	(6.5)
2	Maharashtra	27	21	6
			(77.8)	(22.2)
3	Orissa	33	21	12
			(63.6)	(36.4)
4	Rajasthan	21	19	2
			(90.5)	(9.5)
5	Tamil Nadu	111	81	30
			(73.0)	(27.0)
6	Uttar	152	127	25
	Pradesh		(83.6)	(16.4)
	Total:	406	327	79
	,		(80.5)	(19.5)

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6.5 Estimation of ORS solution requirement

About 56 per cent of the medical officers are able to specify correct quantity of ORS solution required by the children with diarrhoea (Table 6.7). This percentage is quite low (28.6%) in Rajasthan as compared to other five States where it is around 50 per cent and above.

lo.	State	No. of medical officers	Mentioned correctly	Not mentioned correctly	
1	2	3	4	5	
1. H	laryana	62	32 (51.6)	30 (48.4)	
2. 1	Maharashtra	27	19 (70.4)	8 (29.6)	
3. (Drissa	33	16 (48.5)	17 (51.5)	
4. I	Rajasthan ·	21	6 (28.6)	(71.4)	
5. I	famil Nadu	111	(20.0) 53 (47.7)	(52.3)	
6. U	Jttar Pradesh	152	100 (65.8)	(32.3) 52 (34.2)	

Figures in parenthesis are the percentages

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6.6 Estimation of IV fluid requirement

The knowledge about estimation of IV fluid required by severely dehydrated children is very low among medical officers. Table 6.8 shows that in Rajasthan none of the medical officers knows about correct quantity of IV fluid required by the severely dehydrated children. In Haryana it is only 6.4 per cent whereas it is over 40 per cent in Maharashtra and Orissa. This is a matter of great concern because on account of severe dehydration the children generally become so weak that they are not able to take anything. It is, therefore, in such cases that the drip of IV fluid becomes essential. But given the level of knowledge of the medical officers, the chances of IV fluid given to such children is very low.

(66)

S.No.	State	No. of medical officers	Correct knowledge about quantity of IV fluid	Incorrect knowledge about quantity of IV fluid	Don't know
1	2	3	4	5	6
1.	Haryana	62	4 (6.4)	44 (71.0)	14 (22.6)
2.	Mahazashtra	27	12 (44.5)	10 (37.0)	5 (18.5)
3.	Orissa	33	14 (42.4)	14 (42.4)	5 (15.2)
4.	Rajasthan	21	0 (0.0)	20 (95.2)	1 (4.8)
5.	Tamil Nadu	111	38 (34.2)	48 (43.3)	25 (22.5)
6.	Uttar Pradesh	152	43 (28.3)	. 99 (65.1)	10 (6.6)
· · · ·	Total	406	111 (27.3)	235 (57.9)	60 (14.8)

Table 6.8: Estimation of IV fluid requirment

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Figures in parenthesis are the percentages

6.7 Knowledge regarding the correct advice about feeding during diarrhoea

Table 6.9 shows the type of advice given by medical officers to mothers/caretakers regarding feeding their children during diarrhoea. Eighty six per cent of the medical officers mention that breast feeding should be continued as usual during diarrhoea. About 60 per cent are of the opinion that quantity of other fluids should also be increased during diarrhoea. More than 55 per cent mention that the solid foods should be given as usual. In respect of bottle

feeding, 49 per cent are of the opinion that bottle feeding should be stopped whereas about 37 per cent are of the view that bottle feeding should be continued as usual during diarrhoea.

In Tamil Nadu, the percentage of medical officers who are of the opinion that other fluids should be increased during diarrhoea is quite high (88.3%). The percentage of such doctors is about 67 in Uttar Pradesh whereas in Orissa no medical officer says that the quantity of other fluids should be increased during diarrhoea.

Table 6.9: Type of advice given to mothers/caretakers regarding feeding during diarrhoea

S. No	State).	No. of health		Brea	st Foedi	ng		Bottle	Feeding			Other Fl	uids			Solid	Feeds	
		workers		Decre- ase	Conti- nue as usual	Incre- ase	Stop	Decre- ase	Conti- nue as usual	Incre- ase	Stop	Decre- ase	Conti- nue as usual	Incre- ase	Stop	Decre- ase	Conti- nue as usual	Incre ase
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1.	Haryana	62	0 (0.0)	4 (6.5)	58 (93_5)	0 (0.0)	32 (51.6)	10 (16.1)	20 (32.3)	0 (0.0)	0 (0.0)	0 (0.0)	34 (54.8)	28 (45-2)	0 (0.0)	4 (<u>6.5</u>)	32 (51.6)	26 (41.9)
	Mahara- shtra	27	0 (0.0)	2 (7.4)	19 (70.4)	6 (22.2)	11 (40.7)	3 (11.1)	10 (37.0)	3 (11.1)	0 (0.0)	1 (3.7)	14 (51.9)	12 (44.4)	7 (25.9)	-3 (11.1)	15 (55.6)	2 (7.4)
3.	Orissa	33	1 (3.0)	1 (3.0)	31 (93.9)	0 (0.0)	12 (36.4)	1 (3.0)	19 (57.6)	1 (3.0)	1 (3.0)	3 (9.1)	29 (87.9)	0 (0.0)	13 (39.4)	3 (9.1)	17 (51 <i>-</i> 5)	0 (0.0)
	Rajas- than	21	0 (0.0)	1 (4.8)	19 (90.5)	1 (4.8)	17 (81.0)	0 (0.0)	4 (19.0)	0 (0.0)	1 (4.8)	0 (0.0)	16 (76_2)	4 (19.0)	0 (0.0)	0 (0.0)	17 (81.0)	4 (19.0)
	Tamil Nadu	111	5 (4.5)	1 (0.9)		4 (3.6)	68 (61.3)	1 (0.9)	39 (35.1)	3 (2.7)	0 (0.0)	2 (1.8)	11 (9.9)	98 (88.3)	31 (27.9)	9 (8.1)	70 (63.1)	1 (0.9)
	Uttar Pradesh	152	7 (4.6)	9 (5.9)	121 (79.6)	15 (9.9)	59 (38.8)	19 (12.5)	60 (39.5)	14 (9.2)	0 (0.0)	9 (5.9)	41 (27.0)	102 (67.1)	25 (16.4)	41 (27.0)	74 (48.7)	12 (7.9)
7.	Total	406	13 (3.2)	18 (4.4)	349 (86.0)	26 (6.4)	199 (49.0)	34 (8.4)	1Š2 (37.4)	21 (5.2)	2 (0.5)	15 (3.7)	145 (35.7)	244 (60.1)	76 (18.7)	60 (14.8)	225 (55.4)	45 (11.1)

Figures in paranthesis are the percentages

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Note: Percentages are calculated on the basis of Col. 3.

6.8 Knowledge regarding correct advice about feeding after diarrhoea stops

Table 6.10 indicates that over 80 per cent of the medical officers are of the opinion that breast feeding, bottle feeding and other fluids should be continued as usual after diarrhoea stops. In the case of solid foods, over 3/4th of the medical officers are of the view that this should also be continued as usual after diarrhoea stops.

18	idle 6.10:	Type of advi stops	ice give	en to n	notne	rs/ca	iretak	ers re	gardi	ing ied	eaing	aller	qiarr	поса
S. No.	State	No. of medical	Br	east Fee	ding	Bo	ttle Feet	ðing	0	ther Flu	ids	s	olid Fee	ds
		officers	Decre- ase	Conti- nue as usual	Incre- ase	Decre- ase	Conti- nue as usual	Incre- ase	Decre- ase	Conti- nue as usual	Incre- ase	Decre- ase	Conti- nue as usual	Incre- ase
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1.	Haryana	62	0 (0.0)	62 (100.0)	0 (0.0)	0 (0.0)	62 (100.0)	0 (0.0)	0 (0.0)	56 (90.3)	6 (9.7)	0 (0.0)	52 (83.9)	10 (16.1)
2.	Maharashtra	27	1 (3.7)		3 (11.1)	5 (18 <i>.</i> 5)	19 (70.4)	3 (11.1)	3 (11.1)	16 (59.3)	8 (29.6)	2 (7.4)	17 (63.0)	8 (29.6)
3.	Orrisa	33	0 (0.0)	33 (100.0)	0 (0.0)	10 (30.3)		1 (3.0)	1 (3.0)	28 (84.8)	4 (12.1)	1 (3.0)	26 (78.8)	6 (18.2)
4.	Rajasthan	21	(0.0) 0	20 (95.2)	1 (4.8)	4 (19.0)	17 (81.0)	0 (0.0)	1 (4.8)	19 (90.5)	1 (4.8)	0 (0.0)	21 (100.0)	0 (0.0)
5.	Tamil Nadu	111	0 (0.0)	94 (84.7)	17 (15.3)	3 (2.7)	97 (87.4)	11 (9.9)	3 (2.7)	91 (82.0)	17 (15.3)	3 (2.7)	71 (64.0)	37 (33.3)
6.	Uttar Pradesh	152	5 (33)	142 (93.4)	5 (3.3)	18 (11.8)		8 (5.3)	22 (14 <i>5</i>)	122 (80.3)	8 (5.3)	18 (11.8)	125 (82.2)	9 (5.9)

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(5.9) (76.9) (17.2)

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Table 6 10. Т regarding feeding after diarrhoea

Figures in parenthesis are the percentages

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Note: percentages are calculated on the bases of Col.3.

6.9 Knowledge regarding advice about prevention of diarrhoea

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(9.8) (84.5)

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(7.6) (81.8) (10.8)

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Table 6.11 shows that more than 93 per cent of the medical officers advise the mothers/ caretakers that drinking water should be clean and it should be boiled before use. From 52.7 per cent to 73.6 per cent tell the mothers/caretakers that hands should be washed with soap after defaecation, food should always be kept covered, and kitchen should be kept clean. These precautions would help the mothers/caretakers in preventing diarrhoea, specially among children.

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Drinking S. State No. of Wash hand Wash hand Keep food Keep food **Use** latrine Immunize No. child for for defaecamedical (with Soap) (with Soap) water covered prepara--tion measels officers should be after defabefore tion area boiled/ clean ecation food preparation clean 9 1 2 3 4 5 6 7 8 10 58 42 0 1. Haryana 56 . 12 10 62 62 (93.5) (67.7) (19.4) (0.0)(100.0) (90.3) (16.1)15 9 0 3 3 2. Mahara-27 25 4 (11.1) (0.0) shtra (92.6) (14.8) (55.6) (33.3) (11.1)18 20 14 3. Orissa 33 30 6 6 1 (54.5) (18.1) (90.9)(18.2) (60.6) (42.4)(3.1) 4. Rajas-21 16 19 7 16 0 0 16 (90.5) (33.3) (76.2) (0.0) (0.0)than (76.2) (76.2)39. 99 98 101 5. Tamil 111 109 101 9 (35.1) Nadu (98.2) (89.2) (88.3) (91.0) (8.1) (91.0) 53 6. Uttar 152 136 89 120 71 8 5 (5.3) Pradesh (89.5) (58.6) (34.9) (79.0) (46.7) (3.3)406 378 270 261 299 214 56 Total: 28 (93.1) (64.3)(73.6) (13.8) (66.5)(52.7) (6.9)

Table 6.11: Type of advice give to mothers/caretakers regarding prevention of diarrhoea

Figures in parenthesis are the percentages Note : Percentages are calculated on the basis of Col.3

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6.10 Knowledge about management of diarrhoea at home

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About 55 per cent of the medical officers know about all the three essential aspects of home management of diarrhoea (Table 6.12). These three aspects are - giving more fluids, continuing solid foods/breast feeding (for infants) and seeking medical help in case of dehydration or in case of blood in stools. Tamil Nadu with 83.8 per cent ranks first as far as the knowledge regarding all the three aspects of home management of diarrhoea is concerned. Rajasthan ranks as the lowest with only 4.8 per cent. Such a low percentage of government doctors with knowledge of home management of diarrhoea presents a very poor state of affairs.

 Table 6.12: Case management of diarrhoea at home: percentage of medical officers giving correct advice

5.No	State	No. of medical officers	Mentioned all aspects	Mentioned few aspects	Did not mention any aspect	
1	2	3	4	5	6	
1	Haryana	62	48 (77.4)	14 (22.6)	0 (0.0)	-
2	Maharashtra	27	5 (18.5)	21 (77.8)	1 (3.7)	
3	Orissa	33	18 (54 <i>.</i> 5)	15 (45.5)	0 (0.0)	
4	Rajasthan	21	1 (4.8)	17 (80.9)	3 (14.3)	
5	Tamil Nadu	111	93 (83.8)	18 (16.2)	0 (0.0)	
6	Uttar Pradesh	152	59 (38.8)	91 (59.9)	2 (1.3)	
•	Total :	406	224 (55.2)	176 (43.3)	6 (1.5)	

Figures in parenthesis are the percentages.

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From the data presented in this chapter, the following observations are made:

- Sixty-eight per cent of the medical officers have not received the special training in management of diarrhoea. In Rajasthan only 9.5 per cent of the medical officers have received such special training.
- ii) The overall percentage of medical officers knowing about preparation of ORS solution correctly is about 62 whereas in Maharashtra and Uttar Pradesh it is less than 50 per cent.
- iii) The percentage of medical officers with correct knowledge about quantity of ORS solution requirement is quite low in Rajasthan (28.6 %) whereas average for all the six States is about 56 per cent.
- iv) The percentage of medical officers knowing about correct estimation of IV fluid requirement is very low. In Rajasthan no medical officer knows about the correct estimation of IV fluid requirement whereas in Haryana such percentage is only 6.4
- v) The knowledge about increasing breast feeding is low among the medical officers.
- vi) More than 50 per cent of the medical officers do not advise the mothers/caretakers to stop bottle feeding during diarrhoea, i.e., they do not advise the mothers/caretakers to give milk to those children with spoon and cup during diarrhoea who were taking milk with bottle before diarrhoea.
- vii) Not a single medical officer in Orissa gives advice to mothers/caretakers that other fluids should be given in more quantity to children during diarrhoea.
- viii) Only a small fraction of the medical officers in Rajasthan (5%) and in Maharashtra (19%) give advice regarding the home management of diarrhoea.

Recommendations

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The main responsibility lies with the medical officers in our country for solving the diarrhoeal problem. The observations made above indicate that the extent of knowledge about ORT among medical officers is grossly inadequate. Medical officers also play the role of facilitators for training the paramedical staff. Therefore, the level of knowledge of medical officers about ORT must be complete which is at present wanting among large percentage of medical officers. It is, therefore, recommended that the Ministry of Health and Family Welfare should emphasise in organising workshops and orientation courses to equip the medical officers with full knowledge of ORT. It will, in turn, enable them to impart required knowledge to their paramedical staff to tackle the diarrhoeal problem in a much better way. However, the States found deficient in this regard require special emphasis at the time of workshops or orientation courses.

CHAPTER 7

PRIVATE PRACTITIONERS' KNOWLEDGE OF ORT

A substantial percentage of rural and urban population go to private practitioners for treatment. If the private practitioners are motivated properly, they can definitely help in solving the diarrhoeal problem to a great extent.

In order to assess the contribution of private practitioners in tackling the problem of diarrhoeal cases 424 private practitioners were interviewed in six States. A battery of questions were asked to assess their knowledge in respect of handling different aspects of diarrhoeal disease.

It may be mentioned that the Indian Medical Association (IMA) has recognized the role of GPs (General Practitioners) and has started a special drive for giving orientation to private practitioners in the management of diarrhoea. The IMA has already given orientation to about 31,000 private practitioners. There is need to carry out a separate evaluation of the private practitioners already trained by IMA so that the impact of the orientation programme can be assessed.

7.1 Knowledge about signs to assess the diarrhoeal patients

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There are twelve major signs or symptoms through which the children under five years of age can be assessed for diarrhoea.

Table 7.1 indicates that the percentage of private practitioners is very low as far as recognition of atleast eight signs of diarrhoea is concerned. This Table also shows that the percentage of such private practitioners is about 3 in Haryana, Tamil Nadu and Uttar Pradesh. However, these percentages are 28 and 23 in Rajasthan and Maharashtra respectively. This low knowledge (9.4%) may be attributed to the fact that special training for management of diarrhoea might not have been given to the private practitioners as the same is being imparted to medical officers in government health facilities.

S.No.	State	No. of Private Practitioners	Recognised eight or more signs	Recognised less than eight signs
1.	Haryana	29	1 (3.4)	28 (96.6)
2.	Maharashtra	56	13 (23.2)	43 (76.8)
[·] 3.	Orissa	18	2 (11.1)	16 (88.9)
4.	Rajasthan	53	15 (28.3)	38 (71.7)
5.	Tamil Nadu	102	3 (2.9)	99 (97,1)
6.	Uttar Pradesh	166	6 (3.6)	160 (96.4)
	Total:	424	40 (9.4)	384 (90.6)

Table 7.1: Private practitioners recognising eight or more signs of diarrhoeal illness

Figures in parenthesis are the percentages

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Statewise percentages of private practitioners recognizing different signs of diarrhoea are given in Table 7.2. Over 80 per cent of the private practitioners recognise the signs like stools per day, skin pinch and sunken eyes. In addition to 12 major signs for assessing the diarrhoea of children below five, the private practitioners also look for other symptoms such as taking temperature of children, etc. The data regarding additional symptoms are presented in Table 7.3. Private practitioners from Maharashtra and Uttar Pradesh in some cases also get the stool examined.

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Table 7.2: Signs recognised by the private practitioners regarding diarrhoea

S. No.	State	No. of private practi- tioners	Steols per day		Thirst	Urine	Condi- tion of child		Sunk- en eyes	Ton-	Tears abse- nt/ present	Pulse rate	Fontan- elle sunken (In infants)	ratory rate
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	. Haryana	29	29 (100.0)	20 (69.0)	2 (6.9)	8 (27.6)	25 (86-2)	25 (86.2)	27 (93.1)	27 (93.1)	3 (10.3)	18 (62.1)	6 (20.7)	3 (10.3)
2	. Maharashtra	56	47 (83.9)	40 (71.4)	13 (23.2)	14 (25.0	17) (30.4)	46 (82.1)	41 (73.2)	30 (53.6)	4 (7.1)	23 (41.1)		3 (5.4)
3	. Orissa	18	18 (10 0.0)	10 (55.6)	9 (50.0)	10 (55.6)	10 (55.6)	10 (55.6)	13 (72.2)	14 (77.8)	1 (5.6)	10 (55.6)		6 (33.3)
4.	. Rajasthan	53	53 (100.0)	18 (34.0)	7 (13.2)	5 (9.4)	41 (77.4)	41 (77.4)	36 (67.9)	27 (50.9)	5 (9.4)	9 (17.0)	7 (13.2)	1 (1.9)
5	. Tamil Nadu	102	102 (100.0)	95 (93.1)	21 (20.6)	69 (67.6)	77 (75.5)	93 (91.2)	91 (89.2)	77 (75 <i>-</i> 5)	35 (34.3)	67 (65.7)		31 (30.4)
6	. Uttar Pradesh	166	166 (10 0.0)	111 (66.9)	62 (37.3)	64 (38.6)	114 (68.7)	134 (80.7)	138 (83.1)	127 (76.5)	1 (0.6)	97 (58.4)		51 (30.7)
	Total :	424	41 5 (97.9)	294 (69.3)	114 (26.9)	170 (40.1)	284 (67.0)	349 (82.3)	346 (81.6)	302 (71.2)	49 (11.6)	224 (52.8)	166 (39.2)	95 (22.4)

Figures in parenthesis are the percentages.

Note: Percentages are calculated on the basis of Col. 3.

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		ment	ioned by pri	ivate prac	unoners.				
<u></u> S.N	io. State	No. of private practit- ioners		Weigh if possi- ble	Check measles immuni- zation	Abdomen Examina- tion	Malnu-` trition	Stool Exami- nation	Drugs given or not
1	2	3	4	5	6	7	8	9	10
1.	Haryana	29	28 (96.6)	7 (24.1)	0 (0.0)	2 (6.9)	1 (3.4)	0 (0.0)	1 (3.4)
2.	Mahar- ashtra	56	53 (94.6)	42 (75.0)	25 (44.6)	4 (7.1)	0 (0.0)	11 (19.6)	9 (16.1)
3.	Orissa	18	15 (26.8)	6 (10.7)	0 (0.0)	3 (5.4)	. <u>4</u> (7.1)	4 (7.1)	0 (0.0)
4.	Rajastha	n 53	39 (73.6)	10 (18.9)	7 (13.2)	0 (0.0)	5 (9.4)	0 (0.0)	0 (0.0)
5.	Tamil Nadu	102	83 (81.4)	42 (41.2)	33 (32.4)	19 (18.6)	27 (26.5)	4 (3.9)	3 (2.9)
6.	Uttar Pradesh	166	158 (95.2)	22 (13.3)	14 (8.4)	46 (27.7)	45 (27.1)	44 (26.5)	7 (4.2)
	Total :	424	376 (88.7)	129 (30.4)	79 (18.6)	74 (17.5)	82 (19.3)	63 (14.9)	20 (4.7)

Table 7.3: Assessment of diarrhoea by private practitioners: additional measures mentioned by private practitioners

Figures in parenthesis are the percentages. Note: Percentages are calculated on the basis of Col. 3. (Some private practitioners have given more than one answer).

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7.2 Knowledge about treating children with diarrhoea having no dehydration

Table 7.4 indicates that most of the private practitioners (91%) use drugs for treating simple diarrhoeal cases. This is a matter of great concern because drugs are not normally given to children with simple diarrhoea. However, about 59 per cent and 44 per cent of the practitioners also recommend ORS and SSS respectively for simple diarrhoeal cases. In Tamil Nadu about 75 per cent of the practitioners are of the opinion that breast feeding should be continued durinng diarrhoea. In Haryana percentage of such practitioners is 62.1. Breast feeding during diarrhoea is not at all recommended by any practitioner in Rajasthan. It is rather a very serious problem, particularly because breast feeding needs to be actually increased in case of infants during diarrhoea.

S.No.	State	No. of private practit- ioners	ORS	SSS	Continue breast feeding (infants only)	Continue solid foods	Drugs
1	2	3	4	5	6	7	8
1.	Haryana	29	22 (75.7)	26 (89.7)	18 (62.1)	18 (62.1)	20 (69.0)
2.	Maharashtra	56	28 (50.0)	18 (32.1)	12 (21.4)	11 (19.6)	_54 (96.4)
3.	Orissa	18	12 (66.7)	10 (55.6)	7 (38.9)	3 (16.7)	18 (100.0)
4.	Rajasthan	53	15 (28.3)	0 (0.0)	0 (0.0)	0 (0.0)	53 (100.0)
5.	Tamil Nadu	10 2	67 (65.7)	71 (69.6)	76 (74.5)	34 (33.3)	82 (80.4)
6.	Uttar Pradesh	166	108 (65.1)	61 (36.7)	38 (22.9)	17 (10.2)	159 (95.8)
.**	Total :	424	252 (59.4)	186 (43.9)	151 (35.6)	83 (19.6)	386 (91.0)

Table 7.4: Treatment of children with diarrhoea (without dehydration)

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Figures in parenthesis are the percentages. Note: Percentages are calculated on the basis of Col. No.3.

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Most of the private practitioners recommend drugs for diarrhoeal children under 5 years of age having some dehydration (Table 7.5). Majority of the private practitioners are also of the opinion that ORS should be given to the children having some dehydration. The percentage of private practitioners recommending IV fluid is very low. Table 7.5 also indicates that the percentage of private practitioners in Tamil Nadu recommending 'continuation of breast feeding' during diarrhoea is quite high (76.5%). Advice to increase breast feeding is almost non-existent in all the States. They do not recommend breast feeding to continue in Rajasthan. This percentage is very low in Maharashtra and Uttar Pradesh.

S. No.		No. of private practit- ioners	ORS	SSS	Continue breast feeding (infants only)	Conti- nue solid foods	Drugs	No Treat- ment	IV fluid
1	2	3	4	5	6	7	8	9	10
1.	Haryana	29	26 (89.7)	22 (75.9)	15 (51.7)	15 (51.7)	22 (75.7)	1 [·] (3.4)	11 (37.9)
2.	Maharas) tra	h- 56	38 (67.8)	21 (37.5)	8 (14.3)	9 (16.1)	51 (91.1)	1 (1.8)	8 (14.3)
3.	Orissa	18	14 (77.8)	10 (55.6)	7 (38.9)	3 (16.7)	18 (100.0)	0 (0.0)	1 (5.6)
4.	Rajastha	n 53	51 (96.2)	8 (15.1)	0 (0.0)	0 (0.0)	47 (88.7)	0 (0.0)	0 (0.0)
5.	Tamil Nadu	102	88 (8	72 6.3) (70.6)	78 (76.5)	39 (38.2)	79 (77.5)	4 (3.9)	18 (17.6)
6.	Uttar Pradesh	166	145 (87.3)	64 (38.6)	41 (24.7)	22 (13.3)	156 (94.0)	1 (0.6)	37 (22.3)
	Total :	424	362 (85.4)	197 (46.5)	149 (35.1)	88 (20.8)	373 (88.0)	7 (1.7)	75 (17.7)

Figures in parenthesis are percentages. Percentages are calculated on the basis of Col. 3. 7.4 Knowledge about treating children with severe dehydration

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More than 56 per cent of the private practitioners are of the view that they would treat the children having severe dehydration by giving IV fluid (Table 7.6). This is high in Tamil Nadu and Haryana (72.5% and 65.5% respectively) and very low (16.7%) in Orissa. However, about 17 per cent have mentioned that they would admit the children for IV fluid and ORT in their clinics. Only 1.9 per cent of the private practitioners say that they would give drugs to severely dehydrated children. However, about 41 per cent indicate that they would refer the cases of severely dehydrated children to other clinics, hospitals, etc. where IV fluid facility is available. It means that these private practitioners do not have IV fluid facility at their clinics. In brief, adding columns 4 through 8 (Table 7.6), we find that the knowledge of IV fluid requirement among private practitioners seems to be quite satisfactory.

Table 7.6: Treatment of children with diarrhoea h	having severe de	hydration
---	------------------	-----------

S. No		No.of private practi- tioners	Admit for IV and ORT	Admit for IV only	Refer with IV in transit	Refer with ORT in transit	Refer without IV or ORT in transit	Drugs
1	2	3	4	5	6	7	8	9
1.	Haryana	29	3 (10.3)	16 (55.2)	1 (3.4)	2 (6.9)	7 (24.1)	0 (0.0)
2.	Maharas- htra	56	7 (12.5)	14 (25.0)	2 (3.6)	8 (14.3)	24 (42.9)	1 (1.8)
3.	Orissa	18	3 (16.7)	0 (0.0)	0 (0.0)	9 (50.0)	5 (27.7)	1 (5.6)
4.	Rajasthan	53	17 (32.1)	7 (13.2)	1 (1.9)	28 (52.8)	0 (0.0)	0 (0.0)
5.	Tamil Nadu	102	30 (29.4)	44 (43.1)	5 (4.9)	17 (16.7)	6 (5.9)	0 (0.0)
6.	Uttar Pradesh	166	13 (7.8)	87 (52.4)	1 (0.6)	22 (13.3)	37 (22.3)	6 (3.6)
	Total :	424	73 (17.2)	168 (39.6)	10 (2.4)	86 (20.3)	79 (18.6)	8 (1.9)

Figures in parenthesis are percentages.

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7.5 Knowledge about preparation of ORS solution

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Table 7.7 shows that in Tamil Nadu the percentage of private practitioners who could prepare the ORS solution correctly is quite satisfactory as compared to other States under study. It is about 80 per cent in Tamil Nadu. Even Rajasthan with 57 per cent may be considered as unsatisfactory because being doctors all of them are supposed to have correct knowledge of preparation of ORS solution.

.No.	State	No.of private practitioners	Know correctly	Do not know correctly
1.	Нагуапа	29	11 (37.9)	18 (62.1)
2.	Maharashtra	56	2 (3.6)	54 (96.4)
3.	Orissa	18	3 (16.7)	15 (83.3)
4.	Rajasthan	53	30 (56.6)	23 (43.3)
5.	Tamil Nadu	102	81 (79.4)	21 (20.6)
6.	Uttar Pradesh	166	59 (35.5)	107 (64.5)
	Total :	424	186 (43.9)	238 (56.1)

Table 7.7 : Private practitioners knowing how to prepare ORS solution

Figures in parenthesis are the percentages.

Situation in Maharashtra (with about 97 per cent) and Orissa with about 83 per cent of the private practitioners not knowing how to prepare the ORS solution correctly appears to be very alarming.

(81)

Table 7.8 shows the observations made by the investigators when the private practitioners mentioned about the different aspects of the preparation of ORS solution.

S.No.	State	No. of private practi- tioners	Clean conta- iner ment- ioned	Clean water ment- joned	Correct amount of water ment- ioned	ely diss- olved	Correct amount of powder used mentioned
1	2	3	4	5	6	7	8
1.	Haryana	29	29 (100.0)	29 (100.0)	11 (37.9)	26 (89.7)	11 (37.9)
2.	Maharashtra	56	3 (5.4)	33 (58.9)	27 (48.2)	4 (7.1)	27 .(48.2)
3.	Orissa	18	8 (44.4)	16 (88.9)	4 (22.2)	9 (50.0)	6 (33.3)
4.	Rajasthan	53	46 (86.8)	46 (86.8)	30 (56.6)	46 (86.8)	31 (58.5)
5.	Tamil Nadu	102	96 (94.1)	96 (94.1)	81 (79.4)	97 (95.1)	81 (79.4)
6.	Uttar Pradesh	166	97 (58.5)	131 (78.9)	83 (50.0)	100 (60.2)	79 (47.5)
	Total :	4 24	279 (65.8)	351 (82.8)	236 (55.7)	282 (66.5)	235 (55.4)

Table 7.8 : Observations on preparation of ORS solution by private practitioners

Figures in parenthesis are the percentages. Note : Percentages are calculated on the basis of Col. 3

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7.6 Knowledge about ORS ingredients

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There are four ingredients of ORS as per WHO formula. Table 7.9 indicates that only 43 per cent of the private practitioners have knowledge of all the four ingredients of ORS. However, in Tamil Nadu more than 50 per cent of private practitioners possess this knowledge. Only 3 per cent private practitioners do not know about any of the ingredients of ORS. The distribution of private practitioners regarding the knowledge of each ingredient of ORS is given in Table 7.10.

5.No.	State	No. of private practit- ioners	Knowledge of all four ingredients	Knowledge of less than four ingre- dients	Do not know	
1.	Haryana	29	11 (37.9)	18 (62.1)	0 (0.0)	
2.	Maharashtra	56	20 (35.7)	34 (60.7)	2 (3.6)	
3.	Orissa	18	5 (27.8)	13 (72.2)	0 (0.0)	
4.	Rajasthan	53	9 (17.0)	41 (77.3)	3 (5.7)	
5.	Tamil Nadu	102	53 (52.0)	44 (43.1)	5 (4.9)	
6.	Uttar Pradesh	166	84 (50.6)	79 (47.6)	3 (1.8)	
	Total :	424	182 (42.9)	229 (54.0)	13 (3.1)	

Table 7.9 :Knowledge of ORS ingredients among private practitioners

Figures in parenthesis are percentages.

(83)

.No.	State	No. of private practitioners	Mentioned correctly	Not menti- oned correctly	Do Not Know
-					·····
1.	Haryana	29	12	16	1
			(41.4)	(55.2)	(3.4)
2.	Maharashtra	56	37	15	4
			(66.1)	(26.8)	(7.1)
3.	Orissa	18	8	9	1
			(44.4)	(50.0)	(5.6)
4.	Rajasthan	53	22	26	5
	5		(41.5)	(49.0)	(9.5)
5.	Tamil Nadu	102	34	56	·12
			(33.3)	(54.9)	(11.8)
6.	Uttar Pradesh	166	90	60	16
		- *	(54.2)	(36.2)	(9.6)
,	Total:	424	203	182	39
			(47.9)	(42.9)	(9.2)

Table 7.11: Estimation of ORS solution requirement

Figures in parenthesis are percentages

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7.8 Knowledge regarding the correct advice about feeding during diarrhoea

Table 7.12 indicates that most of the private practitioners advise mothers to continue breast feeding as usual during diarrhoea. The percentage of such private practitioners is over 80 in Haryana, Orissa and Tamil Nadu. Only 2.4 per cent of the private practitioners are of the opinion that breast feeding should be increased during diarrhoea and about 10 per cent stated that it should be stopped.

More than 50 per cent of the private practitioners in all the States under study, except Maharashtra, have indicated that bottle feeding should be stopped during diarrhoea.

It is interesting to note that more than 83 per cent of the private practitioners in Tamil Nadu are of the opinion that other fluids should be given in more quantity to children during diarrhoea. Next to Tamil Nadu is Uttar Pradesh where the percentage of such practitioners is 56. However, there are no such cases in Orissa indicating thereby a low level of knowledge in this regard among the private practitioners in this State.

In Rajasthan about 85 per cent of the private practitioners are of the opinion that solid feeds should be continued as usual to the children during diarrhoea. Next to Rajasthan are Haryana and Tamil Nadu where the percentage of such practitioners is about 73 and 65 respectively. Haryana is the only State where the practitioners are of the view that solid feed should not be stopped or decreased during diarrhoea. Hence, it is clear from the Table that proper knowledge about feeding during diarrhoea is very low in all the States.

Table 7.12 : Type of advice given to	mothers/caretakers regarding feeding during
diarrhoea	

	i. Stai No.		No. of private		Brea	st Feedi	ng		Bottle]	Feeding			Other F	uids			Solid	Feeds	
		•	practi- oners			Stop	Decre- ase	Decre- Conti- ase nue as usual											
1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	. Haryı	ana	29	0 (0.0)	3 (10.3)	26 (89.7)	0 (0.0)	17 (58 .6)	7 (24.1)	5 (17.2)	0 (0.0)	0 (0.0)	0 (0.0)	20 (69.0)	9 (31.0)	0 (0.0)	0 (0.0)	21 (72.4)	8 (27.6)
2	l. Maha	arashi	ira 5 6	4 (7.1)	15 (26.8)	35 (62.5)	2 (3.6)	18 (32 .1)	20 (35.7)	17 (30.4)	1 (1.8)	3 (5.4)	16 (28.6)	16 (28.6)	21 (37.5)	18 (32.1)	18 (32.1)	17 (30.4)	3 (5.4)
3	I. Oriss	a	18	1 (5.6)	(5.6)		0 (0.0)	9 (50 .0)	1 (5.6)	8 (44.4)	0 (0.0)	2 (11.1)	0 (0.0)	16 (88.0)	0 (0.0)	8 (44.4)	3 (16.7)	7 (38.9)	0 (0.0)
4	. Rajas	ithan	53	6 (11.3)	10 (18.9)	34 (64.2)	3 (5.6)	34 (64.2)	10 (18.9)	8 (15.1)	1 (1.9)	5 (9.4)	5 (9.4)	40 (75.5)	3 (5.7)	.1 (1.9)	6 (11.3)	45 (84.9)	1 (1.9)
5	i. Tamil	i Nad		11 (10.8)	9 (8.8)	82 (80.4)	0 (0.0)	.53 (52.0)	9 (8.8)	39 (38.2)	1 (1.0)	0 (0.0)	5 (4.9)	12 (11.8)	85 (83.3)	31 (30.4)	4 (3.9)	66 (64.7)	1 (1.0)
6	i. Uttar	Prad			33 (19.9)	106 (63.9)	5 (3.0)		42 (25.3)	37 (22.3)	(2.4)	3 (1.8)	19 (11.5)	51 (30.7)	93 (56.0)	48 (28.9)	44 (26 <i>.</i> 5)	71 (42.8)	3 (1.8)
-	Total	:	424	44 (10.4)	71 (16.7)	299 (70.5)	10 (2.4)	214 (50.5)	89 (21.0)	114 (26.9)		13 (3.1)	45 (10.6)	155 (36.6)	211 (49.8)	106 (25.0)	75 (17.7)	227 (53.5)	16 (3.8)

Figures in parenthesis are the percentages.

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Note: Percentages are calculated on the basis of Col. 3

7.10 Knowledge regarding advice about prevention of diarrhoea

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More than 90 per cent of the private practitioners are of the opinion that drinking water should be clean and it should be boiled before use (Table 7.14). The other important advice given to mothers/caretakers by private practitioners for preventing diarrhoea are washing hands with soap after defaecation and before preparing food, keeping the food covered, keeping the kitchen clean, and maintenance of general cleanliness.

Table 7.14: Type of advice given to mothers/caretakers regarding prevention of diarrhoea

S.No.Su	ale .	No. of. private practi- tioners	Drinking water should be boiled/ clean	Wash hands (with soap) after defae- cation	Wash hands (with soap) before food prepa- ration	Keep food cove- red	Keep food prepa- ration area clean	nize child for	Main- tain Clean- liness/ personal Hygiene surroun- dings and home clean/ Bottle should be steri- lized	unhy- gienic food		Mother should take balan- ced diet	Prevent Consum- ption of mud/ clay
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.	Haryana	29	29 (100 .0)	27 (93.1)	26 (89.7)	13 (44.8)	4 (13.8)	0 (0.0)	7 (24.1)	8 (27.6)	1 (3.4)	0 (0.0)	0 (0.0)
2.	Maharashtra	. 56	45 (80. 4)	6 (10.7)	12 (21.4)	16 (28.6)	3 (5.4)	0 (0.0)	24 (42.9)	37 (66.1)	18 (32.1)	4 (7.1)	0 (0.0)
3.	Orissa	18	16 (8 88)	3 (16.7)	8 (44.4)	8 (44.4)	5 (27.8)	1 (5.6)	3 (16.7)	1 (5.6)	2 (11.1)	0 (0.0)	1 (5.6)
4.	Rajasthan	53	44 (83 .0)	22 (41.5)	29 (54.7)	10 (18.9)	40 (75 <i>.</i> 5)	2 (3.8)	4 (7 <u>5</u>)	1 (1.9)	5 (9.4)	0 (0.0)	1 (1.9)
5.	Tamil Nadu	102	99 (97. 1)	91 (89.2)	92 (90.2)	84 (82.4)	78 (76.5)	4 (3.9)	15 (14.7)	13 (12.7)	3 (2.9)	0 (0.0)	0 (0.0)
6.	Uttar Pradesh	166	1 60 (96.4)	64 (38.6)	49 (29.5)	115 (69.3)	53 (31.9)	7 (4.2)	74 (44.6)	51 (30.7)	27 (16.3)	6 (3.6)	17 (10.2)
	Total:	424	393 (92. 7)	213 (50.2)	216 (50.9)	246 (58.0)	183 (43.2)	14 (3.3)	127 (29.1)	111 (26.2)	56 (13.2)	10 (2.4)	19 (4.5)

Figures in parenthesis are the percentages.

Note : Percentages are calculated on the basis of Col. 3

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There are mainly three aspects of case management of diarrhoea at home, i.e., more fluids should be given, breast feeding (for infants)/solid foods should be given as usual, and medical help should be sought in case of dehydration or when blood is noticed in the stools. It is expected that mothers/caretakers should be told about all the above aspects of case management of diarrhoea at home.

Table 7.15 shows that only in Tamil Nadu and Haryana, the percentage of private practitioners who give advice on all the above three aspects is 73.4 and 69 respectively. There is not even a single private practitioner in Rajasthan who mentions all the three aspects. The percentage of such practitioners is about 44 and 33 in Orissa and Uttar Pradesh respectively whereas in Maharashtra the percentage of such cases is as low as 13.

S.No.	State	No.of private practitioners	Mentioned all three aspects	Mentioned less than three aspects	Did not mention any aspect
1.	Нагуапа	29	20 (69.0)	9 (31.0)	0 (0.0)
2.	Maharashtra	56	7 (12.5)	42 (75.0)	7 (12.5)
3.	Orissa	18	8 (44.4)	10 (55.6)	0 (0.0)
4 .	Rajasthan	53	0 (0.0)	49 (92.5)	4 (7.5)
5.	Tamil Nadu	102	75 (73.5)	26 (25.5)	1 (1.0)
6.	Uttar Pradesh	166	55 (33.1)	110 (66.3)	(0.6)
	Total :	424	165 (38.9)	246 (58.0)	13 (3.1)

Table 7.15:	Case management of diarrhoea at home: percentage of private practitioners
	giving correct advice

Figures in parenthesis are the percentages

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Based on data presented in this chapter, the following observations can be made:

- i) The knowledge of private practitioners regarding the signs for assessing the diarrhoeal patients is very poor in all the States.
- ii) Use of drugs for diarrhoea without dehydration and also diarrhoea with some dehydration is very high in all the States.
- iii) The situation in Rajasthan is somewhat alarming as far as the treatment of simple diarrhoea and diarrhoea with some dehydration is concerned. No private practitioner recommends breast feeding and solid foods.
- iv) Correct knowledge about preparation of ORS solution is very low in Maharashtra, Orissa, Uttar Pradesh and Haryana.
- v) Knowledge regarding correct estimation of the quantity of ORS solution required for diarrhoeal patients is low in Tamil Nadu, Haryana, Rajasthan, and Orissa.
- vi) Private practitioners do not advise increase in breast feeding during diarrhoea in all the States.

vii) A large number of private practitioners do not advise to stop bottle feeding during diarrhoea in all the States, i.e., they do not advise mothers/caretakers that milk should be given with cup and spoon to those children during diarrhoea who were taking milk in bottle before diarrhoea.

- viii) Except in Tamil Nadu and Uttar Pradesh, advice to increase other fluids during diarrhoea is found very low.
- ix) Advice regarding home management of diarrhoea is not given by private practitioners in Rajasthan. However, percentage of such private practitioners is low in Maharashtra, Uttar Pradesh and Orissa whereas the situation in Haryana and Tamil Nadu seems to be better.

Recommendations

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Considering health care system in our country, the private practitioners have a major role to play in solving the diarrhoeal problem in the country. However, the observations made above reveal that the level of knowledge of the private practitioners about ORT is very low in almost all the six States under study. It is therefore recommended that the Government of India should launch an orientation programme throughout the country to equip the private practitioners with the requisite knowledge of ORT to implement the programme effectively. However, the States found deficient in the areas listed above (summary section) require special emphasis at the time of orientation.

CHAPTER 8

PHARMACISTS' KNOWLEDGE OF ORT

The pharmacists can also play a major role in tackling the diarrhoeal problem. It has been observed that many people go to them with a request to give something for controlling the diarrhoea of their children. Whatever little knowledge the pharmacists have about management of diarrhoea, they give medicines and ORS to the customers even without doctor's prescription. If orientation is given to pharmacists for diarrhoea management, they can do a lot in controlling the diarrhoeal problem. To assess the situation, in all 362 pharmacists representing different sample units were interviewed and their knowledge about ORT and commercial ORS packets was accordingly tapped.

8.1 Knowledge about ORS ingredients

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Table 8.1 shows that majority of the pharmacists do not know about all the four ingredients of ORS. Around 48 per cent of pharmacists in Haryana know about all the ingredients followed by 35.1 per cent in Uttar Pradesh. The percentage of such pharmacists is much below 30 in other States, i.e., 14.6 through 27.8 per cent.

S.No.	State	No. of pharmacists	Knowledge of all four ingredients	Knowledge of less than four ingredients
1	2	3	4	5
1.	Haryana	23	11 (47.8)	. 12 (52.2)
2.	Maharashtra	36	10 (27.8)	26 (72.2)
3.	Orissa	18	5 (27.8)	13 (72.2)
4.	Rajasthan	55	9 (16.4)	46 (83.6)
5.	Tamil Nadu	82	12 (14.6)	70 (85.4)
6.	Uttar Pradesh	148	52 (35.1)	96 (64.9)
· · · ·	Total :	362	99 (27.3)	263 (72.7)

Table 8.1 Knowledge of ORS ingredients among pharmacists

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Figures in parenthesis are the percentages

The distribution of pharmacists having the knowledge about each ingredient of ORS is given in Table 8.2. This Table shows that about 90 per cent of the pharmacists have mentioned Glucose and Sodium whereas 70 and 33 per cent have mentioned about Potassium and Bicarbonate/Tricitrate respectively.

S.No.	State	No. of bharma- cists	Glu- cose	Sodium	Pota- ssium	Bicar . bonate/ Tricitrate	Chlo- ride	
1	2	3	4	5	6	7.	8	
1.	Haryana	23	21 (91.3)	23 (100.0)	16 (69.6)	8 (34.8)	14 (60.9)	
2.	Maharashtra	a 36	33 (91.7)	36 (100.0)	29 (80.6)	17 (47.2)	1 (2.8)	
3.	Orissa	18	18 (100.0)	17 (94.4)	9 (50.0)	5 (27.8)	0 (0.0)	
4.	Rajasthan	55	52 (94.5)	48 (87.3)	45 (81.8)	3 (5.5)	11 . (20.0)	
5.	Tamil Nadu	82	72 (87.8)	67 (81.7)	44 (53.7)	14 (17.1)	13 (15.9)	
6.	Uttar Prade	sh 148	142 (95.9)	147 (99.3)	111 (75.0)	74 (50.0)	35 (23.6)	
······································	Total :	362	338 (93.4)	338 (93.4)	254 (70.2)	121 (33.4)	74 (20.4)	

Table 8.2: Knowledge of each ORS ingredients among pharmacists

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• Figures in parenthesis are the percentages Note : Percentage are calculated on the basis of Col.3.

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8.2 Explaining about the preparation of ORS to customers

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Table 8.3 shows that almost all the pharmacists say that they explain to customers how to prepare ORS solution.

S.No.	State	No.of pharmacists	Explain	
1.	Haryana	23	23	
			(100.0)	
2.	Maharashtra	36	36	
			(100.0)	
3.	Orissa	18	18	
			(100.0)	
4.	Rajasthan	55	55	
	- 		(100.0)	
5.	Tamil Nadu	82	75	
		· · · · · · · · · · · · · · · · · · ·	(91.5)	
6.	Uttar Pradesh	148	145	
			(98.0)	
	Total	362	352	
			(97.2)	

Table 8.3: Distribution of pharmacists explaining to customers how to prepare ORS solution

Figures in parenthesis are the percentages

8.3 Knowledge about the preparation of ORS solution

Table 8.3 shows that almost all the pharmacists explain to customers about the preparation of ORS solution but Table 8.4 indicates that only 40.6 per cent know how to prepare the ORS solution correctly. The percentage of pharmacists knowing the correct preparation of ORS solution is as high as 69 in Rajasthan followed by Tamil Nadu (57.3%) whereas it is as low as 22 per cent in Orissa.

5.No.	State	No.of pharmacists	Explained correctly	• Explained incorrectly
1.	Haryana	23	8 (34.8)	15 (65.2)
2.	Maharashtra	36	9 (25.0)	27 (75.0)
3.	Orissa	18	4 (22.2)	14 (77.8)
4.	Rajasthan	55	38 (69.1)	17 (30.9)
5.	Tamil Nadu	. 82	47 (57.3)	35 (42.7)
6.	Uttar Pradesh	148	41 (27.7)	107 (72.3)
	Total :	362	147 (40.6)	215 (59.4)

Table 8.4: Pharmacists knowledge about ORS preparation

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Figures in paranthesis are the percentages.

Note: Pharmacists did not prepare the ORS solution. They only explained to the investigators how to prepare it.

The distribution of pharmacists possessing knowledge of different components for the preparation of ORS solution is given in Table 8.5. While explaining the preparation of ORS solution, about 84 per cent have mentioned that clean water should be used and about 69 per cent have mentioned the use of clean container. The percentage who have mentioned about the correct amount of water and ORS is 55, whereas about 65 per cent have mentioned that ORS should be dissolved completely.

S.No.	State	No. of pharmacists	Clean container mentioned	Clean water mentioned	Correct amount of water mentioned	ORS comple- tely dissolved mentioned	- Correct amount of powder mentioned
1	2	3	4	5	6	7	8
1.	Нагуапа	23	21 (91.3)	21 (91.3)	9 (39.1)	15 (65.2)	9 (39.1)
2.	Maharashtra	36	8 (22.2)	14 (38.9)	21 • (58.3)	9 (25.0)	21 (58.3)
3.	Orissa	18	4 (22.2)	16 (88.9)	7 (38.9)	10 (55.6)	8 (44.4)
4.	Rajasthan	55 .	54 (98.2)	55 (100.0)	38 (69.1)	53 (96.4)	38 (69.1)
5.	Tamil Nadu	82	74 (90.2)	72 (87.8)	49 (59.8)	71 (86.6)	50 (61.0)
6.	Uttar Pradesh	148	88 (59.5)	127 (85.8)	<u>7</u> 5 (50.7)	77 (52.0)	74 (50.0)
	Total :	362	249 (68.8)	305 (84.3)	199 (55.0)	235 (64.9)	200 (55.2)

 Table 8.5 :Distribution of Pharmacists possessing knowledge of preparation of ORS

Figures in parenthesis are the percentages

Note: Percentages are calculated on the basis of Col.3.

8.4 Advice for home management of diarrhoea

Table 8.6 indicates the types of advice given by pharmacists to customers regarding the home management of diarrhoea. From 21 per cent to 25 per cent of the pharmacists have mentioned that they advise regarding the use of home fluids, balanced diet and commercial ORS. About 47 per cent advise that if the diarrhoea is not controlled at home, medical help should be sought. There are only 0.8 per cent who mention that breast feeding should be continued during diarrhoea.

S.N	o. State	Number of phar- macists	Boiled water should be given to the child	Commercial ORS	Home made fluids	lf not con- trolled seek medical help		Give SSS ,	Maintain better hygiennic condition	Continue breast feeding
1	2	3	4	5	6	7	8	9	10	11
1.	Haryana	23	17 (73.9)	20 (87.0)	3 (13.0)	6 (26.1)	9 (39.1)	2 (8.7)	1 (4.3)	0 (0.0)
2.	Mahara- shtra	36	9 (25.0)	4 (11.1)	2 (5.6)	21 (58.3)	6 (16.7)	8 (22.2)	2 (5.6)	0 (0.0)
3.	Orissa	18	5 (27.8)	0 (0.0)	8 (44.4)	6 (33.3)	2 (11.1)	3 (16.7)	3 (16.7)	0 (0.0)
4.	Rajas- than	55	3 (5.5)	13 (23.6)	8 (14.5)	4 (7.3)	5 (9.1)	4 (7.3)	0 (0.0)	0 (0.0)
5.	Tamil Nadu	82	11 (13.4)	2 (2.4)	27 (32.9)	19 (23.2)	37 (45.1)	8 (9.8)	7 ⁻ (8.5)	2 (2.4)
6.	Uttar Pradesh	148	18 (12.2)	53 (35 .8)	29 (19.6)	115 (77.7)	21 (14.2)	11 (7.4)	2 (1.4)	1 (0.7)
	Total :	362	63 (17.4)	92 (25.4)	77 (21.3)	171 (47.2)	80 (22.1)	36 (9.9)	15 (4.1)	3 (0.8)

Table 8.6: Advice given by pharmacists regarding home management of diarrhoea

Figures in parenthesis are the percentage Note: Percentages are calculated on the basis of col.3.

8.5 Advice regarding prevention of diarrhoea

Table 8.7 shows that about 60 per cent of the pharmacists give advice to their customers regarding prevention of diarrhoea. Percentage of such pharmacists is as high as 87 in Haryana followed by Tamil Nadu (70%), Uttar Pradesh and Maharashtra (About 60% each), whereas it is as low as 32.7 per cent in Rajasthan.

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5.No.	State	No.of pharmacists	Give advice	 Do not give any advice
1	2	3	4	5
1.	Нагуала	23	20 (87.0)	3 (13.0)
2.	Maharashtra	36	21 (58.3)	15 (41.7)
3.	Orissa	18	7 (38.9)	11 (61.1)
4.	Rajasthan	55	18 (32.7)	37 (67.3)
5.	Tamil Nadu	82	57 (69.5)	25 (30.5)
6.	Uttar Pradesh	148	9 (60.8)	0 58 (39.2)
	Total :	362	213 (58.8)	149 (41.2)

Table 8.7 : Advice on prevention of diarrhoea

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Figures in parenthesis are the percentages.

As far as the type of advice is concerned, 45 per cent mention that unhygienic food and dirty water should not be given to the children (Table 8.8). About 15 per cent have mentioned that proper hygienic conditions should be maintained in the house.

S.No. Number Advice Immunization State Proper Avoid should be of pharhygienic unhygiebalanced macists condition nic food diet done at right time and and dirty right intervals water 6 7 1 2 3 4 5 1. 23 9 0 Haryana 11 4 (0.0) (39.1) (47.8) (17.4) 2. Maharashtra 36 2 17 2 0 (5.6) (47.2) (5.6) (0.0)3. Orissa 18 5 1 1 (22.2) (27.8) (5.6) (5.6) . 0 4. Rajasthan 55 8 7 3 (14.5) (12.7) (5.5) (0.0) 5. Tamil Nadu 82 8 47 7 0 (9.8) (57.3) (8.5) (0.0)23 6. Uttar 148 70 32 0 (47.3) Pradesh (15.5) (0.0)(21.6) Total: 362 54 163 49 1 (0.3) (14.9) (45.0) (13.5)

Table 8.8: Type of advice given to mothers/caretakers regarding prevention of diarrhoea

Figures is parenthesis are the percentages Note: Percentages are calculated on the basis of Col.3.

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8.6 Maximum sale of ORS packets

The pharmacists were asked to identify the month(s) in which the sale of ORS was maximum during the last six months from the date of survey. The percentages of pharmacists mentioning June and July as the months for maximum sale of ORS are 34 and 27.9 respectively (Table 8.9). About 78 per cent of the pharmacists in Haryana have mentioned that in June the sale of ORS packets is the highest followed by Rajasthan (47.3%) and Uttar Pradesh (37.2%). About 39 per cent of the pharmacists in Orissa have mentioned that July is the month in which the sale of ORS is maximum whereas about 42 per cent have mentioned the month of August in Maharastra.

S.No.		No.of pharma- cists	Marc	h April	May	June	July	Aug	Sep	Oct	Don't know
1	2	3	4	5	6	7	8	9	10	11	12
1.	Haryana	23	0 (0.0)	0 (0.0)	0 (0.0)		5 (21.7)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
2.	Maharash	itra 36	1 (2.8)		_	4 (11.1)	-	15 (41.7)	4 (11.1)	0 (0.0)	0 (0.0)
3.	Orissa	18	0 (0.0)		0 (0.0)	4 (22.2)	7 (38.9)	-	1 (5.6)	0 (0.0)	0 (0.0)
4.	Rajasthar	n 55			2 (3.6)	26 (47.3)	17 (30.9)	8 (14.5)		0 (0.0)	1 (1.8)
5.	Tamil Na	du 82	3 (3.7)	1 (1.2)	1 (1.2)	16 (19.5)	19 (23.2)	12 (14.6)	20 (24.4)	10 (12.2)	0 (0.0)
6.	Uttar Pradesh	148	5 (3.4)	9 (6.1)	12 (8.1)			10 (6.8)	7 (4.7)	2 (1.4)	1 (0.7)
	Total:	362	10 (2.8)	13 (3.6)	20 (5.5)	123 (34.0)	101 (27.9)	49 (13.5)	32 (8.8)	12 (3.3)	2 (0.6)

Table 8.9: Pharmacists' opinion	regarding the months in which the ORS sale was
maximum	

Figures in parenthesis are the percentages Note: Percentages are calculated on the basis of Col.3

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8.7 Fastest moving ORS

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Table 8.10 shows that over 93 per cent of the pharmacists say that fastest moving ORS is electral. All the pharmacists in Haryana mention about it. Only Orissa is far behind with 55.6 per cent where other brands are more popular.

S.No.	State	No.of pharmacists	Electral	Others
1.	Нагуапа	23	23 (100.0)	0 (0.0)
2.	Maharashtra	36	33 (91.7)	3 (8.3)
3.	Orissa	18	10 (55.6)	8 (44.4)
4.	Rajasthan	55	53 (96.4)	2 (3.6)
5.	Tamil Nadu	82	78 (95.1)	4 (4.9)
6.	Uttar Pradesh	148	140 (94.6)	8 (5.4)
	Total :	362	337 (93.1)	25 (6.9)

Table 8.10 : Distribution of pharmacists opinion about the fastest moving ORS

Figures in parenthesis are the percentages. Note: Others include Relyte, Electrobian, Spedral, F.D.C., Regulyte, Medilyte, E-lyte, Bactolyte, Dextolyte 8.8 Reasons for the highest sale of fast moving ORS

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There are mainly three reasons, according to pharmacists, for the highest sale of fast moving ORS; firstly that the product is well known and in more demand (63%), secondly, the taste is good (33.4%), and thirdly it is prescribed by the doctors (22.9%) (Table 8.11). Only 7.5 per cent mention that the price is low. But in Orissa the percentage of such pharmacists is 28.

S.No.	State (No. of pharma- cists	More demand	Taste is good	Well known product	Prescri- bed by doctors	Give strength/ effectiveness	Low price
1	2	3	4	5	6	7	8	9
1.	Haryana	23	8 (34.8)	7 (30.4)	8 (34.8)	7 (30.4)	0 (0.0)	0 (0.0)
2.	Maharash	itra 36	3 (8.3)	1 (2.8)	28 (77.8)	10 (27.8)	0 (0.0)	2 (5.6)
3.	Orissa	18	2 (11.1)	1 (9.1)	4 (22.2)	9 (50.0)	0 (0.0)	5 (27.8)
4.	Rajasthan	55	0 (0.0)	44 (80.0)	19 (34.5)	6 (10.9)	1 (1.8)	2 (3.6)
5.	Tamil Nac	du 82	8 (9.8)	14 (17.1)	31 (37.8)	31 (37.8)	5 (6.1)	7 (8.5)
6.	Uttar Pradesh	148	32 (21.6)	54 (36.5)	84 (56.8)	20 (13.5)	6 (4.1)	11 (7.4)
	Total :	362	53 (14.6)	121 (33.4)	174 (48.1)	83 (22.9)	12 (3.3)	27 (7.5)

Table 8.11: Reasons for highest sale of commercial ORS (Fastest moving ORS)

Figures in parenthesis are the percentages

Note: Percentages are calculated on the basis of Col.3.

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The following observations are made from the data presented in this chapter:

- i) Almost all the pharmacists explain to customers how to prepare ORS solution but as high as 60 per cent do not know themselves how to prepare ORS solution correctly.
- ii) No pharmacist advises the customers that breast feeding should be increased during diarrhoea.
- iii) No pharmacist advises the customers that the solid food should be given to children as usual during diarrhoea.
- iv) More than 93 per cent of the pharmacists have mentioned that Electral is the fastest moving ORS.

Recommendations

The pharmacists are also required to join the main stream for tackling the problem of diarrhoea. Special attention of the Ministry of Health and Family Welfare is invited in this regard. If proper training is given to them, they can contribute a lot in tackling the diarrhoeal problem in the country. They should be asked to display neatly written charts in local languages about management of diarrhoea at prominent places so that the customers can see them whenever they visit the shops.

CHAPTER 9

ASSESSMENT OF SUPPLIES AND FACILITIES AT HEALTH FACILITIES

To evaluate the success of ORT programme in any area it is required to assess the knowledge of the personnel working at the health facilities, as well as the beneficiaries. It is also essential to know in detail about different aspects of the health facilities, i.e., assessment and supplies related to ORT programme. In order to acquire knowledge about facilities we have collected data broadly at two levels of health facilities, i.e., sub-health centres and health facilities above the level of sub-centres, e.g., Hospital, Medical College, Taluka Hospital (Sub-District Hospital), etc. The data on different aspects of ORT at both the levels of health facilities are presented below:

I. HIGHER LEVEL OF HEALTH FACILITIES

In all, data from 212 higher level facilities were collected from six States under the study.

9.1. Supply of ORS packets

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Table 9.1 shows that there has never been a shortage in supply of ORS packets in 44 per cent of the health facilities, whereas in the case of 30 per cent there has always been a shortage. However, in about 26 per cent the facilities have experienced shortage only sometimes.

S.No.	State	No.of health	Shortage				
		facili- ties	Never	Some times	Always or most of the time		
1	2	3	4	5	6		
1.	Haryana	4	4 (100.0)	0 (0.0)	0 (0.0)		
2.	Maharashtra	19	12 (63.2)	4 (21.1)	3 (15.8)		
3.	Orissa	23	7 (30.4)	4 (17.4)	12 (52.2)		
4.	Rajasthan	7	4 (57.1)	2 (28.6)	1 (14.3)		
5.	Tamil Nadu	91	38 (41.7)	26 (28.6)	27 (29.7)		
6.	Uttar Pradesh	68	29 (42.6)	18 (26.5)	21 (30.9)		
	Total :	212	94 (44.3)	54 (25.5)	64 (30.2)		

Table 9.1: Supply of ORS packets

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Figures in parenthesis are the percentages.

Haryana is the only State where the health facilities (only 4 facilities were visited) have never witnessed any shortage in the supply of ORS packets, followed by Maharashtra (63.2%) and Rajasthan (57.1%).

At the time of survey it was found that in 31 per cent of the health facilities ORS packets were not stored properly and 9 per cent facilities did not have the ORS packets at all (Table 9.2). Table also shows that some ORS packets were found damaged in 41 per cent of the health facilities, and in 2.3 per cent all the packets were found damaged. Therefore, storing of ORS packets requires special attention.

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S. No.	State	No. of health	Ste	ored	Do not have		RS packets and damage	
110.		facili- ties	Prop- erly	Improp- erly	ORS packets		or spoiled	
		1105	criy	erry	pachets	None	Some	All
1	2	3	4 .	5	6	7	8	9
1	Нагуапа	4	4	0	0	4	0	0
	·		(100.0)	(0.0)	(0.0)	(100.0)	(0.0)	(0.0)
2	Maharashtra	a 19	7	12	0	9	10	0
			(36.8)	(63.2)	(0.0)	(77.4)	(52.6)	(0.0)
3	Orissa	23	10	. 8	5	9	8	1
			(43.5)	(34.8)	(21.7)	(39.2)	(34.8)	(4.3)
4	Rajasthan	7	7	0	0	6	1.	0
	-		(100.0)	(0.0)	(0.0)	(85.7)	(14.3)	(0.0)
5	Tamil Nadu	91	62	29	0	37	50	4
	,		(68.1)	(31.9)	(0.0)	(40.7)	(54.9)	(4.4)
6	Uttar	68	37	17	14	37	17	0
	Pradesh		(54.4)	(25.0)	(20.6)	(54.4)	(25.0)	(0.0)
··	Total :	212	127	66	19	102	86	5
			(59.9)	(31.1)	(9.0)	(48.1)	(40.6)	(2.3)

Table 9.2: Storage of ORS packets

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Figures in parenthesis are the percentages.

9.2. Health education material on diarrhoea

Table 9.3 shows that about 47 per cent of the health facilities never have the shortage in supply of health education material on diarrhoea. However, 21 per cent of the health facilities have shortage sometimes, whereas 32 per cent have always witnessed the shortage. This Table also shows that about 50 per cent display the health education material. As far as the distribution of health education material on diarrhoea is concerned, only in 24.1 per cent health facilities it is distributed to the patients visiting the facility.

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S. No		No. of health facili-	h education material				h educat- aterial ayed	Health education matrial distribut- ed to patients		
		ties	Never	Sometimes	Always	Yes	No	Yes	No	
1	2	3	4	5	6	7	8	9	10	
	Haryana	4	3 (75.0)	1 (25.0)	0 (0.0)	3 (75.0)	1 (25.0)	3 (75.0)	1 (25.0)	
	Maha- rashtra	19	9 (47.4)	8 (42.1)	2 (10.5)	10 (52.6)	9 (47.4)	5 (26.3)	14 (73.7)	
	Orissa	23	9 (39.1)	2 (8.7)	12 (52.1)	13 (56.5)	10 (43.4)	4 (17.4) .	19 (77.6)	
	Rajas- than	7	6 (85.7)	1 (14.3)	0 (0.0)	7 (100.0)	0 (0.0)	5 (71.4)	2 (28.6)	
	Tamil Nadu	91	35 (38.5)	17 (18.7)	39 (42.9)	42 (46.2)	49 (53.8)	13 (14.3)	78 (85.7)	
1	Uttar Pradesh	68	37 (54.4)	15 (22.1)	16 (23.5)	29 (42.7)	39 (57.3)	21 . (30.9)	47 (69.1)	

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(75.9)

Table 9.3: Health education materials

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Figures in parenthesis are the percentages.

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Note: Percentages are calculated on the basis of col.3.

9.3 Availability of written guidelines for assessment and treatment of diarrhoea / dehydration

Table 9.4 indicates that only 38 per cent of the health facilities have the written guidelines. In Rajasthan, all the health facilities have the written guidelines followed by Haryana (75%). In other states about 50 per cent have the guidelines while in Tamil Nadu such facilities are only 17.6 per cent. Table also shows that in 31 per cent of the health facilities, the guidelines were shown to the investigators at the time of survey. In Rajasthan 86 per cent facilities have shown the guidelines followed by Haryana (75%). In Tamil Nadu this percentage is only 12.1.

Table 9.4 :Written guidelines on	assessment/treatment of diarrhoea/dehydration at
health facilities	

S.No.	State	No. of	Guide	lines shown to	Investigator
		health facili- ties	Shown	Not shown	Do not have guidelines
1	2	3	4	5	6
1	Haryana	4	3 (75.0)	0 (0.0)	1 (25.0)
2	Maharashtra	19	8 (42.1)	2 (10.5)	9 (47.4)
3	Orissa .	23	12 (52.2)	1 (4.3)	10 (43.5)
4	Rajasthan	7	6 (85.7)	[~] 1 (14 .3)	0 (0.0)
5	Tamil Nadu	. 91	11 (12.1)	5 (5.5)	75 (82.4)
6	Uttar Pradesh	68	25 (36.8)	7 (10.3)	36 (52.9)
	Total :	212	65 (30.7)	16 (7.5)	131 (61.8)

Figures in parenthesis are the percentages.

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9.4. Use of drugs for diarrhoea

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Table 9.5 indicates that in almost all the health facilities drugs are used for diarrhoea. Most commonly used drugs at the health facilities are Sulpha drugs, Furoxone, Metronidazole, Kaolin+Pectin / Pectokab, Septran, Tetracycline, Gentamycin, Ampicillin, Campicillin, Chlorostrep, Di-Hydroquinoline, Chloramphenicol/Chloromycetin, Entrokam, Kaltin with Neomycin and Walamycin (Table 9.6).

S.No.	State	No.of health facilities	Yes	No
1	2	3	4	5
1	Haryana	4	4 (100.0)	0 (0.0)
2	Maharashtra	19	19 (100.0)	0 (0.0)
3	Orissa	23	23 (100.0)	0 (0.0)
4	Rajasthan	7	7 (100.0)	0 (0.0)
5	Tamil Nadu	91	88 (96.7)	3 (3.3)
6	Uttar Pradesh	68	68 (100.0)	0 (0.0)
	Total :	212	209 (98.6)	3 (1.4)

Table 9.5: Health facilities using drugs for diarrhoea

Figures in parenthesis are the percentages.

S.		No.of healt) facili- ties	a xone	nida-		droqui	cyc-	Kaolin+ Pectin/ Pacto- kab			strep				Ampi cillin/ Campi cililn	0	Chlo- ram- phenic- l/Chlo nycetin
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Haryana	4	4 (100.0)	1 (25.0)	1 (25.0)	0 (0.0)	0 (0.0)	-	0 (0.0)	0 (0.0)	1 (25.0)	2 (50.0)	2 (50.0)	1 (25.0)	ې (0.0)	0 (0.0)	1 (25.0)
2	Maharash	tra 19		6 (31.6)	13 (68.4)	0 (0.0)	3 (15.8)	8 (42.1)	0 (0.0)	1 (5.3)	0 (0.0)	0 (0.0)	1 (53)	2 (10.5)	2 (10.5)	0 (0.0)	1 (5.3)
3	Orissa	23	-	9 (39.1)		1 (4 3)	11 (47.8)	0 (0.0)	0 (0.0)	0 (0.0)		0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1 (4.3)
4	Rajasthan	7	1 (14_3)	4 (57.1)	7 (100.0)	6 (85.7)	1 (14.3)	0 (0.0)	1 (14.3)	0 (0.0)		0 (0.0)	0 (0.0)	1 (14.3)	0 (0.0)	0 (0.0)	0 (0.0)
5	Tamil Nac	iu 91	18 (19.8)	32 (35.2)	53 (58.2)	5 (55)	18 (19.8)	30 •(33.0)	16 (17.6)	6 (17.6)	14 (15.4)	7 (7.7)	19 (20.9)	29 (31.9)	18 (19.8)	0 (0.0)	15 (16.5)
-	Uttar Pradesh	68	38 (55.9)	32 (47.1)	-37 (54.4)	6 (8.8)	5 (7.4)		3 (4.4)	7 _. (10.3)	7 (10.3)	1 (15)	7 (10.3)	9 (1.5)	4 (5.9)	17 (25.0)	0 (0.0)
_	Total :	212	85 (40.1)	84 (39.6)		18 (8.5)	38 (17.9)		20 (9.4)	14 (6.6)	22 (10.4)	10 (4.7)	29 (13.7)	42 (19.8)	24 (11.3)	17 (8.0)	18 (8.5)

Table 9.6: Most commonly used drugs for treatment of diarrhoea at health facilities

Figures in parenthesis are the percentages.

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Note: Percentages are calculated on the basis of col.3.

9.5. Type of IV fluids used for treating diarrhoeal dehydration

In most of the health facilities the normal Saline is used for treating the diarrhoeal dehydration (Table 9.7). In 3/4th of the health facilities in Haryana Dextrose and normal Saline are used. Electrolyte MPN, IV Metroxidazole and Calcium Chloride are only used in Uttar Pradesh to the extent of 11.8 per cent, 7.4 per cent and 1.5 per cent respectively. In 52 per cent of the health facilities in Orissa Glucose Saline is used.

S.No	State	No.of health facili- ties	No Res- pouse	Dext- rose	Normai Saline		-		nidazole M.P.N.	um	. um chio-	Lac- lyte M & P	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Haryana	4	0 (0.0)	3 (75.0)	3 (75.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
2	Maharashtra	19	0 (0.0)	18 (94.7)	15 (78.9)	0 (0.0)	7 (36.8)	0 (0.0)	0 (0.0)	0 (0.0)	6 (31.6)	0 (0.0)	1 (5.3)
3	Orissa	23	0 (0.0)	6 (26-1)	22 (95.7)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	12 (52.2)
4	Rajasthan	7	0 (0.0)	4 (57.1)	7 (100.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
5	Tamil Nadu	91	3 (3.3)	22 (24.2)	83 (91.2)	9 (9.9)	4 (4.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
6	Uttar Pradesh	68	5 (75)	48 (70.6)	49 (72.1)	11 (16.2)	1 (1 <i>5</i>)	8 (11.8)	5 (7.4)	1 (1.5)	5 (7.4)	7 (10.3)	3 (4.4)
	Total :	212	8 (3.5)	99 (46.7)	179 (84.4)	20 (9.4)	12 (5.7)	8 (3.8)	5 (2.4)	1	11 (5.2)	7 (3.3)	16 (7.5)

Table 9.7: Type of I.V. fluids used at the health facilities for diarrhoeal dehydration

Figures in parenthesis are the percentages.

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Note: Percentages are calculated on the basis of Col.3.

9.6 Facilities having weighing scale/machine

It is surprising to note from Table 9.8 that even small items like weighing scale is not found in as many as 1/4th of the health facilities. Of course, this is a small item but its utility is quite big in the health facilities. Therefore, every health facility is supposed to have this. In Orissa and Uttar Pradesh about 35 per cent of the health facilities do not have the weighing scale/ machine.

S.No.	State	No.of health facilities	Having weighing scale	Do not have weighing scale
1	2	3	4	5
1	Нагуапа	4	4 (100.0)	0 (0.0)
2	Maharashtra	19	18 (94.7)	1 (5.3)
3	Orissa	23	15 (65.2)	8 (34.8)
4	Rajasthan	7	7 (100.0)	0 (0.0)
5	Tamil Nadu	91	68 (74.7)	23 (25.3)
6	Uttar Pradesh	68	45 (66.2)	23 (33.8)
	Total :	212	157 (74.1)	55 (25.9)

Table 9.8 Health facility having weighing scale

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Figures in parenthesis are the percentages.

9.7. ORT Corner and other facilities

The concept of separate ORT Corner at the health facility is not known in most of the health facilities as this is evident from Table 9.9. As high as 82 per cent of the health facilities do not have ORT Corner. There is not even a single health facility with ORT Corner in Maharashtra and Rajasthan.

Figures in parenthesis are percentages. Note : Percentages are calculated on the basis of Col.3.

Table 9.9 also shows that about 1/3rd of the health facilities do not have facilities for mothers/caretakers to wash their hands and about 35 per cent do not have the latrine facility for the patients.

					Oral Reby- dration Therapy	mothers	
์ 1	2	3	4	5	6	7	8
,							
1.	Haryana	4	2	2	2	4	4
	-		(50.0)	(50.0)	(50.0)	(100.0)	(100.0)
2	Maharashtra	19	0	0	0	6	11
			(0.0)	(0.0)	(0.0)	. (31.6)	(57.9)
3	Orissa '	23	3	2	1	10	8
			(13.0)	(8.7)	(4.3)	(43.5)	(34.8)
4	Rajasthan	7	0	0	0	6	. 7
			(0.0)	(0.0)	(0.0)	(0.0)	(100.0)
5	Tamil Nadu	91	14	. 11	11	70	68
			(15.4)	(12.1)	(12.1)	(76.9)	(74.7)
6	Uttar	68	19	18	19	45	40
	Pradesh		(27.9)	(26.4)	(27.9)	(66.2)	(58.8)
	Total :	212	38	33	33	141	138
			(17.9)	(15.6)	(15.6)	(66.5)	(65.1)

Table 9.9 : About ORT Corner and other facilities at health facilities

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Data regarding the assessment of supplies and facilities at the sub-centres were collected from 224 sub-centres. Respondents were mainly ANMs and MPHW(M). The collected data relate to the supply of ORS packets, health education material on diarrhoea, etc.

9.8 Supply of ORS packets

Table 9.10 shows that about 44 per cent of the sub-centres always face the problem of shortage of ORS supply. Only 14.7 per cent of the sub-centres always have ORS packets where as 41.5 per cent of the sub-centres face the problem of shortage of ORS sometimes. The overall situation regarding the supply of ORS packets to sub-centres is quite alarming. This fact is also supported with the data presented in Table 9.11 where it is shown that more than 45 per cent of the sub-centres did not have the ORS packets at the time of survey and it was also found that about 22 per cent did not store ORS packets properly. The situation in Uttar Pradesh was still worse where more than 75 per cent sub-centres did not have the ORS packets at the time of survey, it was found that in about 40 per cent sub-centres some or all the ORS packets were found damaged (Table 9.11).

S.No.	State	No.of sub-centres						
			Never	Some times	Always or most of the time			
1.	Haryana	11	4 (36.4)	5 (45.5)	2 (18.2)			
2.	Maharashtra	37	5 (13.5)	16 (43.3)	16 (43.2)			
3.	Orissa	8	3 (37.5)	2 (25.0)	3 (37.5)			
4.	Rajasthan	43	7 (16.3)	13 (30.2)	23 (53.5)			
5.	Tamil Nadu	39	10 (25.7)	27 (69.2)	2 (5.1)			
6.	Uttar Pradesh	. 86	4 (4.6)	30 (34.9)	52 (60.5)			
	Total :	224	33 (14.7)	93 (41.5)	98 (43.8)			

Figures in parenthesis are percentages.

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S. No		No. of sub-	Sto	ored	Do not		RS packet	
		centres	Prop- erly	Improp- erly	have ORS packets	None	Some	All
1	Haryana	11	5 (45.5)	5 (45.5)	1 (9.0)	3 (27.3)	7 (63.6)	(0.0)
2	Maharashtra	37	23 (62.2)	8 (21.6)	6 (16.2)	27 (73.0)	4 (10.8)	(0.0)
3	Orissa	8	2 (25.0)	3 (37.5)	3 (37.5)	4 (50.0)	0 (0.0)	1 (12.5)
4	Rajasthan	43	15 (34.9)	6 (14.0)	22 (51.1)	15 (34.9)	5 (11.6) .	1 (2.3)
5	Tamil Nadu	39	17 (43.6)	18 (46.2)	4 (10.2)	15 (38.4)	, 20 (51.3)	((0.0)
6	Uttar Pradesh	86	12 (14.0)	(10.4)	65 (75.6)	10 (11.6)	7 (8.1)	4 (4.7)
	Total :	224	74 (33.0)	49 (21.9)	101 (45.1)	74 (33.0)	43 (19.2)	(2.7)

Table 9.11: Storage of ORS packets

Figures in parenthesis are the percentages

9.9 Supply of health education material

Table 9.12 shows that only 4 per cent sub-centres have not received the health education material at all. About 70 per cent of the sub-centres face the problem of shortage of health education material either sometimes or most of the time. Only 50 per cent of the sub-centres display the health education material at the centres whereas 75 per cent do not distribute such material to their patients. The government is required to pay more attention to this aspect. People should be made aware of the magnitude of the problem of diarrhoea and its possible cure by displaying the health education material at the sub-centres as well as at other important public places and also by distributing the pamphlets, etc. on diarrhoea to the target population.

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S. No.		No of sub- entres		-	ortages of h ocation mat		3	icalth mate displayed		Health material distributed to patients			
	F		Never	Some Times	Always or Most of the Time	Not App-* licable	Yes	No	NA	Yes	No	NA	
1.	Haryana	11	8(72.7)	1 (9.1)	1 (9.1)	1 (9.1)	4(36.4)	6(54.5)	1(9.1)	. 1(9.1)	9(81.8)	1(9.1)	
2.	Maharashtra	37	6(16-2)	16 (43.3)	15 (40.5)	0 (0.0)	20(54.1)	17(45.9)	0(0.0)	13(35.1)	24(64.9)	0(0.0)	
3.	Orissa	8	0(0.0)	2 (25.0)	0 (0.0)	6 (75.0)	1(12.5)	1(12.5)	6(75.0)	0(0.0)	2(25.0)	6(75.0)	
4.	Rajasthan	43	8(1 8.7)	17 (3 9.5)	17 (39.5)	1 (2.3)	23(53.5)	19(44.2)	1(2.3)	5(11.6)	37(86.0)	1(2.3)	
5.	Tamil Nadu	39	20(51.3)	16 (41.0)	3 (<i>7.7</i>)	0 (0.0)	22(56.4)	17(43.6)	0(0.0)	8(20.5)	31 (79.5)	0(0.0)	
6	Uttar Pradesh	86	16(18.6)	32 (37.2)	37 (43.0)	1 (1 <i>.</i> 2)	43(50. 0)	42(48.8)	1(1.2)	20(23.2)	65(75.ø)	1(1.2)	
	Total :	224	58(25.9)	84 (37.5)	73 (32.6)	9 (4.0)	113(50.4)	102(45.6)	9(4.0)	47(21.0)	168(75.0)	9(4.0)	

Table 9.12: Health education material on diarrhoea

Figures in parenthesis are the percentages

Note: *NA = S.Cs. do not get health education material

9.10 Use of drugs for diarrhoea

Drugs are used for diarrhoea in more than 3/4th of the sub-centres (Table 9.13). In Orissa drugs are used for diarrhoea in all the sub-centres whereas in Uttar Pradesh these are used in less than 50 per cent sub-centres. However, in all other States the use of drugs for diarrhoea is more than 90 per cent at the sub-centres. In Haryana, Orissa and Tamil Nadu almost all the sub-centres use sulpha drugs for diarrhoeal treatment whereas the use of sulpha drugs in Maharashtra and Rajasthan is the lowest, i.e., 10.8 per cent and 18.6 per cent respectively (Table 9.14). On the other hand, in Uttar Pradesh about 49 per cent of the sub-centres use sulpha drugs used for diarrhoea at the sub-centres are Furoxone, Pectin and Kaolin, Dina-quin. In Orissa the Entrobi-quinal drug is used upto the extent of 62.5 per cent. In Rajasthan in more than 3/4th of the sub-centres, Dina-quin drug is used (Table 9.14).

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5.No.	State	No. of Sub-centres	Yes	No
1	Haryana	11	10 (90.9)	1 (9.1)
2.	Maharashtra	37	34 (91.9)	3 (8.1)
3.	Orissa	8	8 (100.0)	0 (0.0)
4.	Rajasthan	43	40 (93.0)	3 (7.0)
5.	Tamil Nadu	39	38 (97.4)	. 1 (2.6)
6.	Uttar Pradesh	86	42 (48.8)	44 (51.2)
	Total:	224	172 (76.8)	52 (23.2)

Table 9.13: Use of drugs for diarrhoea at sub-centres

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Figures in parenthesis are percentages

S.No.	State J	io of sub- centres	Sulpha Drugs	Furoxone	Pectin and Kaolin	Dina- quin	Depen- dal	Entrokam Syrup	Entrobi- quinal	Metroni- dazole	Spasman- done	Baral- gan/ Bardase
1	2	3	4	5	6	7	8	,	10	11	12	13
1.)	Haryana	11	11	3	2	0	1	0	0	0	0	0
			(100.0)	(27.3)	(18.2)	(0.0)	(9.1)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
2.)	Maharashti	na 37	4 (10.8)	22 (2.7)	15 (40.5)	9 (24.3)	0 (0.0)	0 (0.0)	0 (0.0)	1 (2.7)	6 (16-2)	0 (0.0)
3. (Orissa	8	8 (100.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	5 (62.5)	1 (12.5)	0 (0.0)	0 (0.0)
. 1	Rajasthan	43	8 (18.6)	2 (4.7)	1 (2.3)	33 (76.7)	2 (4.7)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	5 (11.6)
	Famil Nadı	ı 39 `	- 39 (100.)	0 (0.0)	7 (17.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	2 (5.1)	0 (0.0)	0 (0.0)
5. 1	Uttar Prade	esh 86	42 (48.8)	3 (3 <i>.</i> 5)	1 (1-2)(2 2.3)	0 (0.0)	4 (4.7)	1 (1.2)	0 (0.0)	0 (0.0)	0 (0.0)
	Fotal :	224	111 (41.3)	30 (13.4)	26 (11.6)	44 (19.6)	3 (1.4)	4 (1.8)	6 (2.7)	4 (1.8)	6 (2.7) ·	5 (2.2)

Table 9.14 Most commonly drugs used for diarrhoea at sub-centres

Figures in parenthesis are the percentages.

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Note: Percentages are calculated on the basis of Col.3.

9.11 Weighing machine / scale

It is interesting to note from Table 9.15 that more than 53 per cent of the sub-centres do not have the weighing machine. This is a minor item but its utility is very significant. Each sub-centre is supposed to have it. Why all the sub-centres do not have it is a matter to be probed. Either the weighing machines have gone out of order or these were not supplied to these sub-centres at all.

Tabl	e 9.15: Sub-centres ha State	No.of sub- centres	hine / scale Have weighing scale	Do not have weighing scale	
1.	Haryana	11	8 (72.7)	(27.3)	,
2.	Maharashtra	37	20 (54.1)	17 (45.9)	
3.	Orissa	8	3 (37 <u>-</u> 5)	5 (62.5)	
4.	Rajasthan	43	14 (32.6)	29 (67.4)	· •
5.	Tamil Nadu	39	35 (89.7)	4 (10.3)	
6.	Uttar Pradesh	86	25 (29.1)	61 (70.9)	•
	Total :	224	105 (46.9)	119 (53.1)	

Figures in parenthesis are percentages.

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9.12 Written guidelines for assessment and treatment of diarrhoea/dehydration

More than 50 per cent of the sub-centres do not have the written guidelines (Table 9.16). In only 35.3 per cent sub-centres, these guidelines were shown to the investigators at the time of survey. In Rajasthan and Haryana 90.9 per cent and 97.7 per cent respectively do not have the written guidelines. In Tamil Nadu about 62 per cent of the sub-centres have written guidelines followed by Orissa (50%).

 $\mathbf{v} = \mathbf{v}_{i}$

	sub-centres		Guidelines shown to the Investigator			
S.No.	State	No.of sub- centr es	Shown	Not Shown	Do not have written guidelines	
1.	Нагуапа	11	1 (9.1)	0 (0.0)	10 (90.9)	
2.	Maharashtra	37	13 (35.1)	5 (13.5)	19 (51.4)	
3.	Orissa	8	4 (50.0)	0 (0.0)	4 (50.0)	
4.	Rajasthan	43	1 (2.3)	0 (0.0)	42 (97.7)	
5.	Tamil Nadu	39	24 (61.6)	13 (33.3)	2 (5.1)	
6.	Uttar Pradesh	86	36 (41.9)	8 (9.3)	42 (48.8)	
<u> </u>	Total :	224	79 (35.3)	26 (11.6)	119 (53.1)	

Table 9.16: Written guidelines on assessment and treatment of diarrhoea/dehydration at sub-centres

Figures in parenthesis are the percentages

9.13 Referring of diarrhoeal cases

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In more than 3/4th of the sub-centres, diarrhoeal cases are referred to other hospitals for treatment (Table 9.17). In Orissa almost all the sub-centres refer cases followed by Uttar Pradesh (94.2%) and Maharashtra (89.2%).

			Referrel of Cases		
.No.	State	No.of sub-centres	Yes	No	
1.	Haryana	11	7 (63.6)	4 (36.4)	
2.	Maharashtra	37	33 (89.2)	4 (10.8)	
3.	Orissa	8	8 (100.0)	0 (0.0)	
4.	Rajasthan	43	25 (58.1)	18 (41.9)	
5.	Tamil Nadu	39	22 (56.4)	17 (43.6)	
6.	Uttar Pradesh	86	81 (94.2)	5 (5.8)	
	Total :	224	176 (78.6)	48 (21.4)	

Table 9.17: Referral of diarrhoeal cases by sub-centres

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Figures in parentehsis are the percentages.

9.14 Maintenance of records of diarrhoeal patients under 5 years

In 58 per cent of the sub-centres the records in respect of diarrhoeal patients under 5 years are maintained (Table 9.18). Table also shows that the maintenance of records is much better in Tamil Nadu (82.1 %) followed by Uttar Pradesh (64 %) and Maharashtra (60 %). The situation in Orissa is still very bad as only 12.5 per cent of the sub-centres maintain records. Maintaining records about diarrhoea illness should be made compulsory because the magnitude of the diarrhoeal illness in different parts of the country can only then be assessed properly.

5.No.	State	No.of sub centres	No.of sub- centres maintaing records
1	2	3	4
1.	Haryana	` 11	4 (36.4)
2.	Maharashtra	37	22 (59.4)
3.	Orissa	8	1 (12.5)
4.	Rajasthan	43	16 (37.2)
5.	Tamil Nadu	39	32 (82.1)
6.	Uttar Pradesh	86	55 (64.0)
<mark>-</mark> -	Total :	224	130 (58.0)

Figures in parenthesis are percentages.

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CHAPTER 10

SUMMARY RESULTS OF SURVEYS OF HEALTH PROVIDERS and HEALTH FACILITIES*

10.1. Training

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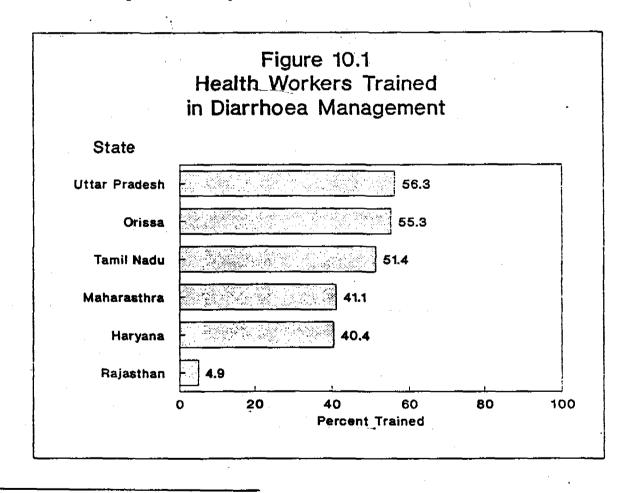
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Fewer than 60 per cent of the health workers (Figure 10.1) and 50 per cent of the medical officers (Figure 10.2) interviewed reported that they had received special training in management of diarrhoea. The level of training appeared to be lowest in the State of Rajasthan, where fewer than five per cent of the health workers and ten per cent of the medical officers reported that they had been trained.



* - Health Providers - health workers, medical officers, private practitioners and pharmacists - Health Facilities - large health facilities and sub-centres.

Figure 10.2 Medical Officers Trained in Diarrhoea Management State Maharasthra 44.4 Tamil Nadu 37.8 Uttar Pradesh 32.2 Haryana Orissa Rajesthan 9.5 40 80 100 0 20 60 **Percent Trained**

10.2. Assessment of diarrhoeal illness

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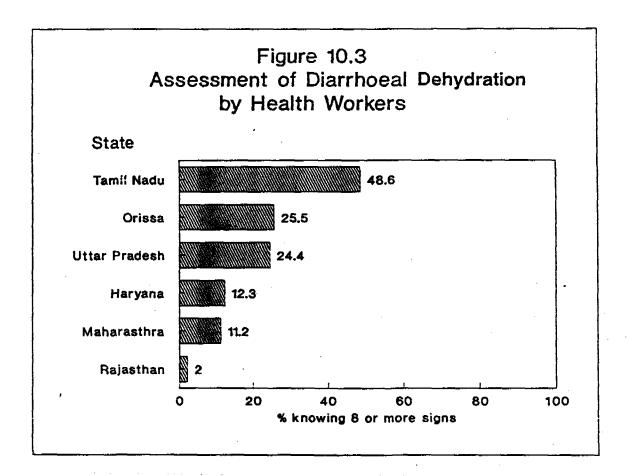
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Health workers, medical officers, and private practitioners were asked what steps they took to assess a child with diarrhoea; the responses to this open-ended question included both symptoms to inquire about in the history, such as thirst, and signs to look for during the examination, such as skin turgor and presence or absence of tears. Those medical officers and private practitioners who spontaneously mentioned eight out of the twelve signs and symptoms listed were considered to have answered the question correctly. However, in the case of health workers those who mentioned three out of six signs and symptoms listed were considered to have answered the question correctly.

Knowledge of eight or more signs or symptoms of dehydration on the part of the medical officers (Figure 10.4) was high, ranging from 86.5 per cent in Tamil Nadu to 67.7 per cent in Haryana. However, health workers' knowledge was found very poor (Figure 10.3); fewer than half of the 902 health workers interviewed in any State mentioned eight or more signs of dehydration, and in Rajasthan, the State which ranked lowest in this question, only two per cent of the health workers mentioned eight or more signs of dehydration. The overall

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performance of the private practitioners was also very poor (Figure 10.5); it was highest in Rajasthan, where 28.3 per cent of the practitioners could identify eight or more signs, and lowest in Tamil Nadu, where less than three per cent of the practitioners could answer correctly.



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(128) Figure 10.4 Assessment of Diarrhoeal Illness by Medical Officers State Tamil Nadu 86.5 Maharasthra 81.5 Orissa 78.8 14 Rajasthan 71.4 Uttar Pradesh 67.8 Haryana 67.7 80 0 20 40 60 100 % knowing 8 or more signs Figure 10.5 Assessment of Diarrhoeal Illness by Private Practitioners State Rajasthan 28.3 Maharasthra 23.2 Orissa 11.1 Uttar Pradesh 3.6 Haryana 3.4 2.9 Tamil Nadu 20 40 60 80 100 0 % knowing & or more signs

10.3. Estimation of ORS requirements

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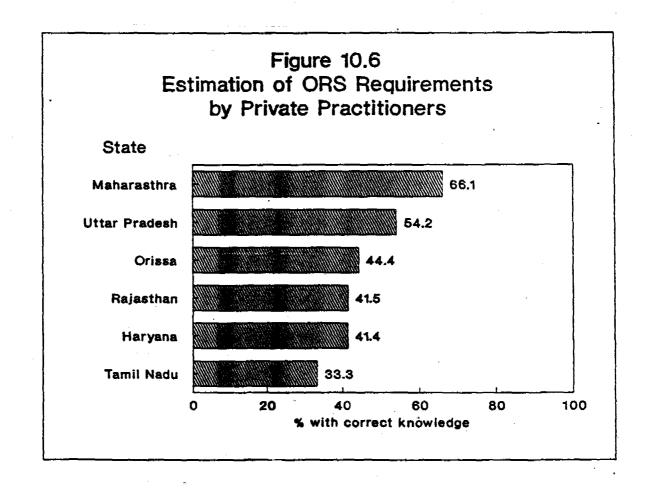
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Health workers, medical officers and private practitioners were asked to estimate how much ORS they would give to a one year old baby weighing seven kilograms with some dehydration during the first four to six hours of treatment. They were permitted to refer to a table or chart to answer the question if they wished. There were two correct answers to this question: "400-600 ml" or "as much as the child can take."

Maharashtra was the State which ranked highest in providing responses by medical officers (70.4%) (Figure 10.8) and private practitioners (66.1%) (Figure 10.6). In Haryana, the highest-ranking State among health workers, (59.6%) and Rajasthan (53%), the performance of health workers was superior to that of the medical officers (Figures 10.7 and 10.8).



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(130) Figure 10.7 Estimation of ORS Requirements. by Health Workers State taniitentiitentii Mataniitentii ٦ Haryana 59.6) Uttar Pradesh 56) Rajasthan 53) Maharasthra 51.4) Ì Orissa 42.6 Ć Tamil Nadu 41.9) 0 20 60. 80 40 100 % with correct knowledge)) Figure 10.8 Estimation of ORS Requirements by Medical Officers) State) Maharasthra 70.4 65.8 Uttar Pradesh Haryana 51.6 Ì

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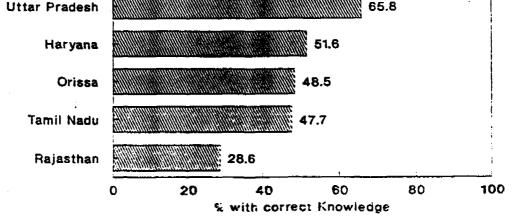
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10.4. Correct ORS preparation

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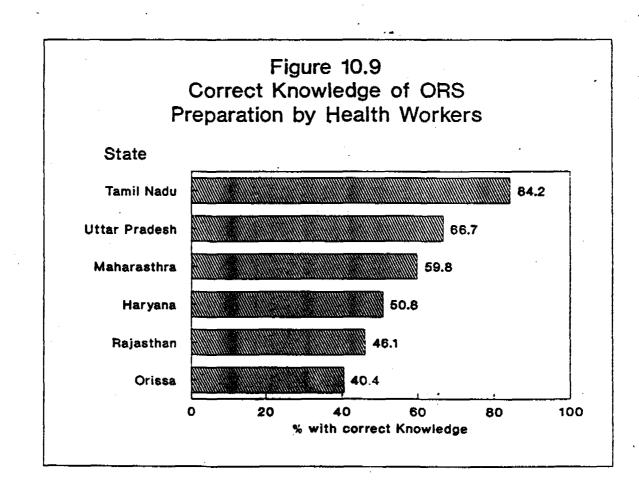
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Health workers were asked to demonstrate how to prepare ORS solution whereas medical officers were asked to demonstrate or explain how to prepare ORS solution, using the government brand (one litre packet) ORS. It was found that most of the medical officers only explained the preparation of ORS solution to the investigators. Private practitioners and pharmacists were asked to only explain preparation of ORS solution to the interviewer as they would explain to the mother of a child with diarrhoea. These providers explained how to prepare a commercial brand with which they were familiar; some of these brands are mixed with one litre of water while others call for mixing a glassful of ORS at a time.

Between 40.4 per cent and 84.2 per cent of health workers (Figure 10.9) and 44.4 per cent to 80.2 per cent of medical officers (Figure 10.10) knew how to prepare ORS correctly; Tamil Nadu was the State with the largest percentage of health workers, medical officers, and private practitioners (79.4%) answering this question correctly. In general,



(131)

private practitioners (Figure 10.11) and pharmacists (Figure 10.12) did not perform well on this question; in four of the six States surveyed (Orissa, Maharashtra, Uttar Pradesh and Haryana) fewer than 40 per cent of these providers could explain correctly how to prepare ORS.

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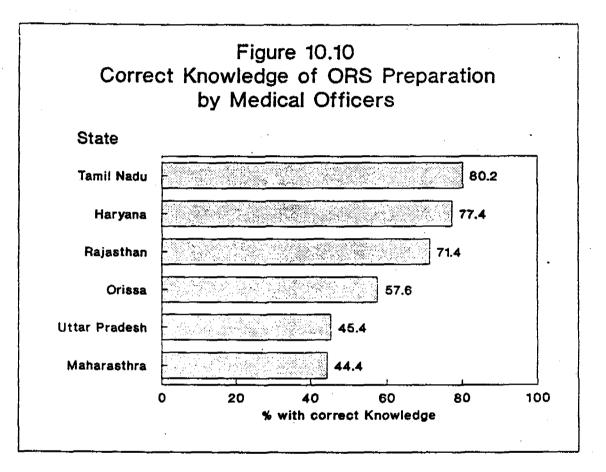
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(133) Figure 10.11 Correct Knowledge of ORS Preparation by Private Practitioners State 4 Tamil Nadu . 79.4 ٤ r) 56.6 Rajasthan) Haryana 37.9) Uttar Pradesh 35.5 16.7 Orissa Ì 3.6 Maharasthra) 20 40 60 80 100 0 % with correct knowledge Ŷ,) ſ) Figure 10.12 ł Correct Knowledge of ORS **.** Preparation by Pharmacists State Rajasthan 69.1 l Tamii Nadu 57.3 Haryana مرد مدرد. معدر مدرد . 34.8 ŧ Uttar Pradesh 27.7) Maharasthra 25) Orissa 22.2 ¢ > 0 20 40 60 80 100 ł S with correct knowledge

10.5. Feeding during diarrhoea

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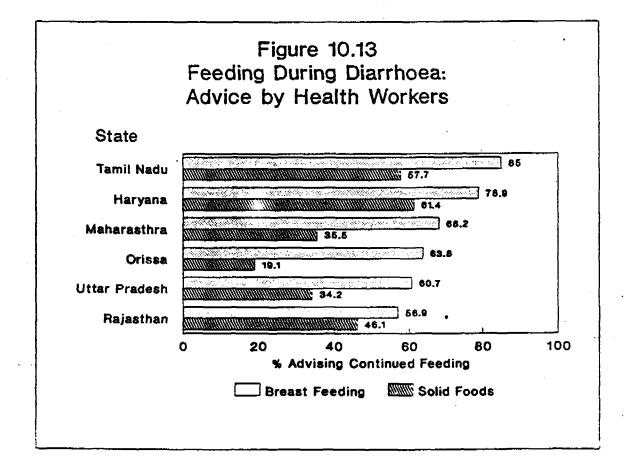
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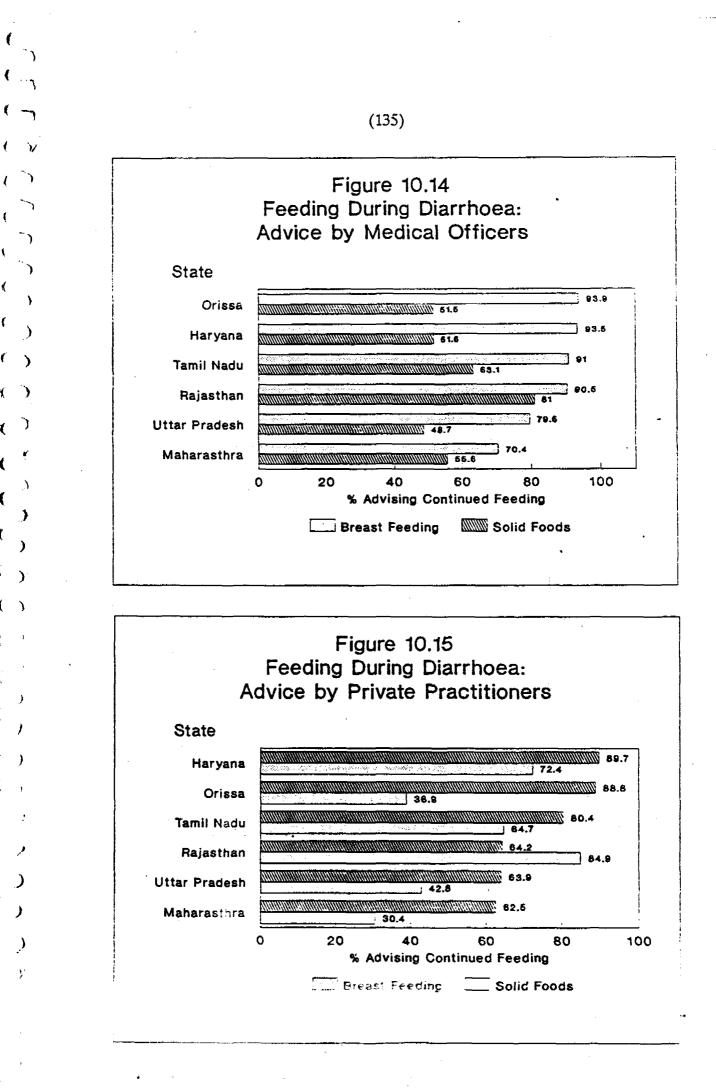
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a. <u>Continued Breastfeeding</u>. The percentage of medical officers (Figure 10.14) who say that they advise mothers to continue breastfeeding their children during diarrhoea is higher in every State than the percentage of health workers (Figure 10.13) advising continued breastfeeding. The percentage of private practitioners reporting that they advise continued breastfeeding ranges from 89.7 per cent in Haryana to 62.5 per cent in Maharashtra (Figure 10.15).

b. Continued Feeding. The percentage of medical officers and health workers advising continued breastfeeding is higher in every State than the percentage of these providers advising continued feeding during diarrhoea (solid/semi-solid foods). The rates of continued feeding did not correspond closely with the rates of continued breastfeeding in the six States. The percentage of health workers stating that they advocated continued feeding ranged from a high of 61.4 per cent in Haryana to a low of 19.1 per cent in Orissa. (It is interesting to note that Orissa is also the State with the lowest continued feeding rate in the household survey).





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10.6. Increasing fluids during diarrhoea

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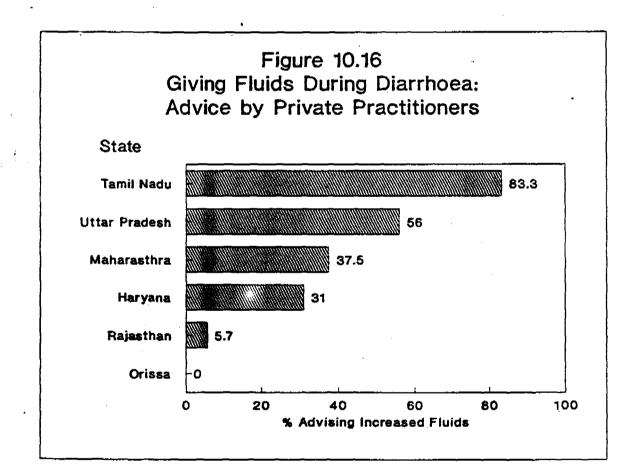
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Health workers, medical officers, and private practitioners were all asked if they advised mothers to give increased fluids when their children had diarrhoea. There was a wide variation in the pattern of responses to this question. Tamil Nadu was the State with the highest percentage of health providers stating that they advocated increased fluids; 67.2 per cent health workers (Figure 10.17), 88.3 per cent of medical officers (Figures 10.18), and 83.3 per cent of private practitioners (Figure 10.16) stated that they gave this advice to mothers. (It is surprising, therefore, to find that Tamil Nadu is the State with the lowest increased fluid rate in the household survey).

The State ranking lowest in response to this question was Orissa, where none of the 33 medical officers or 18 private practitioners interviewed said that they advised increase in fluids; only two of the 47 health workers interviewed in Orissa said that they gave this advice.



(137) Figure 10.17 Giving Fluids During Diarrhoea: Advice by Health Workers State Tamil Nadu 67.2 Maharasthra 47.7 Uttar Pradesh 47 Haryana 2.1 Rajasthan 36.3 Orissa 4.3 80 100 20 40 60 0 % Advising Increased Fluids Figure 10.18 Giving Fluids During Diarrhoea: Advice by Medical Officers State Tamil Nadu 88.3 Uttar Pradesh 67.1 Haryana 45.2 Maharasthra 44.4 Rajasthan 19 Orissa -0 0 20 40 60 80 100 V Advising Increased Fluids

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10.7. Case management of diarrhoea in the home

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Medical officers and private practitioners were asked what mothers should be told about treating diarrhoea at home in the future. Correct answers to this open-ended question were those which included all of the following: continued breastfeeding (or continued feeding, for older infants and children), giving increased fluids, and advice about when the mother should seek medical help (in case of blood in the stools, in case of dehydration, etc.). There was wide variation among the States in the responses to this question, but the pattern of responses was remarkably similar between medical officers and private practitioners within the same State. The State with the highest percentage of providers giving correct advice was Tamil Nadu, where 83.8 per cent of medical officers (Figure 10.19) and 73.5 per cent of private practitioners (Figure 10.20) mentioned all the three aspects of case management of diarrhoea in the home. The State with the lowest response rate was Rajasthan, where only 4.8 per cent of medical officers interviewed mentioned all the three aspects of case management.

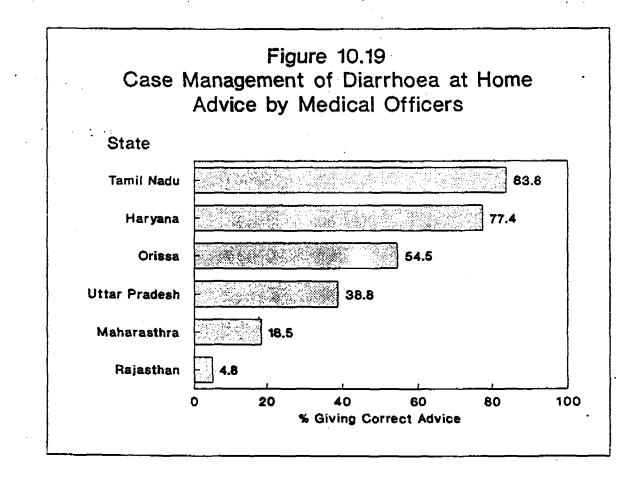


Figure 10.20 Case Management of Diarrhoea at Home Advice by Private Practitioners State Tamil Nadu 73.5 Haryana 69 Orissa 44.4 Uttar Pradesh 33.1 Maharasthra 12.5 Rajasthan Ö 60 80 100 0 20 40 % Giving Correct Advice

10.8. ORS supplies at health facilities

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Health facilities were visited by both sets of interviewers working on the survey; a sampling of medical colleges, district hospitals, community health centres and primary health centres was visited by the doctor-interviewers, while the more peripherally-located sub-centres, each of which serving on an average a population of 5000, were visited by the team of investigators alongwith supervisor who also conducted the household survey.

It is very difficult to generalize about the findings reported from the larger health centres (Figure 10.21), because they represent a mixed group of institutions, except to say that the States with reported shortages of ORS in large health facilities did not necessarily have shortages at the lowest units, i.e., the sub-centres (Figure 10.22). It is discouraging to note that the States with a large number of health facilities reporting chronic shortages of ORS - Orissa, Uttar Pradesh and Rajasthan - are States which manufacture ORS for commercial use.

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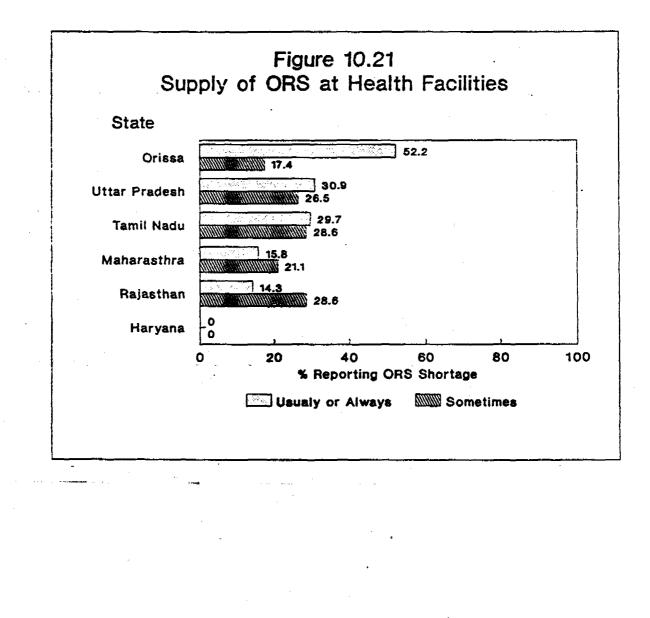
On the spot checking of ORS supplies at health centres during the survey showed that subcentres were more likely to have exhausted their stocks of ORS than larger health centres (Figure 10.23). Also the States reporting chronic shortages of ORS at health facilities and subcentres tended to be those that were also short of ORS on the day of the survey.

Surveyors found that larger health centres in two of the six States had a high percentage of damaged and spoiled packets (Figure 10.24): Tamil Nadu (87%) and Maharashtra (53%). Haryana was the only State with a large percentage of damaged or spoiled packets reported in sub-centres.

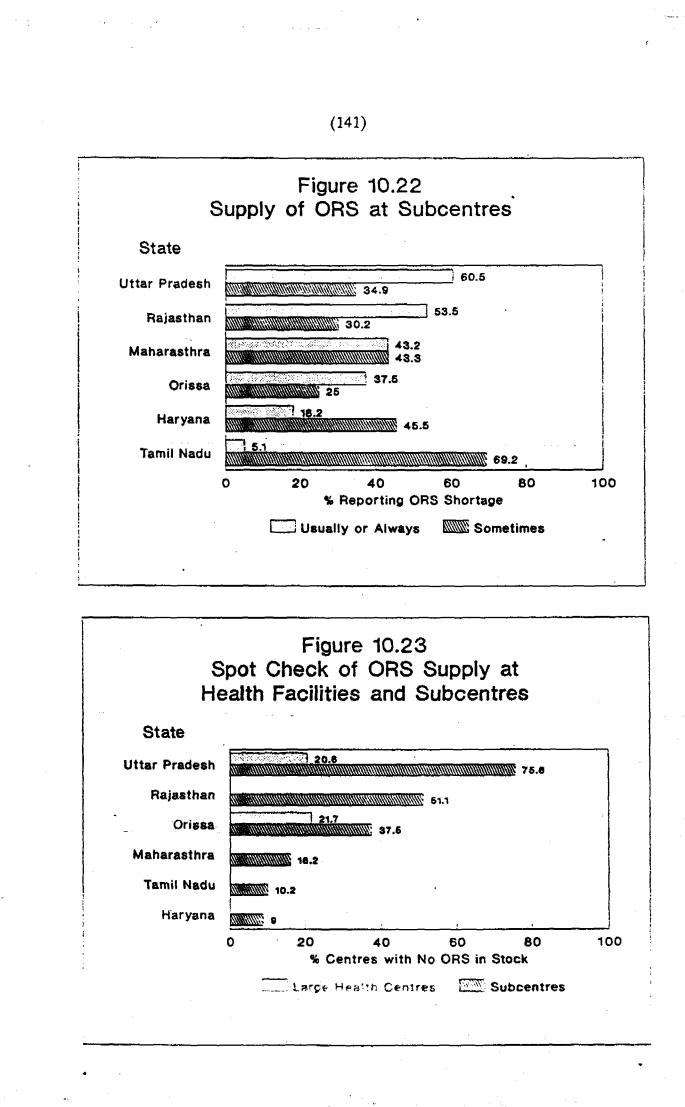
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(142) Figure 10.24 Storage of ORS Packets at Health Facilities and Subcentres State 59,3 Tamil Nadu 52.6 Maharasthra 10.8 39.1 Orissa 12.5 25 Uttar Pradesh 12.8 W 14.3 Rajasthan 13.9 o Haryana 63.6 O 100 20 40 60 80 % Packets Found Damaged or Spoiled Large Health Centres Subcentres

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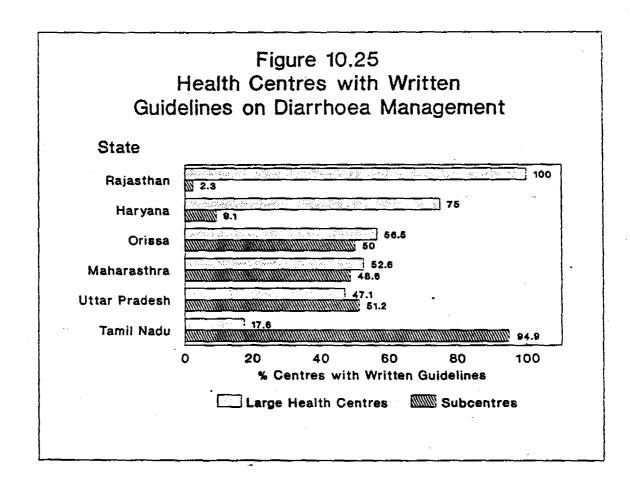
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The States that provided their large health centres with written guidelines were not necessarily those that supplied the guidelines to sub-centres; there was no State in which a high percentage of both heath centres and sub-centres were found to be having written guidelines. (Figure 10.25)



ANNEXURE 1

ESTIMATED DEATH RATES BY STATE FOR CHILDREN O-4 YEARS FOR THE YEAR 1984 FOR RURAL INDIA (IN DESCENDING ORDER)

	·	
STATE NAME	DEATH RATE	STRATA
	per 1000	
1. Uttar Pradesh	66.9	lst
2. Madhya Pradesh	58.7	2nd
3. Rajasthan	55.2	
4. Orissa	49.4	
5. Bihar	48.8	3rd
6. Gujarat	45.0	
7. Assam	41.4	
8. Harayana	40.4	4th
9. West Bengal	35.5	
	•	
10. Maharashtra	31.9	
11. Tamil Nadu	31.8	
12. Jammu and Kashmir	31.8	5th
13. Karnataka	31.1	•
14. Andhra Pradesh	29.9	
15. Himachal Pradesh	29.3	
16. Punjab	28.0	
17. Kerala	8.8	•
•		
ALL INDIA	46.2	

Source: S.R.S. of R.G.I.

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7. Total No. of Staff at different levels:

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Type of Staff	f Distt. Hospital				Dispensary		/ FHC		Total	
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-Nurses		· . ·	•	• •			-			
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-MFHW (Mal			•						•	

е. Total No. of cases of Diarrhoea in Children under 5 yrs. and No. of deaths in this age-group due to diarrhoea in the last 3 years:

Year		No. c	of case	5	No. of	Deaths	
1987-88		·					·
1786-87	· •	. <u> </u>	<u> </u>		•		
1985-86	· ·	•		. <u>.</u> .	- -		<u> </u>
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Note:- If these data are not available. state reasons for nonavailability, would it be possible to collect this? •

Note: - Collect the data available for the population as a whole if data for under 5 children is not available.

9. ORT Training

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<u>ii)</u>	Which brand	of ORS is	being use	d?		· · ·
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1 (150)1.72 According to you what are the five major bottlenecks in 13. - **3**. carrying out this programme in your state? $\gamma \nu$ _____ 14. What are the five major remedial measures would you suggest to overcome these problems? ____ _____ ()) Name of Interviewer 7 Signature of Interviewer _____ ý Date of Interview _____ 1 Checked by _____ Date of checking _ ۲) Σ)

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* ••••	<u>Annexure-2</u>
< ^;-	(151)
1 5	SCHEDULE-2
177	Time Now: Date:
(COUNCIL FOR SOCIAL DEVELOPMENT 53 Lodi Estate, New Delhi-110003
K	REVIEW OF ON GOING ORT PROGRAMME
('')-	SPONSORED BY MINISTRY OF HEALTH AND FAMILY WELFARE AND WHO
	SCHEDULE FOR MEDICAL OFFICER: MEDICAL COLLEGE/DISTRICT HOSPITAL/ TALUKA HOSPITAL/CHC/PHC/DISPENSARY
()	3 1. State Name : 1. Haryana 2. Maharashtra 3. Orissa 4. Rajasthan 5. Tamil Nadu 6. Uttar Pradesh
€ 3	4 2. District Name :
< ¹	6 3. Block Name :
· · · · ·	8 4. Type of Health Facility :
1 3	1. Medical College Hospital 2. District Hospital
	3. Taluka Hospital4. CHC5. PHC (Block Level)6. 30,000 PHC (Additional PHC)
• 7	7. Dispensary 8. Other (Specify)
(5. Name and Address of Health Facility
C	9 6. Name of Medical Officer
∦	11 6.1. Age
्रि	13 7. Have you been trained in 1. Yes 2. No
	management of diarrhoea?
()	(If yes)
()	14 7.1. When?
	16 7.2. Where? 1. District level 2. HFWTC
1 .J	3. Other (Specify)
्रि	17 7.3. How many days' training
• >	19 7.4. Type of training:
()	 Theory only Theory and hands on training Theory and case demonstration
× ;;	-
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	(152)	
• • • • •	8. Ask the following open-ended questions. Do not read the	
•	responses given below. Encircle appropriate response codes only	۱
	when the respondent mentions any of these symptoms and signs.	
• •	8.1. If a child is brought to you with the complaint that he or she has diarrhoea, how do you assess the patient?	
e c	8.1.1. What do you ask about?	
• •	20 1. Diarrhoea (Stools/day)	
	21 2. Vomiting	
• • • •	22 3. Thirst	
• ()	23 4. Urine	
	8.1.2. What do you look for when you examine?	
• •	24 1. Condition of child	
	25 2. Skin pinch	:
• • 5	26 3. Sunken eyes	
• 6	27 4. Mouth/Tongue (dry or wet)	
•	28 5. Tears present or absent	
	29 6. Pulse rate	
• •	30 7. Fontanelle sunken	
• • • • • • • • • • • • • • • • • • •	(in infants)	
• •	31 8. Respiratory rate	
• .	8.1.3. What else do you do?	
	32 1. Take temperature	•
•	33 2. Weigh if possible	
	34 3. Check measles immunization status	
$\mathbf{\Phi} = \mathbf{\Phi} = $	35 4. Other (specify)	
• •	36	
	37	•
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1 7	(153)
()	
•)	9.1. How do you treat a child with diarrhoea who is not dehydrated?
()	the most the responses given below. Encircle appropriate
(\cdot)	option(s) only when mentioned by the respondent).
,)	
)	38 1. ORS
*)	39 2. S.S.S.
1	40 3. Other Home Fluids (specify)
)	41 4. Continue Breast feeding
)	42 5. Continue Solid Foods
()	43 6. Drugs
	44 7. No Treatment
()	45 8. Other (specify)
	46
*)	47
(9.2. How do you treat a child with diarrhoea who has some
)	dehydration? (Do not read the responses given below. Encircle
•••	(Do not read the responses grounded by the appropriate option(s) only when mentioned by the respondent).
K)	
()	48 1. ORS
, ,	49 2. S.S.S.
()	50 3. Other Home Fluids (specify)
t ;	51 4. Continue Breast Feeding
()	52 5. Continue Solid Foods
···)	53 6. Drugs
≇)	54 7. No Treatment
< >	55 8. I.V. Therapy
ر)	56 9. Other (specify)
, j)	57
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• 5		
•	(154)	
● 5 ● 5	9.3 How do you treat a child with severe dehydration?	
• •	(Do not read the responses give appropriate option(s) when me respondent).	en below. Encircle entioned by the
• • 59 ·	1. Admit for IV and ORT	·,
60	2. Admit for IV only	
	3. Refer with IV in transit	
	4. Refer with ORT in transit >	
	5: Refer without IV or_ORT in trans	sit
1 , 64	6. Other (Specify)	
65		<u> </u>
	10. How do you mix ORS? (Respondent should	ld be requested to
Paris and the second	demonstrate preparation of ORS, if possi)	ble)
	Check following items: Ye	es No' * Remarks by
)`		the Investi- gator
) 66	i) Demonstrated	1 2
67	ii) Clean container used/mentioned	1 2
68	iii) Clean water used/mentioned	1 2
69	iv) Correct amount of water	
		1 2
(² 70	v) Entire packet used/mentioned	1 2
71	vi) ORS completely dissolved-seen/	1 2
	mentioned	• •
72-	10.1. If the litre measure is not availa you give for the preparation	
76	· · · · · · · · · · · · · · · · · · ·	n an
78		
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		(155)
• *?	11.	Could you please tell me, what are the ingredients of ORS?
• • •	80	1. Glucose
	81	2. Sodium
	• 82	3. Potassium
	83	4. Bicarbonate/tricitrate
	84	5. Others (specify)
✓ ('	85	
• 5	12.	How much ORS would you give to a 1 year old 7 kg baby with some dehydration during the first 4-6 hours of treatment?
• · · · •	36	1ml
	90	2. As much as child will take
• • • •		3. Any other (specify)
• •		9. Don't know
• •		
• · · · · · · · · · · · · · · · · · · ·	91 12	1.1 (If answered in ml) Are any guidelines used to calculate the amount?
• • • •		1. Yes 2. No 9. Not Applicable
• • •	92 12	.2 (If yes) What guidelines were used?
• •		1. WHO
•		2. National Diarrhoea Programme
. د 🕻 🔿	•	3. Personal
€		4. From Training Programme
• • •		5. Other (Specify)
• • •		9. Not Applicable
•••	13.	Do you decide how much IV fluid should be given to a child?
• <u>```</u> ``	93	1. Yes 2. No
د ب		(If No. Go to Q.No.14)
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* ~	(156)
	13.1 How much IV fluid would you give to a 1 yea: old 7 kg baby with severe dehydration during the first 3 hours of treatment?
94	1ml 2. Don't know
	98 3. Other (Specify) 9. Not Applicable
	13.2 (If answered in ml) Are any guidelines used to calculate the amount?
)) ()	99 1. Yes 2. No 9. NA
1)	13.3 (If yes) What guidelines were used?
	100 1. WHO 2. National Diarrhoea Programme
	3. Personal 4. From Training Programme
	5. Others (specify)
	14. Do you refer dizrrhoea cases to any other hospital?
	101 . Yes 2. No
, €,	14.1. (If yes) What are the reasons for referral?
	102
	103
	126 1 15. When do you give drugs for a diarrhoea patient under 5 years
*	Name of Drug Indication
, 36	
▶ K _y	
73	
-	

16. In your opinion what advice should be given regarding feeding <u>during diarrhoea</u> and <u>after diarrhoea</u> in a child under 5 years?

16.1. During Diarzhoea (Read out all Items below one by one)

	Item	· · · · · · · · · · · · · · · · · · ·	Stop	Decre- ase	Conti- nue as usual	Incre- ase	Other (Specify)
1.	Breast :	feeding	1	2	3	4	· · · · · · · · · · · · · · · · · · ·
2.	Bottle :	feeding	1.	2	3	4	
3.	Other f	lui ds	1	2	3	4	
4.	Solid fo	eeds	1	2	3	4	

16.2. After Diarrhoes

(Read out all items below one by one)

Item	Decrease	Continue as usual	Increase	Other (Specify)
1. Breast feeding	1	2	. 3	
2. Bottle feeding	1	2	3	
3. Other fluids	1	2	3	
4. Solid feeds	1	2 · ·	3	

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17.	What advice should be given to mothers about preventing diarrhoea in future?
	(Do not read the responses given. Encircle appropriate option(s) only when mentioned by the respondent).
49 .	1. Drinking water should be boiled/clean
50	2. Wash hands (with soap) after defaecation
51	3. wash hands (with sozp) before food preparation
52	4. Keep food covered
53 .	5. Keep food preparation area clean
54	6. Use latrine for defaecation
55	7. Immunize child for measles
56	8. Other (specify)
57	
58	·
18-	What should mothers be told about treating diarrhoes at home in future? (Do not read the responses given. Encircle appropriate option(s) only when mentioned by the respondent).
59	1. Give more fluids
60	2. Continue breastfeeding (For infants)
61	3. Continue solid foods
62	4. Look for signs of dehydration
63	5. Look for blood in stools
64	6. Seek medical help immediatelý
65	7. Give ORS
66	8. Other (specify)
67	
68	
	completed:
	of Investigator:
Signa	ture of Investigator:
Checi	ked by: Date of Checking:

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• τ	(159)		Annexure-2
● €,			SCHEDULE-
			JOINEDOLL
• • •	Time Now:	Date:	
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	COUNCIL FOR SOCIA 53 Lodi Estate, Nev		т
	REVIEW OF ON GOING	ORT PROGRAMME	
	SPONSORED BY MINISTRY OF HEALTH	AND FAMILY WELFARE	AND WHO
• • • • •			
• •	SCHEDULE FOR HEALTH W	ORKER (PARAMEDI	CAL)
	1 0 3		
• • •			
•	3 1. State Name: 1. Haryana 2. Mal 4. Rajasthan 5. Tau	harashtra 3. Oris mil Nadu 6. Utta	sa 11 Pradesh
• •			
• C´	4 2. District Name :		
•) • f			
P 7 1			
• C.,	6 3. Block Name :		
• •			
	8 4. Type of Health Facility:		
 <!--</th--><th>1. Medical College Hospital 2.</th><th>District Hospital</th><th></th>	1. Medical College Hospital 2.	District Hospital	
	3. Taluka Hospital 4.	CHC	
		30,000 PHC (Addition Others (Specify)	
• C .		· · · ·	
	4.1. Name & Address of Health Facili	ty:	
	9 5 Sub-Centre Name	. •	
	9 5. Sub-Centre Name :		
		· · •	
	11 6. Name of Health Worker		
Di j			
			•
•	14 6.1. Age of Health Worker		
		-	
	16 7. Type of health worker (Designation	a)	
- 1			
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	and the second		
•			•

If a child is brought to you with diarrhoea what questions do 8. you ask about the diarrhoeal illness? (Do not read the responses given below. Encircle appropriate response code only when the respondent mentions any of these symptoms and signs) यदि आपके पास दस्त से बीमार बच्चा लाया जाये तो आप दस्तों के वारे में क्या प्रश्न पृष्ठते हैं (कृपया नीचे लिखे उत्तर न पदें । केवल उत्तरदाता द्वारा वताये नये उत्तरों को ही घेरें के चिन्ह से घेरे) 1. Duration of diarrhoea दल्त की अवधि 2. No.of stools in 24 hrs 24 घन्टों में दस्तों को संख्या 3. Colour of stool or bloody stool दस्त का रंग/खनी दस्त 4. Consistency of loose or watery stool लगातार पतली/पनी जैसा.टस्त 5. Child has fever जण्चे को दाखार 6. Child has other illness वच्चे को अन्य टूसरा रोग 7. Other (Specify) जन्य (स्पर्ध्ट करे) 9. Some children get dehydrated during diarrhoea. Do you ask the mother any questions to help you decide if the child is dehydrated? मुछ बच्चों को दस्त लगने से शरीर में पानों को कनों हो जाती है क्या आप माँ से कुछ ऐस प्रश्न पूछते हैं जिनके द्वारा आपको निर्णय लेने में मदद मिले कि बच्चे में पानी को कमी हो गयी है ? 1. Yes 2. No

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	9.1 (If yes) What questions do you ask?
	(Do not read the responses given below. Encircle
	appropriate response code only when the respondent
	mentions any of these responses)
•	(यदि हाँ) आप क्या प्रश्न पूछते है ?
	(कृपया उत्तर न पढे । उत्तरदाता द्वारा बताये गये उत्तरो को ही घोरें के चिन्ह से घेरें)
	29 1. No.of stools per day
	प्रतिदिन दस्तौं की संख्या
	30 2. Amount of vomiting
• E .	उल्टी की मात्रा 31 3. Thirst (is child
	demanding water frequently)
	भ्यास (नय बच्चा पानी जल्दी-जल्दी मांगता है
• • · ·	32 4. Decreased or no urine प्रशास नहीं या कम हो गया
	33 5. Other (Specify)
• • •	अन्य (स्पष्ट करें)
•	34
	35
	10. What do you look for when you examine the child to help you
•••	10. What do you look for when you examine the child to help you decide if he/she is dehydrated?
•	(Do not read the responses given below. Encirle appropriate
• • • • • •	response code only when the respondent mentions any of
• ty	these responses) जब आप बच्चें की जांच करते हैं तो आप क्या देखते हें
	जिससे कि आपको यह फैसला करने में सहायता मिलता के कि
	बच्चें में पानी की कमी हो गयी है
• ((कृपया उत्तरदाता द्वारा बताये गये उत्तरों पर ही घेरें के चिन्ह से घेरें) 36 1. Child drowsy/listless
	यच्या सुस्त/अर्थ चेतन है
<u> </u>	37 2. Absence of tears जाखे में पानी की कमी
	38 3. Sunken eyes
• • •	भर्ता हुई आंखें
•	39 4. Dry mouth/tongue
•••	सुखा मुह या जुवान 40 5. Rapid breathing
	अल्दी-जल्दी सांस
	41 6. Skin pinch goes back slowly
• •	चमडी खोंचनें पर घीरे धीरे वापिस जाना 42 7. Rapid pulse
	नाडी का तेन चलना
	43 8. Fontanelle sunken
	भंसा हुआ तादाू (सिर के ऊपर का हिस्सा) 44 9. Other (Specify)
	जन्म (स्पण्ट करें)
• (45
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	11. What	t advice do you give the mother when you see a child with
	dia: (D) a) जाप	rrhoea and there is no dehydration?
	(শাৰ্च	वे दिये गये उसार न घढ़ें। कंवल बताये गये उत्तरों को ही घेरे के चिन्ह से घेरे)
47] 1.	Advice on ORT ओ. आर. टी. की सलाह
48	2.	Advice on home fluids (increase amount, frequency, type of fluids) घरु पर प्राप्त तरल पदार्थ (मात्रा चढाये, बार-चार दें, तरह-तरह के तरल पदार्थ दें)
49	3.	Advice on diet (continue feeding, type of food) खाने-पीने की सलाह (ख़ाना चालू रखना, किस तरह का खाना देना)
50	4.	Advice to give extra food after diarrhoea stops दस्त बन्द हो जाने के बाद और मोजन देने की सलाह।
51	5.	Continue breast feeding माँ का दूध बराबर पिलाते रहें
52	6.	Advice on proper weaning practices खान-पान में सफाई रखने की ललाह
53	7.	Advice on when to bring child back (signs of dehydration) यानी की कमी के लक्षण नजर आने पर बच्चे की ट्रवार लाने की सलाह
54	8.	
55	9.	Other (Specify)
56	4	
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 <!--</td--><td>- (Do r resp</td><td>to you treat a child with diarrho not read the responses given belo ponse code only when the responde ponses)</td><td>w. Encircle appropriate</td>	- (Do r resp	to you treat a child with diarrho not read the responses given belo ponse code only when the responde ponses)	w. Encircle appropriate
()	वच्चे	दस्त से पीड़ित तथा पानी की मामुली कमी से का किस तरीके से इंलाज करते हैं ? ब उत्तर न पढे)	पीड़ित
		. Send home with ORS ओ. आर. एस. के साथ घर भेजना	
(2.	. Detain for ORT at least for or ओ. आर. टी. के लिये कम से कम एक	
С.; С.;	3.	Refer अस्पताल भेजना	
. (→	4.	Admit মর্বা কর্না	
0	5.	Other (Specify) अन्य (स्पष्ट करें)	·
C)	सच्चे	you decide how much ORS should be को कितना औ. आर. एस. देना चाहिए, इसका निर्णय आप स्वयं लोते है ? 1. Yes 2. No	e given to a child?
	(If	No, Go to Q.No.14)	· .
	b	(If Yes) How much ORS would you g aby with some dehydration during reatment?	
к Х	3	परि हाँ) एक वर्ष का घट्या जिसका वजन 7 गैर जिसको मामुली पानी की कमी हो गयी है. लान में कितना ओ. आर. एस. घोल देगें?	किलो है उसे 4-6 घन्टे के
61	1.	ml	
С.,) С	65 2.	An much as child will take उतना जितना बच्चा ले सके	·
		Any other (Specify) अन्य (स्पष्ट करें)	
	9.	Don't know ज्यनकारी नहीं	
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* ,	
	13.2 (If answered in ml) Are any guidelines used to calculate
	the amount?
	(यदि उत्तर मि. ली. मे) ओ. आर. एस. कितनी मात्रा में देना है
·	क्या इसके लिये आप किसा मार्ग-दर्शिका/तालिका का प्रयोग करते हैं ?
• • • • · · · · · · · · · · · · · · · ·	- -
66	1. Yes 2. No 9. Not applicable
• • • •	
	13.3 (If yes) What guidelines do you use?
· ·	(यदि हाँ) आप किसका चनाई म दर्शिका/तालिका का प्रयोग करते हैं ?
67	1. WHO
•	विश्व स्वास्ध्य संगठन
-	2. National Diarrhoea
👝 🤇 Y	राष्ट्रीय डायरिया
A 1 - 1 A 1 - 1	3. Personal
•	ब्यक्तिगत
•	4. From Training Programme
	प्राराधिण सामग्री से (प्रोग्राम)
• . C	
	5. Other (Specify)
	अन्य (स्पष्ट करे)
• J	
	9. Not applicable
· • · · · · · · · · · · · · · · · · · ·	लागू नहीं
• • • •	14. What do you do with a child with diarrhoea having severe
	dehydration?
	(Do not read the responses given below. Encircle appropriate
	response code only when the respondent mentions any of these
	responses)
• •	ज़ब बच्चे के झरार में काफी पानी की कमी हो जाती है
	तो उस हालत में आप क्या करते हैं ? (उत्तरों को न पद)
68	1. Admit for IV and ORT
• • • • • • • • • • • • • • • • • • •	1. Admit for IV and ORT आई. दी. तथा ओ. आर. टी. के लिये भर्ती
	_
	_
	आई. दी. तथा ओ. आर. टी. के लिये भर्ती
	आई. दी. तथा ओ. आर. टी. के लिये भर्ती 2. Admit for IV only केवल आई. वी. के लिये भर्ती
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ť	_, ,		1	5. Do you decide how much IV fluid should be given to a child? बच्चे को फितना आई. दी. धोल देना चाहिए, क्या इसका निर्णय आप स्वयं लोते हैं ?
t t			69	1. Yes 2. No 3. Others (Specify)
ť				(If No, Go to Q.No.16)
({ {	3 - - -			15.1 (If yes) How much IV fluid would you give to a 1 year old. 7 kg baby with severe dehydration during the first 3 hours of treatment? एक वर्ष का बच्चा, जिसका वजन 7 किलो है और जिसमें पानी का काफो कम्मी हा गया है उसे पहले तान घन्टों के इंलाज में, आप कितना आई. दी. घोल देगें ?
(70		1ml
(<u>► — , , , , , , , , , , , , , , , , , , </u>	74	2. Don't know
¢	,			3. Other (Specify)
¢) S			9. Not applicable
(((\$ Y		75	 15.2 (If answered in ml) Are any guidelines used to calculate the amount? (यदि उत्तर मि. लो. में) आई. वी. घोल कितनी मात्रा में देना है कितनी से प्रांग करते हैं ? क्या इसके लिये आप किसी मार्ग-दर्शिका/तालिका का प्रयोग करते हैं ? 1. Yes 2. No 9: NA 15.3 (If yes) What guidelines do you use? (यदि हाँ) आप किसको बनायी मार्ग-दर्शिका/तालिका का प्रयोग करते है ?
(•	76	1. WHO दिश्व स्वास्थ्य संगठन
(· .			2. National Diarrhoea राज्द्रीय डायरिया
к. 	•			3. Personal व्यक्तिगत
L	;			4. From Training Programme प्रसिधण कार्यक्रम से
L				5. Other (Specify) अन्य (स्पण्ट फरे)
Ĺ			7	9. NA
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16. Do you ever give drugs for a diarrhoea patient under 5 years? दस्त लगे पॉंच दर्ष के बच्चे को क्या आप कोई दया देते हैं ?

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(If No, Go to Q.No. 16.2)

2. No

1. Yes

16.1 (If yes) Which diarrhoea cases do you give drugs?
(Do not read the responses given below. Encircle appropriate response code only when the respondent mentions any of these responses). Write name of drug(s) recommended in column next to circled answer.
(यदि हों) किस तरह के दस्त में आप दवा देते हैं ? (नीचे दिये गये उत्तरो को न पढे, जिन उत्तरो पर निशान लगाये, कृपया यदि दवा दी गयी हो तो उसके सामने दवा का नाम भी लिखे)

Name of Drug

1. Bloody diarrhoea 78 खुनी दस्त 2. Watery diarzhoea 86 पतली दस्त 3. Persistent diarrhoea 94 न रूकने वाले दल्त 4. Depends on stool sample 102 टही के नमूने के आधार पर 5. Cholera (suspect) 110 हैंजे की रांका 6. Second diagnosis 118 requiring drugs ट्सरी जाँच मे ददा को आदश्यकता 14 7. All cases of Diarrhoea सब प्रकार के दस्तों ने 8. Other (Specify) 22 अन्य (स्पण्ट करें) 9. Not Applicable 30

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e Cui		(167)			
• •		16.2. (If No to Q.No.16) Please spec कृपया कारण स्प		reasons	
	38			<u> </u>	-
	40		- <u></u>	<u></u>	-
			•		
		17. Please show me how you prepare ORS? demonstrate preparation of ORS) कृपया आप औ. आर. एस. घोल बना कर दिखायें।		pe redne	sted to
	-	Check following items :			
			Yes	In	marks the vest- ator
) () (42	(i) Clean water used साफ पानी प्रयोग किया	l	2	
	43	(ii) Clean container used स्वच्छ चर्तन प्रयोग किया	1	2	
	44	(iii) Entire packet used पूरा पैकेट प्रयोग किया	l	2	
) 	45	 (vi) ORS completely dissolved ओ. आर. एस. पूरी तरह घुल गया 	1	2	
	46 *R 47	(v) Were the Respondent's hand clean कया उत्तरदाता के हाथ स्वच्छ घें	1	2	
i k	•	(NOTE FOR THE INVESTIGATOR: POUR THE SOLUT: CONTAINER AND RECORD THE QUANTITY OF FLUID)		YOUR ME.	ASURINU
•	49	17.1. Quantity of fluid measured by the Investigator(ml.)			
	· · · · · · · · · · · · · · · · · · ·	17.2. If the litre measure is not availab give for the preparation of ORS sol यदि लोटर-सापक बार्टन नदी है जो आग ओ आग	lution?		do yo r
K	53	यदि लॉटर-मापक बर्तन नहीं है तो आप ओ. आर तैयार करने के लिए पानी मापने की क्या सलाह रे	रगे ?		
((·			<u>, </u>	
			•		
6					
					-

13. In your opinion, what advice should be given regarding feeding <u>during diarzhoea</u> and <u>after diarzhoea</u> in a child under 5 years.

 पाँच वर्ष से कम उम्र के बच्चे को <u>दस्त लगने के दौरान</u> तथा

 दस्त लगने के बाद आप खान-पान के बारे में क्या सलाह देगें ?'

18.1 During diarrhoea

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दस्त के दौरान (एक के बाद एक पढ़ें) एक के बाद एक पढ़ें (Read out items one by one)

Item	Stop	Decre- ase	Conti- nue as usual	Incre- ase	Others (specify)
Breast feeding स्तन-पान कराना/माँ का	ा दूध	2	3	4	
Bottle feeding बोतल का दूध देना	1	2	3	4	
Other fluids अन्य तरल पदार्थ	1	2	3	- 4	
Solid feeds ठोस तरल पदार्थ	1	2	3	4	

18.2 After diarrhoea दिला लगने के बाद एक के बाद एक पहें (Read out items one by one)

Item	Decre- ase	•	Incre- ase	Others (specify)	
Breast feeding स्तन-पान कराना/भौँ का	1 दूघ	2	3		
Bottle feeding योतल का दूध देना	1	2	3		
Other fluids अन्य तरल पदार्थ	1	2	3		
Solid feeds ठोस तरल परार्ध	1	2	3		

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19. Did you receive any special training in management of diarrhoea?

क्या आपने दस्त की बीमारी के उपचार संबाधित कोई विरोष ट्रेनिंग/प्रशिक्षण प्राप्त किया है ?

65	1. Yes 2. No
	(If Yes):
66	19.1 What course ? When? कोन सा पाठ्यक्रम कदा
69	- 19.2 How long was the course? पाठ्यंक्रम कितने समय का धा?
71	19.3 Approximately how many cases of diarrhoea did you manage during the course? प्रदिक्षण के दौरान आपने दस्त से पीडित कितने बच्चो की देख-रेख की ?
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Date of Interview:	
Name of Investigator:	Signature:
Checked by:	Signature:
Date of checking:	n an an an Arthur an Arthur an Arthur an A
Time finishing : T	ime taken for interview:

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Annexure

SOHEDU

COUNCIL FOR SOCIAL DEVELOPMENT

53 Lodi Estate, New Delhi-110003

REVIEW OF ON GOING ORT PROGRAMME.

SPONSORED BY MINISTRY OF HEALTH AND FAMILY WELFARE AND WHO

SCHEDULE FOR ASSESSMENT OF SUPPLIES AND FACILITIES

3	1. State Name : 1. Haryana 2. Maharashtra 3. Orissa 4. Rajasthan 5. Tamil Nadu 6. Uttar Pradesh
4	2. District Name :
6	2.1. Block Name :
8	3. Type of Facilities : 01. Medical College 02. Infectious Dieseases Hospital 03. District Hospital
	.04. Dispensary 05. Taluka Hospital 06. CHC
	07. PHC (Block Level) 08. PHC 30,000 (Additional PHC)
	09. Private Nursing home 10. Other (Specify) :
10	3.1. Name and Address of Facility:
•	
·	4. Name of Respondent:
13	4.1. Age of Respondent:
15	4.2. Designation of Respondent:

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	5 <u>Faci</u>	lities		Yes	No	
16	5.1	Is there an ORT corner (separea where mothers can sit practise ORT under supervis	and	1.	2	
		(If No, go to 5.2)				
17	5.1.1	Is there adequate space in treatment area?	the	2	2	
18	5.1.2	Is there sufficient furnity giving Oral Rehydration The		1	2	
19	5.2	Are there facilities for m to wash hands?	others.	1	2	
20	5.3	Are there latrines for pat.	ients?	1	2	
		ipment/Supplies 9 for N.A.)	Never	Some- times	Always or most times	NA
21	6.1	Do you ever run out of ORS packets/or ORS ingredients		2	3	—
	6.2	If there is an ORT corner, you ever run out of:	do			
22		- Cups?	l	2	3	9
23		- Spoons?	1	2	3	9
24 🗌		- Measuring and mixing utensils?	1	2	3	9
	6.3	If facility provides Intra- Therapy, do you ever run out				
25 🗌		- I.V.Fluids		2	3	9
26 🗌		- Infusion sets?	1	2	З	9
27	€.4	Do you ever run out of stationery for record-keep:	ing? 1	2	. 3	
28	£.5	If facility receives health education material on diars do you ever run out of such accelerate part field	choeε,	2	3	ç

7. Are anti-diarrhoeal drugs used at your health facility? 29 1. Yes 2. No 7.1. (If Yes) please specify the drugs: 30 32 1._____ 2.____ 34 36 3.____ 4. 38 5._____ 6. 40 42 44 8. What are the I.V. fluids used in your hospital 46 for treating Diarrhoeal dehydration? (Specify)___ 48 50 52 54 9. Is there a weighing scale that works? 1. Yes 2. No 55 10. Does the facility have written guidelines for assessment and treatment of diarrhoea/dehydration 1. Yes 2. No ' 56 10.1 (If yes) Please show me the 1. Shown 2. Not shown_ guidelines? 57 11. Check if ORS/ ORS ingredients 1. Properly 2. Improperly are stored properly 3. Others (Specify) _____ 58 11.1 Check if there are any damaged 1. None 2. Some
 or spoiled ORS packets/ORS 3. All ingredients in the Store 4. Others (Specify) 12.<u>Staff</u> 59 12.1 Is there sufficient number of ____ staff to handle diarrhoea cases? 1. Yes 2. No 13. Referral (in case of facility categories 4 to 9 in Q.No.3) 60 13.1 Do you refer cases of diarrhoea? l. Yes 2. No 61 13.2 (If yes) Are there any problem with referral 1. Yes 2. NO 9. NA

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62 3 13.3 (If yes) Specify the problems 64 66 14. Do you have Health Education Material on ORT? 1. Yes 2. No (If yes) 67 14.1 (a) Are they displayed? 1. Yes 2. No 9. NA 68 14.2 (b) Are they distributed to patients? 1. Yes 2. No 9. NA FOR QUESTION NOS. 15 TO 17 - PLEASE REFER TO THE RECORDS AT THE FACILITY AND RECORD THE FOLLOWING INFORMATION FOR THE LAST 12 CALENDER MONTHS - (WRITE DOWN THE EXACT PERIOD • 69 15. Total no. of cases seen ____ 741 ŧ 15.1 Total no. of cases under 5 years _____ 79 16. Total no.of cases of diarrhoea seen ____ 3.4 16.1 Total no.of cases of diarrhoea under 1 i. 5 years 88 17 Total no.of diarrhoes cases in which ORS was used 921 17.1 Total no. of diarrhoes cases in which IV fluids were used? 95 17.2 Total nc. of diarrhoea cases in which drugs were used? 100 ŀ 18. Total dezths due to dizrzhoea 103 18.1 Total deaths due to diarrhoea under 5 years 126] Investigator's comments on Record keeping about diarrhoea

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19. From available case records (clinic cards or daily register) randomly select 10 cases of diarrhoea of les t than 5 years of age seen during the last 3 months and complete as much as possible of the following table:

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1	Case Dehy	Dehydration Status recorded		Treatr		Treatment given at the health facility
	Yes (Tíck	(If Yes, write	If other diagnoses	1. ORS (Tick if		2. IV (Tick if
	11 re- corded	(degree)	besides dehydra- +!on	given)		given)
	•	•	(Specify)	•		•
13-28			; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	! ! !	
29.44 2	1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	***	3 5 6 7 8 9 9 9 9 9		
45-60 3	4 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 2 2 5 5 6 6 6 1 1	31201590753748349			4 1 1 2 1 1
61-76 1			220222222222	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 2 1 5 2 5 3
11.92 5				1 1 1 1 1 1 1 1 1 1 1 1 1 1	L 1 t 0 1	t f t 1 1 1 1 1 1 1
93-108 6						1 2 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
109-124 7					, ,	k 6 1 1 1 1 1
13-28 8			1 4 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8) 1 2 1 2 1 2 1 2 1 2 1 1 2 1 1 1 1 1 1	; ; ; ; ;	2 f 1 l t t t
29.44 9					1	4 5 7 8 8 8 8
45-60 10						4 7 1 1 1 1 1

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20. Is there laboratory facility for identification of the causative organism? 1. Yes 2. No 20.1 Is there facility to conduct sensitivity test? 1. Yes 2. No

20.2 (If yes for both the above questions) Write down the two most common organisms isolated.

Date of Interview: ______ Signature: ______ Name of Investigator: ______ Signature: ______ Checked by: ______ Signature : ______ Date of checking : ______

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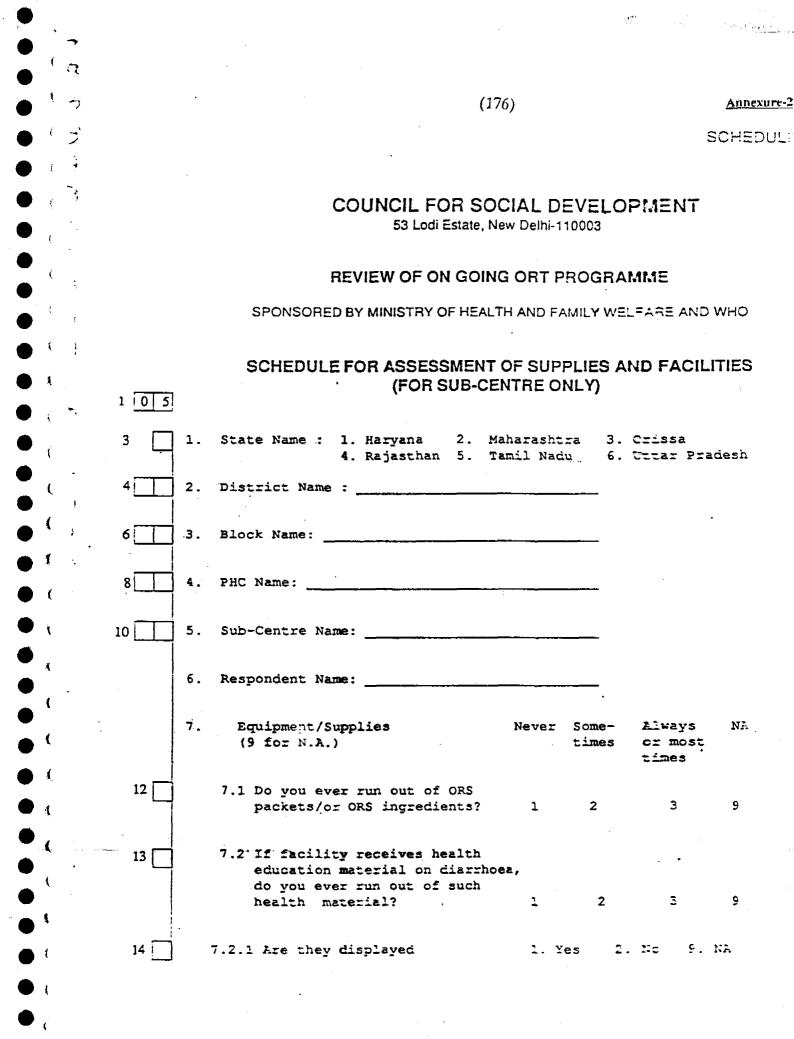
2

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(177) 15 7.2.2 Are they distributed to 1. Yes 2. No 9. NA patients? 2. Are anti-diarrhoeal drugs used at your health facility? 16 1. Yes 2. No E.1. (If Yes) please specify the drugs: 17 : 19 1._____2.____ 21 23 3._____ 4._____ 25 I . 6. 5. 27 29 9. Is there a weighing scale that works? 1. Yes 2. No 30 10. Does the facility have written guidelines for assessment and treatment of diarrhoea/dehydration 1. Yes 2. No 31 IC.1 (If yes) Please show me the 1. Shown 2. Not shown guidelines? 32 11. Check if ORS is stored properly 1. Properly 2. Improperly 3. Do not have ORS 33 11.1 Check if there are any damaged or spoiled ORS packets in the 1. None 2. Some 3. All store 9. NA 12. <u>Referral</u> 12.1 Do you refer cases of diarrhoea? 1. Yes 2. No 35 ____ 12.2 (If yes) Are there any problems with referral 1. Yes 2. No 9. NA

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36	12.3 (If yes) Specify the problems
40	
	FOR QUESTION NOS. 13 TO 14 - PLEASE REFER TO THE RECORDS AT THE FACILITY AND RECORD THE FOLLOWING INFORMATION FOR THE LAST 12 CALENDER MONTHS (WRITE THE EXACT PERIOD)
42	13. Total no. of cases seen
46	13.1 Total no. of cases under 5 years
50	14. Total no.of cases of diarrhoea seen
54	14.1 Total no.of cases of diarrhoea under 5 years
	•
	·
	Date of Interview:
• •	Name of Investigator: Signature:
	Checked by: Signature :
	Date of checking :
	n e e e e e e e e e e e e e e e e e e e

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(Annexure-2 (179)SCHEDULE-E £ COUNCIL FOR SOCIAL DEVELOPMENT £ . 53 Lodi Estate, New Delhi-110003 c**REVIEW OF ON GOING ORT PROGRAMME** 1 SPONSORED BY MINISTRY OF HEALTH AND FAMILY WELFARE AND WHO (SCHEDULE FOR PRIVATE PRACTITIONER € 106 2 1. State Name : 1. Haryana 2. Maharashtra 3. Orissa 4. Rzjasthan 6. Uttar Pradesh 5. Tamil Nadu **(**) 4 2. District Name :_____ £ 6 3. Block Name :____ (8Ī Ward Name/PHC Name : 4. ٠, Ŷ, 11 5. Name of Practitioner: _____ 14 6. Age : ſ 7. Name of Clinic :_____ ł 16 [8. Name of the system in which trained: (17 9. Practising in which system(s)? Ł 1. Allopathy Ć 2. Homeopathy (З. Ayurvedic Ç 4. Unani ٩, 5. Sidha 6. Any other (Specify) ¢

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	10.	Ask the following open-ended questions. Do not read the responses given below. Encircle appropriate response codes only when the respondent mentions any of these symptoms and signs.
		10.1 If a Child is brought to you with the complaint that he or she has diarrhoea, how do you assess the patient?
		10.1.1 What do you ask about?
18		1. Diarrhoea (Stools/day)
19		2. Vomiting
20		3. Thisst
21		4. Urine
		10.1.2 What do you look for when you examine?
22		1. Condition of Child
23		2. Skin pinch
24		3. Sunken eyes
25		4. Mouth/Tongue (dry or wet)
26		5. Tears present or absent
27		6. Pulse rate
28		7. Fontanelle depression (in Infants)
29		8. Respiratory rate
30		10.1.3 What else do you do?
31		1. Take temperature
32		2. Weigh if possible
33		3. Check measles immunization status
34		4. Other (specify)
35		
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	21.	How do you treat a child with diarrhoea who is not dehydrated?
		(Do not read the responses given below. Encircle appropriate responses only when the respondent mentions any of these responses)
38		1. ORS
39		2. S.S.S.
40		3. Other Home Fluids (Specify)
41		4. Continue Breast feeding (Infants only)
42		5. Continue Solid Foods
43		6. Drugs
44		7. No Treatment
45		8. Other (specify)
46		
47		
	1	1.1 How do you treat a child with diarrhoea who has some dehydration?
40		(Do not read the responses given below. Encircle appropriate response code only when the respondent mentions any of these responses)
48		1. ORS
50		2. s.s.s.
51		3. Other Home Fluids (Specify)
52		4. Continue Breast Feeding (Infants only)
53 🗌		5. Continue Solid Foods
54	٠	6. Drugs
55		7. No Treatment
56		8. I.V. Therapy
57		9. Other (specify)
58 59		

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			11.2			ou do with lration?	a chil	d with	diar	rhoea ha	ving
0			·	appro	priate		code	only wh		«. Enci: e respon	
	60			1. A	omit fo	or IV and.	ORT	•			
۲) · · ·				2. A	dmit fo	or IV only					
C .				3. R	efer wi	ith IV in	transit		•		
) (4. R	efer wi	th ORT in	transi	t			
				5. R	efer wi	thout IV	or ORT	in tran	sit		
() -				6. O	ther (S	Specify) _				<u>-</u>	
()		12.	Are you	u awar	e of Or	al Rehydr	ation S	alt (OR	S)?		
$\mathbf{C}_{\mathbf{c}}$	61		1. 3	Yes	2. N	10					
Θ_{i}			(If	No, g	o to Q.	No.14)					
• • •			12.1.	recine	sted to		prepara			(Should) commer	
C ,	62		12.2.	If co	nmercia	l brand w	rite do	wn the	name _		,
() -			12.3.	Check corre		wing item	s and e	ncircle	yes :	if expla	ineć
€ ²					-			Yes	No		-
€	. 64 📺		i.	. Clea	n conta	iner ment	ioned	1	2	Investi	gator
(65 🗌		ii.	. Clea:	n water	mentione	đ	l	2		
(66 🗌		iii.		ect amo ioned	ount of wa	ter	1	2		
€	67 🗔		iv.	ORS	complet	ely disso	lved	l	2		
(·	68		v.		ect amo mentio	unt of po ned	wder	l	2		
	59 71	•				measure . the prep				t advise ion?	do
(73					· · · · · · · · · · · · · · · · · · ·			<u> </u>	<u></u>	
;	75: 1					······	· · ·				
							1				

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	12.5. What are the ingredients of Oral Rehydration Salt?
77	1. Glucose
78	2. Sodium
. 79	3. Potassium
80	4. Bicarbonate/Tricitrate
81 82	5. Other (Specify)
	13. Do you estimate the quantity of ORS that should be given to a child within a particular time period?
83	1. Yes 2. Nc
	(If No, Go to Q.No.14)
	13.1 (If yes) How much ORS would you give to a 1 year old 7 kg baby with some dehydration during the first 4-6 hours of treatment?
84	1ml
88	2. As much as child will take
	3. Other (Specify)
	9. Don't know
	13.2 (If answered in ml) Are any guidelines used to calculate the amount?
89	1. Yes 2. No
	13.3 (If yes), What guidelines do you use?
90	1. WHO
•	2. National Diarrhoea Programme
	3. Personal
	4. From Training Programme
	5. Others (Specify)

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5		When do you gi years?	ve dru	gs for a	diarrhoea	patien	t under 5
		Name of Drug				Indicat	ion
				<u>-</u>			
6	·	·					
				<u></u>			····
6							
6		· · · · · · · · · · · · · · · · · · ·					
126 1	•	In your opinion <u>during diarrhoe</u> years? 15.1 During Dia	a and				
		(Read out	all it	ems belo	w one by o	ne)	
		Item	Stop	Decre- ase	Continue as usual	Incre-	Other (specify)
14		1. Breast	1	2	3	4	
·		feeding					
15		fæeding 2. Bottle fæeding	1	2	3	4	
		2. Bottle	1	2	3 3	4 4	
15		2. Bottle feeding			-	-	
15	_	 2. Bottle feeding 3. Other fluids 4. Solid feeds 15.2 After Diar: 	l l	2	3	4	
15	_	 2. Bottle feeding 3. Other fluids 4. Solid feeds 15.2 After Diar: 	l l	2 2 ems belo ease Co	3 3 w one by o ntinue In	4	Other
15 16 17	-	2. Bottle feeding 3. Other fluids 4. Solid feeds 15.2 After Diar: (Read out a litem	1 1 rhoea all it: Decre	2 2 ems belo ease Co	3 3 w one by o ntinue In usual	4 4 ne) crease	Other (specify)
15 16 17 18		 2. Bottle feeding 3. Other fluids 4. Solid feeds 15.2 After Diar: (Read out a Item 1. Breast feeding 	1 1 rhoes all it: Decre y ~1	2 2 ems belo ease Co	3 3 w one by o ntinue In usual 2	4 4 ne) crease 3	
15 16 17 18 19	-	 2. Bottle feeding 3. Other fluids 4. Solid feeds 15.2 After Diar: (Read out a Item 1. Breast feeding 2. Bottle feeding 	1 1 rhoes all it: Decre y ~1	2 2 ems belo ease Co	3 3 w one by o ntinue In usual	4 4 ne) crease	
15 16 17 18	-	 2. Bottle feeding 3. Other fluids 4. Solid feeds 15.2 After Diar: (Read out a Item 1. Breast feeding 	1 1 rhoes all it: Decre y ~1	2 2 ems belo ease Co	3 3 w one by o ntinue In usual 2	4 4 ne) crease 3	

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	 16. What advice should be given to mothers about preventing diarrhoea in future? (Do not read the responses given. Encircle appropriate
	response code only when the respondent mentions any of these responses)
	1. Drinking water should be boiled/clean
	2. Wash hands (with soap) after defaecation
25	3. Wash hands (with soap) before food preparation
· · · · 26 🗌	4. Keep food covered
() 27.	5. Keep food preparation area clean
	6. Use latrine for defaecation
	7. Immunize child for measles
30	8. Other (specify)
) <u> </u>	
С., С,	 What should mothers be told about treating diarrhoea at home in future? (Do not read the responses given. Encirice appropriate
()	option(s) only when mentioned by the respondent).
(' 32	1. Give more fluids
	2. Continue breast feeding
34 (35	3. Continue solid foods
35	4. Look for signs of dehydration
37	5. Look for blood in stools
38	6. Seek medical help immediately
(` 39 .	7. Give ORS
40 41	8. Other (specify)
	Date of Interview:
(
2	Name of Investigator: Signature:
)	Checked by: Signature:
* :	Date of checking:
▲ 1 A A A A A A A A A A A A A A A A A A	
1	

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()				
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` ¬			(196)	
()			(186)	Annexur
()				SC. IEDL
<i>x</i>)		COUNCIL FO	OR SOCIAL DEVE	LOPMENT
		53 Loc	di Estate, New Delhi-1100	03
		REVIEW OF TH	E ON GOING ORT PI	ROGRAMME
·) (SPONSORED BY MINISTHY	OF HEALTH AND FAMIL	Y WELFARE AND WHO
	-	SCHED	ULE FOR PHARMAC	SIST
) 1 0 7 () 3	1.		2. Maharashtra 5. Tamil Nadu	
	2.			
6	3.	·		
	4.			
	5.	Name of Respondent:	·	_
	5.1			- .
)	5.1.			- .
)	5.1.	Age:	to you with a compla	
)	5.1.	Age: Name of Shop: When any customer comes to in a child under 5 years	to you with a compla and asks for a reme 7b. Please asi which ones Oral Rehyo	edy, which remedy to the Pharmacist s are iration Salt?
	5.1.	Age: Name of Shop: When any customer comes to in a child under 5 years do you suggest? 7a. Name of Remedy	to you with a compla and asks for a reme 7b. Please asi which ones Oral Rehyo 1. Yes	edy, which remedy t the Pharmacist s are iration Salt? 2. No
) 14 () () () () () 16	5.1.	Age: Name of Shop: When any customer comes to in a child under 5 years do you suggest?	to you with a compla and asks for a reme 7b. Please asi which ones Oral Rehyo	edy, which remedy to the Pharmacist s are iration Salt?
<pre> 14 14 1</pre>	5.1.	Age: Name of Shop: When any customer comes to in a child under 5 years do you suggest? 7a. Name of Remedy	to you with a compla and asks for a reme 7b. Please asi which ones Oral Rehyo 1. Yes	edy, which remedy t the Pharmacist s are iration Salt? 2. No
) 14 [] () 1	5.1.	Age: Name of Shop: When any customer comes to in a child under 5 years do you suggest? 7a. Name of Remedy (a) (b)	to you with a compla and asks for a reme 7b. Please asi which ones Oral Rehyo 1. Yes 1	edy, which remedy the Pharmacist s are iration Salt? 2. No 2
(,) 14 $(,)$ $(,)$ 14 $(,)$	5.1.	Age: Name of Shop: When any customer comes to in a child under 5 years do you suggest? 7a. Name of Remety (a) (b)	to you with a compla and asks for a reme 7b. Please asi which ones Oral Rehyo 1. Yes 1	edy, which remedy the Pharmatist s are iration Salt? 2. No 2 2
14	5.1.	Age: Name of Shop: When any customer comes to in a child under 5 years do you suggest? 7a. Name of Remedy (a) (b) (c)	to you with a compla and asks for a rema 7b. Please asi which ones Oral Rehyo 1. Yes 1 1	edy, which remedy to the Pharmacist s are iration Salt? 2. No 2 2 2
() 14	5.1.	Age: Name of Shop: When any customer comes to in a child under 5 years do you suggest? 7a. Name of Remedy (a) (b) (c) (d)	to you with a compla and asks for a reme 7b. Please asi which ones Oral Rehyo 1. Yes 1 1 1 1	edy, which remedy to the Pharmacist s are iration Salt? 2 2 2 2 2

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۱ سر				(187)				
₹ _}	•	_						-
ť			o to all items ration Salt ((s above) Do yo Dosio	u stock Oral			
	·	<u>.</u> .	Lecton Sait (
ł	34 🗍		l. Yes	2. No	9. NA			
		9. (If	Not Would you	n blesse give	reasons for not			
(king the ORS			-		
(35							
,	37							
1								
; (39	<u> </u>						
`) 		10. (If	Yes to any :	item to 0.7b o	r yes in Q.8 o	therwise	e go to	
ι,		Q.No			- ,00 2			
							3 . .	
ί,	41	. 10.1	What are the	e ingredients	of Oral Rehydra	ation Sa	ALC?	
ł			(1) Gluce	03 e	· . ,			
•	42					•		
i.	43		(2) Sodi:					
•	44		(3) Pota	ssium				
	=							
	45		(4) B1CA	rbonate/tricit	rate			
	46		(5) Othe:	s (specify)			•	
		10.2.	Do you exp Sclution (G	plain to the c ovt./Commercia	ustomers how to 1)?	o prepa	are ORS	
	47		1. Yes	2. No	9. NA			
	48	10.3.	lf commercia	al brand, writ	e down the name	e		
		10.4.	(If yes) P. would do to	the customer.	the preparation	n of OR	s as you	•
					ïęs	No *	Remarks the Inve gator	
	<u>50</u>		i) Clean com	ntainer mentio	ned 1	2		
	× : 51 📋		ii) Clean wat	er mentioned	1	2		
	52	÷		mount of wate	r 1	2		
			mentioned	1				
	53		iv) ORS compl mentioned	letely dissolv 1	ed 1	2		
	54		v) Correct a mentioned	mount of powde	2	z		
			•					
			an a				14 	
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÷ • •	55	
· }	57	
0.5	11	. What advice should be given to the customers for managing
	59	diarrhoea?
• • • •	<u></u>	
(<u> </u>	61	
}	63	
1		
(-)	12	2. Do you give any advice on prevention of diarrhoea?
`>	65	1. Yes 2. No
		1. 165 2. NO
)	66 	12.1. (If yes) What is the advice?
()	68	
17	70	
• •		
100 No. 100	13	During the last six months, in which month was the sale of ORS maximum?
· · · · · · · · · · · · · · · · · · ·	72	
(/² <u></u>	
e ?	14	. Please name the fastest moving ORS for use in diarrhoea
`)		(The brand which sells highest)?
e Ç	74	
)		· · · · · · · · · · · · · · · · · · ·
(<u>)</u>	76	14.1 Can you give a reason for this
t	78	
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()	15	. What type of formal training have you received in Pharmacy?
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Annexure-2

SCHEDUL⁻

COUNCIL FOR SOCIAL DEVELOPMENT 53 Lodi Estate, New Delhi-110003

REVIEW OF ON GOING ORT PROGRAMME

SPONSORED BY MINISTRY OF HEALTH AND FAMILY WELFARE AND WHO

VILLAGE SCHEDULE

1 0 9 3]1.	State Name: 1. Haryana 2. Maharashtra 3. Orissa 4. Rajasthan 5. Tamil Nadu 6. Uttar Pr	radesh
4	2.	District Name	
6	3.	Block Name	·
8	4.	PHC Name	
10	5.	Sub-centre Name	
12	6.	Village Name	
	6.1.	Respondent's Name	
13	6.2.	Respondent's Age	
15	6.3.	Respondent's Designation	
17	6.4.	No. of houses in the village	
21		Population of the village	
26	E.5.1	i. Year of Enumeration सन्नजन्तु हर्ष्	

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 Access to <u>health worker/facilities commonly used</u> by local people (code "00" km. if available within or less than one kilometre from village or else distance in kilometers from the <u>nearest one</u> that is most commonly used).

स्थानीय लोगों के लिये स्वास्थ्य कार्यकर्ता एव स्वास्थ्य सुविधाओं की सुविधा (यदि दे गाँव में यः एक किलोमीटर के अन्दर हो तो 00 भरे अन्य्या मजदीकी सुविधा से दूरी किलोमीटर में लिएँ)

	7.1. <u>Health Facility</u>	Distance (km.) (If not in exist- ence write NA)	Is_CPS	svaila -	<u>51</u> e
	- Untrained Dai Subhiltan CIS		Yes 1	N0 2	NA 9
	- Trained Dai प्रशिक्ति दाई		l	2	9
	- Village Health Guide ग्राम स्वास्थ्य रक्षक	÷	l	2	9
	- Angenwadi Worker आंगलदाडी कार्यकर्ता		1	2	9
 !	- Female Multi-purpose Health Worker (ANK) चहिला बहु-उद्देरू स्वास्थ्य		1	2	9
	- Mele Multi-purpose Health Worker (MPHW) पुरुष बहु-उट्टेर्य प्राप्तव्य प्		.	2	è
	- Ledy health Visitor (Health Assistant Fe संहो हेल्प विलिटर	emale)	1	2	9
	- Primery Health Cents प्राथमिक स्वास्थ्य केन्द्र	ce	" <u>-</u>	2	9
	- Government Hospitel/ Dispensery ক্রোমী সক্ষরাল/জীম্ব্যালয	/ <u> </u>	Ļ	2	9
	- Privere Hospitel/ Clinic LEAE Artuner/County	••••••••••••••••••••••••••••••••••••••	1	2	9
	- ವಿಷಚಿಧ ವಿರಂಪಕ ಪಷ್ಟ ಸಮ ಪುರ್ಣಾ		1	2	، و
	- Repirtered Mealori Fractitional (Pir) Horizig Frace Fraces		:	2	çı

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Distance (Km.) (If not in exist-ence write NA) •

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	64	- Primary School	
	<u> </u>	जाधीमक पाठराला	
	66	- Middle School	
	68	- High/Higher Secondary	
	6	School	
		उच्च/उच्चतर पाटराला	
	70	- Non-formal Education	
		Centre	
		अनीपचारिक सिक्षा-केन्द्	
		7.3. Infrastructural Facilitie	3
	72	- Panchayat Ghar	
		- पंचायत~यर	
ť			
	74	- Chaupal/Community	
	ل ل_،	Centre	
		चौपाल/सामुदायिक केन्द्र	
n f	76	- Reading Room	
	78	- Post-Office	
	· · ·	जल्द आफिस (झकवर)	
*	80		· · · · · · · · · · · · · · · · · · ·
	80	- Electricity	
. .	·	सिजली	
· .	82	- Motorable Road	
		प्रान्ते संडक	
		 i	
	84	- Bus -Stop	* · · ·
		बस-स्टाप	~
	86	- Railway Station	
		्रितवे-स्टेशन	
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8. Source(s) of water:

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Number of them used for Name of Source Number drinking water 88 l. Pond पंखर 92 2. Tank तालाब 96 З. Stream/river जरना∕नदी 100 4. Covered well ढका-कुआं 104 5. Open well with parapet wall . জনন-বাব দ্রেলা ক্রুআ 108 6. Step well सीदियों वाला कुआं/धावडी 7. Handpump हेन्डपन्म 8. Piped Water (Tap) नल का फनी/नल 25 9. Tube well হ্যুৰ ৰ্ষল 29 ho. Other (specify) अन्य (स्पष्ट करें) 33 8.1. 2. No Whether the water supply 1. Yes is available throughout the year? क्या बारहो महीने पानी मिलता है ? 34 2. Not Suffi-8.2. Quantity of water supply 1. Suffiduring summer cient cient क्या गर्मियों में पानी की मात्र कम ्हां जातां हैं या पूरी रहती है ? 35 8.3. 2. Muddy Quality of water supply 1. Clean during summer गन्दिं में पानी गंदा निलत है या साम ?

(192)

Drainage system 9. नालियो की व्यवस्था : 2. Covered 1. Open 9.1 36 Is it दर्का है खली है क्या ये 2. Pucca 9.2 Is it 1. Kutcha 37 पर्का है कच्ची है क्या ये 1. Stagnant 2. Running 3. Other 9.3 Is it 38 (specify) रूकी हुई **बहती** है क्या ये अन्य (स्पष्ट करें) 9.4 Is it 1.Dug-pit 2. Connected 3.Linked 4. Other 39 to the with (specify)_ क्या गन्दा पानी खुदे हुये kitchen mains अन्य (स्पष्ट करें) गद्धे में जाता है ? garden बडां नाली से साग-सब्जी के जुड़ा है ? चाग में जाता है ? Is it maintained 1. Privately 2. Publicly 9.5 40 क्या इसका रख-रखाद লিন্দা सामुहिक निजी है या सामुहिक है ? 1. Never 2. Sometimes 9.6 How often is it 3. Regularly 41 कमी नही cleaned? कमा-कभी नियमित कितनी बार साफ करते हैं ? 9.7 How often is it 1. Never 2. Sometimes 3. Regularly 42 treated with कमी नहीं नियमित कमी-कमी larvicide किटाणुनाशक औषधि कितनी बार डालते हैं? 10. General bathing practices in the village. गौंव में नहाने की सामान्य व्यवस्था : 43 10.1. Do you have community bathing places? 1. Yes 2. No . क्या आपके नहाने की सामुदायिक व्यवस्था है ? 10.2. (If yes) Is this place close 1. Yes 2. No 44 to a source of drinking water Same (यदि हाँ) क्या यह जगह पीने वाले पानी के रूपान के निकट है ? 10.3. Do the cattle drink water from 1. Yes .2. No 45 the same place? क्या पशु भी उसी जगह से पानी पीते हैं ? 10.4. Do the cattle bathe at the 1. Yes 2. No 46 same place? क्या पशु उसी जगह नहलाये जाते हैं ?

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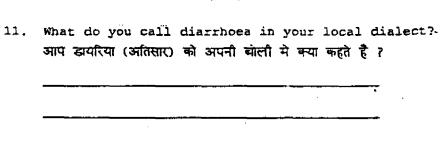
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12. Please suggest places for heardings/Pessers? डायरिया या अतिसार के विषय में किन-किन जगहों पर बार्ड व पोस्टर लगाये जाय कृपया अपने सुझाव दें।

Date of	Interview	
Name of	Investigator	Signature
Checked	by	Signature
Date of	checking	

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		SFONSORED BY	MINISTRY OF	HEALTH AND FAM	ILY WELFARE	AND WHO
			REVIEW OF ON	GOING ORT FRO	GRAMME	
	ı			Family Welfar 1 Lecturer-cum		
<i>4</i>)	108	/ recincit	ar or nedica	I Dectarer-cam	-Demonstrate	
	$\frac{1}{3}$	State Name :				
	4 2.	District Nam	le : <u></u>	· ·		
	6 3.	Name of the	Respondent:		<u>. </u>	· · · · · · · · · · · · · · · · · · ·
	9 4	Designation	- of the Bespor	ndent:		
		1. Age			•	
),),				-		
) ()		Totel number			<u> </u>	•
(₁)	6.	Number of fa	culty member:	s trained at N	ICED, Calcutt	a:
L (7.	Details of	all faculty (nempers:		
		Neme	Sex	Designation	Date of	Date of
			1. Male 2. Femele		Joining (Month & Year)	Training (Month & Year)
	15-25	*********				· · · · · · · · · · · · · · · · · · ·
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	59-69		+			
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()	103 0. Is there any vehicle(s) under the OET programme?
(3)	L. Yes 2. No
	104 8.1. (if Yes) Is it in running condition? 1. Yes 2. No
	9. (If yes) is it being used to go to districts for training
	rurroses?
۰ ۲ – ۲	105 1. Yes 2. No
●) ●{()}	10. (If yes) How many visits were made during last six months? (Refer to Log book)
	Month Number of visits
	106
	110 2.
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	118 4
	122
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X X	
Ο	11. Is there any facility for preparation of Health Education Neterial in the institution?
	15 1. Yes 2. No
	12. (If yes) What items have been prepared? (Get a copy of each).
	list of Temp
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()	13.	Number of peo	ple trai	ned by	your institution	in ORT so feu?
$(\gamma -)$		Category of	Year	No.	Flaces where tr	ining
		reople			wes conducted	
1	•	-			· .	
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3	24				ry and Practice	
· .		(]f theory givenT (Speci			where the practic (ion)	e exposure it
	25					. 4
, 26		In the traini	ng what	did you		
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	· ·	ANNEX 2		
		(198)		Annexure-2
				SCHEDULE-
D ,	Time:		Date:	
D (D (D (COL	JNCIL FOR SO	CIAL DEVEL	
	RE	VIEW OF ON GOI	NG ORT PROG	RAMME
• (SPONSORED E	Y MINISTRY OF HEA	LTH AND FAMILY	WELFARE AND WHO
]	HOUSEHOL	DSCHEDULE	· · · · · ·
	Identification) (from Enumerati	on Sheet)	
(8	1. State Name :			3. Orissa 6. Uttar Pradesh
9	2. District Name	:		
	3. Block Nume : _			
13	4. Ward Name/PHC	Name :	<u></u>	
16	5. Sub-centre Nar	Ne :		
(18	f Village Name :		<u></u>	-
(19	7. Name of the Re	spondent:		
(22	1	han mother) mother :		
	8. Pespondent's A	.ge :	•	
	•			

(199) Respondent's Education: 9 25 उत्तरदात्ता को शि धा 1. Illiterate अनपद 2. Upto Primary पाँचवी कक्षा तक 3. Upto Middle জাতবা কথা নক 4. Upto Matric/Higher Secondary दसवी कसा/हायर संकेन्डरी 5. Upto Graduation बी. ए. तक 6. Post-graduate and above एम. ए. और अधिक 26 10. Religion: 1. Hindu 2. Muslim 3. Christian धर्म 5. Sikh 4. Jain 6. Other (Specify)_ 27 11. 1. Scheduled Caste 2. Scheduled Tribe Caste: जाति 3. Other (Specify) : _____ 28 12. Type of Family : 1. Nuclear 2. Joint संयुक्त परिवार का प्रकार इंकाई 13. Size of Family : (Record this from Enumeration Sheet) 'सदस्यों की संख्या : Female Total Male स्त्री कृत पुरूष 13.1. Total Members 29 कुल सदस्य 13.2. Married 35 মার্বায়ারা 13.3. Children below 41 5 Yrs पाँच साल से कम आयु के बच्चे

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 What is the highest level of education achieved by any male and female member in the family? (Tick separately for male and female) आपके परिवार में पुरुषो में सबसे अधिक शिक्षा कहाँ तक हैं ? और महिलाओं की कहाँ ठक ?

<u> </u>	Level of Education	For Male	• For Female
	3 1. All illiterate सभी अनपद		
	2. Upto Primary पाँचवी तक		
	3. Upto Middle আন্তর্বা নক		
	4. Upto Matric/ Higher Secondary मैट्कि/हायर सेकेन्डरी		
	5. Upto Graduation बी. ए. तक		
	6. Post-graduate and abo	ve	
	एम. ए. और अधिक is the main decision maker तर में मुख्य निर्णायक/फैसला करने वाला Self 2. Spouse स्वयं प्रति/प्रसी	कौन है ? 3. Other (Speci	
परिव 1. 15.1. Ed	is the main decision maker तार में मुख्य निर्णायक/फैसला करने वाला Self 2. Spouse स्वयं प्रति/पत्नी ucational status of the decis	कौन है ? 3. Other (Speci अन्य (विवरण दें)	
	is the main decision maker गर में मुख्य निर्णायक/फैसला करने वाला Self 2. Spouse स्वयं पति/पत्नी ucational status of the decis गायक की शिक्षा Illiterate	कौन है ? 3. Other (Speci अन्य (विवरण दें)	
परिव 1. 15.1. Ed निप 1. 2.	is the main decision maker गर में मुख्य निर्णायक/फैसला करने वाला Self 2. Spouse स्वयं पति/पत्नी ucational status of the decis गायक की शिक्षा Illiterate अनपद Upto Primary पाँचवी तक Upto Middle	कौन है ? 3. Other (Speci अन्य (विवरण दें)	
परिव 1. 15.1. Ed निग 1. 2. 3.	is the main decision maker गर में मुख्य निर्णायक/फैसला करने वाला Self 2. Spouse स्वयं पति/पत्नी ucational status of the decis गायक की शिक्षा Illiterate अनपद Upto Primary पाँचवी तक	कौन हैं ? 3. Other (Speci अन्य (विवरण दें) sion maker:	
	is the main decision maker ति में मुख्य निर्णायक/फैसला करने वाला Self 2. Spouse स्वयं पति/पत्नी ucational status of the decis गायक की शिक्षा Illiterate उन्नपद Upto Primary पाँचवी तक Upto Middle आठवी तक Upto Matric/Higher Secondary मैदिक/हायर सेकेन्डरी Upto Graduation बी. ए. तक	कौन हैं ? 3. Other (Speci अन्य (विवरण दें) sion maker:	
परिव 1. 15.1. Ed निर 1. 2. 3. 4. 5. 6.	is the main decision maker तर में मुख्य निर्णायक/फैसला करने वाला Self 2. Spouse स्वयं पति/पत्नी ucational status of the decis गायक की शिक्षा Illiterate उनपट्ट Upto Primary पॉच्यी तक Upto Middle आठवीं तक Upto Matric/Higher Secondary मैट्कि/हायर सेकेन्डरी Upto Graduation	कौन हैं ? 3. Other (Speci अन्य (विवरण दें) sion maker:	

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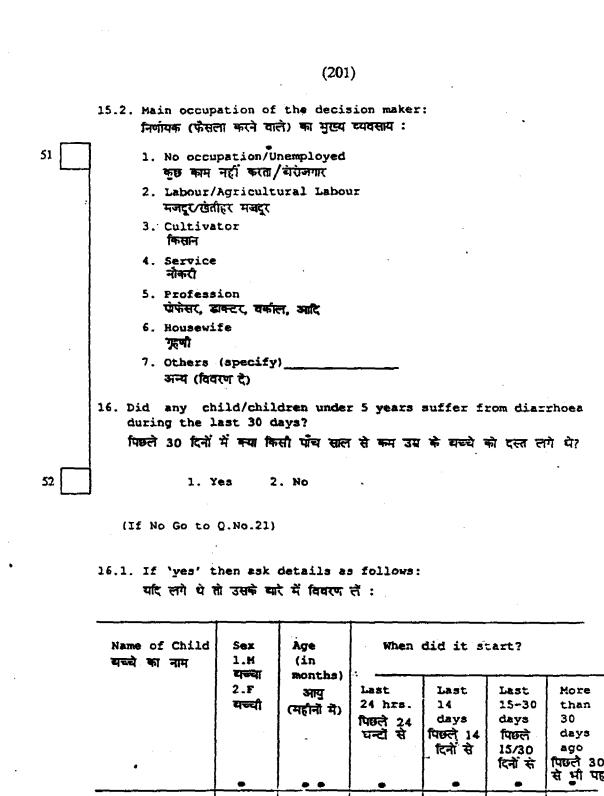
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> पिछले 30 दिनों से भी पहले से

(3 (202)٩, ASK Q.NOS 17 TO 20 FOR EACH CHILD WITH DIARRHOEA SEPARATELY € on separate sheet ŧ 74 Name of the Child बच्चे का नाम 17. When the child had diarrhoea, what did you do? ŧ (read out the options) जब बच्चे को दस्त लगे थे तो आपने क्या किया ? Yes No (75 17.1. Treated at home on your own? 1. 2 घर में ही स्वयम् ईलाज किया ? (76 17.2. Got the advice of VHG/Health 1 2 () worker and then treated? ग्राम-स्वास्ध्य रक्षक/स्वास्ध्य कार्यकर्ता \mathbf{O} की सताह ली ? 77 17.3. Went to a Private Practitioner? 1 2 गैर-सरकारी (प्रइवेट) डाक्टर के पास गये ? 1 . 78 17.4. Went to the nearest Hospital 1 2 ۲. or PHC? नजरीकी अस्पताल या प्राधमिक स्वास्घय-केन्द्र में गये ? 18. What did you give when the child had diarrhoea last? (First record the answers given by the respondent without probing. Then ask for each category ie.18.2 to 18.5 mentioned below) पिछली बार जब बच्चे को दस्त लगे तो आपने उसे क्या दिया ? 18.1 18.2. Home remedies? (Specify) घरेलू ईलाज? (विवरण दें) 18.3. Home available fluid? (Specify) घर में पाप्त/उपलब्ध तरल-पदार्घ? (विवरण दे) 18.4. Home made fluid? (Specify) घर में बना कर दिया गया तरल-पदार्थ (विवरण दे) 97 18.5. Medicine 1. Yes 2. No दवर्ड (If Yes) Specify the name if possible _____ यदि हाँ तो, दवाई का नाम चतायें (सम्भव हो तो)

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(203)19. Has the child had diarrhoea during the last 24 hours (from this time yesterday)? क्या बच्चे को पिछले 24 फन्टों से दस्त लगे हुये हैं ? (कल इसी समय से) 102 2. No 1. Yes (If No go to Q.No.21) Z0 Was the child breastfed before he/she got diarrhoea? क्या बच्चा दस्त लगने से पहले माँ का दूध पी रहा धा ? 103 3. DK 2. No 9. NA 1. Yes 20.1. Are you breastfeeding now or have you stopped giving the child breast milk during diarrhoea? क्या आप अमी भी बच्चे को अपना दूघ पिला रही है या दस्त लगने पर बन्द कर दिया है ? 104 2. Stopped 1. Continued 3. DK 9. NA 20.2. Was the child taking solid or semi-solid foods before the diarrhoea started? दस्त शुरू होने से पहले क्या बच्चा ठोस या अर्घ-ठोस पदार्ध ले रहा था ? 105 3. DK 9. NA 1. Yes 2.No 20.3. Have you given more, less or same amount of food as before the diarrhoea started, or have you stopped feeding the child during the diarrhoea? क्या आप बच्चे को उतना ही भोजन दे रही हैं जितना कि दस्त होने से पहले देती धी, या ज्यादा दे रहीं हैं या उससे कम या विलकुल बन्द कर दिया है ? 106 4. Stopped 5. DK 1. More 2. Same 3. Less 5. NA 20.4. Have you given the child anything to drink (other than breastmilk) since this time yesterday (last 24 hours)? कल इसी समय से अब तक (पिछले 24 घन्टों में) क्या आपने चच्चे को अपने दूप के अलावा कुछ जन्म तरल पदार्थ पिलाया है ? 107 2. No 3.DK 1. Yes (If No or DK go to Q.No.20.6)

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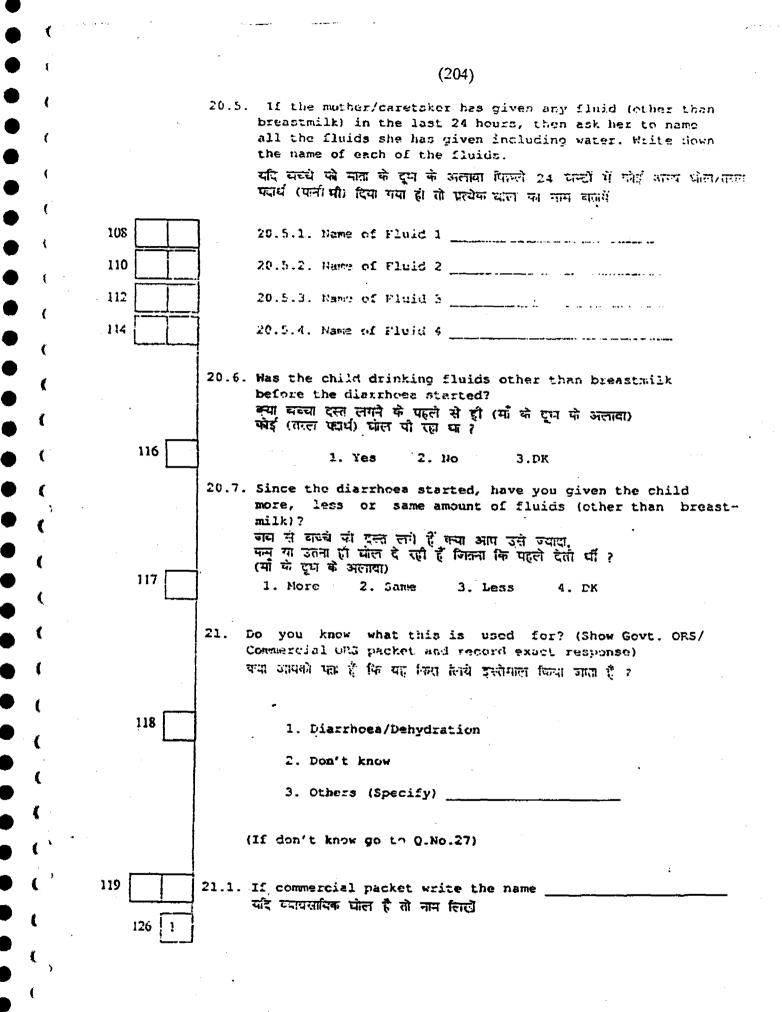
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(205)22. From where can you get this packet and how far is the source of supply? आप यह पैकेट कहाँ से ले सकतीं हैं और वह स्थान कितनी दूर है ? Distance (Write if more Source kilometre than one otherwise write 00) (km.) 23 1. Health Guide 25 2. Anganwadi worker 27 3. Health worker 29 4. PHC 5. Chemist's shop 31 6. Any other (Specify): 33 7. Don't know 35 23. Have you ever used it? 2. No 37 1. Yes क्या कभी आपने इसका इस्तेमाल किया ? 3. Don't know (If No or Don't know go to Q.No. 27) If you bought this packet how much did you 38 24. pay for it? 99. DK 1. Rs._____ यदि आपने यह पैकेंट खरीदा या तो इसके कितने दाम दिये ? 24.1. Do you think the price you paid was reasonable? 40 क्या आप सोचतीं हैं कि आपने जो दाम दिये, वे उचित धें ? 1. Yes 2. No 9. DK Do you know how to prepare a solution using this packet? 25. 41 क्या आप जानती हैं कि इस पैकेट से घोल कैसे चनाया जाता है ? 2. No 9. NA l. Yes (If No, Go to Q.No.27)

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26. (If yes) Please show me how you prepare it. (यदि जानती है) कृपया मुझे चना कर दिखायें ?

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Observations on the following in the preparation of ORS:

		¥es	No	* Remarks by the Investigator
42	26.1. Was the container clean?	1	2	•
43	26.2. Was the water clean?	1	2	
44	26.3. Was the ORS completely dissolved?	l	2	
45	26.4. Was the correct amount of powder used?	1	2	
46	26.5. Were the Respondent's hands clean?	1	2	
47	(NOTE FOR THE INVESTI MEASURING CONTAINER			HE SOLUTION INTO YOUR HE QUANTITY OF FLUID)
51	26.6 Quantity of fluid measur Investigator			u.)
55	26.7. How long can you keep th prepared? तैयार मिन्या हुआ भोल आप कितने			
57	27. Do you know how to prepar क्या आप चीनी-नयक पानी का घोल 1. Yes 2. No			
	(If No, Go to Q.No.30)			

5

28. (If yes), Please show me how you prepare it. (यदि जानती है) कृपया मुझे बना कर दिखायें ?

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Observation on the following in the preparation of SSS:

No * Remarks by Yes the Investigator 58 28.1. Was container clean? 1 •2 59 2 28.2. 1 Was water clean? 60 2 28.3. Was Sugar and Salt completely 1 dissolved? 61 28.4. 2 Were Respondent's hands clean? 1 -62 28.5. Quantity of sugar used 64 28.6. Quantity of salt used R* (Note for Investigator: Pour the solution into your measuring 66 container and record the quantity of fluid) 68 70 28.7. Quantity of fluid measured by the Investigator _ ml. 29. Have you ever used it for diarrhoea? क्या आपने इसे कभी दस्तों के लिये इस्तेमाल किया है ? J. Yes 2. No 74

28. (If yes), Please show me how you prepare it. (यदि जानती है) कृपया मुझे बना कर दिखायें ?

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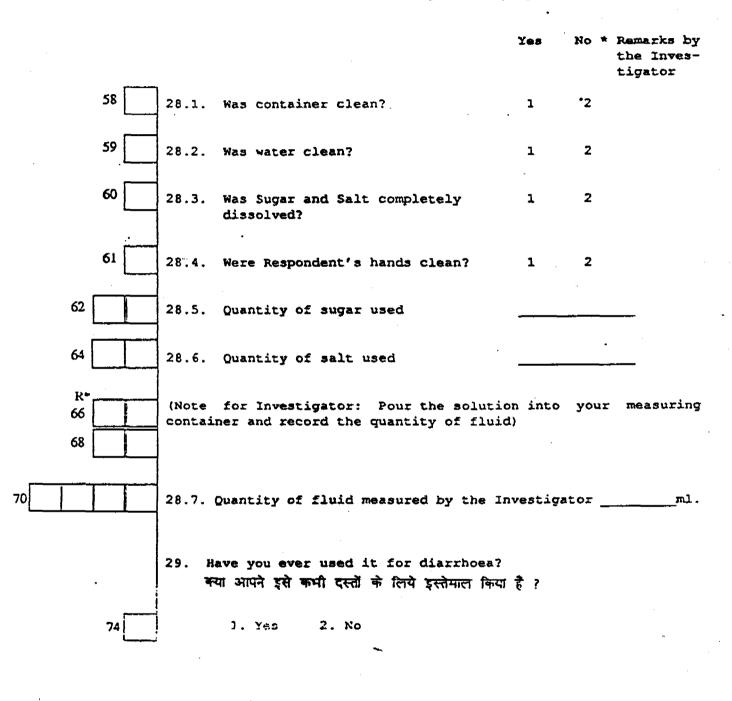
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Observation on the following in the preparation of SSS:



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				(208)				
	30.	(Do not	you get to kno read out the o त के परेलू रोकपाम/	ptions)				≥8.?
75]	01.	AWW/VHG		06. Rad	io		
77]	02.	Relative/friend:	3	07. Tele	evision		
		03.	Neighb our		OB. News	spaper		
		04. ;	Health Staff		09. Othe	er (Specif	y)	
		05. 1	Posters		99. DK			
	31.	Which a to see	symptoms in dia: k medical help?	crhoea make (Do not re	you wor	ried and	compel	You
		दस्तों के	दौरान किन-किन बातो	/लक्षणों से अ			डाक्टरी	सहायता लेने के
·			मूर हो जाती है ? notoms					1
79		1.	passes many sto कई बार टट्टी करना	ools				
80		2.	has sunken eyes আঁউ ঘৰ তানা	3		·		
81		з.	is very thirsty बहुत प्यास लगना	Ŧ			. •	
82			has fever दुखार आ जाना					
83			does not eat or अच्छी तरह से न ख		1			
84		6.	is not getting हालत में सुधार न हो	better				
85			Any other (Spec জন্ম (বিবেয়ে ই)					
86			······			<u></u>		
87	•			_				•
88	32.		your opinion ca र में, किन कारणों से					
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		your opinion what t get diarrhoea? ज्के विचार से आपको क्या				
E L					· · · · · · · · · · · · · · · · · · ·	
	34. 50	long do you general	ly breas	st-feed you फिलाती हैं?	r child?	
*		को कितनी उम्र तक, आप	Montl			
· · · · · · · · · · · · · · · · · · ·		······································			- ++	
14	35. £	; what age do you gen an breast milk for t	nerally : the child	introduce f	ood/fluids c	ther
	.	ब्ये को तकरीयन/प्रायः कि लावा, जन्य पदार्थ खाने को	त आयु सै,			
	7 7	a case of serious il enerally use to take तेद आपके घर में कोई अभि स्पताल ले जाते हैं ?	the pat	ient to the	health fac.	LIICY:
104		01. Cart		02. Bicycle	•	
		03. Cycle Ricksh	aw	04. Auto Ri	ickshaw/tempo	b
		05. Tractor		06. Car/Jee	*P	
		07. Bus/Train		08. Ferry/M	Boat	
		09. Any other (S	pecify)			•
NK	36 .9,	In case your child the night, how w health facility. यदि आणी रात को, आपने आप उसे किस तरह जन्मरी	ill you त्वच्चेको	take the cr	दस्त लग जाते	1166169 <i>c</i>

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والمستشفر والأرار • (> (210)() 37. Does anyone in your family:) 1 क्या आपके परिवार में कोई : { 23 1.Never 2.Occasionally 3.Regularly 37.1. Read Newspaper? अखबार पदता है ť) 24 37.2. Watch Television? 1. Never 2. Occasionally 3. Regularly ٢ टी. वी. देखता है 25 37.3. Listen to Radio? 1.Never 2.Occasionally 3.Regularly ł रेडियो सुनता है ()26 37.3.1.(If Listen): **(**) 0 Purpose of 1. For Music/Songs 2. News listening 3. Both 9. N.A. Radio?) ŧ, रेडियो सुनने के उद्देश्य ? 7 < > 27 38. Total family income (monthly): Rs.____ परिवार को कुल मासिक आमदनी £ 3 32 39. Land owned (in Acres):Total_ ____, Cultivable_) अपनी जमीन (एकड में) खेती योग्य भूमि ्रम्त 36 • Č) 40. Where do you go for latrine? रौच/(टट्टी) के लिये आप कहाँ जाते है ? 40 1. Open/field 2. Bore hole/Dry 3. Hand Flushed 4. W.C. 5. Others (specify) 41. How far is the source of drinking water from your house? पीने का पानी आप कितनी दूर से लाते हैं ? 41 1. _____metres 2. Others (Specify)__ 3. Don't know 45 42. What do you generally use for hand washing? हाध धोने के लिये आप प्रायः क्या प्रयोग करते हैं ? 1. Only water 2. Water and ash/mud 3. Water and soap 46 2

(211) 2: No l. Yes 43. Do you have a shed for animals? क्या आपके पांस पशुओं को बांधने के लिये पशुशाला है ? 47 43.1. (If yes) Is it यदि है तो क्या यह 1. In the same building 2. Away from the building 9. NA 48 घर के बाहर है लागू नही घर की ही चार-दीवारी में है 126 3 Date of Interview: Name of Investigator: ______Signature:_____ Checked by: _____ Signature: _ Date of checking: _____

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Annexure-2

SCHEDULE-11

COUNCIL FOR SOCIAL DEVELOPMENT

53 Lodi Estate, New Delhi-110003

REVIEW OF ON GOING ORT PROGRAMME

SPONSORED BY MINISTRY OF HEALTH AND FAMILY WELFARE AND WHO

HOUSEHOLD ENUMERATION PROFORMA

2. Maharashtra

5. Tamil Nadu

3. Orissa

6. Uttar Pradesh

Female

8 1.1. State: 1. Haryana

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1.3. Block/Ward:

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1.6. Village/Mohalla:

1.5. Sub-Centre

4. Rajasthan

1.2. District H.Q. Town: _____

1.6.1 Hamlet:

1.7. House Number:

1.8. Name of Head of Household:

Household:

Date of Checking:

2. Particulars of usual resident members of household Total Male 2.1. Total Members

S.0/W.0 ____

Name	e of	Investigator:		Signature	
Date	e of	Interview:			
	2.3.	Children below 5 years	<u> </u>		<u></u>
	2.2.	Married		- <u></u>	<u> </u>

Checked by:_____ Signature:_____

ANNEXURE 3

PROFORMA ALMINISTERED BY SUPERVISORS TO CHECK THE WORK OF INVESTIGATORS

District Name:

Block Name:

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Village Name:

1. Name of the Mother and Address

2. Whether the child is having diarrhoea for the last 30 days l. yes 2. No 3. Whether the child is having diarrhoea for the last 24 hours l. Yes 2. No 4. Whether she knows how to prepare ORS l. Yes 2. No 5. Whether she prepared ORS l. Yes 2. No 6. Whether she knows how to prepare SSS 1. Yes 2. No 7. Whether she prepared SSS l. Yes 2. No.

ANNEXURE 4

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Table

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6

ADDITIONAL TABLES

(Tables 1 - 6)

Page Description Distribution of villages by source of availability of **ORS** packets 215 Distance of Educational facilities from the village 216 No. and type of source of drinking water 217 Distribution of villages by availability, quantity and quality of drinking water 218 . 219 Distribution of villages by drainage system Distribution of mothers/caretakers recognising ORS packets 220

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S.No	. Slate	No. of villages	Untrained Dal	Trained Dai	Village Henith Guide	Agnnwndi workers		Multi- purpose heaith workers (MPIIW Male)	Lady Henith visitor		Govt. Hospital/ dispensary		Store	Registered Medical 'ractitloner (RMP)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1.	Haryana	19	0 (0.0)	0 (0.0)	0 (0.0)				13 (68.4)		19 (100.0)	1 (5.3)	0 (0.0)	
2.	Maharashtra	55	3 (5.5)	6 (10.9)	16 (29.1)				15 (27.3)			13 (23.6)	17 (30.9)	
3.	Orissa	' 19	0 (0.0)	3 (15.8)	-	1 (5.3)	10 (52.6)		11 (57.9)			4 (21.1)	16 (84.2)	-
4.	Rajasthan	64	0 (0.0)	1 (1.6)	0 (0.0)				28 (43.8)			46 (71.9)	56 (87.5)	
5.	Tamil Nadu	45	2 (4.4)	6 (13.2)	5 (11.1)		34 (75.5)		37 (82.2)	45 (100.0)		16 (35.5)	36 (80.0)	
6.	Uttar Pradesh	133	0 (0.0)	0 (0.0)	13 (9.6)				18 (13.3)			66 (48.9)	71 (52.6)	
	Total :	335	5 (1.5)	16 (4.8)	37 (11.0)		167 (49.9)	109 (32.5)	122 (36.4)			146 (43.6)	196 (58.5)	

Table 1 : Distribution of villages by source of availability of ORS packets

Figures in parenthesis are the percentages Note : Percentages are calculated on the basis of Col. 3.

(215)

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N	n. State	No. of Villages	Prin	nary Scho	xol	MI	ddie Scho	ot		gh/llighe ridary Sch			lon-formal cation Cer	
		×	Less than 1 km.	i-J kms.	4+ kms.	Upto 1 km.	2.7 kms.	8+ km5.	Upto 1 km.	2-7 knts,	8+ kms.	Upto 1 km.	2.7 kms,	8+ kms.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
١.	Haryana	19	15 (78.9)	4 (21.1)	-	12 (63.2)	7 (36.8)	0 (0.0)	7 (36.8)	11 (57.9)	1 (5.3)	19 (100.0)	0 (0.0)	0 (0.0)
2.	Maharashira	55	52 (94.6)	1 (1.8)	2 (3.6)	29 (52.7)	23 (41.8)	3 (5.5)	21 (38.2)	25 (45.4)		.53 (96.4)	2 (3.6)	0 (0.0)
3.	Orissa	19	16 (84.2)	3 (15.8)		9 (47.4)	10 (52.6)	0 (0.0)	3 (15.8)	12 (63.2)	4 (21.1)	16 (84.2)	3 (15.8)	0 (0.0)
1.	Rajasthan	64	59 (92.2)	3 (4.7)		24 (37.5)	32 (50.0)	8 (12.5)		31 (48.4)	21 (32.8)	48 (75.0)	12 (18.8)	4 (6.2)
5.	Tamil Nadu	45	40 (88.9)	5 (11.1)	. –	22 (48.9)	20 (44.4)	3 (6.7)		20 (44.4)	3 (6.7)		0 (0.0)	0 (0.0)
6.	Uttar Pradesh	133	105 (78.9)	22 (16.6)		77 (57.9)	51 (38.3)			58 (43.6)			3 (2.3)	
	Total :	335	287 (85.7)	38 (11.3)		173 (51.6)	143 (42.7)	19 (5.7)	127 (37.9)	157 (46.9)	51 (15.2)	311 (92.8)	20 (6.0)	

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Table 2: Distance of educational facilities from the village

Figures in the parenthesis are the percentages Note: Percentages are calculated on the basis of Col. 3.

(216)

S. No.	State	No. af villages							So	urce of dr	inking	water su	ply							
1444		VIIIAKES	ſ	onds	T	lanks		reams/ Rivers		overed Wells	wi	en weils h para- et wall	SI	p wells	Ha	nd pumps	•	ed water Taps)	Te	be Wells
			Total No.	No. useđ for drinking waler	Total No.	No. used for drinking water														
1	2	3	4	5	6	7	8	9	10	ft	12	13	14	15	16	17	18	19	20	21
ł.	Haryana	19	° 27	1 (3.7)	13	0 (0.0)	4	0 (0.0)	0	0 (0.0)	83	40 (48.2)	0	0 (0.0)	1949	1948 (99.9)	86	85 (98.8)	447	90 (20.1)
2.	Maharashira	55	6	2 (33.3)	17	2 (11.8)	37	11 (29.7)	3	3 (100.0)	248	196 (79.0)	120	17 (14.2)	308	157 (51.0)	201	186 (92.5)	24	22 (91.7)
3.	Orissa	19	93	82 (88.2)	60	15 (25.0)	16	15 (93.7)	1	0 (0.0)	112	101 (90.2)	0	0 (0.0)	25		0	0 (0.0)	75	69 (92.0)
f.	Rajas than	64	58	8 (13.8)	37	11 (29.7)	26	7 (26.9)	5	5 (100.0)	1027	479 (46.6)	82	59. (71.9)	303	268 (88.4)	200	200 (100.0)	12	12 (100.0)
i.	Tamil Nadu	45	95	 (1.1)	27	22 (81.5)	15	7 (46.7)	4	0 (0.0)	91	44 (48.4)	1	0 (0.0)	425	288 (67.8)	464	459 (98.9)	11	11 (100.0)
j.	Uttar Pradesh	133	437	0 (0.0)	423	2 (0.5)	44	9 (20.5)	106	95 (89.6)	1534	1206 (78.6)	53	52 (98.1)	8889	7567 (85.1)	21 ·	21 (100.0)	1203	797 (66.2)
	Total :	335	716	94 (13.1)	577	52 (9.0)	142	49 (34.5)	119	103 (86.6)	3095	2066 (66.8)	256	128 (50.0)	11899	10246 (86.1)	972	951 (97.8)	1772	1001 (56 .5)

Table 3: Number and type of source of drinking water

Figures in parenthesis are the percentages Note : Percentages are calculated on the basis of total No.of each source of drinking water.

(217)

S.No.	State	No.of villages	available	water supply throughout year?		ty of water supply ng summer	Quality of water supply during summer		
		•	Yes	No	Sufficient	Not sufficient	Clean	Muddy	
[2	3	4	5	6	7	8	9	
1.	Ha ryana	19	8 (42.1)	11 (57.9)	5 (26.3)	14 (73.7)	8 (42.1)	11 (57.9)	
2.	Maharashtra	55	39 (70.9)	16 (29.1)	25 (45.5)	30 (54.5)	37 (67.3)	18 (32.7)	
3.	Orissa	19	15 ' (78.9)	4 (21.1)	0 (0.0)	19 (100.0)	1 (5.3)	18 (94.7)	
4.	Rajasthan	64	49 (76.6)	15 (23.4)	23 (35.9)	41 (64.1)	31 (48.4)	33 (51.6)	
5.	Tamil Nadu	45	22 (48.9)	23 (51.1)	9 (20.0)	36 (80.0)	15 (33.3)	30 (66.7)	
6.	Uttar Pradesh	133	125 (94.0)	8 (6.0)	86 (64.7)	47 (35.3)	10:3 (77.4)	30 . (22.6)	
	Tolal :	335	258 (77.0)	77 (23.0)	148 (44.2)	187 (55.8)	195 (58.2)	140 (41.8)	

Table 4: Distribution of villages by availability, quantity and quality of drinking water

Figures in parenthesis are the percentages Note : Percentages are calculated on the basis of Col. 3.

(218)

S.No. State Na.of Drainage Water flow Outlet of Maintenance Cleaning **Drains** treated villages in the drains the drains of drains of drains with insvicide type Kucha Pacca Stag- Running Dug- Conne- Linked Linked No Privately Publ- Never Some- Regul- Never Some- Regulnant pit cted to with with with proper kly times arly times arly the kit- mains village river/ outfield chen tank let garden 2 3 4 5 6 7 9 10 11 12 13 14 15 16 17 18 19 20 21 8 I. Haryana 19 14 10 2 0 0 0 16 3 14 11 2 5 9 8 9 1 6 (0.0) (84.2) (15.8) (21.1) (73.7) (73.7) (26.3) (47.4) (52.6) (10.5) (42.1) (47.4) (0.0) (0.0) (5.3) (57.9) (31.6) (10.5) Maharashtra 55 32 23 20 10 2. 50 25 18 12 13 D 24 26 5 25 (0.0) (58.2) (41.8) (43.6) (47.3) (90.9) (9.1) (54.5) (45.5) (32.7) (21.8) (14.5) (23.6) (7.3) (9.1) (45.5) (36.4) (18.2) Orissa 19 12 0 3. 19 0 19 18 19 0 8 -2 - 1 (0.0) (100.0) (5.3) (100.0) (0.0) (36.8) (63.2) (42.1) (0.0) (42.1)(10.5) (5.3) (0.0) (94.7) (0.0) (100.0) (0.0) (0.0) 0 4. Rajasthan 64 64 30 34 11 1 36 0 13 43 21 37 27 0 55 g (46.9) (53.1) (17.2) (1.6) (56.2) (0.0) (20.3) (67.2) (32.8) (57.8) (42.2) (0.0) (85.9) (14.1) (0.0) (100.0) (0.0) (4.7) 36 0 Tamil Nadu 45 30 15 28 15 2 9 5. 45 0 31 14 11 25 0 0 6 - 3 (100.0) (0.0) (68.9) (31.1) (24.4) (55.6) (13.3) (6.7) (0.0) (0.0) (66.7) (33.3) (62.2) (33.4) (4.1) (80.0) (20.0) (0.0) Uttar Pradesh 133 2 118 15 83 101 - 30 6. 129 69 64 72 10 16 29 -5 1 49 1 (1.5) (0.7) (88.7) (11.3) (36.8) (62.4) (0.3) (75.9) (22.6) (97.0) (3.0) (51.9) (48.1) (54.2) (7.5) (12.0) (21.8) (3.8) 335 258 77 160 166 9 247 -74 -14 Total : 321 14 176 159 122 58 83 10 14 48 (95.8) (4.2) (52.5) (47.5) (36.4) (17.3) (14.3) (24.8) (3.0) (4.2) (77.0) (23.0) (47.8) (49.5) (2.7) (73.7) (22.1) (4.2)

Table 5: Distribution of villages by drainage system *

Figures in parenthesis are the percentages

Note : Percentages are calculated on the basis of Col. 3.

*Drains in all the villages under study were found uncovered.

(219)

			Rur	at .			Urbi	in .			Tet	nl	
S. No.	State/ District	Govt. ORS	Comm- erelal ORS	Can't Recognise	Total	Govt. ORS	Comm- ercial ORS	Can't Recognise	Total	Govt. ORS	Comm- ercial ORS	Can'i Recognise	Total
1	2	3	4	5	6	7	8	9	19	11	12	13	14
	HARYANA												
DI	Ambala	85 (32.7)	44 (16.9)	131 (50.4)	260	45	291 (60.3)	147 (30.4)	483	130 (17.5)	335 (45.1)	278	74:
02	Gurgaon	(32.7) 19 (9.9)	(18.9) 55 (28.8)	(50.4) 117 (61.3)	191	(9.3) 12 (4.9)	(00.3) 172 (70.5)	(30.4) 60 (24.6)	244	(173) 31 (7.1)	(43.1) 227 (52.2)	(37.4) 177 (40.7)	43
	Toink	104 (23.1)	99 (21.9)	248 (55.0)	451	57 (7.8)	463 (63.7)	207 (28.5)	727	161 (13.7)	562 (47,7)	455 (38.6)	117
	MAHARASITT	RA						-					
)]	Wardha	81 (42.2)	20 (10.4)	91 (47.4)	192	18 (7.7)	131 (56.0)	85 (36.3)	234	99 (23.2)	151 (35.4)	176 (41.4)	420
н	Amravati	82 (48.2)	22 (12.9)	66 (38.8)	170	46 (7.8)	356	186 (31.6)	588	128 (16.9)	378 (49.9)	252 (33.2)	75
)5	Sangli	49 (8.7)	18 (3.2)	495 (88.1)	562	7 (3.6)	77 (39.3)	112 (57.1)	196	56 (7.4)) 95 (12.5)	`607 (80.1)	75
Ж	Chandrapur	\$1 (22.5)) 11 (4.8)	165 (72.7)	227	26 (8.8)	85 (28.7)	185 (62.5)	296	77 (14.7)	96 (18.4)	350 (66.9)	52
	Total:	263 (22.8)	71 (6.2)	817 (71.8)	1151	97 (7.4)	649 (49.4)	568 (43.2)	1314	.360 (14.6)	720 (2 ? .2)	1385 (56.2)	246
	ORISSA										•		
)7	Phulbani	33 (18.3)	13 (7.2)	134 (74.5)	180	27 (18.2)	52 (35.1)	69 (46.7)	148	60 (18.3)	65 (19.8)	203 (61.9)	• 32
8	Baleswar	17 (12.3)	45 (32.6)	76 (55.1)	138	4 (2.7)	114 (76.0)	32 (21.3)	150	21 (7.3)) 159 (55.2)	108 (37.5)	28
	Total:	50 (15.7)	58 (18.3)	210 (66.0)	318	31 (10.4)	166 (55.7)	101 (33.9)	298	81 (13.1)	224 (36.4)	311 (50.5)	61

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T	otal:	284 (8.2)	1187 (34.1)	2005 (57.7)	3476	149 (4.0)	2755 (72.6)	889 (23.4)	3793	433 (6.0)	3942 (54.2)	2894 (39.8)	7269
,		(1.9)	(10.5)	(87.6)		(1.1)	(52.1)	(46.8)		(1.6)	(23.4)	(75.0)	
4 B	lijnor	4	22	184	210	1	49	44	94	5	71	228	304
		(13.5)	(24.3)	(62.2)		(4.7)	(71.8)	(23.5)		(7.2)	(58.2)	(34.6)	
I SI	hahjahanpur	15	27	69	111	13	199	65	277	28	226	134	388
		(6.2)	(33.7)	(60.1)		(2.6)	(71.8)	(25.6)		(3.7)	(60.7)	(35.6)	
: M	luradabad	31	170	303	504	32	872	310	1214	63	1042	613	171
		(9.7)	(30.2)	(60.1)		(7.4)	(74.9)	(17.7)		(9.2)	(40.2)	(50.6)	
D)eoria	68	212	421	701	15	152	36	203	83	364	457	90
		(9.6)	(39.6)	(50.8)	-	(3.2)	(95.2)	(1.6)		(8.7)	(47.6)	(43.7)	•
S	ultanpur	.35	144	185	364	2	59	1	62	37	203	186	42
1.4		(18.1)	(23.1)	(58.8)	-01	(4.7)	(71.9)	(23.4)		(7.2)	(62.9)	(29.9)	
B	arcilly	51	65	165	281	58	890	289	1237	109	955	454	151
L,	Au 40 11	(11.8)	(49.1)	(39.1)	<i>417</i>	(5.8)	(75.2)	(19.0)		(8.5)	(63.5)	(28.0)	
E	lawah	(4.3) 33	(40.3)	(33.2)	279	20	261	(22.0) 66	347	53	398	175	62
B	arabanki	27 (4.5)	242 (40.3)	332 (55.2)	601	(2.6)	116 (74.8)	(22.6)	100	(4.1)	(47.4)	(48.5)	15
**	a a a la a a la f	(4.7)	(39.5)	(55.8)	(01	(2.0)	(77.0)	(21.0) 35	155	(3.8) 31	(51.7) 358	(44.5) 367	75
B	lasti	20	168	237	425	4	157	43	204	24	325	280	62
U	TTAR PRADES	н ,											
		(28.2)	(15.5)	(56.3)		(7.9)	(58.8)	(33.3)		(17.5)	(?8.5)	(44.0)	
T	otal:	381	210	760	1351	1 2 t	899	508	1528	502	1109	1268	287
	•	(21.4)	(13.3)	(65.3)		(10.9)	(73.4)	(14.7)		(17.3)	(36.9)	(45.8)	
1	hanjavur	161	100	492	753	52	353	7 0	475	213	453	562	122
•		(51.0)	(24.1)	(24.9)		(2.0)	(64.3)	(33.7)	••••	(27.0)	(43.8)	(29.2)	
17	ĩrunelveli	129	61	63	253	5	157	82	244	134	218	145	49
	A1C191	(26.4)	(14.2)	(59.4)	545	(7.9)	389 (48.1)	(44.0)	009	(13.4)	(.8.0)	(48.6)	113
	alem	91	49	205	345	6 4	200	356	809	155	438	561	115
	AMILNADU		()										
T	otal:	81 (5.8)	154 (11.1)	1159 (83.1)	1394	195 (12.7)	542 (35.5)	7 92 (51.8)	1529	276 (9.4)	696 (23.8)	1951 (66.8)	292
		(11.3)	(4.7)	(84.0)		(21.2)	(34.6)	(44.2)		(13.1)	(10.0)	(76.9)	
D	Jungrapur	55	23	408	486	22	36	46	104	77	59	454	59
,	11114914	(2.7)	(9.1)	(88.2)	217	(9.8)	(18.2)	(72.0)	3/7	(7.2)	(14.9)	(77.9)	
B	hilwara	(2.9) 6	(9.0) 20	(88.1) 193	219	(5.2) 37	(39.6) 69	(55.2) 273	379	(4.1) 43	(24.5) 89	(71.4) 466	59
D B	lundi	8 (1 m	25	246	279	15	114	159	288	23	139	405	56
		(2.9)	(21.0)	(76.1)		(16.0)	(42.6)	(41.4)		(11.4)	(.15.0)	(53.6)	
	aipur	12	86	312	410	121	323	314	758	133	409	626	116

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Figures in parenthesis are the percentages.