SERIES - 3







# SURVEY OF CAUSES OF DEATH (RURAL) **INDIA** 1997

{BASED ON THE INTERNATIONAL CLASSIFICATION OF DISEASES (ICD) 10<sup>TH</sup> REVISION}

## **ANNUAL REPORT**

### OFFICE OF THE REGISTRAR GENERAL, INDIA NEW DELHI

### Registrar General of India (in charge of the census of India and Vital statistics)

Office Address:	2 A Mansingh Road New Delhi 110011, India
Telephone:	(91-11) 3383761
Fax:	(91-11) 3383761
E mail:	rgindia@hub.nic.in
Internet:	http://www <u>.censusindia.n</u> et

Registrar General of India's publications can be purchased from the following:

- The Sales Depot (Phone : 3386583)
   Office of the Registrar General, India
   2 A Mansingh Road
   New Delhi 110011, India
- Directorates of Census Operations In the capital of all states and union territories in India
- The Controller of Publication Old Secretariat, Civil Lines Delhi 110054
- Kitab Mahal
   State Emporia Complex, Unit No.21
   Baba Kharak Singh Marg
   New Delhi 110001
- Sales outlets of the controller of Publication all over India

Census data available on floppy disks can be purchased from the following:

 Office of the Registrar General, India Data Processing Division
 2<sup>nd</sup> Floor, 'E' Wing
 Pushpa Bhawan
 Madangir Road
 New Delhi 110062, India

Telephone:	(91-11) 6981558
Fax:	(91-11) 6980295
E mail:	rgdpd. <sup>sz</sup> rgi.satyam.net in

Registrar General of India

The contents of this publication may be quoted citing the source clearly

\_ \_ \_ \_

- -- --

.

## **CONTENTS**

Foreword		Page No.
Chapter I	INTRODUCTION	1 - 6
	Background History Objective Coverage Receipt of monthly returns Implementing Agencies Methodology Limitations of the survey Review cum training workshop	
Chapter II	ANALYSIS OF DATA BY MAJOR CAUSE – GROUP (AS PER INTERNATIONAL CLASSIFICATION OF DISEASES (ICD)- 10 <sup>TH</sup> REVISION) Age & Sex distribution	7 - 15
Chapter III	TOP TEN KILLER DISEASES IN RURAL INDIA	16 - 25
Chapter IV	ANALYSIS OF CAUSES OF DEATH BY AGE & SEX	26 - 38
	Infant deaths Child Deaths(1 - 4 years) Child Deaths(5 - 14 years) Maternal Mortality & Female deaths Old age deaths (60 yeas & above)	
Anne	xures	
	Tables(I-III) List of causes of death as per International Classification of Diseases (ICD) 10 <sup>th</sup> revision	39 - 50 51 - 59

### FOREWORD

This report is the thirtieth annual report on the results of the 'Survey of Causes of Death' in rural areas and relates to the year 1997. The survey is conducted continuously in sample villages of selected Primary Health Centres (PHCs). It bridges an important gap in statistics on causes of death for rural areas. During 1997, 2059 PHC villages were covered under the survey and 44,409 deaths were reported and casuses of death were identified based on lay diagnosis reporting (Post Death Verbal Autopsy).

This report is the third in the series of reports where the presentation and analysis of major causes of death has been attempted according to the **International Classification of Diseases (ICD) 10<sup>th</sup> Revision**. The first report given the analysis according to ICD classification pertains to the year 1995. The presentation of causes of death has been done by age and sex of the deceased. The specific causes of death have been analysed on the earlier pattern and corresponding ICD codes have been provided wherever possible. Attempt has also been made to identify diseases of the old age. Besides this, as in previous years, ten top killer diseases among all deaths excluding senility have been analysed.

This survey, conducted since 1965, would not have been successful without the active cooperation of the State Health and Statistics Directorates, who shouldered the major responsibility of field implementation of the scheme through the Medical Officers of the concerned Primary Health Centres. The present report has been prepared by Shri Anand Kumar, then Deputy Director and Shri Lokeswar Das, Investigator, finalised by Shri D.K. Dey, Assistant Director under overall guidance of Shri S.K. Sinha, Deputy Registrar General and ably assisted by the staff of the Survey of Causes of Death Unit.

July 2000 New Delhi

J.K.BANTHIA Registrar General, India

### CHAPTER - I

### INTRODUCTION

### 1.1 Background

Mortality influences the rate of growth of the population and provides the dimension of demographic perspective which is vital for socio-economic planning. The pattern of deaths by causes reflects the health status of the community and in turn provides a rational basis for health planning. It is not feasible to build up statistics of mortality by causes based on "Medical Certification of Causes of Death (MCCD)" due to paucity of medical institutions in rural India, where three-fourth of the population of country live. This important statistical gap has been bridged, to some extent, by the Survey of Causes of Death in selected villages of sample Primary Health Centres in rural areas.

### 1.2 <u>History</u>

- 1.2.1 The Office of the Registrar General, India initiated in the 1960s a scheme called "Model Registration Scheme" (MRS) pursuant to the recommendations made in the `Conference on improvement of Vital Statistics' held in 1961. The Model Registration Scheme [MRS] was renamed in 1982 as "Survey of Causes of Death (Rural) (SCD)".
- 1.2.2 The Third Conference of Chief Registrars of Births and Deaths in the year 1980, considered the matter of expansion of the scheme and recommended that attempts should be made to cover two Primary Health Centres per million rural population under this survey, as per 1981 Census. During 1992, on the basis of recommendations of Technical Advisory Committee on Vital Statistics and Survey (1990-91), Survey of Causes of Death (Rural) was planned to be extended to 2500 selected PHCs at the rate of 4 PHCs per one million rural population based on 1991 census. Following changes in basic concept and coverage were enforced w.e.f. 1995,
- i) A complete sub-centre <u>3-6 Kms away</u> from the Head quarter of the Primary Health Centre having <u>5000 population</u> to be selected for the survey.
- ii) All the events of deaths and births related to the <u>"Usual resident"</u> of the villages under sub-centre irrespective of place of occurrence should be covered under survey.

iii) <u>"Population at risk"</u> concept was introduced during 1994 with a view to study causes of death in relation to the population of the survey unit by age and sex.

### 1.3 **Objective**

The primary objective of the survey is to build up statistics on <u>"Most Probable</u> <u>Cause of Death"</u> for rural India, states and union territories, using "Lay diagnosis reporting (Post Death Verbal Autopsy)" method through post death enquiry based on symptoms, conditions, duration and anatomical site of the disease as reported by family members of the deceased.

### 1.4 <u>Coverage</u>

1.4.1 During 1997 the survey was conducted in 1909 selected PHCs spread over 23 States and 3 Union territories . However, from the states of Jammu & Kashmir, no returns of causes of death were received during the year. In respect of Andhra Pradesh and Bihar, the returns were received only for 183 and 105 units out of 200 and 130 units respectively while from West Bengal, the data were received from 16 PHCs only out of 100 PHCs. In case of Punjab also, data were received in respect of 65 PHCs out of 70 sample PHCs. As regards smaller states of Meghalaya and Nagaland, data were received for 7 units each out of 10 PHCs of each state. Details of 1909 selected PHCs and population covered during 1997 are given in Statement 1. The survey is presently not being implemented in Andaman & Nicobar Islands, Chandigarh, Daman & Diu, Lakshadweep, Mizoram, while in Pondicherry the scheme has been implemented w.e.f. 1.1.1997 and in Sikkim the scheme is being implemented w.e.f. 1-1-98.

### 1.5 **Receipt of monthly returns**

١

1.5.1 Statewise details of coverage of selected PHCs, monthly returns received from the field and total number of deaths reported from the survey centres for the year 1996 & 1997 have been presented in Statement 1. For the year 1997, survey data was received completely (i.e. more than 95 percent) from the states of Arunachal Pradesh, Gujarat, Haryana, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Orissa, Rajasthan, Tamil Nadu, Tripura, Dadra & Nagar Haveli, Delhi and Pondicherry. Monthly returns received from the rest of state implementing agencies are below 95 percent. Analysis of the survey data for the year 1997 at the national level is based on 96 percent of the expected returns. Thus, the monthly returns from the scheme of survey of causes of death were being received from 1909 sample units out of 2059 selected PHCs.

### 1.5.2 <u>Number of deaths reported</u>

During 1997, 44,409 deaths were reported from the survey units, as against 43,168 deaths in 1996. The number of deaths reported during 1997 were higher

than those in 1996 in respect of the states of Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Haryana, Himachal Pradesh, Kerala, Madhya Pradesh, Manipur, Meghalaya, Nagaland, Orissa, Punjab, Rajasthan, Tripura, Uttar

Pradesh, Dadra and Nagar Haveli and Delhi. In the states of Goa, Gujarat, Karnataka, Maharashtra, Tamil Nadu the number of deaths reported in 1997 were on the lower side as compared to 1996. However, significant improvement in reporting of the number of deaths has been noticed in the states of Andhra Pradesh, Haryana, Orissa, Rajasthan and Dadra & Nagar Haveli.

### Statement 1

## Number of selected PHCs, receipt of monthly returns, total number of reported deaths and population covered under survey 1997

Sl.	State/UTs	No. of	Monthly	returns re	ceived	Numb	er of	Population
No.		selected	Number	Percen	tage	deaths re	eported	covered
		PHCs			J		•	under
			1997	1996	1997	1996	1997	survey
1	Andhra Pradesh	200	1829	100.0	83.3	3861	4785	411705
2	Arunachal Pradesh	12	140	89.6	97.2	59	81	4390
3	Assam	59	566	85.7	98.3	470	507	100951
4	Bihar	130	1260	93.8	100.0	1726	1763	342350
5	Goa	10	100	97.5	83.3	226	217	37918
6	Gujarat	100	1200	100.0	100.0	1351	1299	182589
7	Haryana	50	600	96.5	100.0	1029	1162	130151
8	Himachal Pradesh.	35	418	95.2	100.0	714	729	52206
9	Jammu & Kashmir		NA	NA		NA	NA	
10	Karnataka	100	1200	100.0	100.0	1841	1780	136292
11	Kerala	74	888	99.2	100.0	947	954	145075
12	Madhya Pradesh	200	2329	97.9	97.0	5988	6035	322340
13	Maharashtra	250	3000	100.0	100.0	8561	7616	1127885
14	Manipur	10	118	96.7	98.3	98	104	16069
15	Meghalaya	10	82	53.3	97.6	147	187	4768
16	Nagaland	10	78	84.3	92.9	107	118	17392
17	Orissa	46	538	94.7	99.6	1147	1413	156920
18	Punjab	70	771	95.4	98.8	1306	1372	198131
19	Rajasthan	60	720	99.0	100.0	2015	2137	249421
20	Tamil Nadu	150	1800	100.0	100.0	5916	5738	267835
21	Tripura	10	118	91.7	98.3	146	177	17658
22	Uttar Pradesh	350	3758	87.7	89.5	5018	5220	554441
23	West Bengal	100	150		78.1		104	• N.A.
24	D & N Haveli	6	72	38.9	100.0	387	543	NA
25	Delhi	5	60	100.0	100.0	108	118	16100
26	Pondicherry	12	144	NA	100.0	NA	250	70688
	India	2059	21939	95.6	95.8	43,168	44,409	45,63,275

1.5.3 To highlight the progress and coverage at all India level, information for the last 10 years (1988-1997) has been compiled and presented in Statement 2. This statement gives a comparative picture at all India level showing the number of selected survey units, receipt of monthly returns and total number of reported deaths for the years 1988-97.

### Statement 2

### Number of selected survey units (PHCs), receipt of monthly returns, total reported deaths, India, 1988-1997

Year	Selected	Monthly I	Returns					Deaths
	no. of			Per-	Rep	per		
1	Sample	Expected	. Recd.	cen-	Persons	Male	Female	PHC
·	Units			tage				
1988	1305	15,660	14,169	90.5	22,950	12,667	10,283	18
1989	1305	15,660	13,875	88.6	21,409	11,915	9,494	16
1990	1305	15,660	13,465	86.0	21,028	11,848	9,180	16
1991	- 1303	15,636	13,070	83.5	22,629	12,604	10,025	17
1992	1305	15,660	13,668	87.3	26,118	14,745	11,373	20
1993	1407	16,884	14,991	95.3	29,597	16,306	13,291	21
1994	1731	20,772	20,120	97.1	36,799	20,084	16,715	21
1995	1731	20,772	19,945	96.0	37,831	20,819	17,012	22
1996	1883	22,080	21,110	95.6	43,168	23,903	19,265	23
1997	1909	22,908	21,939	95.7	44,409	25,081	19,328	23

### 1.6 **Implementing Agencies**

1.6.1 The implementing agencies for the survey at the state level are the Directorates of Health & Family Welfare and the State Bureau of Economics & Statistics. In most cases, the implementing agencies for the Survey of Causes of Deaths are the Chief Registrars of Births and Deaths under the Registration of Births and Deaths Act, 1969.

### 1.7 <u>Methodology</u>

### 1.7.1 **Officials engaged in the survey and their duties**

The survey is confined to the sample village of population 2000-5000 persons of the selected PHC. The Medical Officer Incharge of the PHC, Recorder (Statistical Computor), 'Field agent (para medical staff - Lady Health Visitor, ANM, Sanitary Inspector, etc.) and Statistical Officer are main functionaries of the survey. The assigned work for each official as defined in Part I of the Manual of Instructions are given in the following paragraphs.

### 1.7.2 Medical Officer Incharge

Medical Officer Incharge is the technical advisor for the survey work at PHC level. He guides the field agent regarding probable cause of death, as per the manual of <u>Non-Medical List II.</u> He certifies the probable cause of death in the prescribed combined Form 6A+7. He appoints the field workers for the survey and ensures the smooth transfer of records in the event of change of field workers.

### 1.7.3 Recorder

He collects the basic information of the survey and prepares two copies of a notional map of the complete sub-centre, listing of the residential/non-residential houses in Form 1 and details of family members of the residential houses in Form 1A as part of <u>Base line survey</u>. After six months (July/January) he updates the household register (Form 1A) by visiting each residential house and prepares the list of births and deaths and updates the population of survey unit by age & sex. After listing of all deaths and births he matches the events listed in **Birth Register (Form 3A) and Death Register (Form 3)**. Unmatched left out events of deaths and births are to be recorded in registers. In the case of death events, a combined Form 6A+7 has to be filled in by field agent.

### 1.7.4 Field agent

Field agent is the most important worker under the survey. Normally the field agent is appointed from the beat area of the selected sub-centre and he/she does the survey work during his/her normal duty/work. Field agent has to establish <u>information system</u> selecting the informants (Dai, Nai, Chowkidar, Social Worker, Village Head etc.) by localities on the basis of notional map and their names are to be written on Death Register (Form 3, 3A). During his/her normal visit to the area of sub-centre he/she collects information about deaths/births from the informants and visits the concerned households. For every death event, a combined Form 6A+7 i.e. Symptom Record Form and Medical Officer's Check Report has to be filled in and enclosed with monthly returns. Field agent prepares copies of Form 3A, 3 and along with Form 6A+7 duly signed by the Medical Officer Incharge and sends them to State Headquarters within 15 days of the next month.

### 1.7.5 Statistical Officer

The Investigator of the Census Directorates deputed for SCD is designated as "Statistical Officer" and posted to the State implementing agency in major states to co-ordinate and assist the implementing agency for conduct of the survey effectively and to inquire into the completeness of coverage of events with special reference to infant deaths and maternal deaths. Guidance and corrective instructions have to be given by him to the field staff. He is supposed to visit at least 4 PHCs in a month.

### 1.8 Limitations of the Survey

- 1.8.1 The probable causes of death as revealed by this survey on the basis of the postdeath investigation adopting the `Lay diagnosis Technique (Post death Verbal Autopsy)' by the para-medical staff of the primary health centre with reference to the prescribed non-medical list are just proxies for exact causes that could have been known firmly through medical certification procedure, had medical attendance been availed of during the last illness of the deceased.
- 1.8.2 The reliability of information on symptoms at the time of death given by the family members is based on the cooperation and coherent description on the part of respondents.
- 1.8.3 Recording of symptoms is undertaken by the field agent having working knowledge of symptoms of specific causes of death. The cause of death statistics given by this survey therefore is reliable depending upon the respondent's efficiency in describing the symptoms and conditions.
- 1.8.4 Number of maternal deaths netted by the survey are extremely small and as such proportion, so worked out are subject to large yearly fluctuations. Hence, reliability of the estimates cannot be guarented.
- 1.8.5 Coverage of the survey is limited **only to rural areas**. The urban areas being completely left out, no valid estimates can be built up from the survey either for the state as a whole or for India.

### 1.9 <u>Review-cum-training workshop on SCD (R)</u>

- 1.9.1 During 1996-97, 'Review-cum-reorientation training programmes' on Survey of Causes of Death (Rural) were organised at State/Divisional level for the states of Andhra Pradesh, Bihar, Gujarat, Goa, Haryana, Kerala, Orissa, Pondicherry, Sikkim, Tamil Nadu, Uttar Pradesh and West Bengal which were attended by Medical Officers, Field agents, Field Recorders and other statistical personnel involved in the scheme covering more than 1200 PHCs of these states.
- 1.9.2 Though the analysis of the data in this report has been done according to ten major cause-groups, an attempt has been made to present the survey data on the basis of ICD Codes Xth revision by giving corresponding ICD Codes for better comparative study and analysis of data. List of ten major cause-groups with corresponding ICD Codes has been given at the end of this report.

ø

### CHAPTER II

### ANALYSIS OF DATA

### (AS PER INTERNATIONAL CLASSIFICATION OF DISEASES (ICD) 10th REVISION)

- 2.1 In this chapter, the data collected through the Survey of Causes of Death (Rural) according to ten major cause-groups has been presented as per International classification of Diseases-10th Revision. This is for the third year in succession that the data has been classified according to ICD.
- 2.1.1 International Classification of Diseases 10th revision (ICD) was adopted in the "Survey of Causes of Death (Rural)" during 1995. In 1997 also, an attempt has been made to present the data based on ICD Classification for the major cause groups. All the specific causes have been grouped according to ICD major causes and a comparative analysis have been presented for the last five years.
- 2.1.2 The most useful information provided by the survey relates to the distribution of deaths according to ten major cause-groups of deaths. These ten major cause-groups comprise number of specific diseases, which have associated symptoms usually observed during the advanced stage of the diseases. There are 56 specific cause grouped into these 10 major cause-groups as per non-medical list used in the survey. These 56 specific causes have been classified and presented according to International Classification of Diseases structured in 19 major cause-groups.
- 2.1.3 The percentage distribution of deaths by major cause-groups according to **International Classification of Diseases** (ICD) for the last five years has been presented in Statement 3. Graphical representation according to ICD classification is presented in <u>Bar diagram I.</u>

### PERCENTAGE DISTRIBUTION OF DEATHS BY MAJOR CAUSE-GROUPS INDIA (RURAL), 1993-1997

### (AS PER INTERNATIONAL CLASSIFICATION OF DISEASES - X REVISION)

SL.	CODE				Percent	-	
NO		MAJOR CAUSES OF DEATH	1993	1994	1995	1996	1997
1	R	SYMPTOMS, SIGNS AND ABNORMAL CLINICAL	26.2	24.3	18.6	20.6	19.0
		FINDING NOT ELSEWHERE MENTIONED					
2	J	DISEASES OF THE RESPIRATORY SYSTEM	14.4	15.1		17.8	16.4
3	I	DISEASES OF CIRCULATORY SYSTEM	7.6	8.2	9.5	10.9	12.1
4	Α	INFECTIOUS AND PARASITIC DISEASES	12.5		11.9		10.0
5	Р	CONDITIONS ORIGINATING IN THE	10.0	9.0	9.2	7.9	8.7
		PERINATAL PERIOD					
6	G	INFLAMATORY DISEASES OF CENTRAL	4.2	5.0	4.8	5.6	6.0
		NERVOUS SYSTEM					
7	x	WITH VENOMOUS ANIMAL CONTACT	4.7		6.0	-	5.9
8	С	NEOPLASM	3.1	3.9	4.2		4.3
9	D	DISEASES OF THE BLOOD AND BLOOD	3.1	3.0	3.0	3.4	3.2
		FORMING ORGANS					
10	В	VIRAL INFECTION	4.2		4.7		3.1
11	v	EXTERNAL CAUSES OF MORTALITY	2,1	2.2	2.4		2.3
12	K	DISEASES OF THE DIGESTIVE SYSTEM	1,4		1.6		2.1
13	Т	INJURIES POISONING & OTHER	1.3	1.3	1.4	1.1	1.4
		CONSEQUENCES OF EXTERNAL CAUSES					
14	Έ	METABOLIC DISEASES	0.6	0.8	0.9		1.1
15	N	DISEASES OF GENITOURINARY SYSTEM	0.5		0.7		1.0
16	0	PREGNANCY, CHILDBIRTH AND PUERPERIUM	1.1	0.9	0.8		0.7
17	W	OTHER EXTERNAL CAUSES OF ACCIDENTAL	0.5	0.5	0.5	0.6	0.6
		INJURIES					
18	F	MENTAL AND BEHAVIOURAL DISORDERS	0.6		0.5		0.5
19	Q	CONGENITAL MALFORMATIONS,	0.5	0.3	0.3	0.4	0.4
	-	DEFORMATIONS AND ABNORMALITIES			<b>.</b> .		
_		OTHER MEDICALLY CERTIFIED DEATHS	1.4		2.4		1.2
		GRAND TOTAL	100.0	100.0	100.0	100.0	100.0

2.1.4 To highlight their relative importance, the major cause-groups have been arranged in descending order of percentage of deaths, accounted for each of them during 1997. The major killer according to ICD classification is the cause-group "Symptoms, signs and abnormal clinical findings" which is the top killer over the years. This major cause-group is comprised of "Acute abdomen, Jaundice, Senility & Toxaemia". It has shown the declining trend over the years, except 1996 as intensive monitoring has brought down the number of deaths reported under senility. The percentage of reported deaths during 1993 under this category is 26.2 which came down to 19.0 during 1997 except during 1996.

### Diagram – I

### PERCENTAGE DISTRIBUTION OF DEATHS BY ICD MAJOR CAUSES, 1993-1997

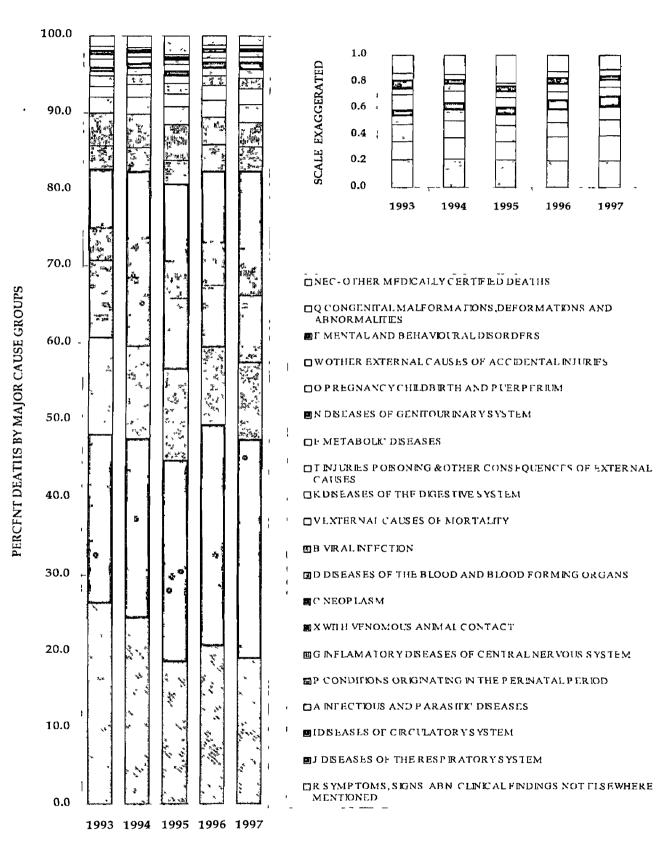
----

-----

-- ---

\_

- - -







9

- 2.1.5 The "Diseases of respiratory system" has been reported as 2nd major killer according to ICD Classification under the survey. It includes specific causes like Influenza, Pneumonia, Bronchitis and Asthma. These causes have shown an increasing trend from 1993 to 1996 but a slight decrease has been observed in 1997. The reported percentage was 15.1 during 1993 which increased to 17.8 percent in 1996 but decreased to 16.4 percent in 1997.
- 2.1.6 The major cause-group "Diseases of Circulatory System" which comprises of Heart attack and Congestive and Other Heart Diseases ranks as 3rd major killer and shows all along an increasing trend over the years in rural areas of India. The percentage of deaths reported during 1997 was 12.1 as against 7.6 in 1993.
- 2.1.7 "Infectious & Parasitic diseases" has been reported as the next major killer. This major cause-group comprises of Cholera, Typhoid & Para Typhoid, Dysentery, Diarrhoea and Gastro-enteritis, T.B. of lungs, Leprosy, Tetanus, Neo-natrum and Other Tetanus, Whooping Cough, Poliomyelitis and Rabies. This major cause-group of diseases which accounted for over 12 percent of deaths to total reported deaths in 1993 has shown a declining trend over the years.
- 2.1.8 The major cause-group "Conditions Originating in the Perinatal Period", is comprised of infant deaths due to Prematurity, Birth Injury,Respiratory infection of new born, Diarrhoea of new born and Congenital Malformation. This major cause-group has reported the percentage of deaths in the range of 8 -10 percent during 1993-97. Except 1996 which has decreased to 7.9 percent.
- 2.1.9 The major cause-group of "Inflamatory diseases of Central Nervous System" consists of Meningitis, Convulsions and Paralysis of Cerebral Apoplexy. The percentage of reported deaths to total deaths in this category ranges between 4.2 to 5.6 percent during 1993-96 which has marginally increased to 6.0 percent in 1997. Deaths due to Paralysis is an important cause in this major cause-group.
- 2.1.10 The above cause-group is closely followed by the cause-group, "Venomous animal contact" which is one of the important cause-groups for the rural areas. This group consists of Snake-bite, Scorpion bite, Exposure to excessive Heat & Cold, Victims of Natural Calamity, Intentional Self Harm (Suicide), Drowning, Assault by (Homicide). During 1997 such deaths were 5.9 percent of the total reported deaths as against 4.7 percent during 1993.

2.1.11 Deaths due to "Neoplasm", another major cause-group is showing an increasing trend over the years 1993 to 1995, but the percentage has come down

to 3.9 during 1996 but has shown an increase to 4.3 percent. This major causegroup comprises of 'Cancer'.

- 2.1.12 Deaths due to major cause-group "Diseases of the Blood and Blood forming Organs" comprises mainly of Anaemia (other than pregnancy). Deaths due to this cause group is more or less of the same order of around 3 percent over the years 1993-97.
- 2.1.13 Deaths due to "Viral infection" major cause-group have been reported to be in the range of 4.2 percent to 3.1 percent over the years 1993-97 and shows a decreasing trend. This major cause-group consists of Chicken pox, Measles and Malaria.
- 2.1.14 Major cause-group "External Causes of Mortality" consists of Vehicular Accidents and the percentage of such deaths has been reported to be around 2 percent over the period 1993-97. This major cause comprises of all Vehicular accidents according to kind and type of vehicles like Car, Truck, Cycle, Pedestrian etc.
- 2.1.15 The major cause-group "Diseases of the digestive system" is comprised of **Peptic or Gastric Ulcer**, Obstructed Hernia and Cirrhosis & Chronic liver diseases. The percentage of deaths due to this cause group has slightly gone up to 2.1 percent in 1997 as against 1.4 percent in 1993.
- 2.1.16 The major cause-group "Injuries, poisoning and other consequences of external causes" includes deaths due to Burns and Food poisoning etc. Deaths due to Burns is one of the important specific causes in this group. The percentage of deaths due to this cause-group is almost constant over the years.
- 2.1.17 Other major cause groups account for around one percent of the total reported deaths which can be seen from the Statement.

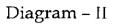
### 2.2 Age and Sex Distribution

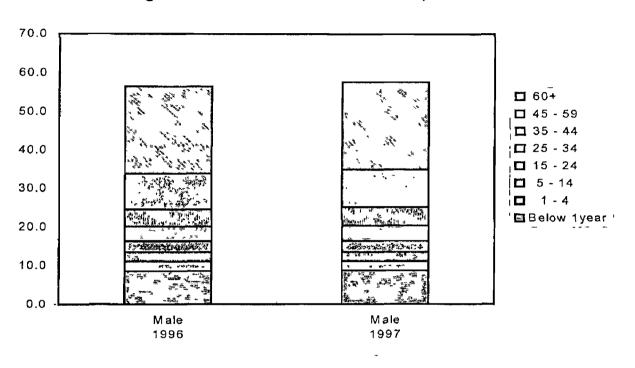
2.2.1 Age and sex are the two important demographic variables for the study of **mortality differentials.** Statement 4 shows a comparative study of percentage distribution of deaths by sex and age-groups for the year 1996 and 1997. Diagrammatic epresentation in <u>Bar diagram II</u> elaborates such distribution of deaths by age and sex.

Age-group		1996	]		1997	
in years	Male	Female	Persons	Male	Female	Persons
		2026		0.004	0001	(0)
Below 1	2999	2836	5835	3231	3031	626
year	8.5	8.0	16.4	8.7	8.1	16.
1-4	924	1081	2005	<b>91</b> 5	1005	192
	2.6	3.0	5.7	2.5	2.7	5.
5 - 14	829	825	1654	867	822	168
0 11	2.3	2.3	4.7	2.3	2.2	4.
1 <b>5 - 24</b>	1010	1087	2097	1080	1071	215
10 - 24	2.8	3.1	5.9	2.9	2.9	5
25 - 34	1327	1148	2475	1474	1155	262
20-04	3.7	3.2	7.0	4.0	3.1	7
35 - 44	1594	919	2513	1777	1008	278
00-44	4.5	2.6	7.1	4.8	2.7	7
45 - 59	3290	1695	4985	3641	1718	535
	9.3	4.8	14.1	9.8	4.6	14
60 & over	8041	5869	13910	8449	5957	1440
of a over	22.7	16.5	39.2	22.7	16.0	38
	20014	15460	35474	21434	15767	3720
Total	20014 56.4	15460 43.6	100.0	57.6	42.4	100

Number of reported deaths and their percentages by age & sex, 1996 and 1997

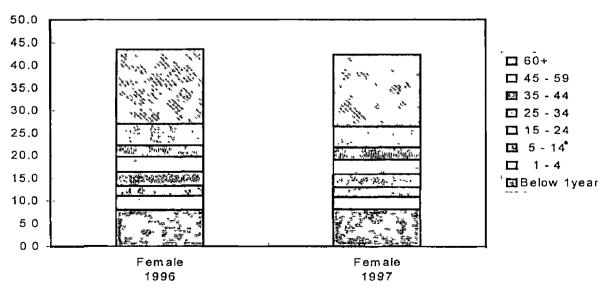
2.2.2 Total number of deaths excluding senility reported in 1997 were 37201. It was 2.8 percent higher than the reported number of deaths in 1996 (35474). This increase in percentage of reported deaths at all India level in 1997 may be attributed to better coverage and field work resulting in higher number of reported deaths from Andhra Pradesh besides significant increase in number of reported deaths from Orissa, Uttar Pradesh and Dadra & Nagar Haveli over 1996 and the reported deaths from Pondicherry which came under the scheme w.e.f. 1997. Out of the 38.7 percent reported deaths in the age group 60 & over during 1997, 22.7 percent were accounted for male deaths and 16.0 percent were that of female. With a nominal decreasing trend to the corresponding percentages for male and female deaths in 1996. The Percentage of reported deaths for infants (below 1 year) and child deaths (1-4 years) during 1997 was 16.8 and 5.2 percent while in 1996, these ercentages were 16.4 and 5.7 respectively. Sex differentials in the percentage of reported deaths in the age groups 5-14, 15-24 and 25-34 both during 1996 & 1997 are not significant.





Agewise Percent of Male Deaths, 1996-97

Agewise Percent of Female Deaths, 1996-97



- 2.2.3 The analysis of distribution of deaths by age and sex is presented in Statement 5 for major cause-groups for the year 1997. As per **International Classification of Diseases (ICD)** it is seen that percentage of deaths due to **Infectious and parasitic diseases (A)** in the age-groups 45-59 and 60 & over are significantly higher than other age-groups for both sexes. Deaths due to **Viral infection (B)** have mostly affected both the sexes in the older age group of 60 and over while deaths due to **Neoplasm (C)** have affected both males and females in the age group of 35-44 to 60 & over years of age.
- 2.2.4 Diseases of Blood and Blood forming organs (D) have affected lower agegroups i.e. below one year, 1-4 years, 45-59 and old age-group of 60&over for both sexes. The Metabolic diseases (E) have affected both male and female in the age group of 45-59 and 60 years and over . Both in the case of male & female deaths, over three-fifth of deaths have occurred in the age group 35 years & over due to the cause-group Mental and Behavioural disorders (F).
- 2.2.5 Inflamatory diseases of **Central Nervous System (G)** has mostly affected both the sexes in the age group of 60 & over . Similar trend has been observed in the deaths due to **Diseases of Circulatory System (I)**. Over three-fourth of total reported deaths in the category of **Diseases of Respiratory system (J)** have affected infants and old age persons of both sexes .
- 2.2.6 Deaths due to **Diseases of Digestive System (K)** have been reported in higher age group of 25 year and over for both the sexes. **Diseases of Genitourinary System (N)** have affected 45-59 and 60 years and over age group for both males and females.
- 2.2.7 Most of the deaths due to **Pregnancy**, **Childbirth and Puerperium (O)** have affected the females in the age group of 15-44 years. **Injuries**, **Poisoning and Other Consequences of External Causes (T)** have affected mostly the age-group of 15-59 and over years in the case of males while for females, it has affected the age-group of 15-44 years.
- 2.2.8 Over three-fifth of total deaths due to **External causes of Mortality (V)** have affected both males and females in the age-group of 15-60 and over years. Deaths due to **Other External Causes of Accidental Injuries (W)** have affected the old persons to a large extent.
- 2.2.9 Deaths due to **Venomous Animal Contact (X)** have occurred in the age-group of 15-44 years for both males and females.

# Percentage distribution of deaths for selected major cause-groups by age and sex 1997

SI.	ICD Code	Major Cause groups				Age	-group	( in ye	ars )			
No.		and a cause Breaks	Sex	Below	1-4	5-14	15-24	25-34	35-44	45-59	60&	Total
				1 Year							over	
1	A	Infectious and Parasitic diseases	Μ	6.6	6.3	5.8	5.6	11.8	12.2		i i	100.0
			F	9.3	14.1						1	100.0
2	В	Viral Infection	Μ	11.3			5.9		6.2		33.3	
			F	11.9			6.4	5.2	4.7	•		100.0
3	C	Neoplasm	М	0.3	0.8		2.2	5.0	4			100.0
	_		F	0.5	0.9	1.8	3.2	7.4	1 1			100.0
4	D	Diseases of Blood and Blood	Μ	13.7	12.8		2.7	4.4	I I			100 0
		forming organs	F	12.0			4.8	7.4				100.0
5	E	Metabolic diseases	Μ	0.4	0.0		3.0					100.0
			F	3.0	0.5	1.5	2.0	3.5	4.0			100.0
6	F	Mental and Behavioural disorders	М	0.0	8.3	9.3	11.1	13.0	1			100.0
			F	1.1	2.2	6.5	15.2	13.0				100.0
7	G	Inflamatory diseases of -	М	4.1	4.0	3.6	2.8	3.1	5.4			100.0
		Central Nervous System	F	3.7	5.3	6.0	3.3	3.9	3.2			100.0
8	I	Diseases of Circulatory System	Μ	1.2	0.6	0.8	3.0	4.9				100.0
			F	2.2	1.0		3.6	6.1	7.9	17.1		100.0
9	J	Diseases of Respiratory System	Μ	13.0	6.1	2.7	1.1	1.6		11.4		100.0
			F	16.2	9.4	3.1	1.3	1.6		8.2		100.0
10	К	Diseases of Digestive System	Μ	2.0	2.1	2.6	3.8		16.4	28.7		100.0
			F	3.9	4.2	6.7	6.4	8.1	11.0			100.0
, 11	N	Diseases of Genitourinary System	М	1.9	0.6	3.5	2.9	2.9	8.0	25.5		100.0
			F	0.7	4.3	1.4	7.8	2.8	6.4	19.9	56.7	100.0
12	o '	Pregnancy Child birth & Puerperium	F	0.0	0.0		44.4	43.8	10.8	1.0		100.0
13	Р	Conditions Originating in the Perinatal	М	100.0	0.0	0.0	0.0	0.0	0.0	0.0		100.0
I		Period	F	100.0	0.0	0.0	0.0	0.0		0.0		100.0
14 	Q	Congenital Malformations, Deformations and abnormalities	Μ	100.0	0.0	0.0	0.0	0.0		0.0		100.0
			F	100.0		0.0	0.0			0.0		100.0
15	R	Symptoms, Signs and Abnormal Clinical finding not elsewhere mentioned	М	1.8	1.2			i 				100.0
			F	1.3	1.2		2.4	2.0	0.8			100.0
16	Т	Injuries Poisoning & Other Consequences	M	4.2	4.2			1	1 1			100.0
1	i	of external causes	F	1.9	4.6		25.1					100.0
17	V	External Causes of Mortality	M	0.3	2.8		15.6			_		100.0
1 10			F	1.3	6.3							100.0
18	W	Other external causes of accidental injuries		4.8	7.3		12.1					100.0
10			F	4.0	7.1		10.1	8.1	6.1			100.0
19	X	With Venomous Animal contact	M	1.6	3.8				1			100.0
	Ì		F	1.9	3.9							100.0
		Other Medically Certified deaths	M	3.9							1	100.0
		<u> </u>	F	7.9	11.6	8.3	8.7	8.3	8.7	10.8	35.7	100.0

### CHAPTER III

### TOP TEN KILLER DISEASES IN RURAL INDIA

- 3.1.1 The primary aim of the survey is to highlight the over all cause profile of deaths prevailing in rural India. In this section, identification of ten top killer diseases resulting in death has been attempted on the basis of percentage share of deaths pertaining to the specific diseases among the reported deaths for all major causes based on ICD classification enumerated in the survey during 1997 excluding Senility. The top ten killers accounted for 60.1 percent of all deaths during 1997 excluding senility as against 60.5 percent in 1996. The details are presented in the Statement 6.
- 3.1.2 The ten top killer diseases by specific cause-groups during the last two years have indicated that 'Bronchitis & Asthma' is the top killer in rural India which accounted for 13.7 percent of the total reported deaths under survey during 1997. It is interesting to note that ten top causes of deaths have remained the same over the years 1996-97 while ranks have changed at some places due to slight increase/decrease of percent deaths over the years. It is alarming that in rural areas 'Suicide' is among the ten top killers during 1996-97 occupying IX th position. Among these ten top killers, 'Bronchitis & Asthma' 13.7 percent, 'Heart attack' 10.6 percent, 'T.B. of lungs' 6.2 percent, 'Paralysis of cerebral appoplexy' 5.4 percent and 'Cancer' 5.2 percent are the top 5 killers followed by 'Prematurity' 5.0 percent, 'Pneumonia' 4.4 percent, 'Anaemia' 3.8 percent, 'Suicide' 3.1 percent and 'Vehicular accidents' 2.7 percent.

### Statement 6

### Top Ten Killer Diseases in rural India (Excluding Senility) 1996 and 1997 (Percentage distribution of specific causes to the total deaths)

Rank of			Yea	ars					
ten		1996		1997					
top killers	ICD code	Specific Causes of Death	Percent age	ICD code	Specific Causes of Death	Percen tage			
I	J 20 & 45	Bronch. & Asthma	15.1	J 20 & 45	Bronch. & Asthma	13.7			
II	I 21-25	Heart attack	9.5	I 21-25	Heart attack	10.6			
III	A 15	T.B. of lungs	6.6	A 15	T.B. of lungs	6.2			
IV	P 07	Prematurity	5.1	G 80-83	Paralysis of cerebral apoplexy	5.4			
V	G 80-83	Paralysis of cerebral apoplexy	5.1	C 00-97	Cancer	5.2			
VI	J 18	Pneumonia	4.8	P 07	Prematurity	5.0			
VII	C 00-97	Cancer	4.7	J 18	Pneumonia	4.4			
VIII	D 50-64	Anaemia	4.2	D 50-64	Anaemia	3.8			
IX	X 60-84	Intentional self harm (Suicide)	2.8	X 60-84	Intentional self harm (Suicide)	3.1			
X	V 01-99	Vehicular accidents	2.6	V 01-99	Vehicular accidents	2.7			

3.1.3 Age-Groups most affected by these ten top killer diseases is one of the important aspects of the cause-profile. Age-wise percent deaths to total deaths by top ten killers is presented in Statement 7. It may be observed from the statement that Bronchitis & Asthma, Heart Attack, T.B. of lungs, Paralysis and Cancer have affected the higher age-group i.e. 45 years & over while obviously Prematurity has affected infants (below one year). Pneumonia has affected in lower age-groups i.e. below 5 years and Anaemia has affected in lower as well as higher age-groups i.e. below 5 years and above 45 years of age-group. 'Suicide' is mainly concentrated and 'Vehicular Accidents' have taken higher toll in the age-group 15-24 years & over.

#### Statement 7

					Age-g	roups				Total
ICD	Ten top killers	0-1	1-4	5-14	15-24	25-34	35-44	45-59	60&	reported
codes									over	deaths
J 20&45	Bronchitis &	1.2	0.9	0.8	0.8	1.3	3.0	12.7	79.2	5094
	asthma									
I 21-25	Heart attack	0.2	0.2	0.5	2.2	4.3	9.0	25.6	58.0	3930
A 15	Tuberculosis of	0.3	0.9	1.9	5.3	15.1	17.8	26.2	32.4	2317
	lungs									
G 41	Paralysis of	0.0	0.6	0.8	1.2	1.8	3.5	15.2	76.8	2014
	cerebral apoplexy									
C 00-97	cancer	0.4	0.8	1.8	2.6	6.1	11.3	31.2	45.8	1927
P 07	Prematurity	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1871
J 18	Pneumonia	55.5	26.5	7.3	1.4	1.0	0.9	2.3	5.2	1642
D 50-64	Anaemia	12.8	12.1	4.4	3.8	6.0	5.5	11.7	43.8	1419
X 60-84	Intentional Self	0.2	0.0	2.9	29.8	24.0	16.3	14.1	12.6	1 <b>156</b>
	harm (Suicide)		1							
V 1-99	Vehicular	0.5	3.6	9.4	15.3	21.4	171	15.5	17.2	1016
	accidents									

Age-wise percent deaths to total deaths of ten top killers in rural India - 1997

The spatial distribution in affected states is another concern of the survey. These ten top killers are not having same impact in all the states, which is analysed in the following paragraphs.

3.1.4 Statement 8 reveals that **Bronchitis & Asthma** which has been reported at 1st rank among the ten top killers of the rural population of India accounts for 5094 deaths in 1997 as against 5351 deaths during 1996. Such deaths have occurred mostly after 45 years of age which constitutes 92.0 percent of total Bronchitis & Asthma deaths. Deaths due to Bronchitis & Asthma had been reported from all the States & UTs. The percentage of deaths in the states of Gujarat, Haryana, Karnataka, Kerala, Maharashtra, is higher than the national level (13.7 percent).

	Repor-	Percent age				Age g	roups	<u> </u>		
India/States	ted deaths	of total deaths	0-1	1-4	5-14	15-24	25-34	35-44	45-59	60& over
INDIA	5094	13.7	1.2	0.9	0.8	0.8	1.3	3.0	12.7	79.2
Andhra Pradesh	406	10.9	2.5	1.0	2.5	1.0	1.2	4.2	12.1	75.9
Bihar	108	9.4	0.0	0.0	0.0	0.9	2.8	8.3	19.4	68.5
Gujarat	209	19.1	1.0	0.5	1.0	1.0	1.4	1.4	12.9	81.3
Haryana	131	14.4	0.0	0.0	0.0	0.0	1.5	1.5	20.6	76.3
Karnataka	291	20.3	0.0	1.4	1.0	1.0	0.7	1.0	16.5	78.7
Kerala	136	15.7	0.0	0.0	0.0	0.0	0.0	0.7	10.3	88.2
Madhya Pradesh	482	9.7	0.4	1.0	1.0	0.2	2.3	3.3	10.8	81.3
Maharashtra	1850	24.5	0.3	0.3	0.2	0.3	0.7	1.5	7.7	88.8
Orissa	120	9.1	9.2	7.5	4.2	2.5	2.5	5.0	14.2	59.2
Punjab	91	8.6	0.0	0.0	0.0	1.1	2.2	3.3	22.0	70.3
Rajasthan	227	13.3	1.3	3.1	4.8	3.5	3.1	7.9	12.3	64.8
Tamil Nadu	346	7.0	4.3	1.7	1.7	1.7	1.7	4.6	17.9	66.5
Uttar Pradesh	446	11.5	0.2	0.2	0.9	0.7	1.1	2.7	17.9	76.0

### Age-wise percent deaths to the total reported deaths (excluding senility) under "Bronchitis & Asthma" States/All India - 1997

3.1.5 Heart attack ranks 2nd among the ten top killers of rural India and the data is presented in Statement 9. During 1997, 3930 deaths have been reported as against 3371 in 1996. The percentage of deaths due to "Heart Attack" are considerably higher than national level in the states of Kerala (22.5 percent), Punjab (28.2 percent). All such deaths are concentrated mostly in the age-group of 35 years and above as revealed through the age-wise analysis.

### Statement 9

### Age-wise percent deaths to the total reported deaths (excluding senility) under "Heart attack" States/All India - 1997

India/States	Report	Percentage				Age	e – grou	ps		
	ed deaths	of total deaths	0-1	1-4	5-14	15-24	25-34	35-44	45-59	60 & over
INDIA	3930	10.6	0.2	0.2	0.5	2.2	4.3	9.0	25.6	58.0
Andhra <sup>-</sup> Pradesh	553	14.8	0.0	0.0	0.4	2.5	5.6	10.7	27.8	53.0
Bihar	83	7.2	0.0	0.0	0.0	1.2	3.6	12.0	28.9	54.2
Gujarat	124	11.3	0.8	0.8	0.0	3.2	4.8	11.3	24.2	54.8
Haryana	79	8.7	1.3	0.0	0.0	7.6	12.7	6.3	26.6	45.6
Karnataka	146	10.2	0.0	0.0	0.7	2.7	5.5	12.3	30.1	48.6
Kerala	195	22.5	0.0	0.0	0.0	2.1	2.1	7.2	26.7	62.1
Madhya Pradesh	284	5.7	0.0	1.1	1.8	1.8	6.7	11.3	23.9	53.5
Maharashtra	819	10.8	0.0	0.0	0.0	0.0	0.0	4.6	22.0	73.4
Orissa	103	7.8	1.0	0.0	2.9	1.9	5.8	10.7	23.3	54.4
Punjab	297	28.2	0.0	0.3	0.7	5.7	6.4	9.4	28.6	48.8
Rajasthan	108	6.3	0.0	0.0	0.0	3.7	6.5	13.0	33.3	43.5
Tamil Nadu	782	15.8	0.0	0.0	0.0	0.8	3.1	8.6	26.6	61.0
Uttar Pradesh	137	3.5	2.2	2.9	2.2	9.5	13.1	14.6	11.7	43.8

3.1.6 **T.B. of lungs** is reported at the **3rd rank** under the survey. As represented in Statement-10, 2317 deaths have been reported during 1997 as against 2329 deaths in 1996. Such deaths have been reported from all the states but comparatively higher percentages than the national level have been reported from Gujarat, Rajasthan, Madhya Pradesh, Bihar and Uttar Pradesh. Such deaths are mainly concentrated in the age-group of 25 years over.

### Statement 10

	Repor-	Percen-				Age-g	roups			
	ted	tage of								
India/States	deaths	total	0-1	1-4	5-14	15-24	25-34	35-44	45-59	60&
		deaths								over
INDIA	2317	6.2	0.3	0.9	1.9	5.3	15.1	17.8	26.2	32.4
Andhra	217	5.8	0.0	0.9	0.9	1.4	12.0	17.1	32.7	35.0
Pradesh										
Bihar	86	7.5	0.0	0.0	5.8	2.3	16.3	12.8	34.9	27.9
Gujarat	100	9.1	0.0	0.0	1.0	3.0	18.0	12.0	26.0	40.0
Haryana	42	4.6	0.0	2.4	2.4	2.4	19.0	14.3	14.3	45.2
Karnataka	79	5.5	0.0	1.3	3.8	2.5	15.2	22.8	29.1	25.3
Kerala	22	2.5	0.0	0.0	0.0	4.5	0.0	18.2	27.3	50.0
Madhya	426	8.6	0.5	0.5	2.3	8.9	14.6	20.0	22.3	31.0
Pradesh										
Maharashtra	332	4.4	0.0	1.2	0.9	6.6	19.9	20.8	23.5	27.1
Orissa	71	5.4	0.0	4.2	0.0	4.2	15.5	29.6	28.2	18.3
Punjab	37	3.5	0.0	0.0	0.0	2.7	18.9	21.6	10.8	45.9
Rajasthan	154	9.0	0.0	1.9	0.6	3.2	13.6	<b>22</b> .1	29.2	29.2
Tamil Nadu	225	4.6	2.7	0.4	0.9	3.6	11.6	15.6	31.6	33.8
Uttar Pradesh	280	7.2	0.0	1.8	4.6	5.7	15.4	13.9	23.2	35.4

### Age-wise percent deaths to the total reported deaths (excluding senility) under "T.B. of lungs" States/All India - 1997

3.1.7 **Paralysis** deaths have been reported at 4th rank under the survey and 2014 deaths have been reported during 1997 as against 1820 in 1996. The percent deaths to total deaths in the states of Andhra Pradesh, Karnataka, Kerala, Orissa, Tamil Nadu are higher than all India. Such deaths are mainly concentrated in the age group of 45 and over.

### Age-wise percent deaths to the total reported deaths (excluding senility) under "Paralysis" States/All India - 1997

	Repor-	Percen-				Age -	groups			
In die /Chaben	ted deaths	tage of total	0-1	1-4	5-14	15-24	25-34	35-44	45-59	60 &
India/States	ueams		0-1	1-4	5-14	15-24	23-34	55-44	40-09	
		deaths								over
INDIA	2014	5.4	0.0	0.6	0.8	1.2	1.8	3.5	15.2	76.8
Andhra	359	9.6	0.0	0.0	0.0	0.6	0.3	1.7	13.4	84.1
Pradesh										
Bihar	45	3.9	0.0	0.0	0.0	8.9	0.0	6.7	28.9	55.6
Gujarat	37	3.4	2.7	2.7	0.0	2.7	0.0	8.1	27.0	56.8
Haryana	24	2.6	0.0	0.0	0.0	0.0	4.2	0.0	20.8	75.0
Karnataka	85	5.9	0.0	0.0	0.0	0.0	1.2	3.5	20.0	75.3
Kerala	82	9.4	0.0	0.0	0.0	0.0	1.2	3.7	17. <b>1</b>	78.0
Madhya	215	4.3	0.0	2.3	0.9	1.9	3.7	4.2	18.6	68.4
Pradesh				ļ						
Maharashtra	371	4.9	0.0	0.8	1.9	1.3	1.3	3.0	8. <del>6</del>	83.0
Orissa	123	9.3	0.0	0.0	0.0	0.0	4.9	4.1	17.1	74.0
Punjab	43	4.1	0.0	0.0	0.0	0.0	0.0	2.3	20.9	76.7
Rajasthan	54	3.2	0.0	1.9	3.7	1.9	3.7	7.4	16.7	64.8
Tamil Nadu	403	8.2	0.0	0.5	0.7	1.2	0.5	1.5	13.6	81.9
Uttar Pradesh	76	2.0	0.0	1.3	2.6	2.6	6.6	15.8	17.1	53.9

3.1.8 During 1997, 1927 deaths have been reported due to **Cancer** which occupies the 5th rank under survey. Deaths due to cancer as more predominant in the states of Andhra Pradesh, Gujarat, Haryanan, Karnataka, Kerala Punjab and Tamil Nadu. Such deaths are mainly concentrated in the age-group of 35-44 years over.

### Age-wise percent deaths to the total reported deaths (excluding senility) under "Cancer" States/All India - 1997

	Repor- ted	Pecent age		Age - groups										
India/States	deaths		0-1	1-4	5-14	15-24	25-34	35-44	45-59	60 &				
		deaths								over				
INDIA	1927	5.2	0.4	0.8	1.8	2.6	6.1	11.3	31.2	45.8				
Andhra	239	6.4	0.4	0.4	4.2	5.0	4.6	10.9	31.8	42.7				
Pradesh														
Bihar	31	2.7	0.0	0.0	0.0	3.2	16.1	0.0	41.9	38.7				
Gujarat	71	6.5	0.0	0.0	2.8	1.4	4.2	8.5	43.7	39.4				
Haryana	80	8.8	2.5	0.0	2.5	2.5	8.8	22.5	33.8	27.5				
Karnataka	110	7.7	0.0	1.8	1.8	0.9	6.4	16.4	30.9	41.8				
Kerala	111	12.8	0.0	0.9	2.7	2.7	4.5	5.4	36.0	47.7				
Madhya	170	3.4	0.0	1.8	2.4	3.5	5.3	11.2	30.0	45.9				
Pradesh														
Maharashtra	367	4.9	0.3	0.8	1.4	2.5	6.0	10.6	27.2	51.2				
Orissa	44	3.3	0.0	2.3	4.5	6.8	6.8	15.9	18.2	45.5				
Punjab	67	6.4	0.0	0.0	1.5	1.5	3.0	7.5	16.4	70.1				
Rajasthan	67	3.9	1.5	0.0	0.0	3.0	4.5	14.9	31.3	44.8				
Tamil Nadu	266	5.4	0.8	0.8	0.8	0.8	7.9	11.7	32.7	44.7				
Uttar Pradesh	113	2.9	0.0	1.8	0.0	1.8	7.1	13.3	29.2	46.9				

.1.9 Pneumonia occupies the 7th rank among the top ten killer diseases under survey. During 1997, 1642 deaths have been reported as against 1718 deaths in 1996. Higher percentages of such deaths than the all India level have been reported from Bihar, Haryana, Madhya Pradesh, Orissa, Rajasthan and Uttar Pradesh. Deaths due to Pneumonia are mostly concentrated in the lower agegroups i.e. below 14 years in almost all the states covered under the survey.

### Age-wise percent deaths to the total reported deaths (excluding senility) under "Pneumonia" States/All India - 1997

	Repor- ted deaths	Percen- tage of total		Age - groups									
India/States		deaths	0-1	1-4	5-14	15-24	25-34	35-44	45-59	60&			
										over			
INDIA	1642	4.4	55.5	26.5	7.3	1.4	1.0	0.9	2.3	5.2			
Andhra	19	0.5	36.8	15.8	10.5	5.3	0.0	0.0	15.8	15.8			
Pradesh													
Bihar	127	11.1	42.5	33.1	13.4	1.6	0.0	4.7	0.8	3.9			
Gujarat	29	2.6	37.9	3.4	10.3	0.0	3.4	0.0	13.8	31.0			
Haryana	71	7.8	64.8	28.2	2.8	1.4	1.4	1.4	0.0	0.0			
Karnataka	20	1.4	0.0	55.0	15.0	5.0	10.0	0.0	5.0	10.0			
Kerala	10	1.2	30.0	50.0	0.0	0.0	10.0	0.0	0.0	10.0			
Madhya	390	7.9	66.9	24.6	5.1	0.8	0.8	0.0	0.3	1.5			
Pradesh													
Maharashtra	237	3.1	56.1	17.7	5.5	0.0	1.3	0.8	3.4	15.2			
Orissa	71	5.4	45.1	22.5	8.5	5.6	1.4	2.8	9.9	4.2			
Punjab	21	2.0	47.6	14.3	4.8	0.0	4.8	0.0	19.0	9.5			
Rajasthan	152	8.9	59.9	28.3	7.9	1.3	0.7	0.7	1.3	0.0			
Tamil Nadu	39	0.8	46.2	15.4	2.6	2.6	0.0	5.1	2.6	25.6			
Uttar Pradesh	356	9.2	53.7	33.4	8.4	2.0	0.8	0.0	0.3	1.4			

3.1.10 Anaemia has ranked at 8th position among the ten top killer diseases netted through the survey. During 1997, 1419 deaths were reported as against 1485 in 1996. Such deaths have been reported comparatively in higher percentages in Bihar (8.6), Madhya Pradesh (6.1), Orissa (6.5), Rajasthan (4.5), and Uttar Pradesh (4.8), than the national level.

.

### Age-wise percent deaths to the total reported deaths (excluding senility) under "Anaemia" States/All India - 1997

	Repor- ted	Percen- tage				Age -	groups			
	deaths	of								
India/States	5	total	0-1	1-4	5-14	15-24	25-34	35-44	45-59	60 &
		deaths								over
INDIA	1419	3.8	12.8	12.1	4.4	3.8	6.0	5.5	11.7	43.8
Andhra	77	2.1	0.0	0.0	2.6	1.3	2.6	2.6	15.6	75.3
Pradesh						i i				
Bihar	98	8.6	12.2	13.3	2.0	5.1	9.2	6.1	13.3	38.8
Gujarat	24	2.2	8.3	41.7	8.3	0.0	0.0	12.5	4.2	25.0
Haryana	29	3.2	34.5	10.3	3.4	0.0	3.4	3.4	3.4	41.4
Karnataka	49	3.4	0.0	18.4	6.1	4.1	2.0	2.0	12.2	55.1
Kerala	5	0.6	0.0	0.0	0.0	20.0	0.0	0.0	40.0	40.0
Madhya	303	6.1	21.5	20.1	4.0	4.6	7.6	5.9	8.6	27.7
Pradesh										
Maharashtra	227	3.0	3.5	4.0	2.6	3.5	4.4	3.5	8.8	69.6
Orissa	86	6.5	11.6	9.3	4.7	2.3	7.0	4.7	9.3	51.2
Punjab	8	0.8	25.0	25.0	0.0	0.0	0.0	0.0	12.5	37.5
Rajasthan	77	4.5	29.9	29.9	5.2	1.3	10.4	7.8	5.2	10.4
Tamil Nadu	153	3.1	3.9	1.3	2.6	3.3	4.6	4.6	17.0	62.7
Uttar Pradesh	187	4.8	16.0	13.4	7.0	6.4	5.3	7.0	15.5	29.4

3.1.11 'Intentional self harm' (Suicide) deaths were first reported among the ten top killers of rural population in 1995. During 1997 also, 1156 intentional self harm deaths have been reported under the survey which occupy 9th position among the ten top killers. Among the states, Tamil Nadu (371) has reported the highest number of suicidal deaths followed by Andhra Pradesh (177) and Maharashtra (122) while only 9 deaths have been reported due to suicide in Bihar. Age-wise percentages vary in different states.

### Age-wise percent deaths to the total reported deaths (excluding senility) under "Intentional self harm" (Suicide) States/All India - 1997

	Repor- ted deaths	Percen -tage of				Age -	groups			
India/States	ueauis	total	0-1	1-4	5-14	15-24	25-34	35-44	45-59	60&:
		deaths		ĺ						over
INDIA	1156	3.1	0.2	0.0	2.9	29.8	24.0	16.3	14.1	12.6
Andhra	177	4.7	0.0	0.0	5.1	28.2	27.7	12.4	14.1	12.4
Pradesh	]						, i i			ļ
Bihar	9	0.8	0.0	0.0	0.0	22.2	0.0	33.3	44.4	0.0
Gujarat	29	2.6	0.0	0.0	3.4	44.8	27.6	13.8	3.4	6.9
Haryana	40	4.4	0.0	0.0	2.5	37.5	27.5	10.0	5.0	17.5
Karnataka	61	4.3	0.0	0.0	0.0	24.6	18.0	21.3	21.3	1.4.8
Kerala	51	5.9	0.0	0.0	3.9	13.7	21.6	17.6	21.6	21.6
Madhya	102	2.1	1.0	0.0	3.9	36.3	22.5	14.7	12.7	8.8
Pradesh										
Maharashtra	122	1.6	0.0	0.0	3.3	32.8	28.7	17.2	11.5	6.6
Orissa	25	1.9	0.0	0.0	0.0	40.0	32.0	20.0	8.0	0.0
Punjab	18	1.7	0.0	0.0	0.0	50.0	22.2	16.7	0.0	11.1
Rajasthan	23	1.4	0.0	0.0	0.0	30.4	34.8	17.4	4.3	13.0
Tamil Nadu	371	7.5	0.0	0.0	2.4	29.6	22.4	16.7	13.5	15.4
Uttar Pradesh	64	1.7	1.6	0.0	3.1	15.6	23.4	20.3	23.4	12.5

3.1.12 Vehicular Accidents has accounted for 2.7 percent of total deaths at all India level. The percentages of such deaths in the states of Haryana, Kerala, Maharashtra, Punjab, Rajasthan and Uttar Pradesh are higher than the all India level (2.7 percent). Deaths due to Vehicular accidents are mainly concentrated in the young age group of 15-24 to 60&over.

## Percentage of deaths to the reported total deaths (excluding senility) under "Vehicular accidents" States/All India - 1997

	Repor-	Percen		-		Age -	groups			
:	ted	-tage				U	0 1			
Ì	deaths	of								
India/States		total	0-1	1-4	5-14	15-24	25-34	35-44	45-59	60&
		deaths				ĺ				over
INDIA	1016	2.7	0.5	3.6	9.4	15.3	21.4	17.1	15.5	17.2
Andhra	79	2.1	0.0	2.5	8.9	13.9	30.4	15.2	20.3	8.9
Pradesh										
Bihar	14	1.2	0.0	0.0	7.1	0.0	14.3	7.1	35.7	35.7
Gujarat	21	1.9	0.0	0.0	0.0	23.8	23.8	14.3	19.0	19.0
Haryana	51	5.6	0.0	13.7	11.8	11.8	19.6	15.7	7.8	19.6
Karnataka	30	2.1	0.0	0.0	16.7	20.0	6.7	23.3	13.3	20.0
Kerala	28	3.2	0.0	0.0	3.6	21.4	32.1	17.9	7.1	17.9
Madhya	83	1.7	0.0	0.0	9.6	24.1	28.9	8.4	14.5	14.5
Pradesh										
Maharashtra	227	3.0	0.4	4.0	8.4	10.6	26.0	22.9	12.8	15.0
Orissa	14	1.1	0.0	7.1	7.1	21.4	14.3	7.1	14.3	28.6
Punjab	71	6.7	0.0	2.8	4.2	28,2	18.3	19.7	15.5	11.3
Rajasthan	88	5.2	0.0	6.8	5.7	11.4	19.3	23.9	18.2	14.8
Tamil Nadu	127	2.6	1.6	1.6	14.2	12.6	20.5	11.8	16.5	21.3
Uttar	125	3.2	1.6	6.4	15.2	15.2	8.0	16.8	15.2	21.6
Pradesh						-+				

•

•

.

### CHAPTER IV

### ANALYSIS OF CAUSES OF DEATH BY AGE & SEX

In this chapter, an attempt has been made to analyse the causes of death of infants, child deaths in the age-group (1-4) and (5-14) years, maternal mortality and female deaths in the reproductive age-group (15-44) years and old age deaths of persons aged 60 & over according to Tenth revision of International classification of diseases.

### 4.1 INFANT DEATHS(BELOW ONE YEAR)

- 4.1.1 **Infant mortality** is often considered as an index of the state of public health and hygiene, environmental sanitation, cultural and socio-economic development. Important gains have been made in reducing mortality in infancy and early childhood, but even in most advanced countries, the risk of death immediately after birth and in subsequent months remains higher than in all later years before the onset of young age. **Infancy** is subject to great risks from infections and respiratory diseases specially in rural environment without adequate medical care.
- 4.1.2 All infant deaths by major cause-groups reported under the survey for the year 1997 have been compiled alongwith corresponding data for 1996 and presented in Statement 17. It may be seen from the statement that over 62 percent of infant deaths occur due to major cause group "Conditions originating in the perinatal period" followed by "Diseases of the respiratory system" which account for over 16 percent of infant deaths in 1997. Deaths due to "Infectious and parasitic diseases" account for over 5 percent of total infant deaths. The major cause-groups like "Congenital malformations, deformation & abnormalities", "Diseases of the blood and blood forming organs", "Viral infection" account for around 2 to 3 percent of total infant deaths while the deaths due to other cause groups like "Inflammatory diseases of central nervous systems", "Symptoms, signs and abnormal clinical findings not elsewhere mention", & "Diseases of circulatory system" are around 1 to 2 percent.

### Percentage distribution of infant deaths by major cause-groups 1996and1997

ICD	MAJOR CAUSE OF DEATH		F	PERCENT	DEATH	S	
Cod			1996			1997	
e							
		M	F	Р	Μ	F	Р
Р	Conditions originating in the perinatal period	60.0	57.0	58.3	<b>62</b> .1	62.1	62.1
J	Diseases of the respiratory system	18.8	19.3	19.1	16.7	17.0	16.8
Α	Infectious and parasitic diseases	5.6	6.2	5.9	5.6	5.3	55
Q	Congenital malformations, deformations &	3.0	3.5	3.3	3.0	3.2	3.1
	abnormalities						
D	Diseases of the blood and blood forming organs	2.4	3.7	3.0	2.8	3.0	2.9
В	Viral infection	2.3	3.8	3.0	2.4	2.8	2.6
G	Inflamatory diseases of central nervous systems	2.1	1.6	1.9	2.0	1.4	1.7
R	Symptoms, signs and abnormal clinical findings	1.9	1.3	1.6	1.4	1.4	1.4
	not elsewhere mention						
ł	Diseases of circulatory system	1.4	1.1	1.2	1.3	1.5	1.4
х	With venomous animal contact	0.6	1.1	0.9	0.8	0.6	0.7
К	Diseases of the digestive system	0.3	0.4	0.4	0.4	0.4	0.4
Т	Injuries poisoning & other consequences of	0.2	0.2	0.2	0.3	0.2	0.3
	external causes	•					
W	Other external causes of accidental injuries	0.2	0.1	0.1	0.3	0.1	0.2
С	Neoplasm	0.2	0.1	0.2	0.1	0.1	0.1
N	Diseases of genitourinary system	0.1	0.1	0.1	0.2	0.0	0.1
E	Metabolic diseases	0.1	0.1	0.1	0.0	0.2	0.1
ν	External causes of mortality	0.1	0.0	0.1	0.1	0.1	0.1
F	Mental and behavioural disorders	0.0	0.0	0.0	0.0	0.0	0.0
	Other Medically certified deaths	0.7	0.4	0.6	0.4	0.6	0.5
	Total Infant deaths	100.0	100.0	100.0	100.0	100.0	100.0
		(3006)	(2837)	(5843)	(3196)	(3018)	(6214)

### **Fop ten killer diseases of infant deaths**

1.1.3 Like 1996, "Prematurity" remained top killer among the ten top killer diseases of infants accounting for 29.9 percent deaths of the total reported 70 percent deaths due to ten specific cause-groups (Statement 18). Among the 13 selected states, "Prematurity" remained the top killer except in the states of Bihar and Uttar Pradesh where "Pneumonia" was the top killer while in Andhra Pradesh and TamilNadu, "Respiratory infection of new born" and in Kerala "congenital malformation" emerged as the top killer among infants. The states of Bihar, Haryana, Madhaya Pradesh, Orissa, Punjab, Rajasthan and Uttar.Pradesh showed higher percentage of deaths than the national average of 2.9 percent in respect of the disease "Anaemia" which ranked as fifth major killer at the national level. Likewise in the states of Andhra Pradesh, Bihar, Karnataka, Punjab, Rajasthan and Uttar Pradesh also showed higher percentage of deaths than national level of 2.9 percent in respect of disease "Diarrhoea of new born" which ranked as sixth major killer at national level. Other top killers of infants at the national level are **Birth injury**, **Tetanus new-natorum**, **Typhoid & Paratyphoid and Bronchitis & Asthma** which accounted for 1.9, 1.6, 1.0 and 1.0 percent deaths respectively. The percentage varied from 0.0 to 5.4 in the selected states.

### Statement 18

# Percentage distribution of Top Ten killer diseases of infant in rural India, 1996and1997.

S1.	India/		Premat			Congenit		Diarrho		Tetanus	Typh-	Bronch-	Total
No.	States		urity	monia	ory infection		mia	ea of new	Injury	neonat- orum		itis & Asthma	
					of new born	tion		born			hoid		
	Rank	year	Ι	II	III	IV	v	VI	VII	VIII	IX	x	
	ICD codes		P 07	J 18	P 22	Q 00-99	D 50-64	P 75-78	P 10-15	A 33	A 01	J 20&45	
	INDIA	1997	29.9	14.5	11.0	3.1	2.9	2.9	1.9	1.6	1.0	1.0	69.8
		1996	31.2	16.6	10.8	3.3	3.1	3.7	1.5	1.6	0.6	1.1	73.5
1	Andhra	1997	21.7	1.7	26.4	3.2	0.0	4.7	1.2	1.0	0.2	2.5	62.8
	Pradesh	1996	31.6	3.7	11.6	3.4	1.2	1.5	3.7	0.6	0.0	2.8	60.1
2	Bihar	1997	16.2	30.2	2.8	2.8	6.7	7.8	1.7	1.7	2.8	0.0	72.6
		1996	17.8	35.6	2.0	2.0	5.9	7.4	1.0	1.5	1.0	0.0	74.2
3	Gujarat	1997	36.7	6.5	5.9	7.1	1.2	1.2	1.8	0.0	0.6	1.2	62.1
		1996	33.0	4.9	7.7	6.0	1.1	3.3	1.1	0.0	0.0	1.1	58.2
4	Haryana	1997	27.5	22.2	4.8	5.8	4.8	1.0	0.0	1.4	0.5	0.0	68.1
		1996	12.0	24.6	5.7	2.9	6.9	1.1	0.6	1.1	1.7	0.6	57.2
5	Karnataka	1997	42.4	0.0	18.7	4.0	0.0	4.0	3.0	2.5	0.0	0.0	74.7
		1996	45.8	4.4	16.3	4.9	1.0	3.0	2.9	0.5	0.0	0.5	79.3
6	Kerala	1997	18.9	8.1	21.6	27.0	0.0	0.0	0.0	0.0	0.0	0.0	75.7
		1996	13.8	20.7	17.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	55.2
7	Mahara-	1997	55.1	13.1	6.9	3.1	0.8	0.7	0.7	0.1	0.0	0.6	81.1
	shtra	1996	55.8	14.5	5.2	3.7	0.6	0.8	0.5	0.0	0.0	0.9	82.0
8	Madhya	1997	-27.6	21.7	7.1	2.4	5.4	2.1	1.9	0.8	0.7	0.2	70.0
	Pradesh	1996	35.6	22.2	12.0	3.0	4.6	3.3	0.4	1.9	0.5	0.2	83.7
9	Orissa	1997	38.5	15.4	8.7	0.0	4.8	0.5	1.0	2.9	0.0	5.3	76.9
		1996	35.7	9.3	4.7	1.0	11.4	0.0	0.0	2.2	0.9	4.7	69.9
10	Punjab	1997	19.0	15.9	11.1	3.2	3.2	6.3	0.0	4.8	0.0	0.0	63.5
		1996	0.0	10.0	2.0	0.0	0.0	18.0	0.0	0.0	0.0	4.0	34.0
11	Rajasthan	1997	23.2	22.7	7.5	3.2	5.7	4.5	1.2	0.7	2.2	0.7	71.8
	-	1996	21.0	26.9	6.4	2.6	7.7	4.6	1.5	0.5	1.6	0.8	73.6
12	Tamil	1997	20.6	2.4	24.1	4.6	0.8	2.8	2.9	0.1	0.1	2.0	60.4
	Nadu	1996	22.7	16.2	25.8	5.3	0.3	5.0	3.0	0.7	0.1	0.5	79.6
13	Uttar	1997	17.5	20.2	9.0	1.4	3.2	5.3	2.4	5.4	3.6	0.1	68.1
	Pradesh	1996	19.7	25.4	8.9	2.4	3.7	5.1	1.9	4.4	1.3	0.0	72.8

,

### 4.2 <u>CHILD DEATHS (1-4 YEARS)</u>

4.2.1 Child deaths in the age-group (1-4) years reported under survey are presented in Statement 19. Both during 1996 & 1997 the major cause-group "Diseases of Respiratory System" was responsible for over one-fourth of child deaths in the age-group (1-4) years followed by "Infectious and Parasitic diseases" and "Viral infection" which accounted for 21.6 and 11.1 percent respectively in 1997.

### Statement-19

ICD CODES	Major cause-groups		Perc	entage of	child dea	aths	
CODES	Major cause-groups		1996			1997	
		M	F	P	М	F	Р
J	Diseases of the respiratory system	27.4	30.8	29.2	28.5	30.3	29.4
А	Infectious and parasitic diseases	17.5	20.5	19.1	19.5	24.9	22.3
в	Viral infection	11.6	14.5	13.0	11.1	11.8	11 5
D	Diseases of the blood and blood	7.7	11.1	9.5	9,6	9.0	9.3
	forming organs						
G	Inflammatory diseases of central nervous systems	8.8	4.9	6.7	7.0	6.1	6.6
R	Symptoms, signs and abnormal clinical findings not elsewhere mention	6.3	51	5.6	6.0	5.2	5.6
х	With venomous animal contact	8.0	4.6	6.1	6.8	3.1	5.4
ī	Diseases of circulatory system	2.3	2.4	2.4	2.5	2.0	2.2
v	External causes of mortality	2.3	1.3	1.8	2.5	1.5	1.9
T	Injuries poisoning & other consequences of external causes	2.5	1.2	1.8	1.1	1.7	1.5
К	Diseases of the digestive system	1.7	1.6	1.6	1.6	1.2	1.4
W	Other external causes of accidental injuries	1.5	0.8	1.2	1.4	0.7	1.0
С	Neoplasm	0.6	0.4	0.5	1.0	0.8	0.9
F	Mental and behavioral disorders	1.1	0.4	0.8	1.0	0.2	0.6
N	Diseases of genitourinary system	0.4	0.3	0.4	0.2	0.6	0.4
E	Metabolic diseases	0.3	0.1	0.3	0.0	0.1	0.0
	Total child deaths	100.0	100.0	100.0	100.0	100.0	100.0
		(908)	(1049)	(1957)	(882)	(977)	(1859)

### Child deaths (1-4) years reported by major cause-groups - All India 1996 and 1997

4.2.2 The specific causes responsible under major cause-group "Diseases of the blood and blood forming organs" includes "Anaemia" while under the major cause-group "Inflamatory diseases", the specific causes of deaths mainly are `Convulsions' and `Meningitis'.

- 4.2.3 A decreasing trend is observed in the child deaths due to major cause group "Symptoms, signs and abnormal clinical *findings* not elsewhere mentioned" and "with venomous animal contact" while "Diseases of circulatory system", the percentage in 1996 and 1997 are of same order.
- 4.2.4 The information in respect of 13 selected states for top ten killer diseases of children by specific causes in the age-group (1-4) years is presented in Statement 20. At national level "Pneumonia" is the major killer of children (22.7 percent) followed by "Anaemia" and "Typhoid & Paratyphoid". All these ten top killers account for 61.0 percent total deaths in 1997 while in 1996, this percentage is 59.0.

### Statement 20

SI. No.	India/ States	Year	Pneum onia	Anae mia	Typh oid & Paratyp	Diarrhoe a & Gastroen	1 1	Malari a	Acute Abdo men		Jaund ice	Mening itis	Total
		ICD code	J 18	D 50-64 <sup>.</sup>	hoid A 01	teritis A 09	A 06	B 50-54	R 10	X 71	Ř 17	G 00-02	
	INDIA	1997	22.7	9.0	6.3	5.8	4.0	2.8	2.8	2.7	2.7	2.4	61.0
		1996	21.7	9.3	5.8	4.4	3.8	3.7	2.7	2.9	2.7	2.0	59.0
1	Andhra	1997	4.9	0.0	0.0	9.8	9.8	1.6	3.3	8.2	8.2	1.6	47.5
	Pradesh	1996	F	8.6		7.6	4	1	1	1.9	4		35.2
2	Bihar	1997	39.3	12.1	3.7	4.7	1.9	4.7	2.8	0.9	1.9	0.9	72.9
		1996	ŀ	11.3	4.3	4.3	3.4	3.4		0.0	1.7	0.9	76.2
3	Gujarat	1997	2.0	20.0	0.0	2.0	0.0	4.0	4.0	4.0	0.0	2.0	38.0
		1996	11.7	6.7	1.7	6.7	0	0	0	5.0	1.7	3.3	33.5
4	Haryana	1997	27.0	4.1	6.8	4.1	0.0	4.1	0.0	1.4	2.7	1.4	51.4
		1996	25.4	5.6	-9.9	1.4	0.0	5.6	0.0	2.8	0.0	0.0	50.7
5	Karnataka	1997	15.5	12.7	4.2	4.2	2.8	0.0	1.4	2.8	12.7	2.8	59.2
		1996	14.5	11.6	2.9	10.1	1.4	0	2.9	2.9	14.5	4.3	69.5
6	Kerala	1997	62.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5
		1996	38.0	0.0	0.0	12.7	0.0	0.0	0.0	12.7	0.0	0.0	63.4
7	Madhya	1997	23.9	15.2	10.4	9.0	2.7	7.2	2.7	2.0	1.5	2.2	76.9
	Pradesh	1996	23.8	14.4	6.5	3.7	2.5	13	3.7	2.0	1.7	1.4	75
8	Mahara-	1997	19.5	4.2	0.9	0.5	0.5	0.0	3.3	7.0	1.4	3.7	40.9
	shtra	1996	27.8	7.4	0.7	0.4	0.7	0.0	5.5	4.8	1.1	2.2	48.4
9	Orissa	1997	22.5	11.3	1.4	7.0	0.0	1.4	2.8	2.8	7.0	1.4	57.7
		1996	6.1	12.1	6.1	6.1	3	9.1	<sup>.</sup> 3.0	3.0	9.1	5.4	60.6
10	Punjab	1997	11.5	7.7	0.0	3.8	7.7	3.8	0.0	0.Q	0.0	0.0	34.6
	1	1996	27.9	8.0	0.0	0.0	8.0	4.0	0.0	0.0	0.0	4.0	51.9
11	Rajasthan	1997	25.4	13.6	• 7.7	3.0	1.8	2.4	1.2	1.8	2.4	0.6	59.8
		1996	43.6	10.9	3.6	3.6	1.8	0.9	0.0	2.7	0.9	1.8	68.9
12	Tamil-	1997	6.3	2.1	1.1	2.1	9.5	0.0	0.0	9.5	4.2	2.1	36.8
	Nadu	1996	7.2	6.6	0.0	4.6	4.6	0.0	2.0	8.6	3.3	5.3	42.1
13	Uttar -	1997	27.2	5.7	10.5	8.0	7.3	0.7	3.4	0.7	0.7	4.3	68.6
	Pradesh	1996	24.7	8.5	13.8	6.6	7.6	1.1	2.2	0.6	1.3	1.8	69.9

### Top Ten killer diseases of children (1-4 years) by specific causes, 1996 and 1997

### 4.3 CHILD DEATHS (5-14 YEARS)

4.3.1 Percent distribution of child deaths in the age-group(5-14) years by major causegroups for the years 1996 & 1997 according to ICD codes is given in Statement 21.

ICD	Major Cause-Groups	Year	1	Numbe	rs		ntages	
code						de	aths for	the
						major	cause-	groups
			Μ	F	Р	M	F	Р
A	Infectious and Parasitic Diseases	1997	160	153	313	18.5	18.6	18.5
		1996	164	164	328	19.8	19.9	19.8
х	With Venomous Animal Contact	1997	154	109	263	17.8	13.3	15.6
		1996	141	81	222	17.0	9.8	13.4
J	Diseases of the respiratory	1997	112	98	210	12.9	11.9	12.4
	System	1996	99	118	217	12.0	14.3	13.1
В	Viral Infection	1997	81	97	178	9.3	11.8	10.5
		1996	81	115	197	9.8	14.0	11.9
R	Symptoms, Signs and Abnormal	1997	67	63	130	7.7	7.7	7.7
	Clinical Findings not elsewhere Mentioned	1996	59	65	124	7.2	7.9	7.5
G	Inflamatory Diseases of Central	1997	56	68	124	6.5	8.3	7.3
0	Nervous Systems	1996	80	65	145	9.7	7.9	8.8
v	External Causes of Mortality	1997	63	33	96	7.3	4.0	5.7
•		1996	51	18	69	6.1	2.2	4.2
I	Diseases of Circulatory System	1997	28	46	74	3.2	5.6	4.4
-		1996	28	43	71	3.4	5.2	4.3
D	Diseases of the Blood and Blood	1997	28	34	62	3.2	4.1	3.7
-	Forming Organs	1996	21	52	73	2.6	6.3	4.4
Т	Injuries Poisoning & Other	1997	19	40	59	2.2	4.9	3.5
	Consequences of External Causes	1996	19	20	39	2.2	2.5	2.3
w	Other External Causes of	1997	24	15	39	2.8	1.8	2.3
	Accidental Injuries	1996	12	13	25	1.4	1.6	1.5
К	Diseases of the Digestive System	1997	17	19	36	2.0	2.3	2.1
	6 ,	1996	16	15	31	1.9	1.8	1.9
С	Neoplasm	1997	18	16	34	2.1	1.9	2.0
	<b>I</b>	1996	20	16	36	2.4	1.9	2.2
F	Mental and Behavioral disorders	1997	10	6	16	1.2	0.7	0.9
		1996	10	11	21	1.2	1.4	1.3
N	Diseases of Genitourinary	1997	11	2	13	1.3	0.2	0.8
	System	1996	5	3	8	0.6	0.4	0.5
Ε	Metabolic Diseases	1997	1	3	4	0.1	0.4	0.2
		1996	2	5	8	03	06	0.5

### <u>Statement 21</u> Child deaths (5-14 years)by major cause-groups in rural India 1996 and 1997

4.3.2 Child deaths in 1997 have been reported mainly due to 'Infectious & Parasitic diseases' and the percentage of such deaths is 18.5 followed by

major cause group 'with venomous animal contact' which account for 15.6 percent deaths in rural areas. 'Diseases of the respiratory system' come next with 12.4 percent of total child deaths while deaths due to 'viral infection' account for 10.5 percent deaths. Sex-wise differential is not significant in the case of child deaths due to 'Infectious & Parasitic diseases', 'Symptom, signs and abnormal clinical findings not elsewhere mentioned', and 'Diseases of digestive system', Neoplasm. The figures for 1996 are also given for comparison.

4.3.3 Ten top killer diseases of children (5-14 years) by specific causes has been compiled and presented in Statement 22. These top ten killer diseases account for 45.4 percent of total deaths at all India level.

### Statement 22

### Percentage of Top Ten killer diseases of child deaths (5-14 years) India, 1996 and 1997

SI. No.	India/ State	Year	Pneum onia	Drow ning	Vehic ular acci dents	abdo men	Typh oid & Paratyp hoid		Snake bite	Diarr hoea & Gastro enteritis	sion	Dysen try	Total
	ICD code		J 18	X 71	V 01-99	R 10	A 01	D 50-64	X 20	A 09	G 40	A 06	
	INDIA	1997	7.1	6.0	5.7	5.3	5.2	3.7	3.4	3.3	3.0	2.8	45.4
		1996	7.1	5.9	4.2	4.7	6.3	4.4	2.9	3,6	2.2	1.7	43.0
1	AndhraPradesh	1997	2.6	8.7	6.1	4.3	3.5	1.7	4.3	0.0	8.7	0.0	<b>40</b> .0
		1996	0.0	7.4	5.9	3.7	1.5	6.6			7.0		ί Ι
2	Bihar	1997	17.3	4.1	1.0	5.1	4.1	2.0	1.0	8.2	2.0	5.1	50.0
		1996	22.2	3.7	0.0	6.2	2.5	2.5	1.2	8.6	1.2	3.7	51.8
3	Gujarat	1997	7.7	0.0	0.0	2.6	2.6	5.1	10.3	0.0	0.0	0.0	28.2
		1996	2.0	8.0	12.0	6.0	0.0		4.0		4.0	0.0	40.0
4	Haryana	1997	5.7	2.9	17.1	5.7	11.4	2.9	2.9	2.9	2.9	0.0	54.3
		1996	2.0	2.0	8.3	0.0	10.4	4.2	0.0	4.2	0.0	0.0	31.1
5	Karnataka	1997	4.6	10.8	7.7	3.1	1.5	4.6	4.6	1.5	9.2	3.1	50.8
		1996	3.2	8.1	3.2	4.8	3.2	3.2	3.2	4.8	3.2	0.0	36.9
6	Kerala	1997	0.0	8.3	8.3	0.0	0.0	0.0	0.0	0.0	8.3	0.0	25.0
ļ		1996	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
7	Maharashtra	1997	5.6	8.6	8.2	4.3	1.7	2.6	5.6	0.0	4.7	0.0	46.8
		1996	5.9	4.9	3.9	6.8	1.6	2.9	5.2	0.0	4.8	0.0	36.0
8	MadhyaPradesh	1997	6.8	6.1	2.7	6.1	11.3	4.1	4.1	4.4	0.3	0.7	41.2
		1996	7.4	8.7	3.5	4.3	14.3	6.5	1.6	8.2	0.7	2.3	57.5
9	Orissa	1997	9.8	1.6	1.6	4.9	0.0	6.6	3.3	14.8	3.3	1.6	47.5
		1996	7.8	2.6	0.0	2.6	2.6	6.5	4.6	2.6	4.6	2.3	36.2
10	Punjab	1997	4.2	0.0	12.5	4.2	0.0	0.0	0.0	0.0	0.0	12.5	33.3
		1996	0.0	4.0	12.0	.4.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0
11	Rajasthan	1997	12.5	6.3	5.2	0.0	1.0	4.2	2.1	1.0	0.0	3.1	35.4
		1996	13.0	14.1	3.3	0.0	7.6	5.4	1.4	0.0	1.4	0.0	46.2
12	Tamil Nadu	1997	0.7	12.2	12.2	2.7	0.7	2.7	3.4	0.0	3.4	2.0	40.1
		1996	0 <b>.8</b>	8.9	6.5	0.8	2.4	2.4	4.8	4.0	3.2	0.8	34.6
13	UttarPradesh	1997	9.3	2.5	5.9	8.4	9.6	4.0	0.3	4.6	3.1	6.2	53.9
		1996	13.5	3.6	4.4	7.6	12.0	5.1	2.5	3.6	0.0	2.5	54.8

- 4.3.4 **Pneumonia** specific cause with 7.1 percent deaths is the top killer of children at all India level, while its intensity in various states varies. In the states of Bihar, Gujarat, Orissa and Rajasthan and Uttar Pradesh the percent deaths due to this cause is higher than the national average.
- 4.3.5 **Drowning** is second among ten top killer diseases of the children responsible for 6.0 percent of the child deaths at national level reported under the survey. Percent deaths due to Drowning are higher than the national average in the states of Andhra Pradesh, Karnataka, Kerala, Maharashtra, Madhya Pradesh, Rajasthan and Tamil Nadu.
- 4.3.6 Deaths due to **Vehicular accidents** with 5.7 percent of total reported child deaths is third among ten top killers of this age group. Among the states, significant percentage of deaths have been reported from Haryana (17.1), Karnataka (7.7), Kerala (8.3), Maharashtra (8.2), Punjab (12.5) and Tamil Nadu (12.2).
- 4.3.7 Deaths due to Acute Abdomen with 5.3 percent occupies fourth position. Among the states, Uttar Pradesh accounts for highest percentage (8.4) of deaths in this category which is higher than national average.
- 4.3.8 The fifth top killer diseases is **Typhoid and Paratyphoid** with 5.2 percent reported deaths at national level. The states of Haryana (11.4 perecent), Madhya Pradesh (11.3 percent) and Uttar Pradesh (9.6 percent) have reported deaths higher than the national average.
- 4.3.9 Anaemia with 3.7 percent deaths at national level holds the sixth rank among ten top killer diseases. Among the states, Orissa has reported highest percentage of deaths (6.6 percent) in this cause group.
- 4.3.10 The next top killer disease is **Snakebite**, which accounts for 3.4 percent deaths at national level. Andhra Pradesh, Gujarat, Karnataka, Maharashtra and Madhya Pradesh have reported higher percentage of deaths than the national average.
- 4.3.11 Deaths due to **Diarrhoea & Gastro Enteritis** with 3.3 percent deaths is eighth among the ten top killer diseases. The percentage of such deaths is higher than national average in Bihar (8.2 percent), Madhya Pradesh (4.4 percent), Orissa (14.8 percent), Uttar Pradesh (4.6 percent).
- 4.3.12 Child deaths due to **Convulsion** have been reported as 3.0 percent at the national level which is the ninth among ten top killer diseases of children and such deaths are highest in Karnataka.
- 4.3.13 Dysentery is the tenth top killer accounting for 2.8 percent deaths at national level. States of Bihar (5.1 Percent), Karnataka (3.1 percent), Punjab (12.5

percent), Rajasthan (3.1 percent) and Uttar Pradesh (6.2 percent) have reported higher percentages than the national average.

### 4.4 MATERNAL MORTALITY & FEMALE DEATHS

- 4.4.1 There has been persistent demand from data users and from departments such as Department of Women & Child development and Ministry of Health & Family Welfare to compile and analyse data on female deaths collected through `Survey of Causes of Death (Rural)'. An attempt has been made to present data on female deaths, specifically restricted to the **reproductive age-group (15-44)** in the following paragraphs.
- 4.4.2 The percentage of female deaths in the reproductive age-group according to major cause-groups as per International Classification of Diseases for the year 1997 along with the corresponding percentages for 1996 are presented in the Statement 23 below.

### Statement-23

### Percentage of Maternal Mortality and Female deaths (15 – 44 years ) by Major Cause Groups , India , 1996 and 1997

ICD	Major Cause of Death	Perce	ntage
Codes			1
		1996	1997
x	With Venomous Animal Contact	17.3	18.0
Α	Infectious and Parasitic Diseases	16.9	15.1
I	Diseases of Circulatory System	10.2	11.0
0	Pregnancy, Childbirth and Puerperium	9.2	9.3
Т	Injuries, Poisoning & Other Consequences of External Causes	7.0	7.4
С	Neoplasm	5.7	6.8
R	Symptoms, Signs and Abnormal Clinical Findings Not	7.1	6.7
	Elsewhere Mentioned		
J	Diseases of the Respiratory System	6.2	5.0
D	Diseases of the Blood and Blood Forming Organs	4.6	4.3
G	Inflamatory Diseases of Central Nervous Systems	4.4	3.7
В	Viral Infection	5.0	3.6
v	External Causes of Mortality	1.8	3.3
К	Diseases of the Digestive System	1.8	2.3
F	Mental and Behavioural Disorders	0.9	1.3
N	Diseases of Genitourinary System	0.7	0.8
W	Other External Causes of Accidental Injuries	0.7	0.8
E	Metabolic Diseases	0.5	0.6
	Total deaths	100.0	100.0

4.4.3 It may be interesting to note from the above statement that major cause of female deaths in the reproductive age-groups in rural areas is due to major cause group **'with venomous animal contact'** which accounts for 18.0

percent of total female deaths in 1997 while the corresponding percentage is 17.3 in 1996. This is followed by 15.1 percent of deaths due to 'Infectious and parasitic diseases' and 11.0 percent of deaths accounted for 'Diseases of circulatory system'. Deaths due to 'pregnancy, child birth and puerperium' account for 9.3 percent of total female deaths. Deaths due to other major cause-groups like 'Neoplasm', 'Injuries', 'Poisoning' & other consequences of external causes' 'Symptoms, signs and abnormal clinical findings not elsewhere mentioned', and 'Diseases of the respiratory system' account for 5-8 Percent of total female deaths.

4.4.4 Ten top killer diseases of females in the reproductive age-groups by specific causes of death in respect of major states/India for the years 1996 & 1997 has been compiled and presented in Statement 24. Top ten specific causes of female deaths account for 56.3 percent deaths at all India level during 1997.

### Statement 24

SI. No.	India/ State	Year	Suicide	T.B. of lungs		Heart Attack	Burns	Anaemi a	larAcci dent	bdomen	Bronchitis & Asthma	Puerperi um	Total
	ICD code →		X 60-84	A 15	C 00-97	1 21-25	Т 20-32	D 50-64	V 1-99	R 10	J 20&45	0 10	
	INDIA	1997	11.1	9.4	6.7	6.6	65	4.2	33	3.1	3.1	2.4	56.3
Ī		1996	10,1	10.9	5.5	5.3	6.4	4.5	1.7	3.4	38	2.7	54.3
1	AndhraPradesh	1997	14.8	7.1	7.9	9.3	79	0.8	29	3.7	2.9	0.3	57.7
		1996	13.4	10.1	5.6	11.8	7.5	1.6	1.2	3.9	4.9	0.8	60.8
2	Bihar	1997	1.6	11.4	1.6	6.5	3.3	8.9	0.0	8,9	6.5	7.3	56.1
		1996	1.5	13.1	2.2	8.0	5.1	8.0	0.0	10.2	3.6	7.3	59.0
3	Gujarat	1997	14.6	10.4	6.3	7.3	8.3	1.0	4.2	21	1.0	0.0	55.2
		1996	12.8	64	7.4	10.6	8.5	1.1	3.2	5.3	4.3	2.1	61.7
4	Haryana	1997	11.5	64	20.5	12.8	7.7	0.0	6.4	1.3	2.6	0.0	69.2
		1996	9.1	7.6	4.5	7.6	9.1	3.0	0.0	0.0	4.5	3.0	48.4
5	Karnataka	1997	18.6	2.3	14.0	14.0	2.3	2.3	4.7	0.0	0.0	0.0	58.1
		1996	21.4	3.6	28.6	3.6	00	0.0	9.1	0.0	3.6	00	69 9
6	Kerala	1997	12.4	12.4	13.2	7.4	41	2.5	33	0.8	2.5	2.5	61.2
		1996	11.8	11.8	118	4.5	55	3.6	0.0	4.5	1.8	2.7	58.0
7	Maharashtra	1997	3.8	14	3.8	4.4	3.1	7.4	1.3	3.2	4.2	3.8	49 0
		1996	6.7	14.1	4.4	2.8	5.4	7.5	20	4.8	2.4	4.0	54.2
8	MadhyaPradesh	1997	5.7	9.0	7.0	2.0	15.2	3.5	2.7	2.5	4.5	2.0	54.1
		1996	6.9	8.8	7.1	1.7	15.3	3.3	61	1.7	3.6	0.6	55.1
9	Orissa	1997	8.4	7.6	34	1.7	3.4	5.0	0.0	5.0	5.0	4.5	44
i		1996	10.0	6.7	3.3	4.0	2.0	7.3	07	4.0	2.0	7.3	47.3
10	Punjab	1997	5.6	1,1	4,4	26.7	4.4	2.2	0.0	2.2	3.3	1.4	51.3
		1996	5.3	5.3	6.3	23.2	8.4	0.0	10.5	1.1	2.¶	0.0	62.1
Н	Rajasthan	1997	1.4	12.8	6.4	0.0	9.9	<sup>'</sup> 35	7.2	1.4	2.8	3.6	49
		1996	4.9	13.3	2.1	3.5	6.3	7.7	6.3	3.5	7.0	2.8	57.3
12	Tamil Nadu	1997	37.1	3.8	4.5	2.2	2.4	4.8	1.7	1.9	1.9	1.2	61.5
		1996	29.7	6.4	8.1	7.6	2.5	2.7	2.2	0.7	2.7	2.7	65.4
-13	UttarPradesh	1997	23.0	16.5	3.4	5.0	5.5	5.2	1.8	4.5	31	2.6	70.6
		1996	6.5	5.7	3.9	9.8	3.9	5.7	0.9	5.1	1.5	3.6	46.4

Percentage of Top Ten killer diseases of females in reproductive age-group (15-44 years) major states/India, 1997

4.4.5 In Statement 25 top ten killer diseases of females in reproductive age-groups has highlighted very useful and vital information of female deaths. During 1997, deaths due to **Suicide** in females under reproductive age-group has been reported as top killer in India. Among the selected states, **suicide** is the top

killer disease of females in Andhra Pradesh, Gujarat, Kerala, Orissa and Tamil Nadu while in Bihar, Madhya Pradesh and Rajasthan, T.B. of lungs is the top killer. In Haryana and Karnataka, Cancer accounts for 20.5 and 13.2 percent respectively of the total female deaths and is the top killer while in Punjab and Uttar Pradesh, Heart attack and in Maharashtra Burns are the top killer diseases. T.B. of lungs is the 2nd major killer disease at the national level and accounts for 9.4 percent deaths followed by Cancer (6.7 percent) Heart attack (6.6 percent), Burns (6.5 percent). Deaths due to Anaemia, Vehicular accident, Acute abdomen and Bronchitis & Asthama and Puerperium have affected less than 5 percent of female deaths at all India level.

4.4.6 Suicide, which is the top killer of females in the reproductive age-groups has accounted for 82 percent of deaths in age-group of 15 to 34 years while T.B. of lungs has accounted for over 85 percent of deaths in the age-group of 25 to 44 years. Cancer, Heart attack and Bronchitis & Asthma follows the same pattern. In the case of Burns, Acute abdomen and Puerperium which rank 5<sup>th</sup>, 8<sup>th</sup> and 10<sup>th</sup> respectively among the ten top killer diseases have affected comparatively younger age-groups while Anaemia and Vehicular accident with rank 6<sup>th</sup> & 7<sup>th</sup> respectively have affected more or less all ages in the reproductive age-groups.

		licop								
Rank	Specific Causes	ICD	Year	Reproduc	tive age-g					No. of
	(Top killer diseases)	code		15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	deaths
I	Intentional self	X	97	22.3	26.5	18.7	14.5	10.6	7.5	359
	harm (suicide)	60-84	96	23.3	30.2	17.0	14.5	9.1	6.0	345
п	T.B of lungs	A	97	4.9	9.5	22.4	15.8	28.0	19.4	304
		15	96	9.3	12.8	20.9	17.4	23.2	16.5	318
ш	Cancer	С	97	6.0	6.9	15.3	14.8	26.4	30.6	216
		00-97	96	6.3	10.2	13.6	16.5	21.6	31.8	176
IV	Heart attack	I	97	5.2	8.5	۰ 20.3	13.2	26.9	25.9	212
		21-25	96	4.2	15.0	17.4	20.4	21.0	22.2	167
v	Burns	Т	97	-12.4	27.1	28.1	15.2	13.3	3.8	210
		20-32	96	15.3	28.1	22.7	19.2	8.9	5.9	203
vī	Anaemia	D	97	10.3	1 <b>6.2</b>	2882.8	18.4	18.4	14.0	136
		50-64	96	8.5	20.4	19.7	23.9	15.5	12.0	142
VII	Vehicular	v	97	14.2	17.9	23.6	13.2	17.0	14.2	106
	accidents	1-99	<b>9</b> 6	13.3	14.7	23.31	17.8	16.9	13.7	56
VIII	Acute Abdo	R	97	21.0	31.0	13.0	17.Ó	9.0	9.0	100
	men	10	96	16.1	23.8	13.3	16.2	12.4	18.1	105
IX	Bronchitis &	J	97	8.1	6.1	16.2	11.1	25.3	33.3	99
	Asthma	20&45	96	7.4	9.9	13.2	20.7	19.8	28.9	121
x	Puerperium	0	97	10.1	34.2	29.1	15.2	8.9	2.5	79
		10	96	1.2	34.1	27.0	20.8	12.6	4.5	85

### Statement - 25

Percent distribution of top ten killer diseases of females in the reproductive age-group (15-44 years), India, 1997.

### 4.5 OLD AGE DEATHS (60 Years & over)

4.5.1 Data on deaths for the age-group 60 years & over has been compiled according to major-cause groups as per ICD classification and percent deaths with respect to the total number of reported deaths by the major cause groups in the same age-group is presented in the Statement 26.

### Statement-26

ICD	Major cause of death			Percent	deaths		
CODES			1996			1997	
		M	F	Р	M	F	Р
R	Symptoms, signs and abnormal clinical findings not elsewhere mentioned	34.3	40.8	37.2	31.8	38.9	34.9
J	Diseases of the respiratory system	22.5	20.4	21.6	20.9	19.4	20.3
Ι	Diseases of circulatory system	13.5	11.4	12.5	15.3	12.5	14.1
G	Inflammatory diseases of central nervous systems	6.9	6.9	6.9	7.9	7.5	7.7
Α	Infectious and parasitic diseases	6.9	4.8	5.9	6.8	5.1	6.0
С	Neoplasm	3.8	3.8	3.8	4.3	3.8	4.1
D	Diseases of the blood and blood forming organs	2.5	4.0	3.2	2.4	3.5	2.9
В	Viral infection	2.2	2.3	2.2	1.9	2.5	2.2
х	With venomous animal contact	1.7	1.4	1.5	2.1	1.4	1.8
K	Diseases of the digestive system	1.6	1.1	1. <b>4</b>	1.9	1.3	1.6
Е	Metabolic diseases	1.5	0.9	1.3	1.4	1.4	1.4
N	Diseases of genitourinary system	1.1	0.7	0.9	1.4	0.9	1.2
v	External causes of mortality	0.8	0.4	0.6	1.0	0.6	0.8
W	Other external causes of accidental injuries	0.4	0.4	0.4	0.4	0.5	0.4
F	Mental and behavioral disorders	0.2	0.3	0.3	0.2	0.3	0.2
T	Injuries poisoning & other consequences of external causes	0.1	0.4	0.3	0.3	0.4	0.4
	Total	100.0	100.0	100.0	100.0	100.0	100.0

### Percentage distribution of deaths to persons aged 60 years & above by sex and major cause for India , 1996 and 1997

4.5.2 The cause-group 'Symptoms, signs and abnormal clinical findings not elsewhere mentioned' which includes deaths due to senility is the major killer for the age-group 60 years & over in 1997 and the percent deaths due to this cause-group is 34.9 percent. This is followed by the major cause-group 'Diseases of the respiratory system' which account for one-fifth of the total old age deaths. 'Diseases of the circulatory system' account for 14.1 percent deaths while 'Inflammatory diseases of central nervous systems' are responsible for 7.7 percent deaths. The deaths due to 'Infectious and parasitic diseases', 'Neoplasm', 'Diseases of the blood and blood forming organs' and 'viral infection' are in the range of 2-6 percent. Other major cause-groups account for less than 2 percent of total old age deaths. A similar trend is observed for the year 1996.

4.5.3 The percentage of female deaths in the case of major cause-group 'Symptoms, signs and abnormal clinical findings not elsewhere mentioned' are higher than male deaths in this age-group while a reverse trend is seen in the case of major cause group 'Diseases of circulatory system'. As regards other major cause-groups, sex-wise differential is not significant.

### Ten top killer diseases of old age (excluding senility)

4.5.4 The analysis of ten top killer diseases of old age by specific cause for the last two years presented in statement 27 has indicated the trend among ten top killers in this age-group. Bronchitis & Asthma is the major killer occupied 1<sup>st</sup> position which accounted for 28.0 percent deaths in 1997 as against 31.0 percent in 1996. It is evident from the Statement that T.B. of lungs being equal 5.2 percent in both the years 1996 and 1997 occupied 5<sup>th</sup> position while in 1<sup>st</sup> and 6<sup>th</sup> position Bronchitis & Asthma and Anaemia showing a decreasing trend i.e. 28.0 and 4.3 percent in the year 1997 in comparison to 31.0 and 4.9 in the year 1996 respectively. The position occupied in 2<sup>nd</sup>, 3rd 4<sup>th</sup>, 7<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup>, are in increasing trend in the year 1997 in comparison to the year 1996.

### Statement 27

### Percent distribution of Top Ten Killer diseases of old age (60 years & over) India, 1996 and 1997

I	CD Codes	Causes	Percent Death	าร
		-	1996	1997
J	20&45	Bronchitis & Asthma	31.0	28.0
I I	21-25	Heart attack	14.4	15.8
G	41	Paralysis of cerebral apoplexy	10.0	10.7
C	00-97	Cancer	5.9	6.1
A	15	T.B. of lungs	5.2	5.2
D	50-64	Anaemia	4.9	4.3
E	10-14	Diabetes	1.9	2.1
R	10	Acuteabdomen	1.4	1.5
N	17-19	Uraemia	1.1	1.4
ĸ	27-28	Peptic or gastric ulcer	1.1	1.2

<u>TABLE - I</u> SURVEY OF CAUSES OF DEATH (RURAL) - INDIA 1997 [AS PER INTERNATIONAL CLASSIFICATION OF DISEASES - 10TH REVISION]

CODE	PROBABLE CAUSE OF DEATH		NUMBER		Ы	PERCENTAGE	
NO.		M	L	٩	W	 LL.	ط ا
<b>~</b>	2	3	4	ۍ	g	2	ω
۷	INFECTIOUS AND PARASITIC DISEASES	2736	1718	4454	10.9	8.9	10.0
в	VIRAL INFECTION	693	669	1392	2.8	3.6	3.1
U	NEOPLASM	1051	876	1927	4.2	4.5	4.3
Δ	DISEASES OF THE BLOOD AND BLOOD	666	753	1419	2.7	3.9	3.2
	FORMING ORGANS						
ш	METABOLIC DISEASES	268	200	468	1.1	1.0	1.1
<u>IL</u>	MENTAL AND BEHAVIOURAL DISORDERS	108	92	200	0.4	0.5	0.5
U	INFLAMATORY DISEASES OF CENTRAL	1548	1126	2674	6.2	5.8	6.0
-	NERVOUS SYSTEM						
	DISEASES OF CIRCULATORY SYSTEM	3394	1975	5369	13.5	10.2	12.1
<del>ر ،</del>	DISEASES OF THE RESPIRATORY SYSTEM	4120	3158	7278	16.4	16.3	16.4
X	DISEASES OF THE DIGESTIVE SYSTEM	654	283	937	2.6	1.5	2.1
z	DISEASES OF GENITOURINARY SYSTEM	314	141	455	1.3	0.7	1.0
0	PREGNANCY CHILDBIRTH AND PUERPERIUM	0	297	297	0.0	1.5	0.7
۵.	CONDITIONS ORIGINATING IN THE	1985	1876	3861	7.9	9.7	8.7
	PERINATAL PERIOD						
σ	CONGENITAL MALFORMATIONS, DEFORMATIONS	86	96	194	0.4	0.5	0.4
	AND ABNORMALITIES						
к	SYMPTOMS, SIGNS AND ABNORMAL CLINICAL	4324	4120	8444	17.2	21.3	19.0
	FINDING NOT ELSEWHERE MENTION						
⊢	INJURIES POISONING & OTHER CONSEQUENCES	237	367	604	0.9	1.9	1.4
	OF EXTERNAL CAUSES						
>	EXTERNAL CAUSES OF MORTALITY	776	240	1016	3.1	1.2	2.3
3	<b>OTHER EXTERNAL CAUSES OF ACCIDENTAL</b>	165	66	264	0.7	0.5	0.6
	INJURIES						
×	WITH VENOMOUS ANIMAL CONTACT	1638	971	2609	6.5	5.0	5.9
	OTHER MEDICALLY CERTIFIED DEATHS	306	241	547	1.2	1.2	1.2
	GRAND TOTAL	25081	19328	44409	100.0	100.0	100.0

39

.

<u>IABLE - II</u> DISTRIBUTION OF DEATHS BY MAJOR CAUSE-GROUPS INDIA (RURAL), 1993-1997 (AS PER INTERNATIONAL CLASSIFICATION OF DISEASES - X REVISION)

a,

z

19.0 10.0 8.7 6.0 5.9 4.3 3.2 2.3 2.1 0.7 0.6 0.5 0.4 100.0 16.4 12.1 3.1 1.4 1 1.0 1.2 1997 <del>ღ</del> 17.8 10.2 10.9 7.9 5.5 5.6 3.6 3.4 3.9 2.1 1.3 1.1 0.8 1.0 0.6 0.7 0.5 100.0 0.4 0 966 ы С 2 PERCENTAGE 18.6 16.6 9.5 11.9 9.2 6.0 2.4 1.6 0.9 0.7 0.8 0.5 0.3 100.0 4.8 4.2 3.0 2.4 1.4 4.7 1995 ÷ 15.1 8.2 5.0 3.9 3.0 4.4 2.2 1.6 1.3 0.8 0.6 0.9 24.3 12.0 9.0 5.0 0.4 0.3 1.5 100.0 1994 9 14.4 7.6 12.5 10.0 0.6 0.5 0.6 0.5 100.01 26.2 4.2 3.1 1.4 1.3 0.5 1.4 4.7 3.1 4.2 2.1 1.1 1993 თ 1016 44409 8444 7278 5369 4454 2674 2609 1927 419 392 937 604 468 455 297 264 200 194 547 3861 1997 ω 43168 415 265 8905 4410 4719 3405 2375 2426 1533 1485 679 909 854 566 495 354 285| 221| 190 7677 966 910 357 274 318 172 110 7028 6292 3595 4505 2270 1130 1792 592 533 909 37831 3471 1797 1577 199 NUMBER 1995 ശ 284 219 792 337 162 118 3025 4400 3309 1856 850 1432 612 577 493 173 550 36799 5569 1091 8951 1994 ŝ 1253 625 409 397 178 159 389 907 912 335 166 149 406 7755 4269 2238 3704 2961 1247 38 29597 1993 4 NJURIES POISONING & OTHER CONSEQUENCES CONGENITAL MALFORMATIONS, DEFORMATIONS SYMPTOMS, SIGNS AND ABNORMAL CLINICAL PREGNANCY CHILDBIRTH AND PUERPERIUM OTHER EXTERNAL CAUSES OF ACCIDENTAL DISEASES OF THE RESPIRATORY SYSTEM MENTAL AND BEHAVIOURAL DISORDERS DISEASES OF GENITOURINARY SYSTEM INFECTIOUS AND PARASITIC DISEASES MAJOR CAUSES OF DEATH DISEASES OF THE BLOOD AND BLOOD NFLAMATORY DISEASES OF CENTRAL DISEASES OF THE DIGESTIVE SYSTEM **OTHER MEDICALY CERTIFIED DEATHS** DISEASES OF CIRCULATORY SYSTEM FINDING NOT ELSEWHERE MENTION WITH VENOMOUS ANIMAL CONTACT EXTERNAL CAUSES OF MORTALITY CONDITIONS ORIGINATING IN THE ო **OF EXTERNAL CAUSES** METABOLIC DISEASES AND ABNORMALITIES PERINATAL PERIOD FORMING ORGANS **NERVOUS SYSTEM** VIRAL INFECTION **GRAND TOTAL** NEOPLASM NJURIES CODE <u>Ö</u> R - < L ഗ XUD  $\square > \prec \vdash$ шzo} шØ -2 <u>Š</u> SL. <u>1</u>0 10 ഗ  $\sim \infty \sigma$ 0 0 4 U

4

TABLE III

# SURVEY OF CAUSE OF DEATH (RURAL) DISTRIBUTION OF DEATHS BY AGE AND SEX ACORDING TO MAJOR AND SPECIFIC CAUSES

## INTERNATIONAL CLASIFICATION OF DISEASES Xth REVISION

INDIA - 1997

E	OLD	PROBA		TOTAL			0-1		1-4	5	5-9		10-14	IS	15-19	50	20-24	25	25-29
NO. C	CODE	DEATH	W	F	d	W	ц	X	<del>и</del>	Χ	щ	W	<u>۲۲</u>	W	н	Σ	LL.	M	ш
-	NO.	2	m	4	S	6	7	8	6	10	Ξ	12	13	14	15	16	17	18	61
		INFECTIOUS AND PARASITIC DISEASES	2736	1718	4454	180	159	172	243	88	68	72	64	52	53	101	56	166	106
		VIRAL INFECTION	693	669	1392	78	83	98	115	49	68	32	29	22	18	19	27	21	6
		NEOPLASM	1051	876	1927	£	4	8	8	6	÷	6	13	10	13	13	15	31	5
		DISEASES OF THE BLOOD AND BLOOD	666	753	1419	16	90	85	87	20	22	÷	12	9	14	12	22	20	31
		FORMING ORGANS																	
		METABOLIC DISEASES	268	200	468	1	9	0	1	1	0	0	ŝ	2	ĥ	9	-	4	
		MENTAL AND BEHAVIOURAL DISORDERS	108	92	200	0	1	6	2	Ę	ŝ	٢	ŝ	٢	4	ŝ	10	6	11
		INFLAMATORY DISEASES OF CENTRAL	1548	1126	2674	63	42	62	60	32	42	24	26	22	20	21	17	28	25
		NERVOUS SYSTEM																	
		DISEASES OF CIRCULATORY SYSTEM	3394	1975	5369	41	4	22	19	18	16	10	30	47	28	55	44	83	~
	_	DISEASES OF THE RESPIRATORY SYSTEM	4120	3158	7278	534	513	251	296	75	67	37	31	25	23	53	17	35	32
		DISEASES OF THE DIGESTIVE SYSTEM	654	283	937	13	11	]4	12	~	6	6	10	10	4	15	14	35	-
		DISEASES OF GENITOURINARY SYSTEM	314	141	455	9	1	7	9	7	-	4		7	ų	7	÷	4	
		PREGNANCY CHILDBIRTH AND PUERPERIUM	0	297	297	0	0	0	0	0	0	0	0	0	26	0	106	0	<i>LL</i>
		CONDITIONS ORIGINATING IN THE	1985	1876	3861	1985	1876	0	0	0	0	0	0	0	0	0	0	0	
		PERINATAL PERIOD																	
		CONGENITAL MALFORMATIONS, DEFORMATIONS	98	96	194	86	96	0	0	0	0	0	0	0	0	0	0	0	0
		AND ABNORMALITIES																	
		SYMPTOMS, SIGNS AND ABNORMAL CLINICAL	4324	4120	8444	61	54	53	51	46	35	21	28	21	34	37	65	£	49
		HINDING NOT ELSE WHERE MEN HON	724	636	707	01	r	5		2	2	ſ	2	-	Ċ	ě	;	i	
		OF EXTERNAL CAUSES	107	D.	5	2	-	01	2	71	10	-	<del>1</del> 7	9	05	77	70	5	6
		EXTERNAL CAUSES OF MORTALITY	776	240	1016	7	'n	77	15	36	11	27	20	40	15	81	19	50	2
		OTHER EXTERNAL CAUSES OF ACCIDENTAL	165	66	264	8	4	12	7	12	~	12	7	13	ŝ	L	ŝ	17	2
		INJURIES																	
		WITH VENOMOUS ANIMAL CONTACT	1638	116	2609	27	18	62	38	67	48	87	61	133	126	191	143	182	100
		OTHER MEDICALLY CERTIFIED DEATHS	305	242	547	12	19	33	28	7	10	11	10	14	11	15	10	16	13
		CRAND TOTAL	25080	19329	4409	2721	1000	210	100	007		1							
-		GRAND LUIAL	10007	27061	A 113375														

								AGE	AGE-GROUP ( IN YEARS )	(IN VI	EARS )					
CODE	OLD	PROBA		30-34	35-39	39	40-44	44	45-49	49	20	50-54	55	55-59	+09	+
NO.	CODE	DEATH	W	щ	Σ	ц	W	ц	M	EL,	Ψ	<u>гт</u> ,	М	<u> </u>	W	F
-	NO.	2	20	21	22	23	24	25	26	27	28	29	30	31	32	33
<b>v</b>		NEECTIVIS AND DAP ASITIC DIGEAGES	157	12	971	115	150	10	200	70	100	E9	175	۲.	015	764
5 6			 -	: :	2	2		2	707	2:	1 1 1	3 2		3 3	110	0/ <del>1</del>
n		VIKAL INFECTION	3	10	74	74	19	y	26	4	50	24	62	21	231	231
<u>ပ</u>		NEOPLASM	22	32	50	57	45	66	96	73	118	104	118	92	519	363
۵		DISEASES OF THE BLOOD AND BLOOD	6	25	23	25	11	19	33	25	36	18	23	31	289	332
		FORMING ORGANS														
Э		METABOLIC DISEASES	S	7	~	9	8	7	18	6	24	8	21	21	170	133
ч		MENTAL AND BEHAVIOURAL DISORDERS	S	-	10	6	11	2	٢	Ś	∞	4	×	ε	19	31
Ċ		INFLAMATORY DISEASES OF CENTRAL	20	19	43	22	41	14	68	36	81	36	66	56	944	711
		NERVOUS SYSTEM														
I		DISEASES OF CIRCULATORY SYSTEM	84	47	180	86	143	71	264	108	276	103	340	126	1831	1180
<u>-</u>		DISEASES OF THE RESPIRATORY SYSTEM	30	18	68	35	60	36	22	60	169	83	208	115	2514	1832
X		DISEASES OF THE DIGESTIVE SYSTEM	31	12	61	15	46	16	68	21	59	10	61	14	224	124
Z		DISEASES OF GENITOURINARY SYSTEM	S	-	14	٢	Π	7	31	10	18	9	31	12	172	80
0		PREGNANCY CHILDBIRTH AND PUERPERIUM	0	33	0	25	0	٢	0	ŝ	0	0	0	0	0	0
Ą		CONDITIONS ORIGINATING IN THE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		PERINATAL PERIOD														
0		CONGENITAL MALFORMATIONS, DEFORMATIONS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		AND ABNORMALITIES														
×		SYMPTOMS, SIGNS AND ABNORMAL CLINICAL	28	33	50	15	31	11	42	24	36	28	38	16	3844	3684
		FINDING NOT ELSEWHERE MENTION														
L_		INJURIES POISONING & OTHER CONSEQUENCES	22	35	12	33	17	10	15	17	16	9	6	S	36	40
		OF EXTERNAL CAUSES														
>		EXTERNAL CAUSES OF MORTALITY	83	14	84	18	57	15	63	17	33	6	31	4	122	53
M		OTHER EXTERNAL CAUSES OF ACCIDENTAL	12	9	6	5	4	-	ε	ŝ	6	7	6	0	43	42
		INJURIES														
×		WITH VENOMOUS ANIMAL CONTACT	135	82	161	11	107	44	101	51	86	30	52	20	247	133
		OTHER MEDICALLY CERTIFIED DEATHS	13	7	15	6	18	12	11	×	15	9	15	12	110	87
		ICRAND TOTAL	676	474	988	583	788	475	1140	565	1235	540	1267	613	12130	9537
			5			202	8			ŝ					A	

	0	, LL	19		C	14	9	<u>, v</u>	68	;	0	, w	0	C	, (r	9	, 106	3	- 0	,	, o	` =	20		33		}		31	31		S
	25-29	×	18		-	24	. 9 1	~ ~	112	5	0	9	1	-	4	9	, 166	2	0		, 01	: =	21	1	31	31	•		20	20		4
	-		17		Ś	~~~			29	0	0	0	-		•		26	2	0	0	12	15	51		15	15			22	22		1
	20-24	W	16		7	18	-	. 9	62	0	0	-	7	0	4	5	101			0	~~~~	10	19		13	13	ł		12	12		9
	╞─		15			14	4	4	15	0	0	S	0	0	П	6			0	0	-	. 11	18		13	13			14	14		ę
	15-19		14 1	-		12	7	4	16	0	0	4	-		9	Ś	52		0	ŝ	1	12	22		10	10			9	6		7
		M			S	21	9	01	11	1	0	0	0		S		64		7	1	0	16			13				12	12		ŝ
	10-14	<u>н</u>		-	7	4	6	5	2	0	0	2	1	7	7	ŝ			0	0					6	6				~		0
AGE-GROUP ( IN YEARS		X	12		~	34 1	1	_		0	0	ñ	0	5	<u>م</u>		-		1	8	14 1				ŝ				5	2		0
l (IN)	5-9	ш. 	=					11											- 1							6						
-GROU		Σ	2			19		EL	51	U	0	ŝ	0	7	12	7	88					34			5	S.				20		-1
AGE	14	ц	6		15	84	48	63	6	0	0	9	ŝ	2	7	11	243		m	6	30	73	115		80	œ			87	87		
		W	~		12	37	28	48	13	1	0	9	7	7	4	14	172		2	7	24	65	<b>98</b>		~	œ			85	85		0
	1	Ľ.	2		4	32	17	28	4	7	46	13	4	0	0	6	159		2	S	19	57	8		4	4			90	90		9
	-1-	W	9	1	œ	30	16	24	4	-	54	23	ŝ	0	0	15	180		ŝ	m	10	62	78		ŝ	<del>ر</del> مب			16	91		
					97	627	347	387	2317	48	100	116	57	25	85	248	4454		16	43	396	934	1392		1927	1927			[419	1419		468
		d.	2						•••	~									~	5									-			
	TOTAL	F	4		48	322	168	201	713	18	46	40	ň	90	3	103	1718			25	19	473	669		876	876			753	753		200
		W	3		49	305	179	186	1604	30	54	76	33	17	58	145	2736		10	18	204	461	693		1051	1051			666	666		268
	PROBA	DE DEATH		INFECTIOUS AND PARASITIC DISEASES	CHOLERA	TYPHOID & PARATYPHOID	DYSENTERY	DIARRHOEA & GASTROENTERITIS	T B OF LUNGS	LEPROSY	TETANUS NEONATORUM	OTHER TETANUS		POLIOMYLITIS	RABIES	O) DEATHS DUE TO OTHER DIGESTIVE DISORDERS	TOTAL	VIRAL INFECTIONS	CHIKENPOX	MEASLES	MALARIA	OTHER DEATHS DUE TO VIRAL FEVERS	TOTAL	NEOPLASM .	CANCER	TOTAL	<b>DESEASES OF THE BLOOD AND BLOOD</b>	FORMING ORGANS		TOTAL	METABOLIC DISEASES	DEABETES
		CODE	NO.		4 12	3 31	4.14	4 11	5.11	8 23	9.32	16.8	5.30	8.41	1 13	(4 00)			8.21	8 22	4 3.11	(3.00)			7 8 61				4 7.10			4 8 71
	CODE	NO	-	A	A 00	A 01	A 06	A 09	A 15	A 30	A 33	A 35	A 37	A 80	A 82			B	B 01	<b>B</b> 05	B 50-54 3.11			J	C 00-97		Q		D 50-64 7.10		ы ы	E 10-14 8 71

								AGE-	GROUP	AGE-GROUP ( IN YEARS	EARS )					
CODE	OLD	PROBA	30-34	34	35-39	39	40-44	4	45-49	49	Ś	50-54	55-59	59	+09	
NO.	CODE	DEATH	W	<u>ш</u>	W	ц	W	 1	W	<u>ц</u>	M	ш	×	EL4	W	L.
1	NO.	5	20	21	22	23	24	25	26	27	28	29	30	31	32	33
V		INFECTIOUS AND PARASITIC DISEASES						1		1		1				
<b>A</b> 00	4.12	CHOLERA	7	0	7	0		ľ	0	-	0	1	Ģ	0	10	-6
A 01	3 31	TYPHOID & PARATYPHOID	12	13	14	15	15	5	18	Ś	16	7	11	9	65	62
A 06	4 14	DYSENTERY	7	2	ň	s	2	ŝ	10	-	12	ę	ო	9	5	3
A 09	4 11	DIARRHOEA & GASTROENTERITIS	4	9	ŝ	4	б	S	ŝ	4	4	1	10		44	46
<b>A</b> 15	5 11	T B OF LUNGS	121	48	138	85	131	59	149	60	171	45	136	46	526	225
A 30	8.23	LEPROSY	0	0	٦	-	'n	0	4	0	7	0	1	1	15	12
A 33	9 32	TETANUS NEONATORUM	0	•	0	0	0	0	0	0	0	Q	Ģ	°,	0	0
A 35	8 31	OTHER TETANUS	4	0	m	-	7	0	ŝ	0	7	I	S	0	12	~~
A 37	5.30	WHOOPING COUGH	7	0	-	7	0	1	0	7	ŝ	0	Ę	7	2	6
A 80	8.41	POLJOMYLLITS	0	0	0	0	0	0	-	0	-	1	-	0	9	-
A 82	1.13	RABIES	4	0	1	0	0	-	7	ŝ	1	0	1	1	12	. <b>V</b> 1
	(4.00)	DEATHS DUE TO OTHER DIGESTIVE DISORDERS	9	7	~	7	7	7	12	ŝ	6	4	4	7	54	46
		TOTAL •	157	71	176	115	159	61	202	64	221	63	175	65	815	476
ø		VIRAL INFECTIONS												:	•	
B 01	8 21	CHIKENPOX	0	0	0	0	0	0	0	0	Ц	0	0	0	1	Π
B 05	8.22	MEASLES	0	0	0	0	l	0	0	0	0	0		0	0	5
B 50-54 3.11	3.11	MALARIA	4	9	13	11	'n	0	10	4	6	9	12	ý	72	58
	(3.00)	(3.00) OTHER DEATHS DUE TO VIRAL FEVERS	11	10	11	13	15	6	16	10	20	18	16	15	158	170
		TOTAL	15	16	24	24	19	6	26	14	30	24	29	21	231	231
U		NEOPLASM														
C 00-97, 8.61	8.61	CANCER	22	32	50	57	45	99	96	73	118	104	118	92	519	363
		TOTAL	22	32	50	57	45	99	96	73	118	104	118	92	519	363
A		<b>DESEASES OF THE BLOOD AND BLOOD</b>													2	}
		FORMING ORGANS														
D 50-64 7.10	7.10	ANAEMIA	6	25	23	25	11	19	33	25	36	18	73	31	289	332
		TOTAL	6	25	£	25	ij	19	33	25	36	18	53	31	289	332
Е		METABOLIC DISEASES														
E 10-14	8.71	DEABETES	Ŷ	7	80	9	ø	7	18	6	24	8	21	21	170	133
		TOTAL	Y)	2	90	9	×	ч	18	ھ	24	œ	21	21	170	133
				ſ												]

-

	25-29		61		11 6				6 8				28 25		51 43			83 73		4	4	21 16	9			13 2		0	35 11		4 3	
	-	W	18		10	10	2		~				17 2		18 5		26 3			9	5	6 2	I	17 3		6 1					~	
	20-24		17	-		- -			9	4	10	1	21 1		34 1			55 4		4	7		6			7		, r-	15 1	•	1	
		M	16		4	4			2	6					11 3		17 2			9	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			23 2		•	0		- 4		"	
	15-19		15		7	7			~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		22 2		25 1		22 1			_	11			25 2		4		· •••	10		2	•
		X	14		3	ŝ			1	~	9		26 2		4			30 4		4	15 1		7			5	0	~			1	
	10-14	ш, 	13		7	1			~	11	7	÷	24 2		4		6 2			4	14 1	16 1				4	0	5	9		4	
YEARS		W	12		3	£			<u>[</u> 6	5	9	5	42 2		5		11	16 1		14	41 1	10 1	5	67 3		÷	0	9	6		-	
AGE-GROUP ( IN YEARS	5-9	н. —		-	÷	m			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	16 1	ň	5			6			18		17 1	50 4	7	1	75 (		5	0	e	8		7	
JE-GRO		X	10		7	7			23		ŕ		09		7		17	19		31	238	19	~	296		2	0	10	12		9	
A(	7	T F	6		6	6				23		5			7		15	55		14	197 2	28	12	251 2		s.	0	6			7	
		X	00		1	1			14			4	4		ę		41	44		25		32	8	513 2		ŝ	0	~	11		1	
	5	ш. 	-		0	0			24		-	e	63		4		37	41		31	ষ	28	12	-		3	0	10	13		9	
	 	M	9		0	0					4	7			0						2 463			8 534		5	39				80	
	:	ď	S		200	200			234	259	2014	167	2674		3930		1439	5369		300	1642	5094	242	7278		425	ň	473	937		378	
	TOTAL	F	4		92	92			96	119	843	68	1126		1324		651	1975		154	828	2092	84	3158		143	6	131	283		140	
		W			108	108			138	140	1171	66	1548		2606		788	3394		146	814	3002	158	4120		282	30	342	654		238	
	PROBA	DEATH	2	MENTAL AND BEHAVIOURAL DISORDERS	MENTAL DISEASES	TOTAL	INFLAMATORY DISEASE OF CENTRAL	NERVOUS SYSTEM	MENINGITIS	CONVULSIONS	PARALYSIS OF CEREBRAL APOPLEXY	DEATHS DUE TO OTHER INFLAMATORY DISEASES	TOTAL	DISEASES OF CIRCULATORY SYSTEM	HEART ATTACK	(ISCHAEMIC HEART DISEASE)	CONGESTIVE AND OTHER HEART DISEASES	TOTAL	DISEASES OF THE RESPIRATORY SYSTEM	INFLUENZA	PNEUMONIA	BRONCHITIS & ASTHMA	OTHER DEATHS DUE TO RESPIRATORY SYSTEM	TOTAL	DISEASES OF THE DIGESTIVE SYSTEM	PEPTIC OR GESTRIC ULCER	OBSTRUCTED HARNIA	CIRRHOSIS & CHRONIC LEVER DISEASES	TOTAL	<b>DISEASES OF GENITOURINARY SYSTEM</b>	URAEMIA	
		CODE	NO.		8 51				- 6.20	6 30	6.10	[6 00]			7.30		7.00			I 3 21	5 21	J 5.12	[5.00]			4 21	06 8 C	8.11			8 82	-
	CODE	NO.	1	F	F 01-99		<u>ں</u>		G 00-01-6.20	G 40	G 41			I	I 21-25		I 51		1	J 10& J1 3 21	J18	J 20 & J			K	K 27-28 4 21	K 40-TO 8 90	K 74		Z	N 17-19	

								AGE	AGE-GROUP ( IN YEARS	P(IN Y	EARS)					
CODE	orp	PROBABLE CAUSE OF	30-34	34	3	35-39	9	40-44	45	45-49	8	50-54	\$	55-59	<del>1</del> 09	+
NO.	CODE	DEATH	W	ц	X	<u>ш</u>	W	4	Ψ	<u>ч</u>	M	ц.	W	ц	W	<b>E</b> 244
_	NO	2	20	21	22	23	24	25	26	27	28	29	30	31	32	33
ĬŦ		MENTAL AND BEHAVIOURAL DISORDERS			1	1	1		1			1				
F 01-99	8 51	MENTAL-DISEASES	Ś		10	6	11	S	7	S	œ	4	œ	'n	19	31
		TOTAL	S	-4	10	6	11	ŝ	2	ŝ	20	4	90	ŝ	19	31
5		INFLAMATORY DISEASE OF CENTRAL														
		NERVOUS SYSTEM														
G 00-01-6.20	6.20	MENINGITIS	2	0	9	ŝ	Ś	2	9	ę	4	0	7	7	24	9
G 40	630	CONVUESIONS	9	£	œ		9	0	7	ŝ	4	۴	ĥ	S	7	6
G 41	6,10	PARALYSIS OF CEREBRAL APOPLEXY	7	10	28	12	21	6	50	26	19	30	33	46	868	678
	[6.00]	DEATHS DUE TO OTHER INFLAMATORY DISEASES	0	9	-	9	6	m	S	4	12	m	1	ŝ	45	18
		TOTAL	20	19	43	22	41	14	68	36	81	36	66	56	944	711
I		<b>DISEASES OF CIRCULATORY SYSTEM</b>														
I 21-25	7.30	HEART ATTACK	47	28	121	57	120	55	213	85	236	75	295	102	1443	836
		(ISCHAEMIC HEART DISEASE)														
I 5 I	7,00	CONGESTIVE AND OTHER HEART DISEASES	37	19	59	29	23	16	51	33	40	28	45	24	388	344
		TOTAL	84	47	180	86	143	11	264	108	276	103	340	126	1831	1180
J		<b>DISEASES OF THE RESPIRATORY SYSTEM</b>														
J 10& J1 3 21	3 21	INFLUENZA	\$	7	9	ŝ	ŝ	0	0	ŝ	S	Ś	ι.	4	49	43
318	5.21	PNEUMONIA	7	m	4	ŝ	9	1	4	£	11	£	7	6	39	46
J 20 & J 5.12	5.12	BRONCHITIS & ASTHMA	20	11	. 50	25	46	33	82	51	147	73	194	100	2337	1698
	[5.00]	OTHER DEATHS DUE TO RESPIRATORY SYSTEM	£	4	×	4	2	7	9	m	9	7	4	7	89	45
		TOTAL	30	18	68	35	69	36	92	60	169	83	208	115	2514	1832
K		<b>DISEASES, OF THE DIGESTIVE SYSTEM</b>														
K 27-28	4.21	PEPTIC OR GESTRIC ULCER	12	Ś	24	6	20	6	22	11	25	S	30	6	108	74
K 40-TO 8.90	8.90	OBSTRUCTED HARNIA	7	0	1	1	7	0	1	7	S	0	m	-	14	5
K 74	8.11	CIRRHOSIS & CHRONIC LEVER DISEASES	17	٢	36	S	24	7	45	<i>0</i> 0	29	5	28	4	102	45
		TOTAL	31	12	61	15	46	16	68	21	59	10	61	14	224	124
z		DISEASES OF GENITOURINARY SYSTEM														
N 17-19	8.82	URAEMIA	5		14	٢	10	2	18	10	13	S	20	12	126	80
N 40	8.81	HYPERPLASIA OF PROSTERATE	0	0	0	0	-	0	13	0	ŝ	1	11	0	46	0
i		TOTAL	5	1	14	7	11	7	31	10	18	9	31	12	172	80

			1						AGE-G	AGE-GROUP ( IN YEARS	IN YEA	RS)							
E	OLD	PROBABLE CAUSE OF		TOTAL		Ó	1-0	14	4	5-9	6	10-14	1	15-19	61	20-24	24	25	25-29
NO.	CODE	DEATH	W	н	ď	W	15.	M	н	Σ	<u> </u>	W		M		N N		N N	
	Ŋ.	2	3	4	Ś	9	-	~	6	10	=	12	13	14	15	19	11	18	19
		PREGNANCY CHILDBIRTH AND PUERPERIUM				1	-		1				1	-	-	1			
0 03-T0 2.1	2.1	ABORTION	0	29	29	0	0	0	0	0	0	0	0	0	S	0	6	0	
010	231	PUERPERIUM	0	82	82	0	0	0	0	0	0	0	0	0	×	0	27	0	23
0 25	2 2 2	ANAEMIA OF PREGNANCY	0	52	52	0	0	0	0	0	0	0	Ģ	0	4	0	13		
0 64	2 32	MALPOSITION OF CHILD	0	39	39	0	0	0	0	0	0	0	0	0	m	.0	15		. ~
		(LEADING TO DEATH OF MOTHER)													r.	•	2	1	
0 85 .	2 33	PUERPERAL SEPSIS	0	34	34	0	0	0	0	0	0	0	0	0	'n	0	12	C	
060	[2 00]	UNCLASSIFIED	0	61	61	0	0	0	0	0	0	0	0	0		0	100		16
		TOTAL	0	297	297	0	0	0	0	0	0	0	0	0	26	0	106		
		CONDITIONS ORIGINATING																•	•
70 a	-	IN THE PERINATAL PERIOD Deema tridity	000	679	101	000	67.9	c	c	¢	c	c	c	c	¢	•	•		
CT.	1,0		í t	710	211	3	710		> c				<b>.</b>	<b>.</b>	<b>-</b> -	<b>&gt;</b> <	5 0	<b>ə</b> (	
P 22	1891	RESPIRATORY INFECTION OF NEW BORN	362	324	686	362	324				• c	» د	。 。				> <	⇒ <	
78	9.33	DIARRHOEA OF NEW BORN	87	93	180	87	93	0	0	0	0	0	0	. 0	) C	> c	• c		
	[00 6]	DEATHS OF INFANTS UNCLASIFIED	474	533	1007	- 474	533	0	0	0	0	0	0	0	0	0	0	0	
		TOTAL	1985	1876	3861	1985	1876	0	0	0	0	0	0	0	0	0	• •	. 0	
		CONGENITAL MALFORMATION DEFORMATIONS AND ABNORMALITIES																•	
Q 00-99 9 22	9 22	CONGENITAL MALFORMATION	98	96	194	98	96	0	0	0	0	0	0	0	0	C	c	C	
		TOTAL	98	96	194	98	96	0	0	0	0	0	0	0	• •	• <b>-</b>	, c	~ <b>-</b>	
		SYMPTOMS, SIGNS AND ABNORMAL CLINICAL														1	,	•	
		FINDING NOT ELSEWHERE MENTIONED																	
	431	ACUTE ABDOMEN	407	323	730	61	13	30	23	36	20	13	20	11	21	21	31	12	
	8 12	JAUNDICE	270	201	471	25	28	23	28	10	15	æ	8	10	œ	16	27	21	2
	10	SENILITY	3647	3561	7208			0	0	0	0	0	0	0	0	0	0	0	0
R 68 8	2 21	TOXEMIA	0	35	35	0	0	0	0	0	0	0	0	0	S	0	7	0	-
		TOTAL	4324	4120	8444	61	54	53	51	46	35	21	28	21	34	37	65	33	4

.

									AUDIT VIL JUOND-JUN		2221					
CODE	drb	PROBABLE CAUSE OF	30	30-34	35	35-39	40	40-44	45	45-49	<u>50</u>	50-54	55-59	59	+09	
NO.	CODE	DEATH	Μ	뜨	W	щ	X	Ŀ	X	ш	X	ш	Σ	F	W	н
1	NO.	2	20	21	22	23	24	25	26	27	28	29	30	31	32	33
		PREGNANCY CHILDBIRTH AND PUERPERIUM			]											
0 03-TO 2.1	2.1	ABORTION	0	9	0	ŝ	0	0	0	0	0	0	0	0	0	0
010	2.31	PUERPERIUM	0	12	0	L	0	2	0	m	0	0	0	0	0	0
0 25	2.22	ANAEMIA OF PREGNANCY	0	14	0	4	0	æ	0	0	0	0	0	0	0	0
O 64	2.32	MALPOSITION OF CHILD	0	8	0	ŝ	0	2	0	0	0	0	0	0	0	0
		(LEÀDING TO DEATH O" MOTHER)														
0 85	2 33	PUERPERAL SEPSIS	0	5	0	4	0	0	0	0	0	0	0	0	0	0
060	[2.00]	UNCLASSIFIED	0	~	0	4	0	0	0	0	0	0	0	0	0	0
		TOTAL	0	53	0	25	0	Ŀ	0	£	0	0	0	0	0	0
a		CONDITIONS ORIGINATING														
		IN THE PERINATAL PERIOD														
P 07	9.1	PREMATURITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P 10-TO	9.23	BIRTH INJURY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P 22	16 9	RESPIRATORY INFECTION OF NEW BORN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P 75-78	9 33	DIARRHOEA OF NEW BORN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	[00'6]	DEATHS OF INFANTS UNCLASIFIED	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		TOTAL	•	0	0	0	0	0	0	0	0	0	0	0	0	0
0	_	<b>CONGENITAL MALFORMATION</b>														
		<b>DEFORMATIONS AND ABNORMALITIES</b>														
Q 00-99	9 22	CONGENITAL MALFORMATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		TOTAL	0	0	0	0	0	0	•	0	0	0	0	0	0	0
R		SYMPTOMS, SIGNS AND ABNORMAL CLINICAL														
		FINDING NOT ELSEWHERE MENTIONED														
R 10	431	ACUTE ABDOMEN	19	17	30	6	18	6	26	19	23	17	25	14	124	67
R 17	8 12	JAUNDICE	6	10	20	9	13	S	16	\$	13	Π	13	7	73	26
R 54	10	SENILITY	0	0	0	0	0	0	0	0	0	0	0	0	3647	3561
R 68.8	2.21	TOXEMIA	0	9	0	0	0	m	0	0	0	0	0	0	0	0
		TOTAL	<b>78</b>	33	50	15	31	11	42	24	36	28	38	16	3844	3684

48

•

,

•

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	M $M$
M     F     M     F     M     F     M     I       6     7     8     9     10     11     12     1       7     5     5     13     6     12     3       3     2     5     4     6     4     4       10     7     10     17     12     16     7       2     3     22     15     36     13     27       2     3     22     15     36     13     27	M     F     M     F     M     F     M     I       6     7     8     9     10     11     12     1       7     5     5     13     6     12     3       3     2     5     4     6     4     4       10     7     10     17     12     16     7       2     3     22     15     36     13     27       2     3     22     15     36     13     27	F     M     F     M     F     M     I       7     8     9     10     11     12     1       7     5     5     13     6     12     3       3     2     5     4     6     4     4       10     7     10     17     12     16     7       2     3     22     15     36     13     27       2     3     22     15     36     13     27       8     4     12     7     12     8     12	F     M     F     M     F     M     I       7     8     9     10     11     12     1       5     5     13     6     12     3       2     5     4     6     4     4       7     10     17     12     16     7       3     22     15     36     13     27       3     22     15     36     13     27       4     12     7     12     8     12       4     12     7     12     8     12	M     F     M     F     M     I       8     9     10     11     12     1       5     5     13     6     12     3       2     5     4     6     4     4       7     10     17     12     16     7       3     22     15     36     13     27       3     22     15     36     13     27       4     12     7     12     8     12       4     12     7     12     8     12	M     F     M     F     M     I       8     9     10     11     12     1       5     5     13     6     12     3       2     5     4     6     4     4       7     10     17     12     16     7       3     22     15     36     13     27       3     22     15     36     13     27       4     12     7     12     8     12       4     12     7     12     8     12       4     12     7     12     8     12       4     12     7     12     8     12       4     12     7     12     8     12       0     4     6     17     9     20	M     F     M     F     M     I       8     9     10     11     12     1       5     5     13     6     12     3       2     5     4     6     4     4       7     10     17     12     16     7       3     22     15     36     13     27       4     12     7     12     8     12       4     12     7     12     8     12       4     12     7     12     8     12       0     4     6     17     9     20       0     4     6     17     9     20       2     4     2     4     0     3	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	M         F         M         F         M         I         I
6     7     8     9     1       7     5     5     13       3     2     5     4       10     7     10     17       2     3     22     15       2     3     22     15       2     3     22     15	6     7     8     9     1       7     5     5     13       3     2     5     4       10     7     10     17       2     3     22     15       2     3     22     15       2     3     22     15	7     8     9     1       7     5     5     13       3     2     5     4       10     7     10     17       2     3     22     15       2     3     22     15       8     4     12     15       8     4     12     15	7 8 9 1 5 5 13 2 5 4 7 10 17 3 22 15 3 22 15 4 12 7 4 12 7	8     9       5     5       2     5       3     22       4     12       4     12	8     9     1       5     5     5     13       7     10     17     16       3     22     15       3     22     15       4     12     7       0     4     6	8     9       7     10       3     22       3     22       4     12       4     12       0     4       0     4       2     15       3     22       12     15       2     15       3     22       4     12       7     12       7     2	8     9     1       5     5     5     13       7     10     17     16       3     22     15     15       4     12     7     16       4     12     15     16       0     4     12     7       0     2     15     15       0     2     15     15       0     2     15     15       1     2     15     15	8     9       7     10       3     22       3     22       4     12       4     12       6     1       7     16       17     16       17     16       17     15       2     15       2     15       12     15       12     15       12     15       12     15       12     15       13     15       14     12       15     15       16     1       17     15	8     9       1     10       3     22       3     22       3     22       3     22       4     12       2     4       2     4       2     4       2     4       2     15       3     22       12     1       2     4       2     4       2     5       12     7       2     1       2     1       2     1       2     1       2     1       2     1       2     1       2     1       2     1       2     1       2     1       2     1       2     1       2     1       2     1       2     1       2     1       2     1       2     1       2     2       3     1       4     1       5     1       6     1       7     1	8     9       7     10       3     22       3     22       3     22       4     12       7     10       10     17       3     22       3     22       12     7       2     4       12     7       12     7       12     7       12     7       12     7       12     7       12     7       12     7       12     7       12     7       12     7       12     7       12     7       13     12       14     0       12     7       13     12       14     0       15     1       16     1       17     15       18     12       19     12       10     1       10     1       11     1       12     1       13     1       14     1       15     1       16     1       17     1       1	8     9       1     10       1     10       1     10       1     10       1     10       1     10       1     10       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	8     9       8     3       2     5       3     22       3     22       4     12       4     12       4     12       1     4       2     4       2     4       2     15       3     22       1     12       2     4       2     4       2     4       2     1       3     22       1     3       1     3       1     3       1     3	8     9       8     7       7     10       7     10       8     9       9     1       9     1       9     1       9     1       10     1       10     1       10     1       11     3       11     3       11     3       11     5	8     9       8     9       7     10       10     17       3     22       3     22       3     22       10     17       10     17       10     17       11     10       12     15       12     15       13     12       14     12       12     13       13     12       14     12       1     34       1     36       1     38       62     38
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	-										
	60 01 01 01 01 01 01 01 01 01 01 01 01 01	456 148 604 016 016 264												
152 304 85 63 237 367 776 240 776 240	304 63 367 240 1 240 1	304 63 367 240 1 99	304 63 367 240 1 99 99	304 63 367 240 1 240 1 99	304 63 367 240 1 99 99	304 63 367 240 1 15 99 99	304 63 367 240 1 7 99 6 6	304 63 867 240 1 1 7 99 99	304 63 367 240 1 1 7 1 1 1 8 1 1 8 1	304 63 367 240 1 17 99 99 11 11 11 11 11 11 11 11 11 11 11	304 63 63 367 240 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	304 63 63 63 64 11 17 17 17 17 17 17 17 17 17 17 17 17	304 63 63 63 240 1 1 7 69 99 11 17 17 17 11 81 17 109	304 63 63 240 1 12 99 99 11 11 11 11 11 12 10 91 10 91 10 92 10 92 10 92 10 93 10 10 10 10 10 10 10 10 10 10 10 10 10
IORTALITY	IORTALITY SES OF	IORTALITY SES OF	FOOD POISONING 85 TOTAL 237 EXTERNAL CAUSE OF MORTALITY 237 VEHICULAR ACCIDENTS 776 776 TOTAL 776 OTHER EXTERNAL CAUSES OF 776 OTHER EXTERNAL CAUSES OF 76 OTHER FOR 76 OTHER EXTERNAL CAUSES OF 76 OTHER EXTERNAL CAUSES OF 76 OTHER FOR 76 OTHER EXTERNAL CAUSES OF 76 OTHER FOR 76 OTHER 76 OTHER FOR 76 OTHER FOR 76 OTHER FOR 76 OTHER FOR 76 OTHER 76 OTHER 76 OTHER 76 OTHER 76	IORTALITY SES OF AL CONTACT	G USE OF MORTALITTY CIDENTS VAL CAUSES OF VJURIES FALL US ANIMAL CONTACT	G USE OF MORTALITY CIDENTS VAL CAUSES OF VJURIES FALL VIS ANIMAL CONTACT	G USE OF MORTALITY CIDENTS VAL CAUSES OF VJURIES FALL WS ANIMAL CONTACT WS ANIMAL CONTACT XCESSIVE HEAT	G JSE OF MORTALITTY CIDENTS VAL CAUSES OF VJURIES FALL US ANIMAL CONTACT WS ANIMAL CONTACT XCESSIVE HEAT XCESSIVE HEAT XCESSIVE COLD	G USE OF MORTALITTY CIDENTS VAL CAUSES OF VJURIES FALL. US ANIMAL CONTACT US ANIMAL CONTACT XCESSIVE HEAT XCESSIVE HEAT XCESSIVE COLD ER NATURAL CALAMITY	G USE OF MORTALITTY CIDENTS VAL CAUSES OF VJURIES FALL WS ANIMAL CONTACT WS ANIMAL CONTACT WS ANIMAL CONTACT TALL KCESSIVE HEAT XCESSIVE HEAT XCESSIVE COLD ER NATURAL CALAMITY ER NATURAL CALAMITY ER NATURAL CALAMITY		ALITY DF ONTACT VT LD CALAMITY ICIDE)	G USE OF MORTALITTY CIDENTS VAL CAUSES OF VURIES FALL US ANIMAL CONTACT US ANIMAL CONTACT US ANIMAL CONTACT T XCESSIVE HEAT XCESSIVE HEAT XCESSIVE HEAT XCESSIVE AND ELF HARM (SUICIDE) OMICIDE) VIAL DEATHS	ALITY ALITY ONTACT ONTACT CALAMITY CALAMITY ICIDE)
IORTALITY 776 776 776	IORTALITY 776 776 776 SES OF	IORTALITY 776 776 SES OF 165	IORTALITY 776 776 SES OF 165 165	776 776 165 165	USE OF MORTALITY 776 CIDENTS 776 VAL CAUSES OF 776 VJURIES OF 165 FALL 165 US ANIMAL CONTACT 176	USE OF MORTALITY 776 CIDENTS 776 VAL CAUSES OF 776 VJURIES OF 165 FALL 165 US ANIMAL CONTACT 176 31	USE OF MORTALITY CIDENTS 776 VAL CAUSES OF VJURIES FALL FALL IS I65 I65 I65 I65 I65 I65 I65 I65 XCESSIVE HEAT I5	USE OF MORTALITY CIDENTS 776 VAL CAUSES OF VJURIES FALL FALL I 65 165 165 165 165 165 165 165 165 165 1	USE OF MORTALITY 776 CIDENTS 776 VAL CAUSES OF 776 VJURIES FALL 165 FALL 165 US ANIMAL CONTACT 165 US ANIMAL CONTACT 176 31 XCESSIVE HEAT 15 XCESSIVE HEAT 15 XCESSIVE COLD 21 ER NATURAL CALAMITY 38	USE OF MORTALITY 776 CIDENTS 776 VAL CAUSES OF 776 VJURIES FALL 165 FALL 165 US ANIMAL CONTACT 165 US ANIMAL CONTACT 176 31 XCESSIVE HEAT 15 XCESSIVE HEAT 15 XCESSIVE COLD 21 ER NATURAL CALAMITY 38 ELF HARM (SUICIDE) 679	USE OF MORTALITY 776 CIDENTS 776 VAL CAUSES OF 776 VJURIES OF 165 VJURIES OF 165 VJURIES OF 776 VJURIES OF 776 VJURIES OF 76 05 05 05 05 05 05 05 05 05 05 05 05 05	ALITY 776 DF 776 776 776 776 165 0NTACT 16 165 165 0NTACT 15 21 21 21 21 21 21 21 21 289 160 160	ALITTY 776 DF 776 776 776 165 165 165 165 165 165 21 21 21 21 21 21 21 229 160 160 160 160 229	ALITTY 776 DF 776 DF 776 776 776 165 165 165 165 21 21 21 21 21 21 21 21 21 21
776	776 SES OF	ISES OF 165	776 ISES OF 165 165	776 165 165	776 VAL CAUSES OF VUURIES FALL. I65 US ANIMAL CONTACT 176	776 VAL CAUSES OF VJURIES FALL FALL US ANIMAL CONTACT 176 31	VAL CAUSES OF VJURIES FALL US ANIMAL CONTACT US ANIMAL CONTACT 176 31 31 31 31 31	776       WAL CAUSES OF       WIL CAUSES OF       WILNES       FALL       FALL       FALL       I65       I65       WIS ANIMAL CONTACT       I76       31       XCESSIVE HEAT       XCESSIVE COLD       21	VAL CAUSES OF VURIES FALL FALL US ANIMAL CONTACT US ANIMAL CONTACT I 165 165 165 165 165 165 165 176 31 31 XCESSIVE HEAT XCESSIVE HEAT XCESSIVE COLD ER NATURAL CALAMITY 38	776       WAL CAUSES OF       WURIES       FALL       FALL       FALL       FALL       I65       WIS ANIMAL CONTACT       165       MIS ANIMAL CONTACT       176       31       XCESSIVE HEAT       XCESSIVE COLD       ER NATURAL CALAMITY       BR NATURAL CALAMITY       679	776       WAL CAUSES OF       VJURIES       FALL       FALL       FALL       I65       US ANIMAL CONTACT       165       US ANIMAL CONTACT       176       US ANIMAL CONTACT       176       176       31       XCESSIVE HEAT       15       XCESSIVE HEAT       15       XCESSIVE COLD       21       8       ELF HARM (SUICIDE)       289	F     776       0     165       0     165       0     165       1     176       31     31       31     31       32     21       20     21       21     38       31     38       31     38       10DE)     679       160     160	F     776       0     165       0     165       0     165       0     176       1     176       2     21       2     21       2     21       3     21       3     21       3     21       3     21       2     21       3     21       2     21       3     21       2     21       2     21       2     21       2     21       3     21       3     21       3     21       3     21       3     21       3     21       3     21       2     29       160     160       160     229	JF 776 JF 165 ONTACT 165 I 165 ONTACT 15 I 166 I 160 I 160 I 160 I 160 I 160 I 160 I 160 I 1638
	THER EXTERNAL CAUSES OF	ISES OF 165	ISES OF 165	165 165	NAL CAUSES OF NJURIES FALL. 165 165 NUS ANIMAL CONTACT 176 1	NAL CAUSES OF VJURIES FALL FALL US ANIMAL CONTACT 176 1 31	VAL CAUSES OF VJURIES FALL. 165 FALL. 165 NS ANIMAL CONTACT 165 NS ANIMAL CONTACT 176 31 XCESSIVE HEAT 15	VAL CAUSES OF VUTRIES FALL. 165 FALL. 165 165 015 NUS ANIMAL CONTACT 176 176 176 176 131 XCESSIVE HEAT 15 XCESSIVE HEAT 15 XCESSIVE COLD 21	VAL CAUSES OF VUURIES FALL FALL US ANIMAL CONTACT US ANIMAL CONTACT 176 31 XCESSIVE HEAT XCESSIVE HEAT XCESSIVE COLD R NATURAL CALAMITY 38	VAL CAUSES OF VUTRIES FALL FALL US ANIMAL CONTACT US ANIMAL CONTACT 165 165 165 165 176 31 31 31 31 31 31 31 31 31 31 31 31 31	VAL CAUSES OF VUTURIES FALL. FALL. I65 US ANIMAL CONTACT I76 31 XCESSIVE HEAT XCESSIVE HEAT XCESSIVE HEAT XCESSIVE COLD T XCESSIVE ANTURAL CALAMITY ER NATURAL CALAMITY S 21 23 21 23 21 23 21 23 21 23 21 23 21 23 21 23 21 23 21 23 21 23 21 23 23 23 23 23 23 23 23 24 24 24 25 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28	JF     165       0NTACT     165       0NTACT     165       165     165       176     31       21     21       21     21       21     38       21     21       21     31       21     31       21     21       21     21       21     31       21     21	JF 165 ONTACT 165 ONTACT 165 165 ALAMITY 38 10(DE) 679 160 160	JF 165 ONTACT 165 ONTACT 165 UT 176 31 XI AMITY 38 31 21 21 21 21 21 21 21 21 21 21 21 21 21

								AGE	AGE-GROUP (IN YEARS	μ ( IN Υ	EARS )					
CODE	OLD	PROBA	30	30-34	3	35-39	40.	40-44	45	45-49	20	50-54	55	55-59	+09	
NO.	CODE	DEATH	X	ц.	X	H	W	4	M	<u>н</u>	X		X	4	W	ц,
	NO.	2	20	21	22	23	24	25	26	27	28	29	8	31	32	33
		INJURIES POISONING AND OTHER	] 					1	1		1	1		1		
T 20-37	24	LUNSEQUENCES OF EATERNAL CAUSES BLIRNS		5	2	78	<u>~</u>	×	ð	13	5	y	4	v	10	- 76
T 62	4 EL4	FOOD POISONING	- + - +	¦ m	- 10	3 5	94	<b>0</b>	, v	; <del>4</del>	;	• c	ъ 4		0	07 17
		TOTAL	22	35	12	33	17	10	15	17	16	, 9	6	o un	36	40
		EXTERNAL CAUSE OF MORTALITY												I		2
V 1-99	123	VEHICULAR ACCIDENTS	83	14	84	18	57	15	63	17	33	6	31	4	122	53
	-	TOTAL	8	14	84	18	57	15	63	17	33	6	31	4	122	£3
		OTHER EXTERNAL CAUSES OF														
		ACCIDENTAL INJURIES														
W 00-19 1.22	1.22	DEATH DUE TO FALL	12	9	6	S	4		ŝ	S	9	2	9	0	43	42
		TOTAL	12	9	6	Ś	4	1	ť	ŝ	6	1	6	0	43	42
		WITH VENOMOUS ANIMAL CONTACT														
X 20	1.11	SNAKEBITE	~~~	10	24	10	11	9	12	Ś	90	Ś	9	4	23	20
X 22	1 12	SCORPIAN BITE	•	0	2	-	0		Π	0	0	0	1	-	9	-
X 30	1.51	<b>EXPOSURE TO EXCESSIVE HEAT</b>		0		0	0	-	-	0	1	1	0	0	ť	ŝ
X 31	1.52	<b>EXPOSURE TO EXCESSIVE COLD</b>	0	0	0	-		Π	c	۲	1	0	0	0	6	5
X 30-39 1 53	1 53	VICTIM OF OTHER NATURAL CALAMITY	7	1	-	7	1	0	εU	-	εņ	0	2	1	11	9
X 60-84 13	13	INTENTIONAL SELF HARM (SUICIDE)	70	52	73	38	51	27	40	26	45	19	26	7	66	47
X 71	1.21	DRØWNING	18	10	16	7	14	9	11	4	11	0	×	ξ	41	27
X 85-Y0 14	14	ASSAULT BY (HOMICIDE)	13	5	19	7	14	0	13	Ś	ŝ		7	-	18	Ś
	[00].[]	OTHER ACCIDENTAL DEATHS	23	4	25	11	15	7	20	6	12	4	7	'n	37	19
		TOTAL	135	82	161	Ľ	107	44	101	51	86	30	52	20	247	133
	[00 8]	OTHER MEDICALLY CERTIFIED DEATHS	13	7	15	6	18	12	11	8	15	6	15	12	110	87
		GRAND TOTAL	676	474	988	583	788	425	1140	565	1235	540	1267	613	12130	9532
			-													

.

50

### LIST OF CAUSES OF DEATH AS PER INTERNATIONAL CLASSIFICATION OF DISEASES (ICD)- 10TH REVISION (SURVEY OF CAUSES OF DEATH (RURAL)

	<u> </u>		
ICD	CODES	CAUSES OF	SYMPTOMS OF CAUSES OF DEATH
CODE	USED	DEATH	AS PER NON-MEDICAL
Xth	IN	AS PER Xth	LIST [SCD (R)]
REV.	SCD(R)	REVISION	
1	2	3	4
<u>A</u>	·	INFECTIOUS AINL	PARASITIC DISEASES
A 00	4.12	CHOLERA	PROFUSE WATERY MOTIONS RESEMBLING RICE WATER FOLLOWED BY VOMITTING STOPPAGE OF URINE EXCESSIVE THIRST COLLAPSEDEATH DUE TO DEHYDRATION
A 0I	3.31	TYPHYOID & PARATYPHOID	FEVER LONG DURATION PROGRESSIVELY INCREASING DURING DAY SEVERE HEADACHE ,TONGUE HIGHLY COATED,ABDOMINAL PAIN,CONSTIPATION,TOXIC,DEATH OCURED IN 2nd OR 3rd WEEK DUE TO DELIRIUM,SEVERE ABDOMINAL PAIN,OR PASSING BLOOD IN STOOLS
A 06	4.14	DYSENTERY (IRRITABLE BOWEL SYNDROME)	FREQUENT MOTIONS WITH LOWER BELLY-ACHE CONTAINING MUCUS OR BLOOD CONSTANT DESIRE TO DEFECATE WITHOUT ACTUAL DEFECATING
A 09	4.11	DIARRHOEA AND GASTROENTERITIS OF PRESUMED INFECTIOUS ORIGIN	VOMITTING & DIARRHOEA OF SUDDEN ON SET DEHYDRATION WITH SHALLOW EYES VOMITING & DIARRHOEA NUMEROUS IN NUMBER DIARRHOEA MEANS ABNORMAL FREQUENT DISCHARGE OF FLUID FAECES FROM BOWL
A 15	5.11	T B OF LUNGS (RESPIRATORY TUBERCULCULOSIS HISTOLOGICALLY CONFIRMED )	HISTORY OF CRONIC COUGH LOSS OF WEIGHT RAPIDLY BLOOD IN COUGHED MATERIAL PURE BLOOD MIGHT HAVE COUGHED OUT CONTINUED EMACIATION WITH LOSS OF WEIGHT, FEVER &SWEATS
A30	8.23	LEPROSY	IT IS A CHRONIC DISEASE IN THE FORM OF PATCHES ON THE SKIN WITH BLEBS TO START WITH AND ENDS ATROPHY OF THE SKIN ANDLOSS OF HAIR ON THE SKIN GIVING IT A PECULIAR APPEARANCE. THEREMAY BE NODULES ON THE BODY DISFIGURING THE PERSON WITH SWOLLEN EARS, DEFORMED PALMS AND AMPUTATED FINGERS
A 33	9.32	TETANUS NEONATORUM	CORD INFECTION-CHILD MAY HAVE AN ABSCESS OF UMBILICAL CORD,OR SEPSIS OF THE CORD,EVEN OF THEUMBILICUS ITSELF AT A LATER STAGE DEATH DUE TOTETANIC CONVULSIONS OF NÊW BORN TO BE INCLUDED HERE
A 35	8.31	OTHER TETANUS	HISTORY OF INJURY OR ULCER THERE IS A LOCK JAW WHOLE BODY BECOMES RIGID AND ADOPTS PARTICULAR POSTURE LIKE RAINBOW PERSON IS NOT ABLE TO OPEN HIS MOUTH EXTREME EXHAUSTION, BUT MIND IS HOWEVER CLEAR.

А37	5.30	WHOOPING COUGH	COUGH WITH WHOOP AT THE END OF SEVERE BOUT OF COUGH VOMITING OF FOOD LEADING TO EMACIATION DURING SHORT ILLNESS FEVER IS NOT ESSENTIAL GENERALLY INTHE CASE OF CHILDREN
A80	8.41	POLIOMYELITIS	IT IS A SUDDEN IN ONSET THERE IS A SUDDEN FEVER AND PARALYSIS OF ANY PART OF THE BODY,USUALLY ONE OF THE LOWER LIMB MAY OCCUR CHILD MAY ESCAPE DEATH WITH RESIDUAL PARALYSIS OR THE PARALYSIS MAY INVOLVE MORE AND MORE OF OTHER PARTS IN ASCENDING TYPE AND FINALLY DEATH APPROACHES RAPIDLY DUE TO BREATHLESSNESS
A 82	1.13	RABIES	SLEEPLESSNESS AND FEAR FROM WATER EYES ARE BULGING OUT,PERSON IS IN TENSION AND ANXIETY PAINFUL SPASM OF THE THROAT ON ATTEMPTING TO DRINK LIQUIDS THERE ARE CONVULSIONS THICK TENACIOUS, MUCOUS FLOWS OUT OF THE MOUTH PARALYSIS OCCUR AND PATIENT DIES IN A FEW DAYS

В		VIRAL INFEC	CTIONS
B01	8.21	CHICKENPOX	HIGH FEVER FOLLOWED BY SKIN ERUPTION ON THE NEXT DAY THESE ERUPTION APPEARS FIRST ON THE TRUNK AND SOON SPREAD TO FACE, SCALP AND PROXIMAL PARTS OF LIMBS DEATH OCCURS DUE TO HAEMORRHAGIC VARIETY WHERE THERE IS BLEEDING INTO SKIN RASH AND SURROUNDING AREAS
B05	8.22	MEASLES	WATERY EYES; ERUPTION OCCURS AFTER AN ATTACK OF FEVERE FOR FOUR DAYS; ERUPTION RED IN COLOUR AND UNIFORM ALL OVER THE BODY COLD COUGH AND RAPID BREATHING AND DIARRRHOEA
B 50-54	3.11	MALARIA	THERE IS A FEVER DAILY ,ON ALTERNATE DAYS OR EVERY FOURTH DAY FEVER RISE HIGH WITH CHILLS AND HEADACHE RETURNS NORMAL WITH SWEATING HIGH FEVER MAY BE ACCOMPANIED BY DELIRIUM LOSS OF APPETITE, VOMITTING AND PAIN IN LIMBS IN CHRONIC CASES,IT IS ASSOCIATED WITH ANAEMIA AND DEBILITY

С		NEOPLASM	
C 00-97	8.61	CANCER	SWELLING OF SMALL SIZE IN BREAST TONGUE,MOUTH,FACE,PENIS,SKIN IT TAKES A RAPID GROWTH
C 21		CANCER OF ANUS OR RECTUM	IN CASE ANUS OR RECTUM THE MOTION IS NOT BEING PASSED DUE TO PAIN , THERE IS BLEEDING AT THE PASSING OF MOTION ETC.
C 32		CANCER OF THROAT	IN CASE OF THROAT ,THERE IS CHANGE OR LOSS OFVOICE AND DIFFICULTY IN SWALLOWING
<b>C</b> 34		CANCER OF LUNG	IN CASE OF LUNG CANCER THERE IS UNEXPLAINABLE COUGH
C 50 &60		CANCER OF BREAST AND PENIS	IN CASE OF BREAST AND PENIS THE GROWTH GOES ON LIKE MUSHROOM

C52-55

CANCER OF CERVIX OR UTERUS IN CASE OF MALINGNACY OFTHE CERVIX OR UTERUS, THERE WILL BE LITTLE BLEEDING NOT RELATED TO THE MENSES OR IN A WOMEN WHO IS IN MENOPAUSE THERE IS EXTREME EMACIATION AND LOSS OF WEIGHT

٠

D		DISEASES OF	THE BLOOD AND
		BLOOD FORM	IING ORGANS
D 50-64	7.10	ANAEMIA (OTHFR THAN PREGNANT WOMEN)	COMPLAINED OF WEAKNESS, MARKED PALENFSS OF SKIN, EYES AND TONGUE LETHARGY AND LOSS OF WFIGHT PRESENCE OF BREATHLESSNESS AT RSET, AGRAVATED ON WALKING DEATH IS USUALLY DUE TO INFECTIONS, SWELLING OF FEET OR BREATHLESSNESS
E		METABOLIC	DISEASES
E 10-14	8.71	DIABETES	OCCURS TO MIDDLE AGED OR ELDERLY PERSONS WITH FATTY, INDISPOSITION, COMPLAINTS OF WEAKNESS AND DEBILITY, FREQUENT URINATION, THIRST, BAD EYT SIGHT, ITCHING OF THE SKIN, BOILS, ULCERS NOT HEALING PROPERLY SUSCEPTIBLE TO REPATED RESPIRATORY INFECTIONS LIKE COUGH, BURNING AT URINATION THE PERSON DIES OF DIABETIC COMA. THE DOCTER MIGHT HAVE TOLD HIM THAT HE HAD SUGGER IN THE URINE.
F		MENTAL ANI	D BEHAVIOURAL DISORDERS
F 01-99	8.51	MENTAL DISEASES	CHRONIC IN NATURE PERSON GOING ABOUT IS MENTALLY ILL AND DOES NOT CARE FOR FOOD OR CLOTHES
F 06			MENTAL DISORDERS DUE TO BRAIN DAMAGE AND DYSFUNCTION AND TO PHYSICAL DISEASE
F07			PERSONALITY AND BEHAVIOURAL DISORDERS DUE TO BRAIN DISEASE, DAMAGE AND DYSFUNCTION
G	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	INFLAMATOR	RY DISEASE OF CENTRAL
		NERVOUS SY	STEM
(† 00-01- 02-03	6.20	MENINGITIS	FEVER OF SHORT DURATION REGIDITY OF NECK ,CONVULSIONS AND HEADACHE PATIENT IS IRRITATED AND DOES NOT LIKE LIGHT,SOUND ETC PATIENT BECOMFS UNCONCSIOUS AND DIES
G 40		CONVULSIONS	CHILD HAD CONVULSIONS OVER AND OVER DUE TO SEVERAL UNDERLYING CAUSES MAY HAVE CONVULSIONS WITH HIGH FEVER, DIARRHOE AND INFECTION OF BRAIN ETC. CONVULSIONS MEAN VIOLENT INVOLUNTRY MUSCULAR CONTRACTION, FOLLOWED BY UNCONSCIOUSNESS LEADING TO DEATH

G 80-83

6.10

PARALYSIS OF<br/>CEREBRAL<br/>APOPLEXYAN ELDERLY PERSON MOVING ABOUT FREELY SUDDENLY<br/>GETS SICK AND LOSS CONSCIOUSNESS AND BECOMES<br/>COMATOSE<br/>PARALYSIS OF THE HALF OF THE BODY, OR OF ALL LIMBS,<br/>OR FACE IS NOTICED LATER<br/>PERSON MAY REGAIN SENSE AND REMAIN PARALYTIC, OR<br/>MAY DIE WITHOUT COMING TO CONSCIOUS LEVEL DUE TO<br/>CEREBRAL APOPLEXY

### I DISEASES OF CIRCULATORY SYSTEM

121-25 7.30 HEART ATTACK (ISCHAEMIC HEART DISEASE) PATIENT MIGHT HAVE COMPLAINED OF SEVERE AND ACUTE PAIN IN CHEST OR ARM

DIAGNOSED DURING LAST ILLNESS MAY ALSO BE INCLUDED

1 51 7.00	CONGESTIVE AND OTHER HEART DISEASES	CHRONIC BREATHLESSNESS AND COUGH WITH SWELLING OF FEET AND ABDOMEN AND PALPITATION OF HEART BREATHLESSNESS INCREASES IN WALKING AND RELIEF BY
		SITTING DEATH IS DUE TO ACUTE AND SEVERE
		BREATHLESSNESS IN CASE OF CONGESTIVE HEART DISEASE OTHER HEART DISORDERS (NOT DUE TO HEART ATTACK) IF

### J DISEASES OF THE RESPIRATORY SYSTEM

		•	
J 10 &J11	3.21	INFLUENZA	HIGH FEVER OF SHORT DURATION SEVERE PAIN IN BODY AND BACK COLD AND RUNNING OF NOSE WITH SEVERE COUGH TEMPERATURE MAY RISE VERY HIGH RESULTING IN DEATH MUSCULAR PAIN ALL OVER THE BODY SEVERE HEADACHE INSOMINIA,CONVULSIONS,DELIRIUM IT IS USUALLY IN EPIDEMIC FORM
J 18	5.21	PNEUMONIA	COUGH OF SHORT DURATION WITH HIGH FEVER OF SUDDEN ONSET PAIN INCHEST , MAY BE RAPID BREATHING IF CHILD- THERE MAY BE CONVULSIONS AND VOMITING RESPIRATORY FAILURE CAUSING DEATH
J 20	5.12	BRONCHITIS -	COUGH OF LONG DURATION ELDERLY PERSON SHORTNESS OF BREATH BOUTS OF COUGH RESULTING IN FROTHY MUCOUS EXPECTORATION SOMETIMES WITH FEVER PATIENT USUALLY HAS NO SLEEP AND SLOW DETERIORATION OF HIS CONDITION
J 45	5.13	ASTHMA	COUGH OF LONG DURATION – ELDERLY PERSONS SHORTNESS OF BREATH BOUTS OF COUGH RESULTING IN FROTHY MUCUS EXPECTORATION PATIENT HAS NO SLEEP AND SLOW DETERIOATION OF PATIENT'S CONDITION SUFFERING IS USUALLY SEASONAL DIFFICULTY IN BREATHING WITH" CATCALL " (WHEEZING) LIKE SOUND . COUGH IS OF PAROXYMAL IN NATURE WITH BREATHLESSNESS. HOUSEHOLD GIVES A HISTORY OF SEVERAL YEARS

K		DISEASES OF	THE DIGESTIVE SYSTEM
К 27-28	4.21	PEPTIC OR GESTRIC ULCER	HISTORY OF CHRONIC PAIN IN UPPER ABDOMEN, PFRIODIC IN NATURE ON EMPTY STOMACH OR AFTER TAKING FOOD ,RELIEVED BY ALKALIES.AND MILK,FOOD OR MEDICINES VOMITING OF DARK BLOOD OR PASSING OF BLOOD IN MOTIONS OR SEVERE ACUTF PAIN IN STOMACH MIGHT HAVE LEAD TO DEATH.
K 40-41- 42-43-44- 45-46-	8.90	OBSTRUCTED Harnia	HISTORY OF REDUCIBLE SWELLING IN SCROTUM WHICH USED TO COME ON COUGHING OR STRAINING. OBSTRUCTION OF SWELLING FORM GOING BACK INTO ABDOMEN IS CALLED OBSTRUCTED HERNIA. PAINFUL TENDER AND BRING HIGH FEVER DEATH OCCURS DUE TO DEHYDERATION OR SEPSIS.
K 74	8.11	CIRRHOSIS & CHRONIC LEVER DISEASES	MIGHT HAVE FELT MARKED WEAKNESS.UNFASINESS AND FULLNESS OF ABDOMEN MARKED SWOLLEN, BLOATED ABDOMEN WITH SWELLING OF FEET AND THEN FACE AND HANDS HISTORY OF JAUNDICE OR PROLONGED ALCOHOLIC ADDICTION IS KNOWN AT THE TIME OF DEATH, THERE MIGHT BE JAUNDICE, UNCONCIOUSNESS OR BLEEDING FROM ANY SOURCE SPECIALLY VOMITTING OF BLOOD
N		DISEASES OF	GENITOURINARY SYSTEM
N 17-19	8.82	URAEMIA	THERE IS PROGRESSIVE RENAL IMPAIRMENT FOLLOWED BY RENAL FAILURE, IN CASE OF CHRONIC URAEMIA INITIALLY HE PASSES LARGE QUANTITY OF URINE AND LATER THERE IS RAISE OF BLOOD PRESSURE TERMINALLY THERE IS MARKED DIMINUTION IN AMOUNT OF URINE PRODUCED BEFORE COMPLETE RENAL FAILURE
N 40	8.81	HYPERPLASIA OF PROSTERATE	ELDERLY MAN OF ABOVE 40 YEARS DIFICULT IN PASSING URINE WITH FREQUENT URGING THERE IS NO PASSAGŁ OF URINE LOWER ABDOMEN ACTS PAINFULLY TENSE PATIENT BECOMES DULL AND DROWSY WITH HICUPS AND VOMITINGS AND FACE IS SWOLLEN. THERE IS DELIRIUM OR COMA AND PATIENT DIES WITH OUT RFCOVERING CONSCIOUSNESS.
0		PREGNANCY	CHILDBIRTH AND PUERPERIUM
O 03-04- 05-06	2.10	ABORTION	SEVERE PAIN IN LOWER ABDOMEN FOLLOWED BY BLEEDING PER VAGINA. EXPULSION OF THE RODUCTS OF CONCEPTION. SOME TIMES VERY PROFUSE BLEEDING, CONTINUOUS AND FOUL SMELLING, PATIENT DIES DUE TO BLEEDING AND SHOCK.
O 10	2.31	PUERPERIUM	BLEEDING BEFORE THE ONSET OF DELIVERY BLEEDING IS RECURRENT, PAINLESS AND SUDDEN IN ONSET EXCESSIVE BLEEDING AT THE TIME OF DELIVERY THERE MAY BE EXCESSIVE BLEEDING AT THE TIME OF DELIVERY IT IS IMPORIANT TO NOTE THAT BLEEDING OCCURRED AFTER 7 MONTHS OF PREGNANCY OR DURING DELIVERY OR JUST AFTER DELIVERY BLEEDING IN SUDDEN, VERY PROFUSE, LFADING TO COLLAPSE, SHOCK AND DEATH

•

O 25	2.22	ANAEMIA OF' PREGNANCY	PREGNANT WOMEN WAS EXTREMELY PALE BLOODLESS BREATHLESSNESS & SWELLING IN FEET ASSOCIATED WITH MALNUTRITION, REPEATED .FEVERS .CHRONIC DIARRHOEA OR DYSENTRY
O 64	2.32	MALPOSITION OF CHILD (LEADING TO DEATH OF MOTHER)	CONDITION FOETUS INSIDE THE WOMB THAT MAY RESULT IN INJURY TO THE BABY OR THE MOTHER PROLONGED AND DIFFICULT LABOUR WHICH LEADS TO EXHAUSTION AND DEATH NON-AVAILABILITY OF OPERATIONAL FACILITIES AT HOME THE DELIVERY IN NATURAL METHODS MOTH+ER GETS EXHAUSTED DUE TO REPEATED INEFFECTIVE PAINS PULSE OF THE MOTHER RAPIDLY FALLS DUE TO HEAVY BLEEDING AND MOTHER DIES BEFORE THE EXPULSIONS
O 85	2.33	PUERPERAL SEPSIS	WITH IN TEN DAYS OF DELIVERY, HIGH FEVER, WITH FOUL SMELLING OF VAGINAL DISCHARGE MOTHER HAD SEVERE HEADACHE, SHIVERING, AND SWEATING LOWER ABDOMEN WAS TENSE AND VERY PAINFUL THERE MAY BE TRAUMA TO THE PRIVATE PARTS, EITHER EXTERNAL OR INTERNAL
O 90	2.00	UNCLASSIFIED	MATERNAL DEATHS WITH SPECIFIC SYMPTOMS

P

### CONDITIONS ORIGINATING IN THE PERINATAL PERIOD

P 07	9.10	PREMATURITY	ALWAYS REFER TO THE NEW BORN BABY BABY IS VERY SMALL IN SIZE AND MARKEBLY UNDER WEIGHT EITHER IT SI BORN EARLY,OR ONE OF THE PLURAL BIRTHS CHILD HAS FEEDING AND SUCKING DIFFICULTY SKIN IS VERY SOFT,AND NAILS ARE NOT FULLY DEVELOPPED HAIR ON HEAD ARE ALSO NOT DEVELOPED CRY OF THE BABY IS VERY FEEBLE AND WEEK
P 10-11- 12-13-14- 15	9.23	BIRTH INJURY	THERE IS A HISTORY OF PROLONGED LABOUR, WITH OR WITHOUT USE OF INSTRUMENTS. CHILD AFTER BIRTH IS USUALLY BLUE IN COLOUR. CRIES INA LOW VOICE HAD CONVULSIONS OR FACIAL PARALYSIS INJURIES ON THE FACE, UPPER EXTREMITIES, COLLAR BONE, ETC.
P 22	9.31	RESPIRATORY INFECTION OF NEW BORN	INFECTION OF THE RESPIRATORY TRACT ARE MOST COMMON
P 75-78	9.33	DIARRHOEA OF NEW BORN (DIGESTIVE SYSTEM DISORDERS OF NEW BORN)	INFANT SUDENTLY PASSES COUNTLESS NUMBER OF MOTIONS AND VOMUTTINGS THE SKIN BECOMES DRY, THE TONGUE IS DRY AND PARCHED FONTANELLE ARE DEPRESSED THE EYES ARE SUNKEN URINE IS YELLOW AND SCANTY HIGH TEMPERATURE, AND THE CHILD SOON GOES INTO COMA AND PASSED MOTION IN THE UNCONSCIOUS STATE AND DIES

Q		CONGENITAL N AND ABNORM	MALFORMATION, DEFORMATIONS ALITIES
Q 00-99	9.22	CONGENITAL MALFORMATION	CHILD HAS AN ABNORMAL HEAD, TOO BIG OR TOO SMALL SOME TIMES THE URINARY SYSTEM HAS SOME MALFORMATION SOME TIMES THE ANUS IS NOT PERFORATED TO PASS MOTION IN MAJOR ABNORMALITIES LIFE IS NOT COMPATIBLE
R	······	SYMPTOMS,	SIGNS AND ABNORMAL
			NDINGS NOT ELSEWHERE
		MENTION	
R 10	4.31	ACUTE ABDOMEN	ASSOCIATED WITH HIGH TEMPERATURE AND VOMITING BUT NO MOTION DUE TO INFLAMATION OF INTESTINES, OR APPENDIX IN CHILDREN DUE TO VOLVULOUS (i.e TWISTING OF THE BOWL) OR MULTIPLE ROUND WORMS etc. THE PATIENT IS SEEN ACTUALLY RINGLING IN BED AFTER SEVERE PAIN, THERE IS SUDDEN CALMNESS, PATIENT GOES INTO COMA AND DIES.
R 17	8.12	JAUNDICE	EYES ARE YELLOW IN COLOUR , AND THE SKIN IS YELLOW FEVER, HEADACHE, NAUSEA, VOMITING, AND LOSS OF APPETITE URINE IS OF YELLOW IN COLOUR.
R 54	10.00	SENILITY	DECEASED PERSON SHOULD BE ABOVE 60 YEARS AND NONE OF THE SPECIFIC CAUSES NOTED ABOVE CAN TRACED
R 68.8	2.21	TOXEMIA	SWELLING OF THE FEET BREATHLESSNESS AND FINALLY CONVULSIONS THERE MAY BE VOMITTING DEATH OCCURS DUE TO SEVRE CONVULSIONS OR BREATHLESSNESS

### T INJURIES POISONING, AND OTHER CONSEQUENCES OF EXTERNAL CAUSES

Т 20-32	1.24	BURNS	
T 36-50		POISIONING BY DRUGS MEDICA- MENTS & BIOLOGI- CAL SUBSTANCES	
T 51-65		TOXIC EFFECT OF ALCOHOL	
T 62	4.13	FOOD POISIONING	GROUP OF PERSONS HAVING SIMILAR ATTACK OF VOMITTING AND DIARRHOEA ONSET IS SUDDEN IN NATURE VOMIT MAY CONTAIN BLOOD OR FOUL SMELLING MATTER ACUTE PAIN IN THE STOMACH HIGH TEMPERATURE AND UNCONSCIOUSNESS

T 80-88

COMPLICATIONS OF SURGICAL & MEDICAL CARE NOT ELSEWHERE CLASSIFIED

## V EXTERNAL CAUSES OF MORTALITY

ŧ

- V 01-99 1.23 VEHICULAR ACCIDENTS
- V 01-09 PEDESTRIAN INJURED IN TRANSPORT ACCIDENT
- V 10-19 CYCLIST INJURED IN TRANSPORT ACCIDENT
- V 20-29 MOTORCYCLE RIDER INJURED IN TRANSPORT ACCIDENT
- V30-39 OCCUPANT OF THREE-... WHEELED-MOTOR VEHICLE INJURED IN TRANSPORT ACCIDENT
- V 40-49 CAR OCCUPANT INJURED IN TRANSPORT ACCIDENT
- V50-79 OCCUPANT OF HEAVY TRANSPORT VEHICLE INJURED IN TRANSPORT ACCIDENT
- V 80-89 OTHER LAND TRANSPORT ACCIDENT

## W OTHER EXTERNAL CAUSES OF ACCIDENTAL INJURIES

- W 00-19
   1.22
   DEATH DUE TÓ FALL

   W 65-74
   1.21
   DROWNING
- W 85-87 DEATH DUE TO ELECTRIC CUURENT

X WITH VENOMOUS ANIM			MOUS ANIMAL CONTACT
X 20	1.11	SNAKEBITE	EVIDENCE OF PUNCTURED WOUNDS USUALLY TWO IN NUMBERS SET ONE INCH APART BITTEN PART IS SWOLLEN AND PAINFULL PATIENT IS DULL AND UNABLE TO STAND UP SALIVA FLOWING OUT OF MOUTH VOICE IS LOST ,DIFFICULTY IN BREATHING AND FINALLY THE RESPIRATION STOPS

X 22	1.12	SCORPIAN BITE	SWELLINGOF LOCAL AREA VERY SEVERE PAIN PATIENT BECOMES COLD ,GETS EXHAUSTED AND DIES
<b>X</b> 30	1.51	EXPOSURE TO ECESSIVE HEAT	
X31	1.52	EXPOSER TOEXCESSIVE COLD	
X30-39	1.53	VICTIM OF OTHER NATURAL CALAMITY	SUCH AS LIGHTNING,EARTHQUAKE,FLOOD,LANDSLIDE. STORM OR UNSPECIFIED FORCES OF NATURE
X 40-49		ACCIDENTAL POISONING BY AND EXPOSER TO NOXIOUS SUBSTANCE	
X 60-84	1.30	INTENTIONAL SELF HARM	SUICIDE
X60-64 X 65-69		SELF POISONING - DO -	ANALGESIC, SEDATIVES, NARCOTICS, DRUGS AI COHAL, ORGANIC SOLVENTS, PESTICIDES
X70		HANGING , STRANGULATION	
X 71		DROWNING	
X72- <b>7</b> 4		FIRE ARMS	HANDGUN ,RIFLE.OTHER FIRE ARMS
X85-Y09	1.40	ASSAULT	HOMICIDE

### **BEHIND THIS REPORT**

### Shri J.K.BANTHIA Registrar General, India

Shri S.K.SINHA Deputy Registrar General, India

Shri ANAND KUMAR Deputy Director of Census Operations

Shri D.K. DEY Assistant Director of Census Operations

### Investigators

Smt. RAKSHA MALHOTRASmt. KAMLESH BAGAIShri LOKESWAR DAS

Statistical Assistants

Shri H.R.SACHDEVA

Shri SUBHASH GUPTA

<u>Reprography</u>

Shri S. K. JAIN

Smt. VANDANA RATRA

•