

*No. DES 15 OF 2011*



**GOVERNMENT OF KARNATAKA**

**REPORT  
ON  
MEDICAL CERTIFICATION OF  
CAUSE OF DEATH  
2009**



**Office of the Chief Registrar of Births & Deaths  
and  
Directorate of Economics & Statistics  
Bangalore**

## PREFACE

*The Report for the year 2009 is the twenty ninth in the series of the publication presenting statistics on causes of death obtained through the Civil Registration System under the registration of Births and Deaths Act, 1969. Section 10(2) of the Act empowers the state government to enforce the provision relating to medical certification of cause of death in specified areas taking into consideration the availability of medical facilities. Section 10(3) of the Act provides for issuing a certificate of the cause of death by the medical practitioner who has attended on the deceases at the time of death. At present, the report incorporates data on medically certified deaths received from Teaching, District, Specialized and General hospitals of the State.*

*2. Statistical analysis of causes of death forms an important mortality data base, which is the backbone of National Health Policy and Planning. The main aim of this report is to build mortality statistics, which is of vital importance to know the leading causes of deaths, as they are essential for prioritizing Public Health Programmes not only for the country as a whole but also equally important at regional/sub-regional level.*

*3. In the Report, data on medically certified deaths received from 1214 hospitals of the state has been tabulated in conformity with the ICD-Tenth Revision. The Statistics on causes of death have been presented, cross tabulating them by age and sex. The time series data on medically certified deaths by major cause groups for the previous five years have also been added.*

*4. I take this opportunity to express my sincere gratitude to the authorities of hospitals for furnishing the data, on the basis of which the Report has become possible. I am thankful to each one of them for their continued co-operation and shall be the strength in the years to come.*

*5. The data was processed in the Division dealing with Civil Registration, National Sample Survey, etc., of the Directorate.*

*Suggestions for improvement of the publication are most welcome.*

**Bangalore**  
**Date : 11.02.2011**

**H.E.Rajashekarappa**  
**Director & Chief Registrar of**  
**Births and Deaths**

## EXECUTIVE SUMMARY

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Reliable cause specific mortality statistics is required on a regular basis by Administrators, Policy Planners, Researchers and other Professionals for evidence-based decision making with regard to resource allocation, monitoring of indicators, identifying the Priorities for programmes and other related activities in the area of Public Health. Keeping this in view, the Scheme of *Medical Certification of Cause of Death (MCCD)* was introduced in the Country under the provisions of Registration of Births and Deaths (RBD) Act, 1969.

**Methodology:** The necessary data is collected in the Prescribed forms (Form No.4 for Hospital deaths and Form No.4A for Non-institutional Deaths). Both these forms have been designed by World Health Organisation and are supposed to be filled-up by the medical professionals attending to the deceased at the time of terminal illness. Thereafter, these forms are to be sent to the concerned Registrars of Births and Deaths for onward transmission to the Chief Registrar Office for tabulation as per National List based on International Classification of Death. The State subsequently send it to the Office of the Registrar General, India in the form of Statistical Table-9 for consolidation at the National level.

**Scope of the report:** The report on Medical Certification of Cause of Death – 2009 is based upon 115433 (Males: 73083 and Females: 42350) medically certified deaths (30 per cent of total registered deaths) supplied by 1214 Hospitals. As mentioned above, owing to different levels of efficiency of medical certification across the State, the number of deaths reported therein may lack the representative feature in the strict sense, however, it may be sufficient to throw some valuable insight into deaths by various cause groups and their gravity.

### **Findings:**

#### **Overall:**

Following are eight leading cause groups of deaths constituting around 85.35 per cent of total deaths:

- I. Diseases of circulatory system (28.26 per cent).*
- II. Certain infectious and parasitic diseases (11.23 per cent).*
- III. Injury, poisoning and certain other consequences of External causes (9.75 per cent).*
- IV. Certain condition originating in the perinatal period (8.95 per cent).*
- V. Diseases of the Respiratory System (7.47 per cent).*
- VI. Endocrine, Nutritional and Metabolic Diseases (6.88 per cent).*
- VII. Neoplasm (6.77 per cent).*
- VIII. Diseases of the Digestive System (6.04 per cent)*

- Among the “Diseases of the circulatory system” deaths, “*Ischemic Heart Diseases*” (*IHD*) account for the highest number of deaths (43.12 per cent). Around every 12<sup>th</sup> medically certified death has been reported to be caused by Ischemic Heart Disease alone.
- The major group “*Certain Infectious and Parasitic Diseases*” which is the second leading cause of death is mainly constituted by “*Tuberculosis and septicemia*”. Under this major group, the share of these two diseases are 42.96 per cent and 20.92 percent respectively. The Tuberculosis alone accounts for 5 per cent of the total medically certified deaths.
- The third leading cause group “*Injury, Poisoning and certain other consequences of External causes*” has a major constituent “*Poisonings by drugs and Biological substances and Toxic effects of substances chiefly non-medicinal as to source*” contributing around 34 per cent of the total deaths under this cause group and 3.3 per cent of total medically certified deaths.
- The fourth leading group “*Certain conditions originating in the perinatal period*” accounting for 8.95 per cent of the total medically certified deaths. “*Slow total growth, fetal malnutrition and immaturity*” accounts for 46 per cent of the deaths under the group and 8.95 per cent of total medically certified deaths.
- The major group “*Diseases of the Respiratory System*” is the fifth leading cause “*Other Lower Respiratory Disorders*” accounting for around 32 per cent of the total deaths under this cause group. The other major cause in this group is “*Pneumonia*” Causing 19 per cent of death. “*Pneumonia*” alone accounts for 1.39 per cent of the total medically certified deaths.
- The group of “*Endocrine, Nutritional and Metabolic Diseases*” is the sixth leading cause group accounting for 6.9 per cent of the total medically certified deaths. Under this cause group, “*Diabetes Mellitus*” group alone accounts for 92 per cent of total deaths reported and 6.3 per cent of total medically certified deaths.
- The seventh leading cause group, *Neoplasms (cancer)* is responsible for 6.8 per cent of the total medically certified deaths, of which “*Malignant Neoplasm of digestive organs*” accounts for around one-third of deaths. This is followed by “*Malignant Neoplasms of Lymphoid, Haematopoietic and Related tissue*” accounts for one-sixth of deaths.
- The major group comprising “*Diseases of Digestive System*” is the eighth leading cause accounting for 6.04 per cent of the total medically certified deaths. Among the deaths due to disorders of digestive system “*Diseases of the Liver*” alone accounts for more than 50 per cent of the total deaths in this group.

### **Age-wise:**

- Every tenth reported medically certified deaths has been of the infants (age less than 1 year).
- About 85 per cent of infant deaths have been reported to be caused by '*Certain conditions originating in the perinatal period*'.
- Among the children aged 1-4 years "*Certain Infectious and Parasitic Diseases*" have taken the highest toll of 32.03 per cent. In the age group 5-14 years as well this cause group claimed the topmost position with the share of 29.51 per cent.
- In the age-group of 15-24 and 25-34 years, major group. "*Injury Poisoning & certain other consequences of External causes*" is the first among the leading causes contributing around 45.42 per cent and 32.01 per cent respectively. It implies that these age-group of youth and adolescent are more vulnerable to injuries and poisoning related deaths.
- In the age-group 35-44 years, the first two leading causes "*Diseases of circulatory system*" and "*Certain Infectious and parasitic Diseases*" are having almost equal shares of 20.76 and 19.01 per cent respectively.
- For all the age-groups of 45 years and above "*Diseases of Circulatory System*" is the first leading cause of death. The percentage contribution of this cause group for 45 years and above, to respective age-group totals have been increasing with age. The percentage share of this cause group to the total medically certified deaths for these ages varies from 29.48 per cent to 45.96 per cent.
- The highest number of deaths (25571 i.e., 22.15 per cent of total) has been reported for the age-group 70 years and above.

### **Gender-wise:**

- The contributions of male and female deaths in the total medically certified cases has been reported to be 63.31 per cent and 36.69 per cent respectively, with a sex ratio of females to males to be 579 per thousand.
- There is no significant difference for both males and females as far as eight leading causes are concerned, except for neoplasm deaths and digestive system deaths.
- The percentage of female neoplasm deaths to total female medically certified deaths is 7.60 per cent as compared to the corresponding male figure of 6.29 per cent. On the contrary, the percentage of female digestive system deaths to total female medically certified deaths is just 3.54 per cent as compared to the corresponding male figure of 7.48 per cent.

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# CHAPTER - I

## INTRODUCTION :

The age, sex and cause specific mortality rates are important indicators for evidence based monitoring of health trends in the population. The statistics on causes of death is essential for planners, administrators and medical professionals in undertaking appropriate curative and preventive measures for various health problems. It may also play an important role in furtherance of medical research and may contribute immensely in improving the methods of diagnosis and analysis. Under the system of Registration of Births and Deaths, the scheme of Medical Certification of Cause of Death, an integral part of the Vital Statistics System, aims at providing a reliable database for generating cause specific mortality statistics on a regular basis.

**1.2** Medical Research is currently facing stiff challenges from the spread of a variety of ailments like Cancer, AIDS, Heart Diseases, Juvenile diabetes, non-communicable diseases, Swine flu and Chickungunya etc. For tackling these issues, good documentation of information on the causes of death is indispensable. Recognising this fact and in order to draw the profile of different natural and man made causes of death, the international community of Medical Professionals, under the aegis of World Health Organisation have codified most of the disease labeling them "*International Classification of Diseases (ICD)*".

**1.3** This ICD is customised to the Indian conditions under the scheme of "*Medical Certification of Cause of Death (MCCD)*". Important demographic indicators like Infant Mortality Rate, Maternal Mortality Rate and Child Mortality Rate are derived using the information on MCCD.

**1.4** This report is based on the 10<sup>th</sup> revision of ICD. The statistics presented in this report, give information on cause specific mortality cross classified by sex and age-groups. The prescribed Form No. 4 (Annexure-II) has to be carefully filled by the physician who examines / attends / treats the deceased during the period of his / her last illness. This form, which clearly spells out the various causes of death is the basis of this survey results.

**1.5 Meaning & Scope of Cause of Death:** The term 'cause of death' has been defined as to go back to the root / underlying cause. It is "the morbid condition to which can be traced the sequences of events ultimately resulting in death". The form prescribed for certification has two parts, Part-I for recording the diseases suffered by the deceased in a specific sequence to facilitate segregation of the underlying cause from the immediate cause and Part-II for other significant morbid conditions, even if they were not responsible for the death.

**1.6** The scheme of Medical Certification of Cause of Death has got the statutory backing under sections 10(2) and 10(3), 17(1)(b) and 23(3) of the Registration of Births and Deaths Act, 1969.

The provisions relating to MCCD in Registration of Births & Deaths Act, 1969 are as follows:

**Section 10(2)** : In any area, the State Government having regard to the facilities available therein in this behalf may require that a certificate as to the cause of death shall be obtained by Registrar from such person and in such form as may be prescribed.

**Section 10(3)** : Where the State Government has required under sub-section (2) that a certificate as to the cause of death shall be obtained. In the event of the death of any person who, during his last illness, was attended by a medical practitioner, the medical practitioner shall, after the death of that person, forthwith, issue without charging any fee, to the person required under this Act to give information concerning the death, a certificate in the prescribed form stating to the best of his knowledge and belief the cause of death; and the certificate shall be received and delivered by such person to the Registrar at the time of giving information concerning the death as required by this Act.

**Section 17(1) (b)** : Subject to any rules made in this behalf by the State Government, including rules relating to the payment of fees and postal charges, any person may obtain an extract from registration records relating to any death; provided that no extract relating to any death, issued to any person, shall disclose the particulars regarding the cause of death as entered in the register.

**Section 23(3)** : Any medical practitioner who neglects or refuses to issue a certificate under sub-section (3) of section 10 and any person who neglects or refuses to deliver such certificates shall be punishable with fine which may extend to fifty rupees.

**1.7** The report is presented in 3 chapters and 3 appendices. Chapters two and three deal with '*Scheme of Medical Certification of Cause of Death: Status of implementation*' and '*Distribution of Deaths by Cause*' respectively.

## CHAPTER – II

### **Scheme of MCCD : Status of Implementation :**

The RBD Act, 1969 provides for compulsory registration of births and deaths in the country. The scheme of MCCD was introduced in the State during the year 1967 with 44 selected hospitals. It was extended to 168 hospitals by 1990. 350 hospitals with bed-strength of 20 or more in towns and cities with a lakh or more population (as per 1981 census) were covered in 1991. This expansion was taken up as per the recommendations of the workshop on “Statistics of Cause of Death” held during 1986 at New Delhi.

**2.2** In order to take the MCCD Scheme forward in a systematic manner in the country, the Registrar General, India has been impressing upon all the States / Union Territories to bring all hospitals (Government & Private) and private medical practitioners under its coverage, both in rural as well as urban areas by imposing issue of Notification. In this context, the Government of Karnataka has been issued Notification to bring all Government and Private medical institutions and private medical practitioners under the scheme of Medical Certification of Cause of Death. By 2009, 1214 hospitals have been brought under the scheme. The scheme’s ambit is confined mostly to institutional deaths. Though the sample is representative, sweeping generalisations are not recommended, since a large no. of rural events remain outside the ambit of the survey.

### **MCCD Status : State Scenario : Flow of Data and Processing :**

**2.3** The certificates of cause(s) of death certified by the doctors were sent in the prescribed Form (No.4) directly from the institutions covered under the scheme of MCCD on a monthly basis to this Directorate. They were scrutinised & coded as per ICD-10<sup>th</sup> Revision & Table-9 derived as per the National list prescribed / designed by the Registrar General, India. Data was processed at the Inhouse Computer Centre of the CNL Division of the Directorate.

**2.4** During 2009, 67 percent of institutional and non-institutional medically certified death events to the 171522 (provisional) registered deaths as per the Civil Registration System in urban areas in the State was covered. As per the reported information, the no.of hospitals covered and reporting data on MCCD, Districtwise and Sexwise classification in the State is presented in the **Statement-1**.



## Statement – 1

## DISTRICTWISE AND SEXWISE DISTRIBUTION OF DEATHS - 2009

Sl. No.	District	No.of Hospitals	Male	Female	Total	% to Total
1	Bagalkote	42	1660	1124	2784	2.4
2	Bangalore	382	21563	12382	33945	29.4
3	Bangalore(R)	14	486	345	831	0.7
4	Belgaum	53	4098	2088	6186	5.4
5	Bellary	37	3019	1770	4789	4.1
6	Bidar	23	1029	524	1553	1.3
7	Bijapur	33	1654	922	2576	2.2
8	Chamarajanagar	13	263	157	420	0.4
9	Chikballapur	8	537	137	674	0.6
10	Chikmagalur	26	1252	696	1948	1.7
11	Chitradurga	20	1144	730	1874	1.6
12	D. Kannada	82	5329	3023	8352	7.2
13	Davanagere	26	3431	2176	5607	4.9
14	Dharwad	57	4348	2742	7090	6.1
15	Gadag	32	1647	1029	2676	2.3
16	Gulbarga	22	1436	916	2352	2.0
17	Hassan	21	1094	526	1620	1.4
18	Haveri	18	963	547	1510	1.3
19	Kodagu	14	631	299	930	0.8
20	Kolar	26	1484	890	2374	2.1
21	Koppal	14	243	132	375	0.3
22	Mandya	19	1438	778	2216	1.9
23	Mysore	38	5545	3229	8774	7.6
24	Raichur	14	988	669	1657	1.4
25	Ramanagar	10	197	155	352	0.3
26	Shimoga	41	2431	1475	3906	3.4
27	Tumkur	38	1682	999	2681	2.3
28	Udupi	47	2233	1202	3435	3.0
29	Uttara Kannada	44	1258	688	1946	1.7
	<b>Total</b>	<b>1214</b>	<b>73083</b>	<b>42350</b>	<b>115433</b>	<b>100.0</b>

**2.5** During 2009, a total of 115433 medically certified deaths were reported, of which 73083 and 42350 pertained to males and females respectively. Among 3546 hospitals in the State 34.24 per cent of hospitals were covered under Medical Certification of Cause of Death.

Out of 382 hospitals in Bangalore district, the district had reported 33945 deaths covering 29.4 per cent of total deaths.

The next highest number of hospitals (82) in Dakshina Kannada district covered under Medical Certification of Cause of Death accounted for 8352 deaths (7.2 per cent).

Less than 500 deaths were reported in the districts of Chamarajanagar, Koppal and Ramanagar.

**Growth in the Medical Certification of Cause of Death :**

**2.6** The time series data on MCCD for the year 1993 to 2009 reveals a significant long-term growth in absolute numbers of medically certified cases. The share of medically certified deaths in total registered deaths has been fluctuating over the years. It was 11.57 per cent during the year 1997 and highest with 30.98 per cent during the year 2008 and it was again decreased by 0.98 per cent during the year 2009 (30 per cent). The growth in MCCD during the last 17 years is given in **Statement-2** and is highlighted in the **Chart-1**.

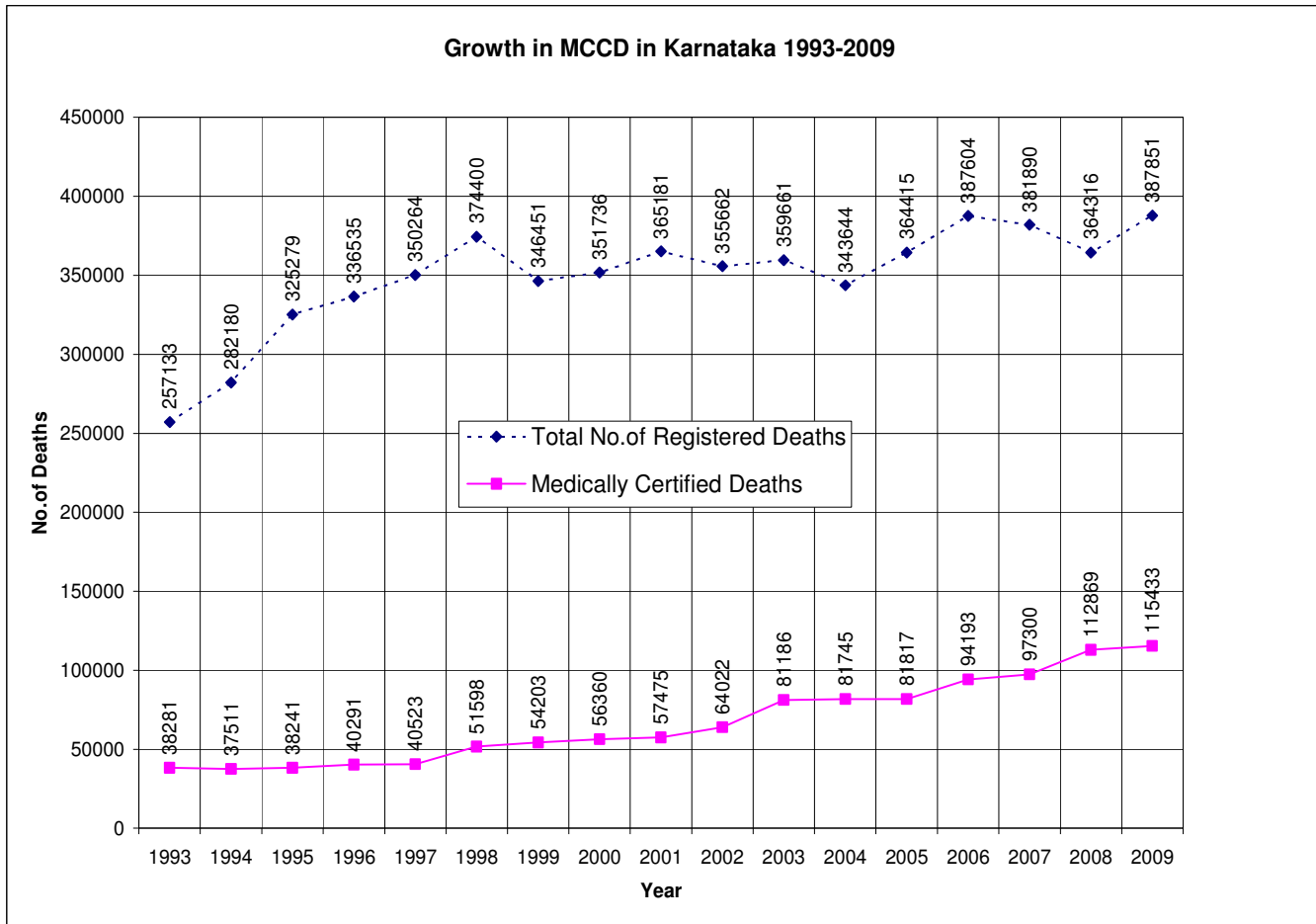
**Statement - 2**

**Growth in the Medical Certification as a part of total Registered Deaths**

Year	Total No. of Registered Deaths	Medically Certified Deaths	Percentage of Medically Certified deaths to Total Registered Deaths
1993	257133	38281	14.89
1994	282180	37511	13.29
1995	325279	38241	11.76
1996	336535	40291	11.97
1997	350264	40523	11.57
1998	374400	51598	13.78
1999	346451	54203	15.65
2000	351736	56360	16.02
2001	365181	57475	15.74
2002	355662	64022	18.00
2003	359661	81186	22.57
2004	343644	81745	23.79
2005	364415	81817	22.45
2006	387604	94193	24.30
2007	381890	97300	25.48
2008	364316	112869	30.98
2009	387851(P)	115433	29.76

(P) = Provisional

# Chart – 1



## CHAPTER – III

### Distribution of Deaths by cause

**3.1** The data on Medical Certification of Cause of Death has been presented as per the National list based on 10<sup>th</sup> revision of ICD, to facilitate meaningful comparison and drawing valid conclusions thereof. This chapter aims at summarising the findings of data reported on medically certified deaths from 1214 hospitals by age, sex and major cause groups. During 2009, a total of 115433 medically certified deaths were reported, of which 73083 and 42350 pertained to males and females respectively. The age-wise distribution of such deaths by sex is presented in the **Statement-3 & Chart-2**.

#### Statement – 3

##### Age and Sex Distribution of Medically Certified Deaths – 2009

Sl. No	Age Group (In years)	Male			Female			Total	
		No. of Medically certified Deaths	Percentage to		No. of Medically certified Deaths	Percentage to		No. of Medically certified Deaths	Percentage to total Medically certified deaths
			Total Male deaths Under MCCD	Total Medically certified deaths		Total Female deaths Under MCCD	Total Medically certified deaths		
1	<1 year	7284	9.97	6.31	4911	11.6	4.25	12195	10.56
2	1-4	745	1.02	0.65	685	1.62	0.59	1430	1.24
3	5-14	860	1.18	0.75	804	1.9	0.7	1664	1.44
4	15-24	2472	3.38	2.14	2552	6.03	2.21	5024	4.35
5	25-34	5215	7.14	4.52	3488	8.24	3.02	8703	7.54
6	35-44	7641	10.46	6.62	3505	8.28	3.04	11146	9.66
7	45-54	10611	14.52	9.19	4591	10.84	3.98	15202	13.17
8	55-64	12322	16.86	10.67	5945	14.04	5.15	18267	15.82
9	65-69	6471	8.85	5.61	3751	8.86	3.25	10222	8.86
10	70 & above	15429	21.11	13.37	10142	23.95	8.79	25571	22.15
11	Age Not Stated	4033	5.52	3.49	1976	4.67	1.71	6009	5.21
	<b>Total</b>	<b>73083</b>	<b>100</b>	<b>63.31</b>	<b>42350</b>	<b>100</b>	<b>36.69</b>	<b>115433</b>	<b>100</b>

**Note:** 1. Due to rounding off total may not tally with aggregate.

**3.3** The eight leading cause groups of deaths viz., *Diseases of the circulatory system (I00-I99)*, *Certain Infectious and Parasitic Diseases (A00-B99)*, *Injury, Poisoning and certain other consequences of external causes (S00-T98)*, *Certain conditions originating in the perinatal period (P00-P96)*, *Diseases of the Respiratory System (J00-J98)*, *Endocrine, Nutritional and Metabolic Diseases (E00-E89)*, *Neoplasm (C00-D48)* and *Diseases of the Digestive System (K00-K92)* taken together account for about 85.4 per cent of the total medically certified deaths detailed in **Statement-4**.

**Statement-4**

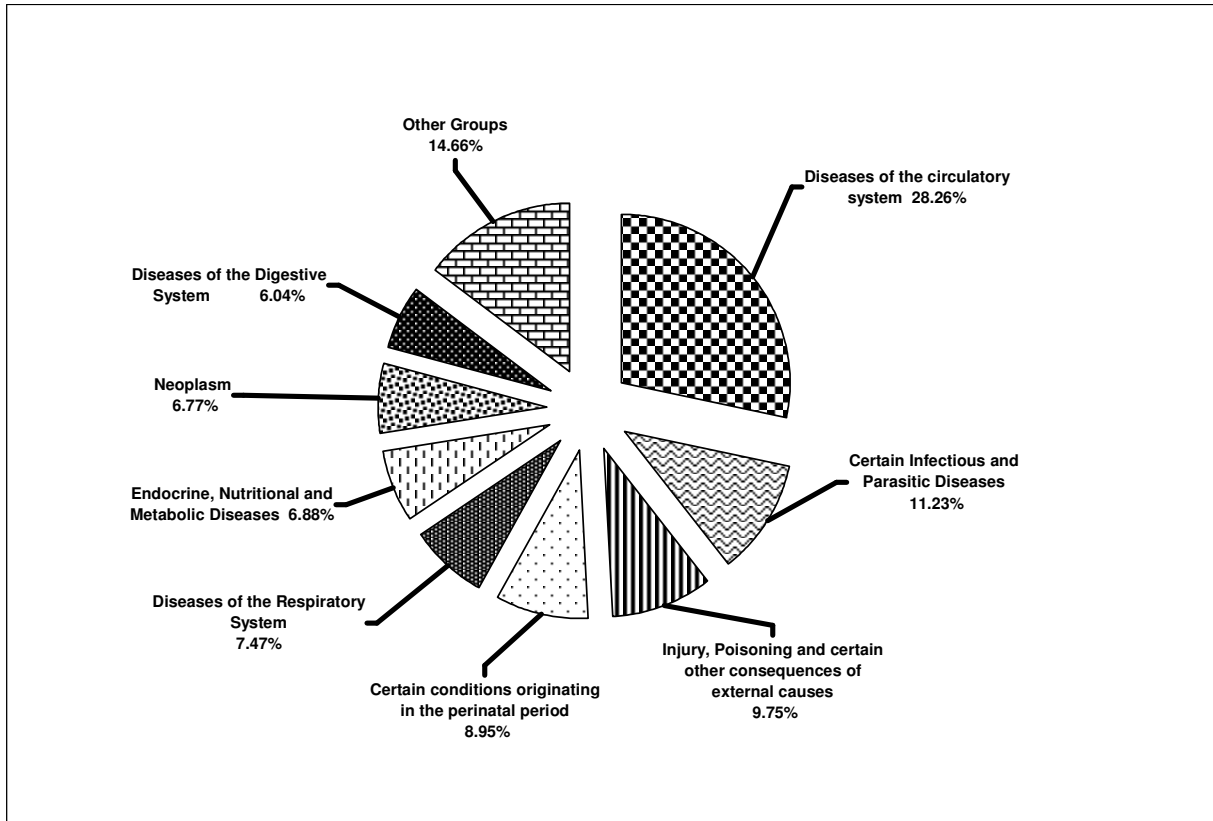
**Distribution of Medically Certified deaths by Sex and eight leading cause-groups during 2009**

Sl. No	Major Cause Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Diseases of the circulatory system (I00-I99)	20847	28.53	11769	27.79	32616	28.26
2	Certain Infectious and Parasitic Diseases (A00-B99)	8317	11.38	4646	10.97	12963	11.23
3	Injury, Poisoning and certain other consequences of external causes (S00-T98)	7315	10.01	3941	9.31	11256	9.75
4	Certain conditions originating in the perinatal period (P00-P96)	6204	8.49	4127	9.74	10331	8.95
5	Diseases of the Respiratory System (J00-J98)	5639	7.72	2980	7.04	8619	7.47
6	Endocrine, Nutritional and Metabolic Diseases (E00-E89)	4853	6.64	3091	7.30	7944	6.88
7	Neoplasm (C00-D48)	4594	6.29	3219	7.60	7813	6.77
8	Diseases of the Digestive System (K00-K92)	5468	7.48	1501	3.54	6969	6.04
	Other Groups	9846	13.47	7076	16.71	16922	14.66
	<b>TOTAL</b>	<b>73083</b>	<b>100.00</b>	<b>42350</b>	<b>100.00</b>	<b>115433</b>	<b>100.00</b>

3.4 Among the leading cause groups, *‘Diseases of Circulatory System’* constitute the maximum i.e. **28.26 per cent** of total medically certified deaths, followed by *‘Certain Infectious and Parasitic Diseases’* (**11.23 per cent**) and *‘Injury, Poisoning and certain other consequences of External Causes’*(**9.75 per cent**), *‘Certain conditions originating in the perinatal period’* constitute **8.95 per cent** of total medically certified deaths, followed by **7.47 per cent** due to *‘Diseases of the Respiratory System’*, *‘Endocrine, Nutritional and Metabolic Diseases’* *‘The Neoplasms’* and *‘Diseases of the Digestive system’* constitute around **6 percent** of the total medically certified deaths each. In respect of eight leading causes of death the gender difference is not significant. However, the sexwise distribution of medically certified deaths are on a higher side in case of *‘Diseases of Circulatory System’*, *‘Certain Infectious and Parasitic Diseases’*, *‘Injury, Poisoning and certain other consequences of External Causes’*, *‘Diseases of Respiratory System’* and *‘Diseases of the digestive system’* compared to corresponding female figures. The percentage distribution of medically certified deaths by leading cause groups is depicted in **Chart-3**.

**Chart - 3**

**PERCENTAGE DISTRIBUTION OF DEATHS UNDER MCCD BY LEADING CAUSE GROUP - 2009**



3.5 The percentage distribution of eight major cause groups of death for the period 1993 to 2009 is presented in the **Statement-5**.

**Statement – 5**  
**Percentage Distribution of 8 leading Major Cause Groups of Deaths during 1993 - 2009**

Year	Leading major cause groups of deaths (As per ICD-10)									
	Diseases of the circulatory system	Certain Infectious & Parasitic Diseases	Injury Poisoning & certain other consequences of external causes	Certain conditions originating in the Perinatal period	Diseases of the Respiratory System	Endocrine, Nutritional & Metabolic Diseases	Neoplasm	Diseases of the Digestive System	Other Groups	Total
1993	21.53	16.15	15.55	11.55	6.43	4.60	4.29	5.33	14.57	100.00
1994	21.93	14.79	15.97	10.40	6.23	4.86	4.74	6.04	15.04	100.00
1995	21.20	14.60	16.40	10.30	6.50	4.80	4.60	6.30	15.30	100.00
1996	21.10	14.40	15.80	10.20	7.50	4.70	4.20	6.40	15.70	100.00
1997	22.00	14.60	16.00	10.90	6.10	4.60	4.40	6.50	14.90	100.00
1998	22.10	15.50	15.30	9.30	6.40	4.80	4.50	6.60	15.50	100.00
1999	21.60	17.30	15.40	9.30	6.70	4.60	4.30	6.30	14.50	100.00
2000	26.31	15.16	9.21	10.27	6.42	4.68	3.85	7.25	16.85	100.00
2001	24.98	13.12	15.03	10.49	5.04	5.05	4.95	6.15	15.19	100.00
2002	25.32	12.32	13.63	10.39	5.22	5.95	4.45	6.26	16.46	100.00
2003	25.56	12.32	11.62	10.01	5.52	6.39	5.36	6.29	16.93	100.00
2004	25.65	12.24	11.48	9.54	5.43	6.29	6.20	6.45	16.72	100.00
2005	26.98	12.72	10.28	9.68	5.97	6.81	5.67	6.38	15.51	100.00
2006	27.51	12.03	10.19	7.71	6.52	8.07	5.86	6.55	15.56	100.00
2007	25.29	13.02	11.28	8.77	7.22	6.72	5.68	6.33	15.69	100.00
2008	28.78	11.12	10.16	8.32	7.56	6.84	6.25	5.96	15.01	100.00
2009	28.26	11.23	9.75	8.95	7.47	6.88	6.77	6.04	14.65	100.00

- Note:** 1. - 'Others' include to remaining major cause group.  
2. - Data in above table may not be strictly comparable over the reporting years due to switchover in the use of ICD-9 to ICD-10 in the State in tabulation from 1993 onwards and basic data on MCCD is for the years 1993 to 1999.

The data reveals that, the group of '*Diseases of the Circulatory System*' has not only occupied the position of top-most killer, but its percentage to total deaths has registered an increasing trend over the year. The major cause group '*Certain Infectious and Parasitic Diseases*' has shown on an average, a declining trend in its share to total deaths over the years.

**3.5.1** The proportion of deaths due to *'Injury, Poisoning and certain other consequences of External Causes'* has exhibited a fluctuating pattern over the years. However, the data on an average has displayed a downward movement.

**3.5.2** The group of *'Diseases of certain conditions originating in perinatal period'* which is the prime causes of deaths among infants, has shown more or less a declining trend in percentage term over the years.

**3.5.3** The share of medically certified deaths due to *'Diseases of Respiratory System'* has varied in the range of 5.04 per cent to 7.56 per cent during the period of 1993 to 2009, thus accounting for around 5 to 7 deaths per hundred reported medically certified deaths. What is important is that the proportion of deaths due to *'Diseases of Respiratory System'* has shown an increasing tendency since 2006.

**3.5.4** The share of medically certified deaths due to *'Endocrine, Nutritional and Metabolic Diseases'* has shown an increasing trend over the years.

**3.5.5** The percentage deaths due to *'Neoplasms'* has varied from 3.85 per cent to 6.77 per cent over the years. The noticeable part of time series since 1993 is that the share of deaths due to *'Neoplasms (6.77 per cent)'* has surpassed the *'Digestive System deaths (6.04 per cent)'* for the first time in 2009. In 2009, the percentage of medically certified deaths due to *'Diseases of Digestive System'* is 6.04 as against 7.25 in 2000. The share of deaths due to this cause has an average of 6 per cent since 1994 except in the year 2000 (7.25 per cent).

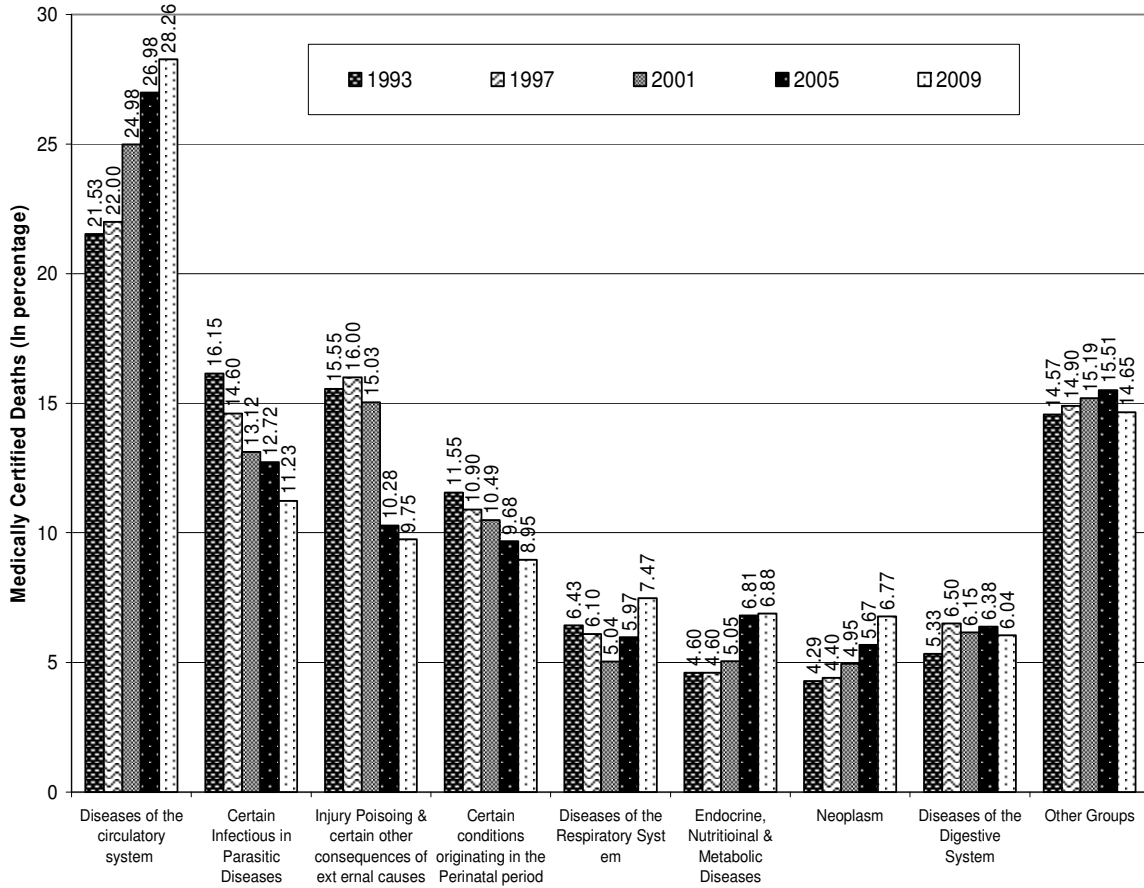
**3.5.6** The groups other than the eight leading ones constitutes less than 17 per cent of the total medically certified deaths since 1993.

**3.5.7** The **Chart-4** shows the percentage share of leading cause groups of death in Medical Certification of Cause of Death for the years 1993, 1997, 2001, 2005 and 2009.



**Chart –4**

**PERCENTAGE DISTRIBUTION OF LEADING CAUSE GROUPS OF DEATHS UNDER MCCD OVER THE YEARS**



## Leading Causes of Deaths

### 3.6 Diseases of the Circulatory System (IX):

It is the topmost ranking major group of disease, constituting 28.26 per cent of total medically certified deaths. It accounts for 28.53 per cent of males and 27.79 per cent of female deaths in their respective totals of medically certified deaths. The distribution of major components under this cause group is presented in **Statement-6** and is depicted in **Chart-5**.

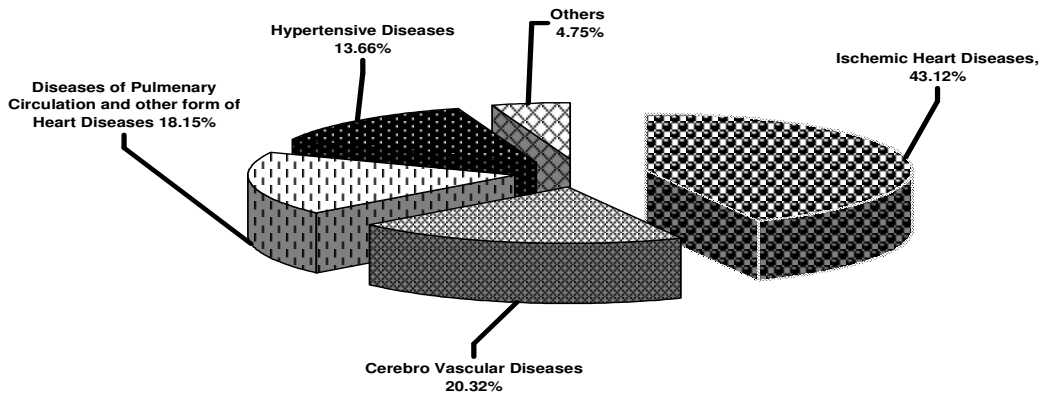
**Statement – 6**

**Distribution of Major causes of Deaths among Diseases of Circulatory System under MCCD - 2009**

Sl. No.	Cause of Death	Male		Female		Total		% to Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Ischemic Heart Diseases	9317	44.69	4746	40.33	14063	43.12	12.18
2	Cerebro Vascular Diseases	4240	20.34	2386	20.27	6626	20.32	5.74
3	Diseases of Pulmonary Circulation and other forms of Heart Diseases	3789	18.18	2130	18.10	5919	18.15	5.13
4	Hypertensive Diseases	2710	13.00	1747	14.84	4457	13.66	3.86
5	Others	791	3.79	760	6.46	1551	4.75	1.34
	<b>Total Medically Certified Deaths due to Diseases of Circulatory System</b>	<b>20847</b>	<b>100.00</b>	<b>11769</b>	<b>100.00</b>	<b>32616</b>	<b>100.00</b>	<b>28.26</b>
	Deaths due to Diseases of Circulatory System as percentage to total medically certified deaths.		28.53		27.79		28.26	

**Chart – 5**

**PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS DUE TO DISEASES OF CIRCULATORY SYSTEM- 2009**



**3.6.1** The Sub-group ‘**Ischemic Heart Diseases (IHD)**’ characterized by reduced blood supply to the heart muscle, usually due to coronary artery disease (arthrosclerosis of the Coronary arteries) accounts for the highest no.of deaths (43.12 per cent) under the major group ‘**Diseases of Circulatory System**’. Furthermore, around every 12<sup>th</sup> medically certified deaths has been reported to be caused by IHD alone. The sub group ‘**Cerebrovascular Diseases**’ is reported to be the second highest cause of deaths constituting 20.32 per cent of the Circulatory system deaths followed by ‘**Diseases of Pulmonary Circulation and other forms of heart Diseases (18.15 per cent)**’ and ‘**Hypertensive Diseases (13.66 per cent)**’. The percentages of female deaths to male deaths are almost equal in these cause groups, except in the case of “**Hypertensive Diseases (14.84 per cent)**”, it is slightly on a higher side as compared to corresponding percentage of male deaths i.e. 13 per cent.

**3.6.2** The age distribution of medically certified deaths due to ‘**Diseases of Circulatory System**’ has been given in **Statement-7** and highlighted in **Chart-6**. The age distribution under this cause group is in consonance with the general epidemiology of circulatory system which increase with age.

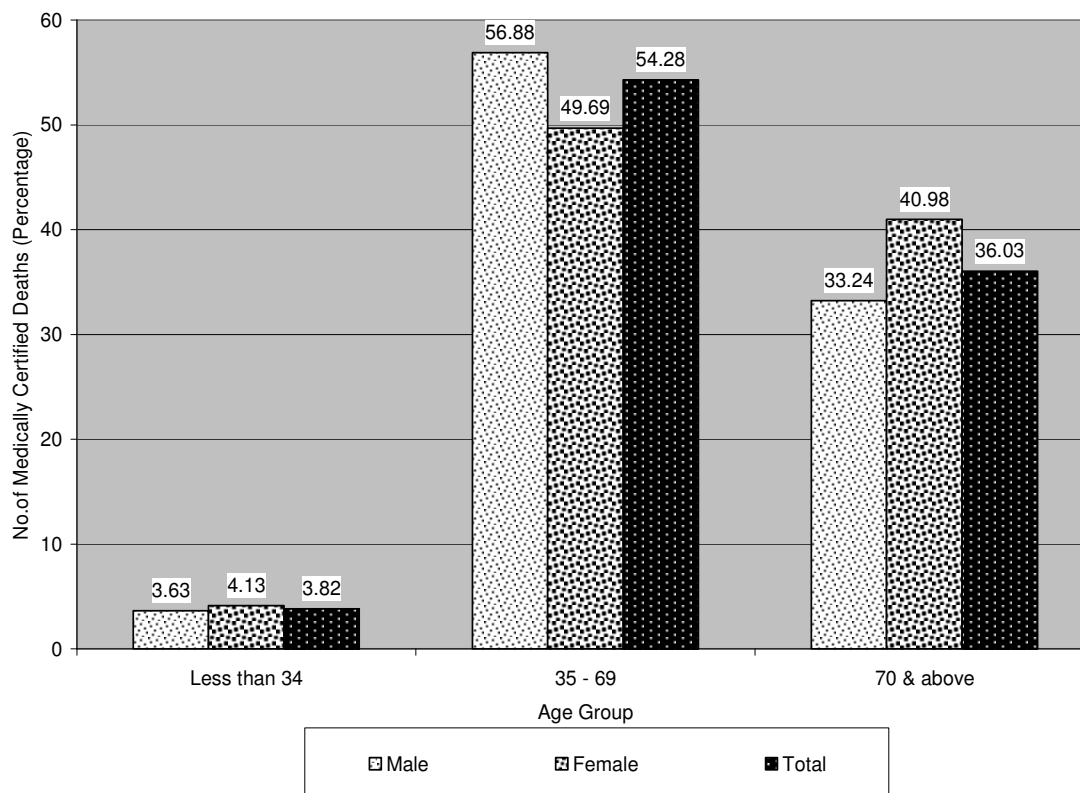
#### Statement - 7

#### Age Distribution of Deaths Due to Diseases of Circulatory System Under MCCD-2009

Sl.No	Age Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 year	8	0.04	3	0.03	11	0.03
2	1-4	7	0.03	11	0.09	18	0.06
3	5-14	22	0.11	26	0.22	48	0.15
4	15-24	74	0.35	81	0.69	155	0.48
5	25-34	647	3.1	365	3.1	1012	3.1
6	35-44	1609	7.72	705	5.99	2314	7.09
7	45-54	3129	15.01	1353	11.5	4482	13.74
8	55-64	4543	21.79	2204	18.73	6747	20.69
9	65-69	2577	12.36	1585	13.47	4162	12.76
10	70 & above	6930	33.24	4823	40.98	11753	36.03
11	Age Not Stated	1301	6.24	613	5.21	1914	5.87
	<b>Total</b>	<b>20847</b>	<b>100.00</b>	<b>11769</b>	<b>100.00</b>	<b>32616</b>	<b>100.00</b>

**Chart - 6**

**AGE DISTRIBUTION OF DEATHS DUE TO ‘DISEASES OF CIRCULATORY SYSTEM’  
UNDER MCCD - 2009**



**3.7. Certain Infectious and Parasitic Diseases (I):**

It is the second leading cause group of disease accounting for 11.23 per cent of total medically certified deaths, which constitute 11.38 per cent of male and 10.97 per cent of female medically certified deaths of their respective totals. The distribution of major components under this cause group is shown in the **Statement-8** and is depicted in **Chart-7**.

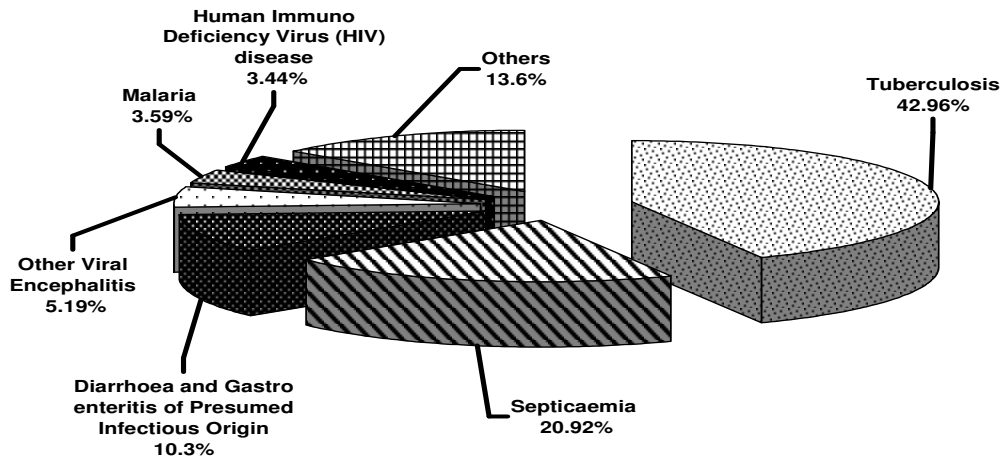
**Statement – 8**

**Distribution of Major Causes of Deaths among Certain Infectious and Parasitic Diseases under MCCD - 2009**

Sl. No.	Major Cause Group	Male		Female		Total		% to total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Tuberculosis	4000	48.09	1569	33.77	5569	42.96	4.82
2	Septicaemia	1511	18.17	1201	25.85	2712	20.92	2.35
3	Diarrhoea and Gastro enteritis of Presumed Infectious Origin	760	9.14	575	12.38	1335	10.30	1.16
4	Other Viral Encephalitis	367	4.41	306	6.59	673	5.19	0.58
5	Malaria	288	3.46	177	3.81	465	3.59	0.40
6	Human Immuno Deficiency Virus (HIV) disease	307	3.69	139	2.99	446	3.44	0.40
7	Others	1084	13.04	679	14.61	1763	13.60	1.53
	<b>Total Medically Certified Deaths due to Infectious &amp; Parasitic Disease</b>	<b>8317</b>	<b>100.00</b>	<b>4646</b>	<b>100.00</b>	<b>12963</b>	<b>100.00</b>	<b>11.23</b>
	Death due to Infectious & Parasitic Diseases as Percentage to total Medically Certified Deaths	-	11.38	-	10.97	-	11.23	-

**Chart – 7**

**PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS DUE TO CERTAIN INFECTIOUS & PARASITIC DISEASES - 2009**



**3.7.1** Among the *Certain Infectious and Parasitic Diseases*, ‘*Tuberculosis*’ is the highest reported medically certified cause of mortality, constituting around 43 per cent followed by ‘*Septicemia*’ (20.92 per cent). Under this group, percentage of tuberculosis deaths in females is 33.77 per cent as against 48.09 per cent of males out of their respective totals. The share of ‘*Diarrhoea & Gastroenteritis of presumed Infectious Origin*’, ‘*Other Viral Encephalitis*’, ‘*Malaria*’ and ‘*HIV diseases*’ in the total deaths under this group are 10.30, 5.19, 3.59 and 3.44 per cent respectively.

**3.7.2** The age distribution of medically certified deaths due to ‘*Certain Infectious and Parasitic Diseases*’ has been given in below **Statement-9** and is presented in **Chart-8**.

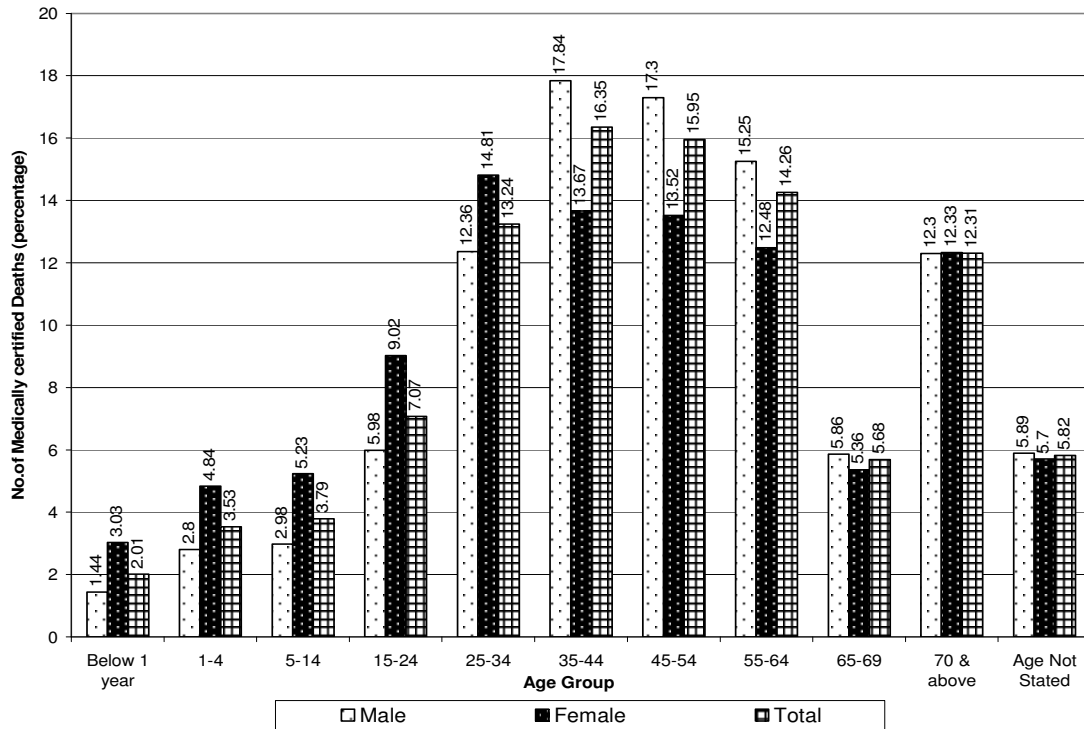
**Statement -9**

**Age Distribution of Deaths Due to Certain Infectious and Parasitic Diseases Under MCCD-2009**

Sl. No	Age Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 year	120	1.44	141	3.03	261	2.01
2	1-4	233	2.8	225	4.84	458	3.53
3	5-14	248	2.98	243	5.23	491	3.79
4	15-24	497	5.98	419	9.02	916	7.07
5	25-34	1028	12.36	688	14.81	1716	13.24
6	35-44	1484	17.84	635	13.67	2119	16.35
7	45-54	1439	17.3	628	13.52	2067	15.95
8	55-64	1268	15.25	580	12.48	1848	14.26
9	65-69	487	5.86	249	5.36	736	5.68
10	70 & above	1023	12.3	573	12.33	1596	12.31
11	Age Not Stated	490	5.89	265	5.7	755	5.82
	<b>Total</b>	<b>8317</b>	<b>100.00</b>	<b>4646</b>	<b>100.00</b>	<b>12963</b>	<b>100.00</b>

**Chart - 8**

**AGE DISRIBUTION OF DEATHS DUE TO “CERTAIN INFECTIOUS & PARASITIC DISEASES” UNDER MCCD – 2009**



As shown in the **Statement-9**, the highest incidence of deaths (16.35 per cent) is reported for the age group 35-44 years, closely followed by age groups 45-54 years (15.95 per cent) and 55-64 years (14.26 per cent). The age-group 25-64 years has contributed to around 60 per cent of total deaths under the cause group ‘*Certain Infectious an Parasitic Diseases*’

**3.8 Injury Poisoning and Certain other Consequences of External Causes (XIX):**

It is the third leading cause group responsible for 9.75 per cent of total medically certified deaths. This has caused 10.01 per cent of male and 9.31 per cent of female deaths. Under this cause group ‘*Poisonings by drugs and biological substances and toxic effects of substances chiefly non-medicinal as to source*’ alone have contributed to 33.80 per cent of the total deaths, this is followed by ‘*Burns and Corrosions*’ (24.99 per cent). Death due to Burns and corrosions among females is 48.21 per cent as compared to 12.47 per cent among males, under this major group. The male and female difference was wide in ‘*Other Injuries of specified and unspecified and multiple body regions*’ with 2246 male and 449 female deaths. The distribution of chief constituents of the major cause group is given in the **Statement-10** and is depicted in **Chart-9**.

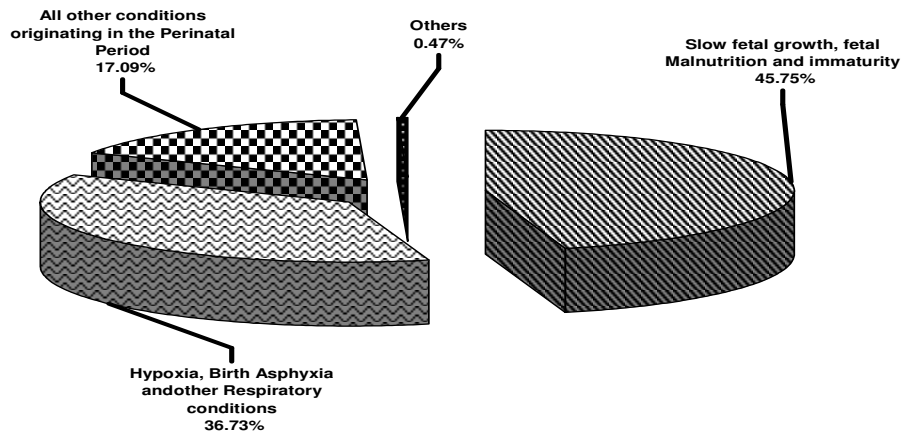
**Statement - 10**

**Distribution of Deaths due to Injury, Poisoning and Certain other consequences of External causes under MCCD - 2009.**

Sl. No.	Cause of Death	Male		Female		Total		% to total medically certified deaths
		No.	%	No.	%	No.	%	
1	Poisonings by drugs and Biological Substances and Toxic effects of substances chiefly non-medicinal as to source	2616	35.76	1189	30.17	3805	33.8	3.3
2	Burns and Corrosions	912	12.47	1900	48.21	2812	24.99	2.44
3	Other Injuries of specified, unspecified and multiple body regions	2246	30.70	449	11.39	2695	23.94	2.33
4	Others	1541	21.07	403	10.23	1944	17.27	1.68
	<b>Total Medically Certified Deaths due to Injury, Poisoning &amp; other consequences of External causes,</b>	<b>7315</b>	<b>100.00</b>	<b>3941</b>	<b>100.00</b>	<b>11256</b>	<b>100</b>	<b>9.75</b>
	Deaths due to Injury, Poisoning and other consequences of external causes as percentage to total medically certified deaths.		10.01		9.31		9.75	

**Chart - 9**

**PERCENTAGE DISTRIBUTION OF DEATHS DUE TO INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES UNDER MCCD - 2009**





**3.8.1** As revealed from the **Statement-11**, the highest share of deaths (24.75 per cent) is reported for the age group 25-34 years. This is closely followed by age groups 15-24 years (20.27 per cent) and 35-44 years (17.04 per cent). These three age-groups together accounts for about 62 per cent of deaths, implying that the working age groups is much more prone to deaths due to this major group. Age-groupwise distribution of deaths due to *'Injury, Poisoning and certain other consequences of External Cause'* is presented in **Chart-10**

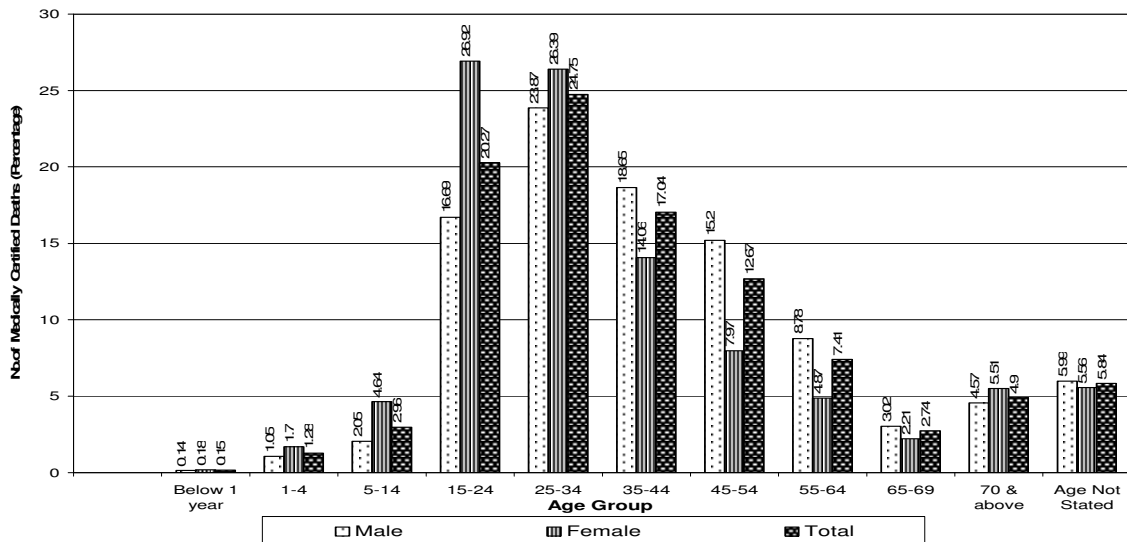
**Statement – 11**

**Age Distribution of Deaths Due to Injury, Poisoning and Certain other consequences of External causes Under MCCD-2009**

Sl. No	Age Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 year	10	0.14	7	0.18	17	0.15
2	1-4	77	1.05	67	1.7	144	1.28
3	5-14	150	2.05	183	4.64	333	2.96
4	15-24	1221	16.69	1061	26.92	2282	20.27
5	25-34	1746	23.87	1040	26.39	2786	24.75
6	35-44	1364	18.65	554	14.06	1918	17.04
7	45-54	1112	15.2	314	7.97	1426	12.67
8	55-64	642	8.78	192	4.87	834	7.41
9	65-69	221	3.02	87	2.21	308	2.74
10	70 & above	334	4.57	217	5.51	551	4.9
11	Age Not Stated	438	5.99	219	5.56	657	5.84
	<b>Total</b>	<b>7315</b>	<b>100.00</b>	<b>3941</b>	<b>100.00</b>	<b>11256</b>	<b>100.00</b>

**Chart – 10**

**AGE DISTRIBUTION OF DEATHS DUE TO INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES UNDER MCCD-2009**



**3.8.2** Further analysis of deaths due to *‘Injury, Poisonings and certain other consequences of External causes’*, reveals that the absolute number of reported deaths caused by *‘Burns and Corrosion’* in case of females is more than double to that of males. As detailed in the **Statement-12**, the highest number of deaths due to *‘Burns and Corrosion’* is concentrated in the age group 15-44 years, constituting around 74.79 per cent of deaths under this sub-group. The shares of this age group in the deaths due to *‘Poisonings by drugs & biological substances and Toxic effects of substances chiefly non-medicinal as to source’* and *‘Other Injuries of specified, unspecified and multiple Body Regions’* are around 66 per cent and 51 per cent respectively.

**Statement – 12**

**Age Distribution of Deaths due to Poisoning, Burns & Corrosion and Other Injuries under MCCD - 2009**

Age group (In years)	Age distribution of deaths due to		
	Poisonings by drugs & biological and Toxic effects of substances chiefly non-medicinal as to source	Burns and Corrosions	Other Injuries of specified, unspecified and multiple body regions
<1	0	0.21	0.22
1-4	1.13	1.42	0.74
5-14	2.79	2.81	3.12
15-24	24.26	23.58	14.03
25-34	25.28	33.29	19.78
35-44	16.61	17.92	17.51
45-54	12.27	7.01	16.33
55-64	7.02	3.24	10.58
65-69	1.73	1.1	4.68
70 & above	2.73	2.81	7.82
Age not stated	6.18	6.61	5.19
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

**3.9 Certain Conditions Originating in the Perinatal Period (XVI):**

The group of diseases relating to *‘Certain conditions originating in the Perinatal Period’* is the fourth leading cause of death, accounting 8.95 per cent of the total medically certified deaths. This has contributed to 8.49 per cent of male and 9.75 per cent of female medically certified deaths. The distribution of major causes of deaths under this group is shown in the **Statement-13** and is portrayed in the **Chart-11**.

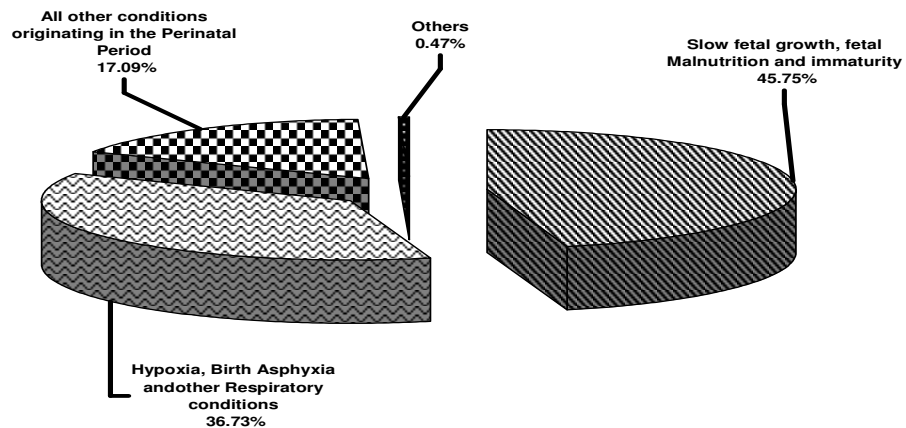
### Statement – 13

#### Distribution of Major Causes of Deaths due to certain conditions originating in the Perinatal Period under MCCD - 2009

Sl. No.	Cause of Death	Male		Female		Total		% to Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Slow fetal growth, fetal Malnutrition and immaturity	2865	46.18	1861	45.09	4726	45.75	4.09
2	Hypoxia, Birth Asphyxia and other Respiratory conditions	2259	36.41	1536	37.22	3795	36.73	3.29
3	All other conditions originating in the Perinatal Period	1050	16.93	715	17.33	1765	17.09	1.53
4	Others	30	0.48	15	0.36	45	0.47	0.39
	<b>Total Medically certified deaths due to Certain Conditions Originating in Perinatal Period</b>	<b>6204</b>	<b>100.00</b>	<b>4127</b>	<b>100.00</b>	<b>10331</b>	<b>100.00</b>	<b>8.95</b>
	Deaths due to Certain Conditions originating in Perinatal Period as percentage to total medically certified deaths.		8.49		9.75		8.95	

### Chart - 11

#### PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS DUE TO CERTAIN CONDITIONS ORIGINATING IN PERINATAL PERIOD – 2009



### 3.10 Diseases of the Respiratory System (X):

The major group of diseases of respiratory system is the fifth leading cause, responsible for 7.47 per cent of the total medically certified deaths. This has contributed to 7.72 per cent of male and 7.04 per cent of female deaths. The distribution of chief constituents of the major cause group is given **Statement-14** and is presented in **Chart-12**.

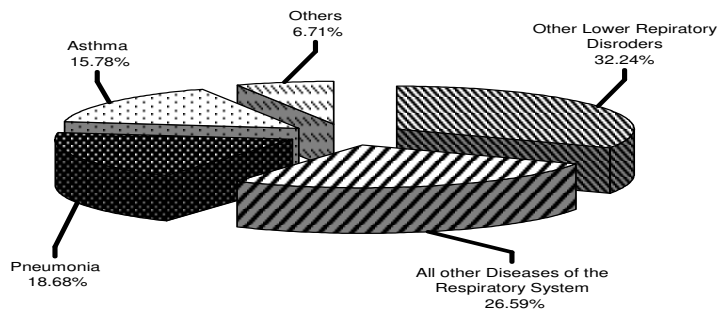
**Statement - 14**

#### **Distribution of Deaths due to Diseases of Respiratory System under MCCD-2009**

Sl. No.	Cause of Death	Male		Female		Total		% to Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Other Lower Respiratory Disorders	2082	36.92	697	23.39	2779	32.24	2.41
2	All other Diseases of the Respiratory System	1433	25.41	859	28.83	2292	26.59	1.99
3	Pneumonia	979	17.36	631	21.17	1610	18.68	1.39
4	Asthma	755	13.39	605	20.3	1360	15.78	1.18
5	Others	390	6.92	188	6.31	578	6.71	0.5
	<b>Total Medically certified deaths due to Diseases of Respiratory System</b>	<b>5639</b>	<b>100.00</b>	<b>2980</b>	<b>100.00</b>	<b>8619</b>	<b>100.00</b>	<b>7.47</b>
	Deaths due to Disease of Respiratory System as percentage to total medically certified deaths.		7.72	-	7.04	-	7.47	

**Chart - 12**

#### **PERCENTAGE DISTRIBUTION OF DEATHS DUE TO DISEASES OF RESPIRATORY SYSTEM UNDER MCCD-2009**



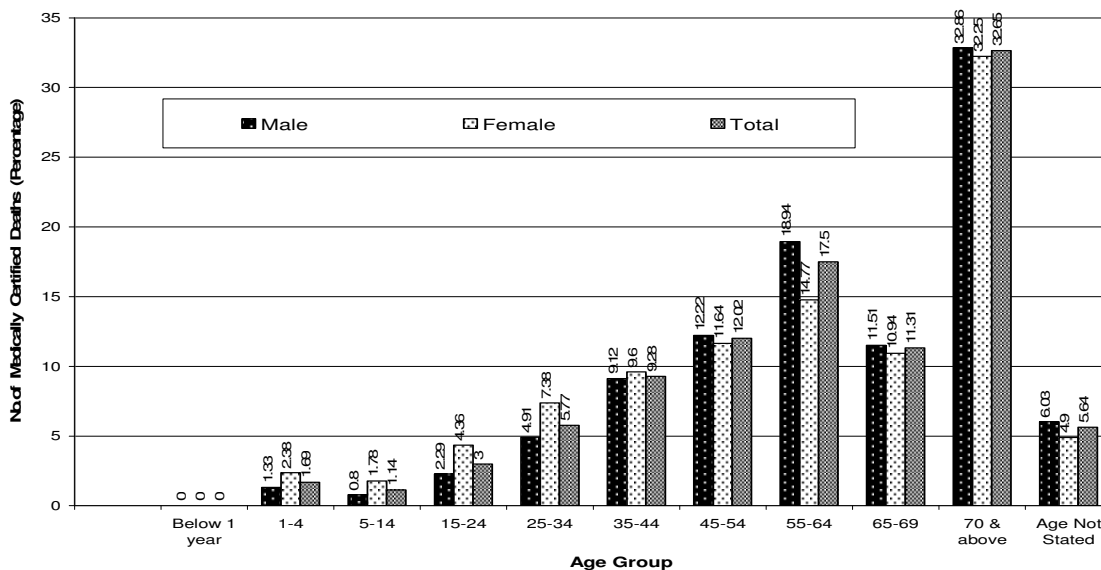
**3.10.1** *'Other lower Respiratory disorders'*, is the leading cause of death, has caused 32 out of every hundred reported deaths under the major cause group. It is followed by *'All other Diseases of the Respiratory System'* has caused 26 out of every hundred reported deaths. Further more *'Pneumonia'* an inflammatory illness of the lung and also one of the leading cause of death in this major group constitutes about 19 per cent of the deaths. The percentage share of Pneumonia to the total medically certified deaths is 1.39 percent with the corresponding share of Asthma being 1.18 per cent. The age composition of deaths due to 'Diseases of Respiratory System' is presented in **Statement-15** and is highlighted in **Chart-13**.

**Statement - 15**

**Age Distribution of Deaths Due to Diseases of Respiratory System Under MCCD-2009**

Sl. No	Age Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 year	0	0	0	0	0	0
2	1-4	75	1.33	71	2.38	146	1.69
3	5-14	45	0.8	53	1.78	98	1.14
4	15-24	129	2.29	130	4.36	259	3.00
5	25-34	277	4.91	220	7.38	497	5.77
6	35-44	514	9.12	286	9.6	800	9.28
7	45-54	689	12.22	347	11.64	1036	12.02
8	55-64	1068	18.94	440	14.77	1508	17.50
9	65-69	649	11.51	326	10.94	975	11.31
10	70 & above	1853	32.86	961	32.25	2814	32.65
11	Age Not Stated	340	6.03	146	4.9	486	5.64
	<b>Total</b>	<b>5639</b>	<b>100.00</b>	<b>2980</b>	<b>100.00</b>	<b>8619</b>	<b>100.00</b>

**Chart – 13**  
**AGE DISTRIBUTION OF DEATHS DUE TO DISEASES OF RESPIRATORY SYSTEM UNDER MCCD-2009**



**3.10.2** The age group '70 and above years' has reported maximum incidence of deaths (32.65 per cent) under the major cause group followed by the age group '55-64 years' with 17.50 per cent of deaths due to diseases of Respiratory system. The children of age group 0-4 have contributed to only 1.69 per cent of total deaths, under this major cause group. The major chunk of deaths under this cause group is concentrated in the age group '45 years and above', constituting around 73 per cent of deaths. The percentages of female deaths aged 34 years and below to total female deaths under this cause group are on a higher side as compared to corresponding figures for males (i.e. 15.9 per cent for females compared to 9.33 per cent of males).

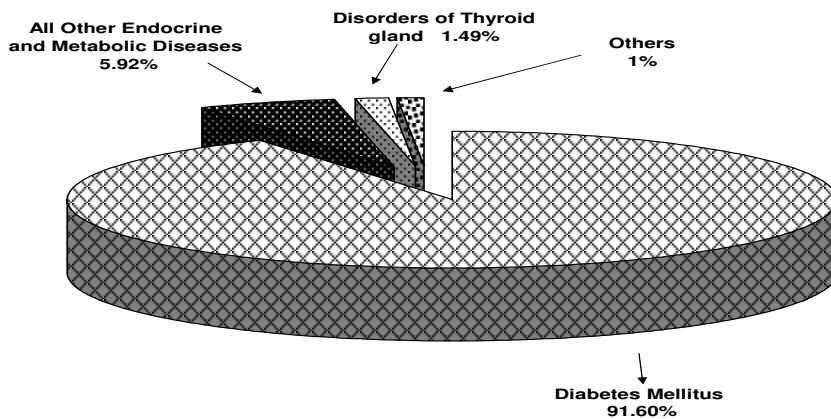
**3.11 Endocrine, Nutritional and Metabolic Diseases (IV) :** This is the sixth leading cause group has contributed to 6.87 per cent of the total medically certified deaths. Under this cause group, '*Diabetes Mellitus*' that causes serious health complications such as renal failures, heart disease, stroke and blindness, is a disease in which Pancreas no longer produces enough insulin or when cells stop responding to the insulin that is produced, so that glucose in the blood cannot be absorbed into the cells of the body, is the leading cause of death. It alone accounts for 91.60 per cent of total deaths reported under the cause group. The share of diabetes mellitus in total medically certified deaths 6.87 percent. The distribution of major causes of deaths under this group is given in **Statement-16** and is depicted in the **Chart-14**.

**Statement – 16**  
**Distribution of Deaths due to Endocrine, Nutritional and Metabolic Diseases**  
**under MCCD - 2009**

Sl. No.	Cause of Death	Male		Female		Total		% to Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Diabetes Mellitus	4491	92.54	2786	90.13	7277	91.60	6.30
2	All other Endocrine and Metabolic Diseases	291	5.00	180	5.82	471	5.92	0.41
3	Disorders of Thyroid gland	39	0.80	80	2.59	119	1.49	0.10
4	Others	32	0.66	45	1.46	77	1.00	0.06
	<b>Total Medically certified deaths due to Endocrine, Nutritional &amp; Metabolic Diseases</b>	<b>4853</b>	<b>100.00</b>	<b>3091</b>	<b>100.00</b>	<b>7944</b>	<b>100.00</b>	<b>6.87</b>
	Deaths due to Endocrine Nutritional & Metabolic Diseases as percentage to total medically certified deaths.		6.64	-	7.3	-	6.87	-

**Chart – 14**

**PERCENTAGE DISTRIBUTION OF DEATHS DUE TO ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES UNDER MCCD - 2009**



**3.11.1** The incidence of '*Diabetes Mellitus*' death is reported to be the highest for the age group 70 and above (33.52 per cent). The **Statement-17** reveals that the deaths due to this disease are concentrated in the age 45 years and above, contributing around 86 per cent of the total Diabetes Mellitus deaths under MCCD.

**Statement – 17**

**Age Distribution of Deaths Due to Diabetes Mellitus Under MCCD – 2009**

Sl.No	Age Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 year	0	0	0	0	0	0
2	1-4	0	0	0	0	0	0
3	5-14	0	0	0	0	0	0
4	15-24	45	1	48	1.72	93	1.28
5	25-34	121	2.69	48	1.72	169	2.32
6	35-44	245	5.46	136	4.88	381	5.24
7	45-54	680	15.14	283	10.16	963	13.23
8	55-64	1135	25.27	679	24.37	1814	24.93
9	65-69	619	13.78	434	15.58	1053	14.47
10	70 & above	1412	31.44	1027	36.86	2439	33.52
11	Age Not Stated	234	5.21	131	4.7	365	5.02
	<b>Total</b>	<b>4491</b>	<b>100.00</b>	<b>2786</b>	<b>100.00</b>	<b>7277</b>	<b>100.00</b>

**3.12. Neoplasms (II) :** The seventh leading cause, *Neoplasm*, which is commonly known as Cancer, is responsible for 6.77 per cent of the total medically certified deaths. The share of deaths due to *Neoplasms* in total female deaths is 7.60 per cent as compared to the corresponding figure of 6.29 per cent in case of males. Among total female medically certified deaths, it is the fifth leading cause of death. The distribution of major causes of deaths under the group is given in the **Statement-18** and depicted in **Chart-15**.



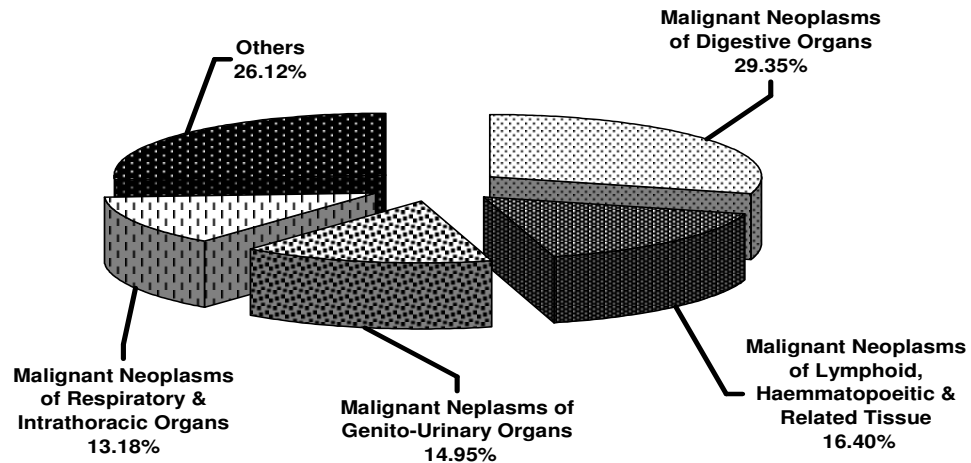
### Statement- 18

#### Distribution of Major Causes of Deaths Due to Neoplasms under MCCD - 2009

Sl. No.	Cause of Death	Male		Female		Total		% to Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Malignant Neoplasms of Digestive Organs	1563	34.02	730	22.68	2293	29.35	1.99
2	Malignant Neoplasms of Lymphoid, Haematopoietic & Related Tissue	833	18.13	448	13.92	1281	16.40	0.11
3	Malignant Neoplasms of Genito-Urinary Organs	400	8.71	768	23.86	1168	14.95	1.01
4	Malignant Neoplasms of Respiratory & Intrathoracic Organs	805	17.52	225	6.99	1030	13.18	0.89
5	Others	993	21.62	1048	32.56	2041	26.12	1.77
	<b>Total Medically Certified deaths due to Neoplasms</b>	<b>4594</b>		<b>3219</b>		<b>7813</b>	<b>6.77</b>	<b>6.77</b>
	Deaths due to Neoplasms as Percentage to total medically certified deaths.		6.29	-	7.60	-	6.77	-

### CHART - 15

#### PERCENTAGE DISTRIBUTION OF MAJOR CAUSES OF DEATHS DUE TO NEOPLASMS UNDER MCCD - 2009



**3.12.1** Among the neoplasm deaths, '*Malignant Neoplasm of Digestive Organs*' accounts for the highest mortality of 29.35 per cent, followed by '*Malignant of Lymphoid, haematopoetic & other related tissue*' (16.40 per cent) and '*Malignant Neoplasms of Genitor-Urinary Organs*' (14.95 per cent). The share of deaths due to Malignant Neoplasms of Digestive Organs in males, to total male Neoplasm deaths is 34.02 per cent as against 22.68 per cent of corresponding female deaths. The percentage of female deaths due to '*Malignant Neoplasm of genito urinary organs*' to total female neoplasm deaths is 23.86 per cent as compared to 8.71 per cent of corresponding male deaths. Among deaths caused by '*Malignant Neoplasm of Respiratory and Intra Thoracic Organs*' about 66 per cent is due to Lung Cancer in male. Lung Cancer alone accounts for around 15 per cent of total male Neoplasm deaths.

**Statement- 19**

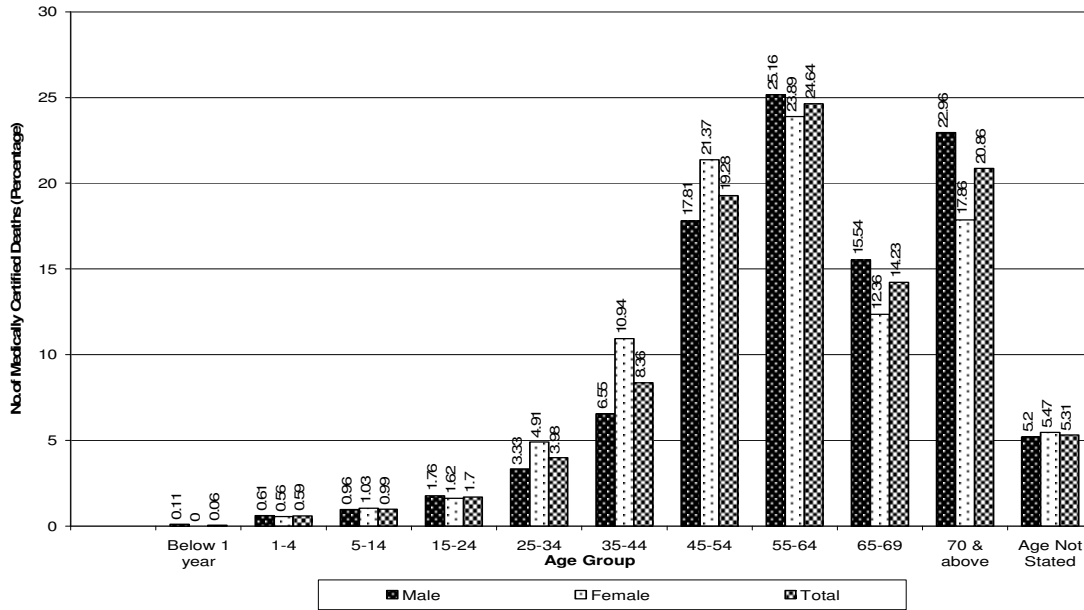
**Age Distribution of Deaths Due to Neoplasm Under MCCD-2009**

Sl.No	Age Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 year	5	0.11	0	0	5	0.06
2	1-4	28	0.61	18	0.56	46	0.59
3	5-14	44	0.96	33	1.03	77	0.99
4	15-24	81	1.76	52	1.62	133	1.7
5	25-34	153	3.33	158	4.91	311	3.98
6	35-44	301	6.55	352	10.94	653	8.36
7	45-54	818	17.81	688	21.37	1506	19.28
8	55-64	1156	25.16	769	23.89	1925	24.64
9	65-69	714	15.54	398	12.36	1112	14.23
10	70 & above	1055	22.96	575	17.86	1630	20.86
11	Age Not Stated	239	5.2	176	5.47	415	5.31
	<b>Total</b>	<b>4594</b>	<b>100.00</b>	<b>3219</b>	<b>100.00</b>	<b>7813</b>	<b>100.00</b>

**3.12.2** The incidence of Neoplasm death is reported to be the highest i.e. 24.64 per cent in the age group 55-64 years (25.16 per cent of males and 23.89 per cent of females) followed by the age group '70 and above years' recording 20.86 per cent of deaths (22.96 per cent of males and 17.86 per cent of females). Around 87 per cent of total Neoplasm deaths is concentrated in the age-group '35 years and above'. It is supportive of age as a major risk factor of Neoplasm deaths as indicated in epidemiological literature. The age composition of deaths due to 'Neoplasm' is presented in **Statement-20** and **Chart-16**

**CHART- 16**

**AGE DISTRIBUTION OF DEATHS DUE TO NEOPLASM UNDER MCCD-2009**



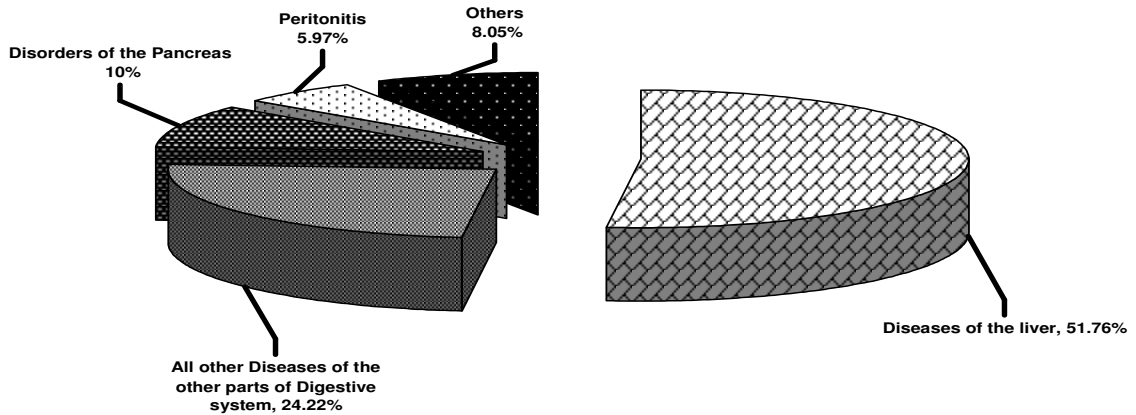
**3.13 Diseases of the Digestive System (XI):** The major group comprising ‘*Diseases of Digestive system*’ is the eighth leading cause group, responsible for 6.04 per cent of the total medically certified deaths with 7.48 per cent of male and 3.54 per cent of female deaths. The percentage of male digestive disorder deaths to total medically certified is just double to that of corresponding female figures. The distribution of major causes of deaths under this group is given in the **Statement-20** and is highlighted in **Chart-17**.

**Statement – 20**

**Distribution of Major Causes of Deaths Due to Digestive System under MCCD - 2009**

Sl. No.	Cause of Death	Male		Female		Total		% to Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Diseases of the liver	3056	55.89	551	36.71	3607	51.76	3.13
2	All other Diseases of the other parts of Digestive system	1222	22.36	466	31.05	1688	24.22	1.46
3	Disorders of the Pancreas	526	9.62	171	11.39	697	10.00	0.36
4	Peritonitis	302	5.52	114	7.59	416	5.97	0.49
5	Others	362	6.62	199	13.26	561	8.05	6.04
	<b>Total Medically Certified deaths due to Digestive System</b>	<b>5468</b>	<b>100.00</b>	<b>1501</b>	<b>100.00</b>	<b>6969</b>	<b>100.00</b>	
	Deaths due to Digestive System as Percentage to total Medically certified deaths.		7.48		3.54		6.04	

**CHART – 17**  
**PERCENTAGE DISTRIBUTION OF DEATHS DUE TO DIGESTIVE SYSTEM**  
**UNDER MCCD – 2009**



**3.13.1** Among the deaths due to disorders of digestive system, *‘Diseases of the Liver’* account for 51.76 per cent of the total medically certified deaths in this group. The share of liver diseases is about 3 per cent among the total medically certified deaths. *‘All other Diseases of the other parts of the Digestive System’* and *‘Disorders of the Pancreas’* also have responsible for 24.22 per cent and 10.00 per cent of total deaths under this major cause group.

**3.13.2** The **Statement-21** reveals that the age group ‘45-54 years’ have reported the maximum deaths (24.32 per cent) under the major group *‘Diseases of Digestive System’*. As high as 82.55 per cent of the total deaths caused by digestive system disorder are concentrated in the age-group 35 years and above. This is highlighted in **Chart-18**.

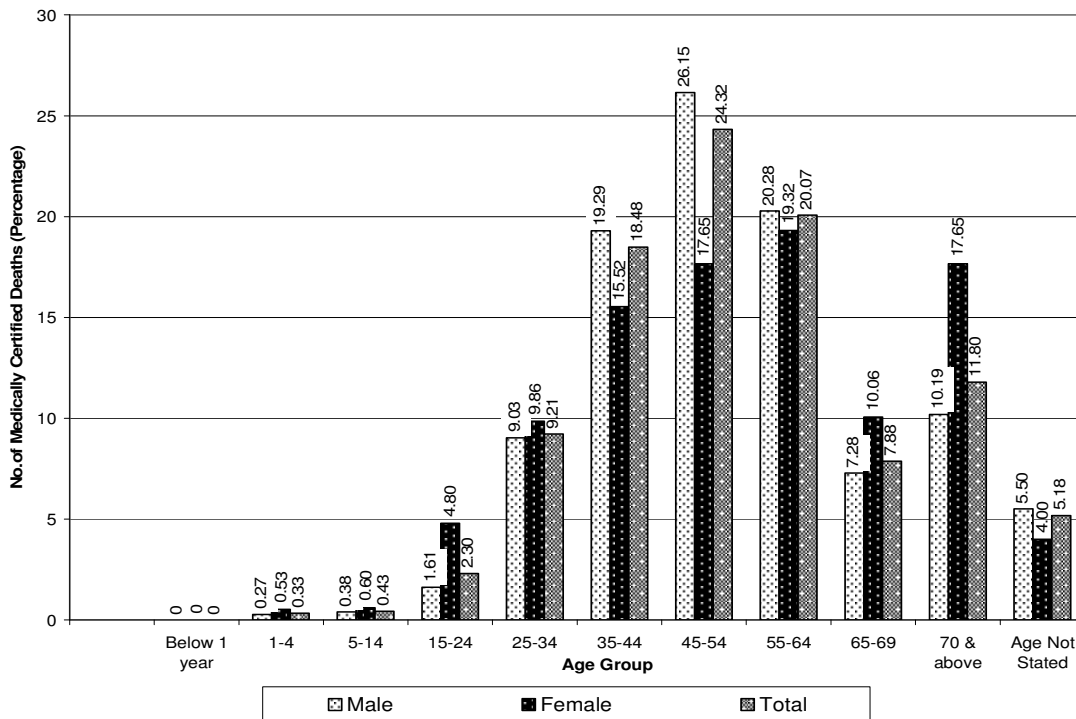
## Statement – 21

### Age Distribution of Deaths Due to Diseases of Digestive System Under MCCD-2009

Sl. No	Age Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 year	0	0.00	0	0.00	0	0.00
2	1-4	15	0.27	8	0.53	23	0.33
3	5-14	21	0.38	9	0.60	30	0.43
4	15-24	88	1.61	72	4.80	160	2.30
5	25-34	494	9.03	148	9.86	642	9.21
6	35-44	1055	19.29	233	15.52	1288	18.48
7	45-54	1430	26.15	265	17.65	1695	24.32
8	55-64	1109	20.28	290	19.32	1399	20.07
9	65-69	398	7.28	151	10.06	549	7.88
10	70 & above	557	10.19	265	17.65	822	11.80
11	Age Not Stated	301	5.50	60	4.00	361	5.18
	<b>Total</b>	<b>5468</b>	<b>100.00</b>	<b>1501</b>	<b>100.00</b>	<b>6969</b>	<b>100.00</b>

## CHART - 18

### AGE DISTRIBUTION OF DEATHS DUE TO DISEASES OF DIGESTIVE SYSTEM UNDER MCCD-2009



## Other causes of Death

### 3.14. Symptoms, Signs and Abnormal Clinical & Laboratory Findings, not elsewhere classified (N.E.C) (XVIII).

This leading major cause group responsible for 3.74 per cent of the total medically certified deaths of which 3.56 per cent of males and 4.06 per cent of female death. Thus around every fourth reported death is having no specific cause. The high prevalence of causes of death being reported under this cause from the hospitals reporting Medical Certification of Cause of Death data, clearly suggests about the deficiency in clarification especially improper classification of causes of deaths by the attending doctors. As depicted in the **Statement-22**. “*All other Symptoms, Signs and Abnormal Clinical & Laboratory findings not elsewhere classified*” accounted for 3.19 per cent of the total deaths in this group.

#### Statement – 22

#### Distribution of Deaths due to Symptoms Signs and Abnormal Clinical & Laboratory Findings not elsewhere classified under MCCD - 2009

Sl. No.	Cause of Death	Male		Female		Total		% to Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	All other Symptoms, Signs and Abnormal Clinical & Laboratory findings not elsewhere classified	2241	86.16	1436	83.49	3677	85.1	3.19
2	Senility	265	10.19	225	13.08	490	11.34	0.42
3	Others	95	3.65	59	3.43	154	3.56	0.13
	<b>Total Medically Certified Deaths due to Symptoms, Signs and Abnormal Clinical and Laboratory Findings not elsewhere classified</b>	<b>2601</b>	<b>100.00</b>	<b>1720</b>	<b>100.00</b>	<b>4321</b>	<b>100.00</b>	<b>3.74</b>
	Deaths due to symptoms, Signs and Abnormal Clinical & Laboratory Findings, not elsewhere classified as percentage to total Medically certified Deaths.		3.56		4.06		3.74	

**3.14.1** As shown in the **Statement-23**, the highest incidence of deaths (39.60 per cent) is reported for the age group 70 years and above. The age group “45 years and above” contributed nearly 69 per cent of total mortality reported under this cause group.

### Statement – 23

#### Age Distribution of Deaths Due to Symptoms, Signs and Abnormal Clinical & Laboratory Findings not Elsewhere Classified Under MCCD-2009

Sl.No	Age Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 year	0	0	0	0	0	0
2	1-4	9	0.35	9	0.52	18	0.42
3	5-14	45	1.73	23	1.34	68	1.57
4	15-24	82	3.15	103	5.99	185	4.28
5	25-34	213	8.19	105	6.1	318	7.36
6	35-44	238	9.15	103	5.99	341	7.89
7	45-54	317	12.19	125	7.27	442	10.23
8	55-64	335	12.88	165	9.59	500	11.57
9	65-69	198	7.61	123	7.15	321	7.43
10	70 & above	894	34.37	817	47.5	1711	39.6
11	Age Not Stated	270	10.38	147	8.55	417	9.65
	<b>Total</b>	<b>2601</b>	<b>100.00</b>	<b>1720</b>	<b>100.00</b>	<b>4321</b>	<b>100.00</b>

### 3.15 Diseases of the Genito-Urinary System (XIV).

Out of every hundred medically certified deaths, around three are reported from '*Diseases of Genitourinary System*'. Renal failure is the cause of maximum deaths (83.79 per cent) under the '*Genitourinary System*' disease with the overall share of 2.78 per cent in total medically certified deaths. The distribution of major causes under this group is given in **Statement-24** and is shown in **Chart-19**.

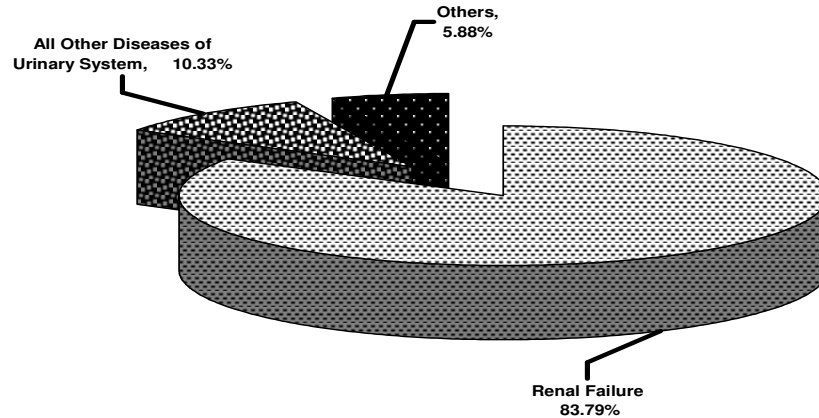
### Statement – 24

#### Distribution of Major Causes of Deaths Due to Diseases of the Genitourinary System Under MCCD - 2009

Sl. No.	Cause of Death	Male		Female		Total		% to Total Medically Certified Deaths
		Number	%	Number	%	Number	%	
1	Renal Failure	2090	85.45	1115	80.86	3205	83.79	2.78
2	All Other Diseases of Urinary System	225	9.20	170	12.33	395	10.33	0.34
3	Others	131	5.35	94	6.81	225	5.88	0.19
	<b>Total Medically Certified Deaths due to Genito-urinary System</b>	<b>2446</b>	<b>100.00</b>	<b>1379</b>	<b>100.00</b>	<b>3825</b>	<b>100.00</b>	<b>3.31</b>
	Deaths due to Diseases of Genitourinary System as percentage to total Medically certified Deaths.		3.35		3.26		3.31	

## CHART – 19

### PERCENTAGE DISTRIBUTION OF MAJOR CAUSES OF DEATHS DUE TO DISEASES OF THE GENITOURINARY SYSTEM UNDER MCCD - 2009



**3.15.1** The incidence of '*Renal failure*' death is reported to be, the highest for the age '70 and above years' (25.02 per cent). The **Statement-25** reveals that the deaths due to this disease are concentrated in the age 45 years and above, contributing around 74 per cent of total deaths reported under MCCD due to renal failure.

#### Statement – 25

##### Age Distribution of Deaths Due to Renal Failure Under MCCD-2009

Sl.No	Age Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 year	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	0	0.00	0	0.00
3	5-14	0	0.00	0	0.00	0	0.00
4	15-24	0	0.00	0	0.00	0	0.00
5	25-34	147	7.03	96	8.61	243	7.58
6	35-44	286	13.68	94	8.43	380	11.86
7	45-54	344	16.46	191	17.13	535	16.69
8	55-64	423	20.24	229	20.54	652	20.34
9	65-69	244	11.67	154	13.81	398	12.42
10	70 & above	508	24.31	294	26.37	802	25.02
11	Age Not Stated	138	6.60	57	5.11	195	6.08
	<b>Total</b>	<b>2090</b>	<b>100.00</b>	<b>1115</b>	<b>100.00</b>	<b>3205</b>	<b>100.00</b>



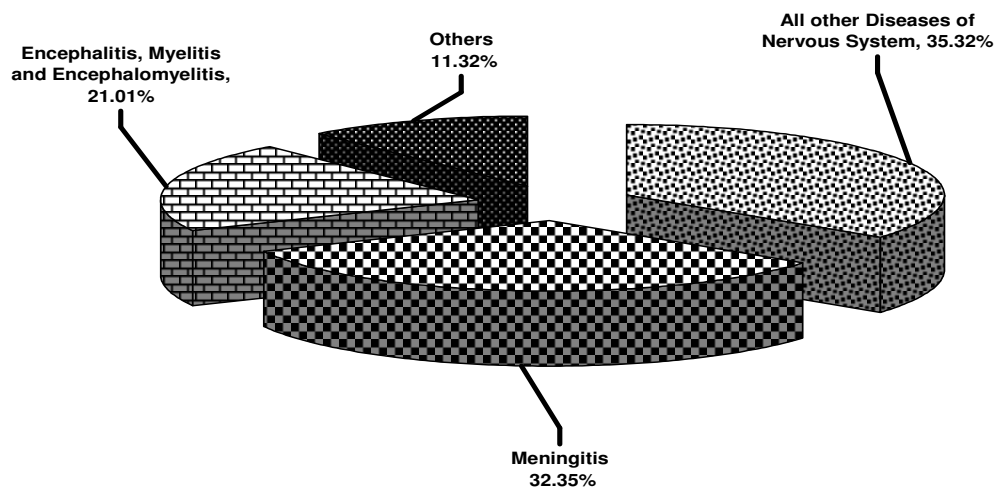
### 3.16 Diseases of the Nervous System (VI) :

The cause group of Diseases of Nervous System is responsible for 2.89 per cent of the total medically certified deaths. The distribution of major causes of deaths under this group is shown in the **Statement-26** and is highlighted in **Chart-20**.

**Statement - 26**  
**Distribution of Major Causes of Deaths due to Diseases of the Nervous System under MCCD - 2009**

Sl. No.	Cause of Death	Male		Female		Total		% to Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	All other Diseases of Nervous System	791	37.36	386	31.77	1177	35.32	1.02
2	Meningitis	684	32.31	394	32.43	1078	32.35	0.93
3	Encephalitis, Myelitis and Encephalomyelitis	419	19.79	281	23.13	700	21.01	0.61
4	Others	223	10.54	154	12.67	377	11.32	0.33
	<b>Total Medically Certified Deaths due to Nervous System</b>	<b>2117</b>	<b>100.00</b>	<b>1215</b>	<b>100.00</b>	<b>3332</b>	<b>100.00</b>	<b>2.89</b>
	Deaths due to Diseases of Nervous System as percentage to total Medically certified Deaths.		2.90		2.87		2.89	

**Chart – 20**  
**PERCENTAGE DISTRIBUTION OF MAJOR CAUSES OF DEATHS DUE TO DISEASES OF THE NERVOUS SYSTEM UNDER MCCD - 2009**



*'All other Diseases of the Nervous System'* accounts for the maximum (35.32 per cent) deaths reported under this group, followed by *'Meningitis'* (32.35 per cent) and *'Encephalitis Myelitis and Encephalomyelitis'* (21.01 per cent). The share of *'Meningitis'* in the total medically certified deaths is about one per cent.

**3.16.1** The age group '70 & above' has reported the maximum deaths (14.71 per cent) under the major group *'Diseases of the Nervous System'*, this is followed by age group 45-54 years (12.55 per cent) and 35-44 years (12.45 per cent). Viewed from the angle of age, it affects worstly the age group below 1 year (9.03 per cent). The distribution of age-wise deaths is depicted in **Statement-27** and **Chart-21**.

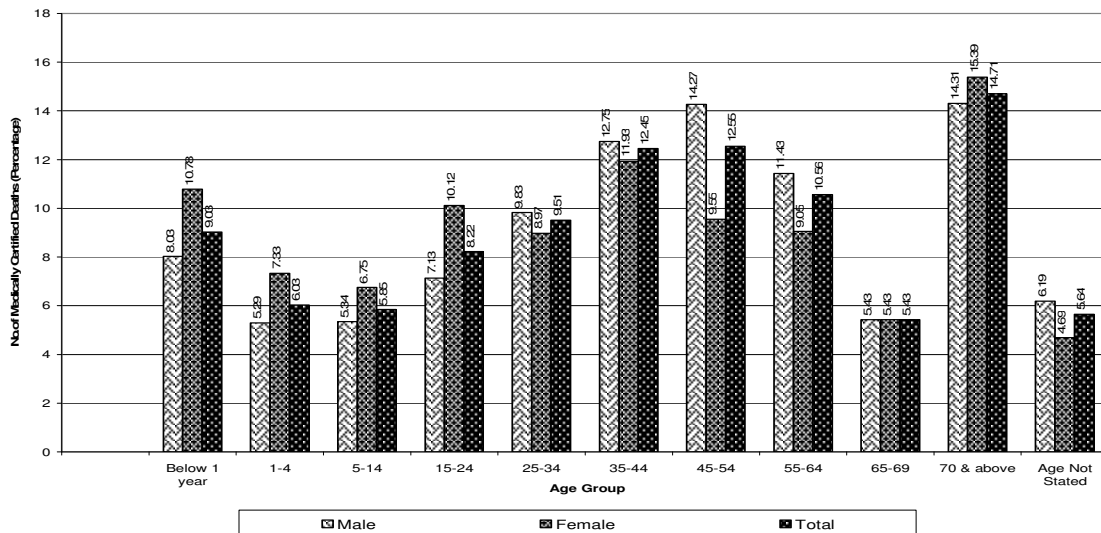
**Statement - 27**

**Age Distribution of Deaths Due to Diseases of the Nervous System Under MCCD-2009**

Sl. No	Age Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 year	170	8.03	131	10.78	301	9.03
2	1-4	112	5.29	89	7.33	201	6.03
3	5-14	113	5.34	82	6.75	195	5.85
4	15-24	151	7.13	123	10.12	274	8.22
5	25-34	208	9.83	109	8.97	317	9.51
6	35-44	270	12.75	145	11.93	415	12.45
7	45-54	302	14.27	116	9.55	418	12.55
8	55-64	242	11.43	110	9.05	352	10.56
9	65-69	115	5.43	66	5.43	181	5.43
10	70 & above	303	14.31	187	15.39	490	14.71
11	Age Not Stated	131	6.19	57	4.69	188	5.64
	<b>Total</b>	<b>2117</b>	<b>100.00</b>	<b>1215</b>	<b>100.00</b>	<b>3332</b>	<b>100.00</b>

**Chart- 21**

**AGE DISTRIBUTION OF DEATHS DUE TO DISEASES OF THE NERVOUS SYSTEM UNDER MCCD-2009**



### 3.17 Diseases of the Blood and Blood Forming Organs and Certain Disorders involving the Immune Mechanism (III):

The diseases under this cause group have contributed to 1.78 per cent of the total medically certified deaths. This cause group accounts for 1.38 per cent of total male and 2.48 per cent of total female medically certified deaths. “*Anaemias*” is the major cause constitute around 84 per cent of total deaths reported in the cause group and 1.5 per cent of the total medically certified deaths. The distribution of major causes of deaths under this group is presented in **Statement-28**.

#### Statement - 28

#### Distribution of Major causes of Deaths due to Diseases of the Blood and Blood forming organs and Immunity Disorders under MCCD-2009

Sl. No.	Cause of Death	Male		Female		Total		% to Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Other Anaemias	831	82.69	897	85.51	1728	84.13	1.5
2	All other Diseases of Blood and Blood forming organs	141	14.03	126	12.01	267	13.00	0.23
3	Others	33	3.28	26	2.48	59	2.87	0.05
	<b>Total Medically Certified Deaths due to Diseases of Blood and Blood forming organs and certain disorders involving the Immune Mechainsm.</b>	<b>1005</b>	<b>100.00</b>	<b>1049</b>	<b>100.00</b>	<b>2054</b>	<b>100.00</b>	<b>1.78</b>
	Deaths due to Diseases of Blood and Blood forming organs and certain disorders involving the Immune mechanism as percentage to total Medically certified Deaths.	-	1.38	-	2.48	-	1.78	

### 3.18 Congenital Malformations, Deformations and Chromosomal Abnormalities (XVII)

Merely 1790 deaths are reportedly caused by ‘*Congenital Malformations, deformations and Chromosomal abnormalitie*’, constituting about 1.55 per cent of the total medically certified deaths. The majority of these deaths occur for age less than one year (1269 or 70.89 per cent). Under this cause group, about 70.61 per cent deaths are caused by malformation of various Circulatory System.

## Statement - 29

### Distribution of Deaths due to 'Congenital Malformations, Deformations and Chromosomal Abnormalities Diseases' under MCCD - 2009

Sl. No.	Cause of Death	Age group (in years)			Percentage to total
		<1	1 year and above (Including Age not specified)	Total	
1	Spina Bifida	4	1	5	0.28
2	Congenital Malformations of the Circulatory System	897	367	1264	70.61
3	Cleft lip and Cleft Palate	0	0	0	0
4	All other Congenital Malformations, Deformations & Chromosomal Abnormalities	368	153	521	29.11
	<b>Total</b>	<b>1269</b>	<b>521</b>	<b>1790</b>	<b>100.00</b>
	Percentage to total	70.89	29.11	100.00	

### 3.19 Diseases of the Skin and Subcutaneous Tissue (XII)

These diseases account for 743 medically certified deaths (0.64 per cent of the total medically certified deaths). This cause group accounts for 0.66 per cent of total male and 0.61 per cent of total medically certified deaths. About 86 per cent of the deaths under the cause group are caused by '*Infectious of the Skin and Subcutaneous Tissue*'.

### 3.20 Complication of Pregnancy, Childbirth and the Puerperium (XV)

The group consisting of '*Complications of Pregnancy, Childbirth and the Puerperium*' has reportedly caused 611 deaths (1.44 per cent of the total female medically certified deaths). As high as 96.07 per cent of deaths under this cause group have been due to obstetric causes like '*Oedema, Proteinuria, hypertensive disorders, complications pre-dominantly related to the Puerperium*' and some other related complications. The remaining 3.93 per cent deaths in this cause group are due to abortive outcome of Pregnancy such as medical and Spontaneous abortions.

**Statement - 30**

**Distribution of Deaths due to "Complication of Pregnancy, Childbirth and the Puerperium "under MCCD - 2009**

Sl. No.	Cause of Death	No.	%	% to Total female Medically Certified Deaths
1	Other Direct Obstetric Deaths	523	85.60	1.23
2	Other Obstetric conditions, Not elsewhere classified	64	10.47	0.15
3	Pregnancy with Abortive Outcome	24	3.93	0.06
	<b>Total Medically Certified Deaths due to complication of Pregnancy, Child Birth &amp; Puerperium</b>	<b>611</b>	<b>100.00</b>	<b>1.44</b>

**3.21. Mental and Behavioural Disorders (V)**

The group relating to Mental and Behavioural disorders accounts for 138 deaths (0.12 per cent of total medically certified deaths). The age group 25-64 years constitutes around 79 per cent of total deaths due to '*Mental and Behavioural Disorders*'. Under this cause group, the deaths due to "*Mental and Behavioural disorders caused by the use of Psychoactive substance*" such as Alcohol, Opioids, Cannabinoids, hypnotics, Cocaine, hallucinogens, tobacco, stimulants, including caffeine etc., constitutes the highest share (68.12 per cent) of total deaths. The use psychoactive substance reportedly accounts for the highest number of deaths (44) in the age group 35-44 years, followed by 17 deaths in the age group 45 -54 years. The ratio of males to females was disproportionate in this group (100 males to 38 females). The distribution of major causes of deaths under this group is presented in **Statement-31**.

**Statement - 31**

**Distribution of Deaths due to 'Mental and Behavioural Disorders' under MCCD - 2009**

Sl. No.	Cause of Death	Age group (In years)								% to Total
		<15	15-24	25-34	35-44	45-54	55-64	Others	Total	
1	Mental and Behavioural Disorders due to Psychoactive Substance use	0	0	8	44	17	16	9	94	68.12
2	Schizophrenia, Schizotypal & Delusional Disorders	0	0	1	3	3	6	11	24	17.39
3	All other Mental Behavioural Disorders	0	6	1	1	8	1	3	20	14.49
	<b>Total</b>	<b>0</b>	<b>6</b>	<b>10</b>	<b>48</b>	<b>28</b>	<b>23</b>	<b>23</b>	<b>138</b>	<b>100.00</b>
	Percentage to total	0	4.35	7.25	34.78	20.28	16.67	16.67	100	

### 3.22 Diseases of the Musculoskeletal System and Connective Tissue (XIII)

This is contribute to only 100 deaths i.e. around 0.09 per cent of total medically certified deaths.

3.23 The least harmful major causes are Diseases of the Eye and Adnexa (VII) and Diseases of the Ear and Mastoid Process (VIII). No significant mortality is reported due to these causes. They are reporting merely 4 deaths from each group.

### Specific Cause of Mortality in Different Age Groups:

3.24 **Infants:** Out of the total medically certified deaths, around one-tenth has been reported for the Infants (children who could not complete their first birthday). The shares of male and female deaths to the corresponding totals of medically certified deaths are 9.97 per cent and 11.60 per cent respectively. The maximum incidence of death under this age group (84.72 per cent) has been reported to be caused by *‘Certain conditions originating in the perinatal period’*, which includes diseases **Slow fetal growth, fetal malnutrition and immaturity, Hypoxia, birth asphyxia and other respiratory conditions**. This is followed by *‘Congenital Malformations, Deformations & Chromosomal Abnormalities’* (10.41 per cent) of which *Congenital Malformations of the Circulatory System* in the major constituent. *‘Diseases of the Nervous System’* which contribute to about 2.46 per cent of the total infant deaths, assume third rank, having *Meningitis and Encephalitis, Myelitis and Encephalomyelitis* as the major killers. The distribution of mortality among infants by major cause groups has been given in **Statement-32** and is highlighted in **Chart -22**.

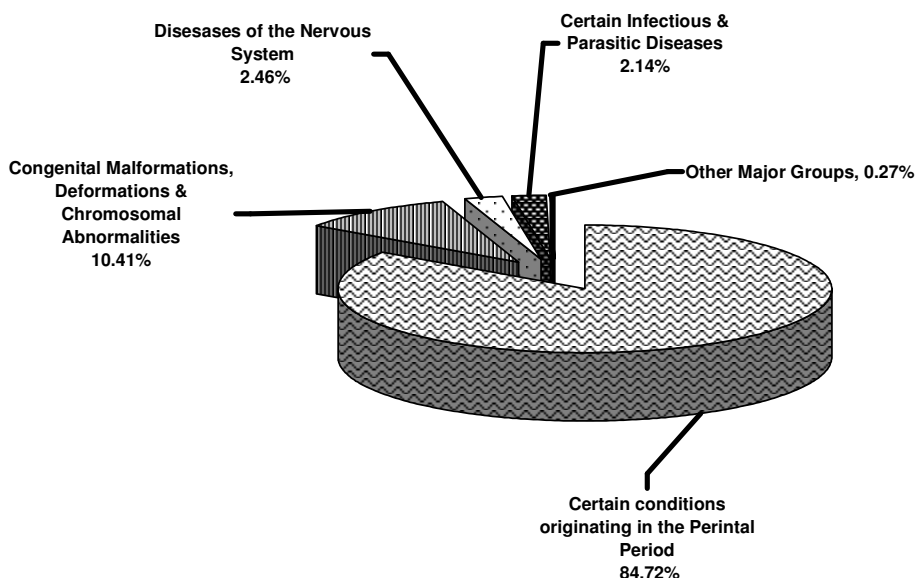
### Statement – 32

#### Distribution of Mortality among Infants by Major Cause Group

Sl. No.	Major Cause Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Certain conditions originating in the Perinatal Period (P00-P96)	6204	85.17	4127	84.04	10331	84.72
2	Congenital Malformations, Deformations & Chromosomal Abnormalities (Q00-Q99)	767	10.53	502	10.22	1269	10.41
3	Diseases of the Nervous System (G00-G98)	170	2.33	131	2.67	301	2.46
4	Certain Infectious & Parasitic Diseases (A00-B99)	120	1.65	141	2.87	261	2.14
5	Other Major Groups	23	0.32	10	0.20	33	0.27
	<b>Total Medically Certified Deaths in the age group &lt; 1 year</b>	<b>7284</b>	<b>100.00</b>	<b>4911</b>	<b>100.00</b>	<b>12195</b>	<b>100.00</b>
	Deaths in the age group <1 year as percentage to total Medically certified Deaths.		9.97		11.60		10.56

Chart – 22

PERCENTAGE DISTRIBUTION OF MORTALITY AMONG INFANTS BY MAJOR CAUSE GROUP



**3.25 Children aged 1-4 year:** Of the total medically certified deaths, 1.24 per cent has been reported from this age-group, accounting for 1.02 per cent and 1.62 per cent of total male and female medically certified deaths respectively. *‘Certain infectious and Parasitic Diseases Cause’* 32.03 per cent of deaths under which *Other Viral Encephalitis* (24.67 per cent), *Septicaemia* (18.78 per cent), *Other Arthropod Born Viral Fevers and Viral Haemorrhagic fevers* (15.28 per cent) and *Diarrhoea and Gastro enteritis of Presumed Infectious Origin* (13.54 per cent) are the major constituents. *Congenital Malformations, Deformations and Chromosomal Abnormalities* rank second, constituting 21.12 per cent of total medically certified deaths in the age group. *Congenital Malformations of the Circulatory System* is the main cause contribute around 71 per cent of the deaths in Congenital Abnormalities group. The third leading cause group of deaths, *‘Diseases of the Nervous System’* is responsible for 14.06 per cent of deaths in this age group. *Meningitis and Encephalitis, Myelitis and Encephalomyelitis* taken together, causes about 83 per cent of the total deaths under this cause group. The distribution of mortality in the age group 1-4 years by major cause group has been given in **Statement -33** and **Chart -23**.

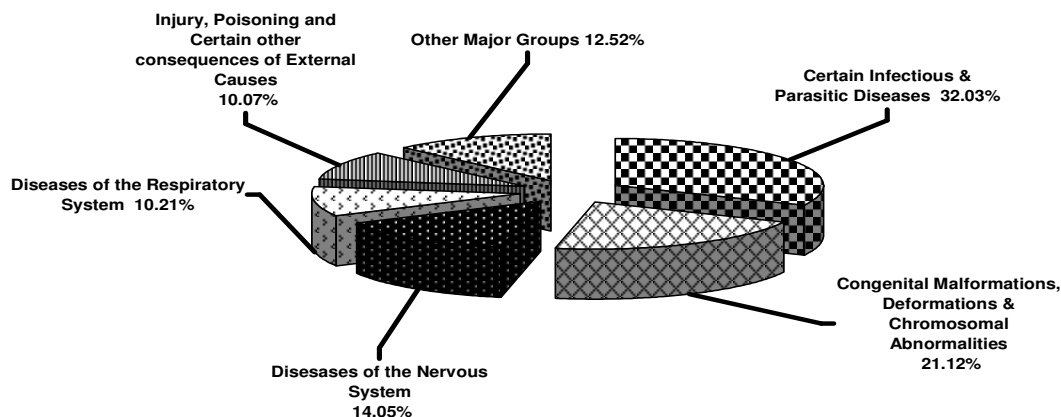
### Statement - 33

#### Distribution of Mortality among children in the Age Group 1-4 years by Major cause group.

Sl. No.	Major Cause Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Certain Infectious & Parasitic Diseases (A00-B99)	233	31.28	225	32.85	458	32.03
2	Congenital Malformations, Deformations & Chromosomal Abnormalities (Q00-Q99)	153	20.54	149	21.75	302	21.12
3	Diseases of the Nervous System (G00-G98)	112	15.03	89	12.99	201	14.05
4	Diseases of the Respiratory System (J00-J98)	75	10.07	71	10.37	146	10.21
5	Injury, Poisoning and Certain other consequences of External Causes (S00-T98)	77	10.34	67	9.78	144	10.07
6	Other Major Groups	95	12.74	84	12.26	179	12.52
	<b>Total Medically Certified Deaths in the age group 1-4 years</b>	<b>745</b>	<b>100.00</b>	<b>685</b>	<b>100.00</b>	<b>1430</b>	<b>100.00</b>
	Deaths in the age group 1-4 years as percentage to total Medically Certified Deaths.		1.02		1.62		1.24

### CHART -23

#### PERCENTAGE DISTRIBUTION OF MORTALITY AMONG CHILDREN IN THE AGE GROUP 1-4 YEARS BY MAJOR CAUSE GROUP





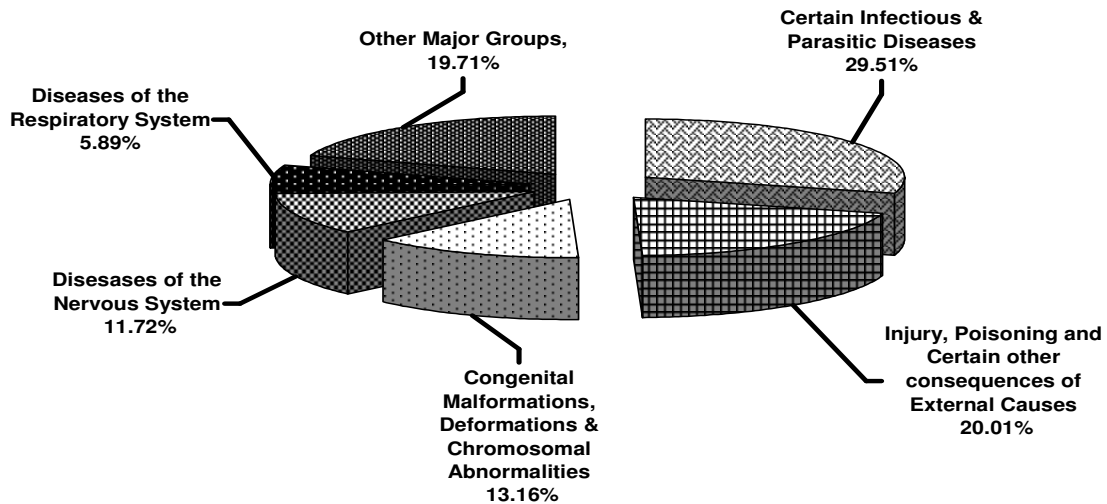
**3.26 Children aged 5-14 years:** The share of this age group in the total medically certified deaths is 1.44 per cent, constituting 1.18 per cent and 1.90 per cent of total male and female medically certified deaths respectively. Of the total reported deaths under this age group, the share of '*Certain infectious and Parasitic Diseases*' is 29.51 per cent followed by *Injury, Poisoning and Certain other Consequences of External Causes* (20.01 per cent). *Congenital Malformation, Deformation & Chromosomal Abnormalities* (13.16 per cent), *Diseases of the Nervous System* (11.72 per cent) and *Diseases of Respiratory System* (5.89 per cent). The Distribution of mortality in the age group 5-14 years, by major cause groups is given in **Statement- 34** and **Chart - 24**.

**Statement - 34**

**Distribution of Mortality among children in the Age Group 5-14 years  
by Major cause groups**

Sl. No.	Major Cause Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Certain Infectious & Parasitic Diseases (A00-B99)	248	28.84	243	30.22	491	29.51
2	Injury, Poisoning and Certain other consequences of External Causes (S00-T98)	150	17.44	183	22.76	333	20.01
3	Congenital Malformations, Deformations & Chromosomal Abnormalities (Q00-Q99)	114	13.26	105	13.06	219	13.16
4	Diseases of the Nervous System (G00-G98)	113	13.14	82	10.2	195	11.72
5	Diseases of the Respiratory System (J00-J98)	45	5.23	53	6.59	98	5.89
6	Other Major Groups	190	22.09	138	17.17	328	19.71
	<b>Total Medically Certified Deaths in the age group 5-14 years</b>	<b>860</b>	<b>100.00</b>	<b>804</b>	<b>100.00</b>	<b>1664</b>	<b>100.00</b>
	Deaths in the age group 5-14 years as percentage to total Medically Certified Deaths.		1.18		1.90		1.44

**CHART – 24**  
**PERCENTAGE DISTRIBUTION OF MORTALITY AMONG CHILDREN IN THE AGE GROUP 5-14 YEARS BY MAJOR CAUSE GROUPS**



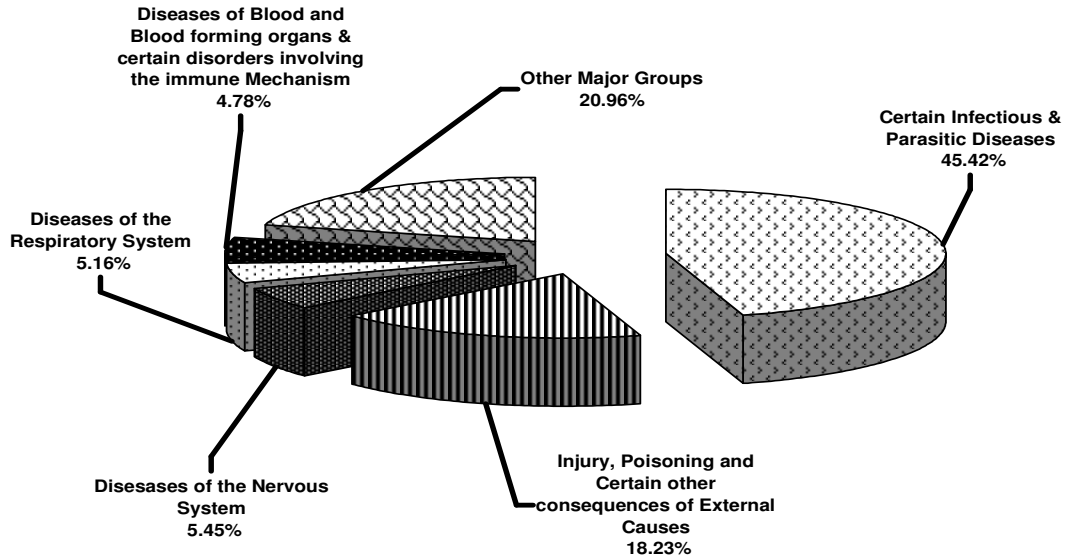
**3.27 Persons aged 15-24 years:** This age-group has contributed to 4.35 per cent of the total medically certified deaths with the share of male and female deaths to the corresponding total being 3.38 per cent and 6.03 per cent respectively. The category consisting of Injury, Poisoning & certain other consequences of External causes has caused the maximum deaths 45.42 per cent of total deaths reported under this age group. Certain Infectious and Parasitic Diseases and Diseases of the Nervous System are other leading causes of deaths, accounting for 18.23 per cent and 5.45 per cent of deaths respectively. The distribution of mortality in the age group 15-24 years, by major cause groups has been shown in **Statement - 35** and **Chart-25**.

**Statement - 35**  
**Distribution of Mortality among persons in the Age Group 15-24 years**  
**by Major cause groups**

Sl. No.	Major Cause Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Injury, Poisoning and Certain other consequences of External Causes (S00-T98)	1221	49.39	1061	41.58	2282	45.42
2	Certain Infectious & Parasitic Diseases (A00-B99)	497	20.11	419	16.42	916	18.23
3	Diseases of the Nervous System (G00-G98)	151	6.11	123	4.82	274	5.45
4	Diseases of the Respiratory System (J00-J98)	129	5.22	130	5.09	259	5.16
5	Diseases of Blood and Blood forming organs & certain disorders involving the immune Mechanism (D50-D89)	89	3.60	151	5.91	240	4.78
6	Other Major Groups	385	15.57	668	26.18	1053	20.96
	<b>Total Medically Certified Deaths in the age group 15-24 years</b>	<b>2472</b>	<b>100.00</b>	<b>2552</b>	<b>100.00</b>	<b>5024</b>	<b>100.00</b>
	Deaths in the age group 15-24 years as percentage to total Medically Certified Deaths.		3.38		6.03		4.35

**Chart - 25**

**PERCENTAGE DISTRIBUTION OF MORTALITY AMONG PERSONS IN THE AGE GROUP 15-24 YEARS BY MAJOR CAUSE GROUPS**



**3.28 Persons aged 25-34 years:** The age group has constituted around 8 per cent of total medically certified deaths. Around every fourteenth medically certified death belongs to this age-group, with 7.14 per cent and 8.24 per cent of total male and female medically certified deaths respectively coming from this age group. A significant percentage of deaths have been reported due to *'Injury, Poisoning & certain other consequences of External Causes'* (32.01 per cent). The two other major determinants of deaths are *'Certain Infectious and Parasitic Diseases'* (19.71) and *'Diseases of the Circulatory System'* (11.63 per cent). The Distribution of Mortality in the age group 25-34 years, by major cause groups has been depicted in **Statement - 36 & Chart- 26** .

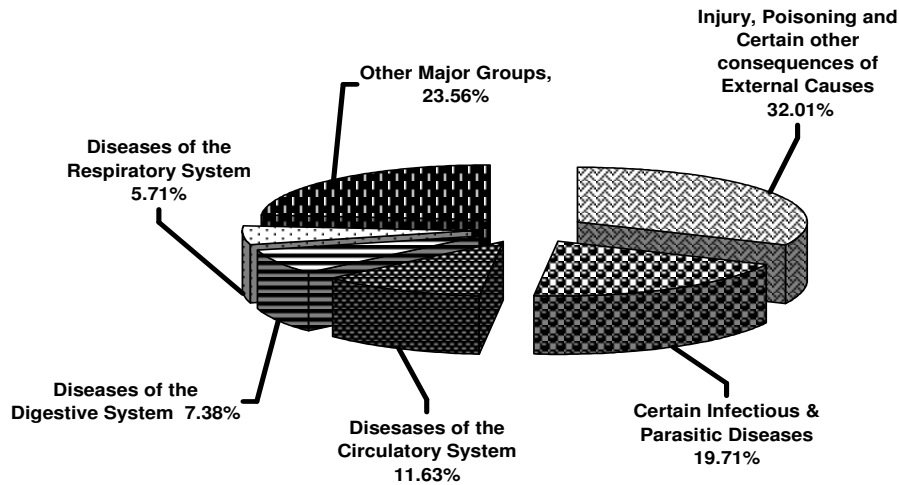
**Statement – 36**

**Distribution of Mortality among persons in the Age Group 25-34 years  
by Major cause groups**

Sl. No.	Major Cause group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Injury, Poisoning and Certain other consequences of External Causes (S00-T98)	1746	33.48	1040	29.82	2786	32.01
2	Certain Infectious & Parasitic Diseases (A00-B99)	1028	19.71	688	19.73	1716	19.71
3	Diseases of the Circulatory System (I00-I99)	647	12.41	365	10.46	1012	11.63
4	Diseases of the Digestive System (K00-K92)	494	9.47	148	4.24	642	7.38
5	Diseases of the Respiratory System (J00-J98)	277	5.31	220	6.31	497	5.71
6	Other Major Groups	1023	19.62	1027	29.44	2050	23.56
	<b>Total Medically Certified Deaths in the age group 25-34 years</b>	<b>5215</b>	<b>100.00</b>	<b>3488</b>	<b>100.00</b>	<b>8703</b>	<b>100.00</b>
	Deaths in the age group 25-34 years as percentage to total Medically Certified Deaths.		7.14		8.24		7.54

**Chart -26**

**PERCENTAGE DISTRIBUTION OF MORTALITY AMONG PERSONS IN THE AGE GROUP 25-34 YEARS BY MAJOR CAUSE GROUPS**



**3.29 Persons aged 35-44 years :** The overall contribution of this age-group in total medically certified deaths is 9.66 per cent, according for 10.46 per cent for male and 8.28 per cent of female deaths. *‘Diseases of the Circulatory System’, ‘Certain Infectious and Parasitic Diseases’, ‘Injury Poisoning and Certain other Consequences of External Causes’, ‘Diseases of Digestive System’ and ‘Diseases of Respiratory System’* are leading cause groups of deaths together contributing around 76 per cent of total deaths under this age-group. The distribution of mortality in the age group 35-44 years, by major cause group has been presented in **Statement-37** and **Chart-27**.

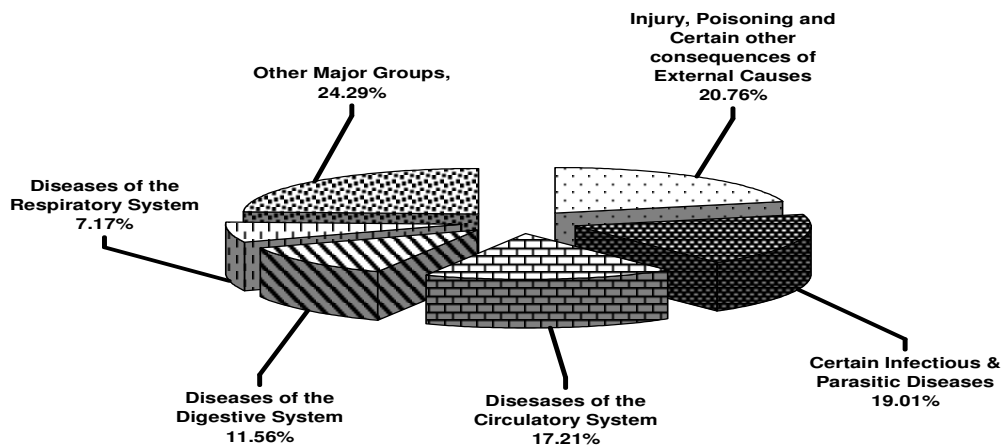
**Statement -37**

**Distribution of Mortality among persons in the Age Group 35-44 years  
by Major cause groups**

Sl. No.	Major Cause Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Diseases of the Circulatory System (I00-I99)	1609	21.05	705	20.11	2314	20.76
2	Certain Infectious & Parasitic Diseases (A00-B99)	1484	19.42	635	18.11	2119	19.01
3	Injury, Poisoning and Certain other consequences of External Causes (S00-T98)	1364	17.85	554	15.81	1918	17.21
4	Diseases of the Digestive System (K00-K92)	1055	13.81	233	6.65	1288	11.56
5	Diseases of the Respiratory System (J00-J98)	514	6.73	286	8.16	800	7.17
6	Other Major Groups	1615	21.14	1092	31.16	2707	24.29
	<b>Total Medically Certified Deaths in the age group 35-44 years</b>	<b>7641</b>	<b>100.00</b>	<b>3505</b>	<b>100.00</b>	<b>11146</b>	<b>100.00</b>
	Deaths in the age group 35-44 years as percentage to total Medically Certified Deaths.		10.46		8.28		9.66

**Chart – 27**

**PERCENTAGE DISTRIBUTION OF MORTALITY AMONG PERSONS IN THE AGE GROUP 35-44 YEARS BY MAJOR CAUSE GROUPS**



**3.30 Persons aged 45-54 years:** This age group has contributed to 13.17 per cent of the total medically certified deaths, constituting 14.52 per cent and 10.84 per cent of total male and female medically certified deaths respectively. The prominent causes of mortality in this age group are ‘Diseases of Circulatory System’ (29.48 per cent), ‘Certain, Infectious and Parasitic Diseases’ (13.60 per cent), ‘Diseases of the Digestive System’ (11.15 per cent), ‘Neoplasms’ (9.91 per cent) and ‘Injury, Poisoning & Certain other consequences of External Causes’ (9.38 per cent) which together contribute around 73.52 per cent of the total deaths reported under this age-group. The distribution of mortality in the age group 45-54 years, by major cause groups has been presented in **Statement – 38** and **Chart -28**.

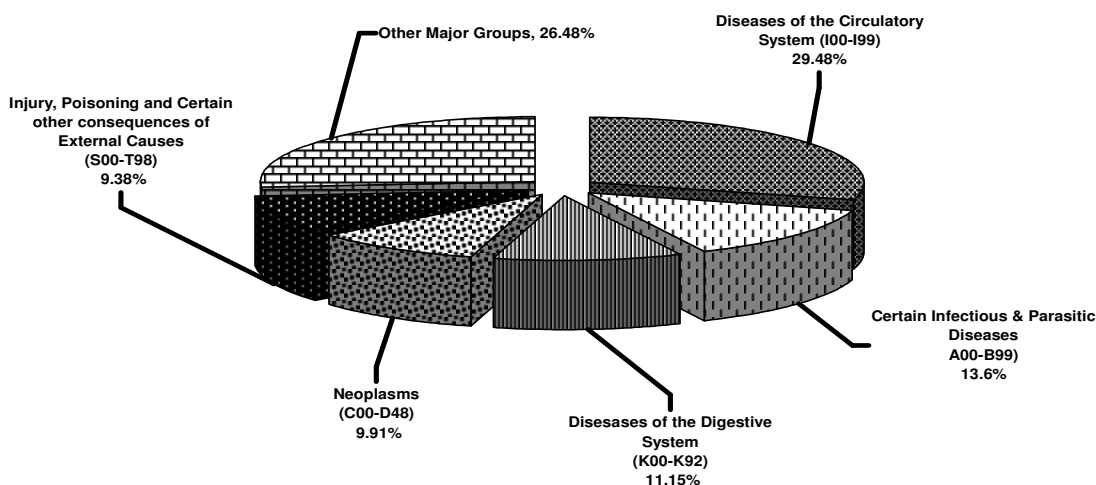
**Statement – 38**

**Distribution of Mortality among persons in the Age Group 45-54 years  
by Major cause groups**

Sl. No.	Cause of Death	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Diseases of the Circulatory System (I00-I99)	3129	29.49	1353	29.47	4482	29.48
2	Certain Infectious & Parasitic Diseases (A00-B99)	1439	13.56	628	13.68	2067	13.60
3	Diseases of the Digestive System (K00-K92)	1430	13.48	265	5.77	1695	11.15
4	Neoplasms (C00-D48)	818	7.71	688	14.99	1506	9.91
5	Injury, Poisoning and Certain other consequences of External Causes (S00-T98)	1112	10.48	314	6.84	1426	9.38
6	Other Major Groups	2683	25.29	1343	29.25	4026	26.48
	<b>Total Medically Certified Deaths in the age group 45-54 years</b>	<b>10611</b>	<b>100.00</b>	<b>4591</b>	<b>100.00</b>	<b>15202</b>	<b>100.00</b>
	Deaths in the age group 45-54 years as percentage to total Medically Certified Deaths.		14.52		10.84		13.17

Chart – 28

PERCENTAGE DISTRIBUTION OF MORTALITY AMONG PERSONS IN THE AGE GROUP 45-54 YEARS BY MAJOR CAUSE GROUPS



**3.31 Persons aged 55-64 years:** This age group has a share of 15.82 per cent in the total medically certified deaths, accounting for 16.86 per cent and 14.04 per cent of total male and female medically certified deaths respectively. *‘Diseases of the Circulatory System’* have contributed to the maximum number (36.93 per cent) of total deaths in this age-group, followed by *Endocrine, Nutritional and Metabolic Diseases* (10.62 per cent). In the *Circulatory System deaths Ischaemic Heart Diseases* have taken the highest toll contributing around 44 per cent of total deaths. Around 94 per cent of the deaths under the cause group, *Endocrine, Nutritional and Metabolic Diseases* is due to *‘Diabetes Mellitus’*. The cause group *‘Neoplasms’* is responsible for 10.54 per cent of the total deaths under this age group has two major constituents Viz., *‘Malignant Neoplasms of Digestive Organs’* and *‘Malignant Neoplasms of Respiratory & Intrathoracic Organs’* together accounting for around 49 per cent of total respiratory system deaths (Refer Table-2). The distribution of mortality in the age group 55-64 years by major cause group has been highlighted in the **Statement-39** and **Chart - 29**.



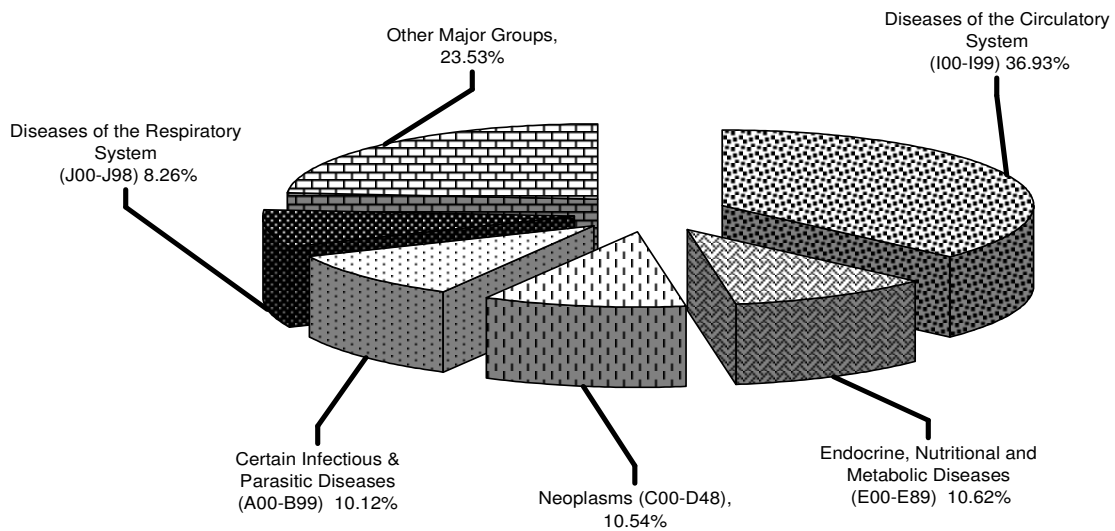
**Statement -39**

**Distribution of Mortality among persons in the Age Group 55-64 years  
by Major cause groups**

Sl. No.	Major Cause Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Diseases of the Circulatory System (I00-I99)	4543	36.87	2204	37.07	6747	36.93
2	Endocrine, Nutritional and Metabolic Diseases (E00-E89)	1207	9.8	733	12.33	1940	10.62
3	Neoplasms (C00-D48)	1156	9.38	769	12.94	1925	10.54
4	Certain Infectious & Parasitic Diseases (A00-B99)	1268	10.29	580	9.76	1848	10.12
5	Diseases of the Respiratory System (J00-J98)	1068	8.67	440	7.4	1508	8.26
6	Other Major Groups	3080	24.99	1219	20.50	4299	23.53
	<b>Total Medically Certified Deaths in the age group 55-64 years</b>	<b>12322</b>	<b>100.00</b>	<b>5945</b>	<b>100.00</b>	<b>18267</b>	<b>100.00</b>
	Deaths in the age group 55-64 years as percentage to total Medically Certified Deaths.		16.86		14.04		15.82

**Chart – 29**

**PERCENTAGE DISTRIBUTION OF MORTALITY AMONG PERSONS IN THE AGE GROUP 55-64 YEARS BY MAJOR CAUSE GROUPS**



**3.32 Persons aged 65-69 years :** The share of this age group in total medically certified deaths is 8.86 per cent, constituting 8.85 per cent and 8.86 per cent of total male and female medically certified deaths respectively. In this age group, '*Diseases of the Circulatory System*' alone constitute the highest number of deaths (40.72 per cent). '*Ischaemic Heart Diseases*' constitute the highest share around 45 per cent of circulatory system deaths under this age group. The second leading cause group of death in this age group is '*Endocrine, Nutritional and Metabolic Diseases*' with the share of 11.04 per cent. Under this cause group '*Diabetes Mellitus*' is the main cause alone contribute 93.27 per cent of the deaths. The major group of '*Neoplasms*' rank third with 10.88 per cent of total deaths under this age group, '*Malignant Neoplasms of Digestive Organs*' and '*Malignant Neoplasms of Respiratory & Intrathoracic organs*' being the major constituents with the shares of 32.91 per cent and 18.08 per cent of this cause group respectively. (Ref Table-2). The distribution of mortality in the age group 65-69 years, by major cause groups has been portrayed in **Statement-40** and **Chart-30**.

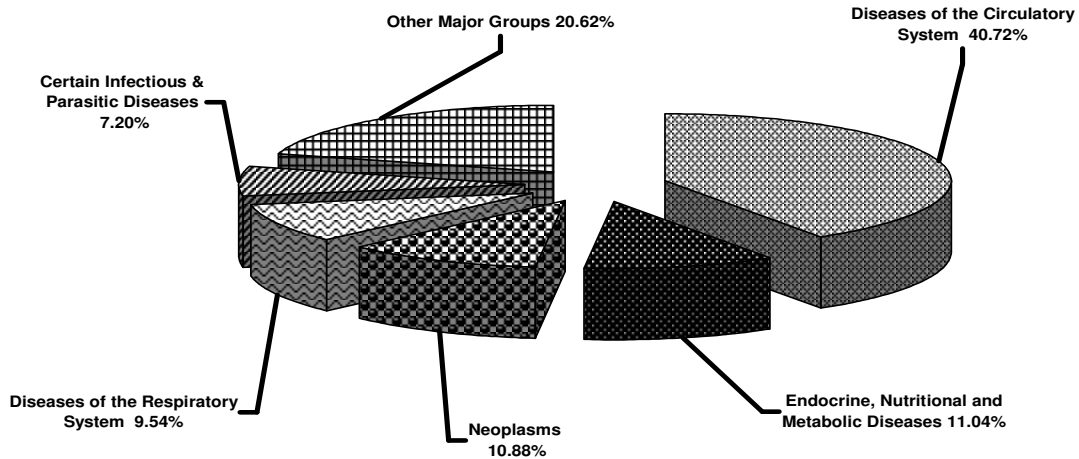
**Statement -40**

**Distribution of Mortality among persons in the Age Group 65-69 years  
by Major cause groups**

Sl. No.	Major Cause Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Diseases of the Circulatory System (I00-I99)	2577	39.82	1585	42.26	4162	40.72
2	Endocrine, Nutritional and Metabolic Diseases (E00-E89)	669	10.34	460	12.26	1129	11.04
3	Neoplasms (C00-D48)	714	11.03	398	10.61	1112	10.88
4	Diseases of the Respiratory System (J00-J98)	649	10.03	326	8.69	975	9.54
5	Certain Infectious & Parasitic Diseases (A00-B99)	487	7.53	249	6.64	736	7.20
6	Other Major Groups	1375	21.25	733	19.54	2108	20.62
	<b>Total Medically Certified Deaths in the age group 65-69 years</b>	<b>6471</b>	<b>100.00</b>	<b>3751</b>	<b>100.00</b>	<b>10222</b>	<b>100.00</b>
	Deaths in the age group 65-69 years as percentage to total Medically Certified Deaths.		8.85		8.86		8.86

**Chart-30**

**PERCENTAGE DISTRIBUTION OF MORTALITY AMONG PERSONS IN THE AGE GROUP 65-69 YEARS BY MAJOR CAUSE GROUPS**



**3.33 Old aged Persons 70 years and above:** This age group, as expected, has reported the maximum incidence (22.15 per cent) of total medically certified deaths. As high as 21.11 per cent and 23.95 per cent of total male and female medically certified deaths have respectively been reported from this age group. In this age group *‘Diseases of the Circulatory System’* alone contribute 45.96 per cent of deaths. *Ischemic Heart Diseases* constitute maximum number (43.95 per cent) of Circulatory system deaths under this age group. The major group of *‘Diseases of Respiratory System’* is the second leading cause of death with 11.00 per cent of total deaths under this age group *‘Other Lower Respiratory Disorders’* and *‘Asthma’* are the major constituents of Diseases of Respiratory system with the shares of 39.69 per cent and 20.65 per cent respectively. With the share of 10.29 per cent, *‘Endocrine, Nutritional and Metabolic Diseases’* is the third leading cause group of death in this age group. Under this age cause group, *‘Diabetes Mellitus’* is the only cause account for about 93 per cent deaths (Ref. Table-2). The distribution of mortality in the age group 70 years and above, by major cause group has been presented in **Statement-41 & Chart-31.**

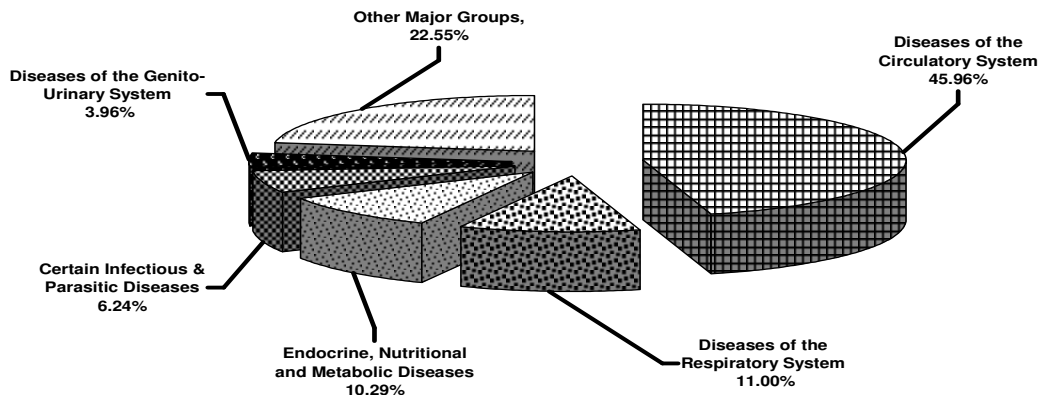
**Statement -41**

**Distribution of Mortality among Old aged persons (70 or above years)  
by Major cause groups – 2009**

Sl. No.	Major Cause Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Diseases of the Circulatory System (I00-I99)	6930	44.92	4823	47.55	11753	45.96
2	Diseases of the Respiratory System (J00-J98)	1853	12.01	961	9.48	2814	11
3	Endocrine, Nutritional and Metabolic Diseases (E00-E89)	1517	9.83	1115	10.99	2632	10.29
4	Certain Infectious & Parasitic Diseases (A00-B99)	1023	6.63	573	5.65	1596	6.24
5	Diseases of the Genito-urinary System (N00-N99)	630	4.08	382	3.77	1012	3.96
6	Other Major Groups	3476	22.53	2288	22.56	5764	22.55
	<b>Total Medically Certified Deaths in the age group 70 or above years</b>	<b>15429</b>	<b>100.00</b>	<b>10142</b>	<b>100.00</b>	<b>25571</b>	<b>100.00</b>
	Deaths in the age group 70 or above years as percentage to total Medically Certified Deaths.		21.11		23.95		22.15

**CHART – 31**

**PERCENTAGE DISTRIBUTION OF MORTALITY AMONG OLD AGED PERSONS  
(70 OR ABOVE YEARS) BY MAJOR CAUSE GROUPS - 2009**



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**TABLE-1: MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON OF 10TH REVISION OF ICD DURING THE YEAR 2009**

<b>KARNATAKA</b>														
SL.N O.	CAUSE OF DEATH	SEX	AGE GROUPS											
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	CERTAIN INFECTIOUS AND PARASITIC DISEASES(A00-B99)	Male	120	233	248	497	1028	1484	1439	1268	487	1023	490	8317
		Female	141	225	243	419	688	635	628	580	249	573	265	4646
		Total	261	458	491	916	1716	2119	2067	1848	736	1596	755	12963
2	NEOPLASMS (C00-D48)	Male	5	28	44	81	153	301	818	1156	714	1055	239	4594
		Female	0	18	33	52	158	352	688	769	398	575	176	3219
		Total	5	46	77	133	311	653	1506	1925	1112	1630	415	7813
3	DISEASES OF THE BLOOD & BLOOD FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM(D50-D89)	Male	0	23	42	89	108	131	146	119	84	193	70	1005
		Female	0	23	30	151	171	133	142	121	77	137	64	1049
		Total	0	46	72	240	279	264	288	240	161	330	134	2054
4	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES(E00-E89)	Male	0	8	7	49	145	269	730	1207	669	1517	252	4853
		Female	0	11	11	59	64	169	325	733	460	1115	144	3091
		Total	0	19	18	108	209	438	1055	1940	1129	2632	396	7944
5	MENTAL AND BEHAVIOURAL DISORDERS(F01-F99)	Male	0	0	0	3	9	41	16	17	0	6	8	100
		Female	0	0	0	3	1	7	12	6	3	3	3	38
		Total	0	0	0	6	10	48	28	23	3	9	11	138
6	DISEASES OF THE NERVOUS SYSTEM(G00-G98)	Male	170	112	113	151	208	270	302	242	115	303	131	2117
		Female	131	89	82	123	109	145	116	110	66	187	57	1215
		Total	301	201	195	274	317	415	418	352	181	490	188	3332
7	DISEASES OF THE EYE AND ADNEXA(H00-H59)	Male	0	0	0	0	0	0	0	2	0	0	0	2
		Female	0	0	0	0	2	0	0	0	0	0	0	2
		Total	0	0	0	0	2	0	0	2	0	0	0	4
8	DISEASES OF THE EAR AND MASTOID PROCESS(H60-H95)	Male	0	0	1	0	0	0	0	0	0	0	0	1
		Female	0	0	2	0	0	0	1	0	0	0	0	3
		Total	0	0	3	0	0	0	1	0	0	0	0	4
9	DISEASES OF THE CIRCULATORY SYSTEM(100-199)	Male	8	7	22	74	647	1609	3129	4543	2577	6930	1301	20847
		Female	3	11	26	81	365	705	1353	2204	1585	4823	613	11769
		Total	11	18	48	155	1012	2314	4482	6747	4162	11753	1914	32616
10	DISEASES OF THE RESPIRATORY SYSTEM(J00-J98)	Male	0	75	45	129	277	514	689	1068	649	1853	340	5639
		Female	0	71	53	130	220	286	347	440	326	961	146	2980
		Total	0	146	98	259	497	800	1036	1508	975	2814	486	8619



TABLE 2: MEDICALLY CERTIFIED DEATHS BY AGE AND SEX ACCORDING TO NATIONAL LIST OF 10TH REVISION OF ICD DURING THE YEAR 2009

KARNATAKA														
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS											
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	CERTAIN INFECTIOUS AND PARASITIC DISEASES(A00-B99)	Male	120	233	248	497	1028	1484	1439	1268	487	1023	490	8317
		Female	141	225	243	419	688	635	628	580	249	573	265	4646
		Total	261	458	491	916	1716	2119	2067	1848	736	1596	755	12963
1	INTESTINAL INFECTIOUS DISEASES(A00-A09)	Male	62	37	17	48	67	91	121	98	73	165	64	843
		Female	64	32	17	28	44	57	66	107	44	140	27	626
		Total	126	69	34	76	111	148	187	205	117	305	91	1469
1	CHOLERA(A00)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0
2	TYPHOID FEVER AND PARATYPHOID FEVERS(A01)	Male	0	0	1	6	8	5	2	4	2	4	4	36
		Female	0	2	1	3	6	2	2	3	2	2	2	25
3	FOOD POISONING(A02,A05)	Male	0	0	0	0	0	0	0	0	0	0	1	1
		Female	0	0	0	0	0	2	0	0	0	0	0	2
4	SHIGELLOSIS(A03)	Male	0	2	4	3	0	0	1	0	0	0	0	10
		Female	2	0	1	0	1	1	0	1	0	0	0	6
5	AMOEBIASIS(A06)	Male	4	0	0	0	0	2	2	2	1	9	12	32
		Female	1	3	2	1	1	2	2	4	0	1	0	17
6	DIARRHOEA AND GASTROENTERITIS OF PRESUMED INFECTIOUS ORIGIN(A09)	Male	56	35	12	39	58	83	116	92	70	152	47	760
		Female	61	27	13	23	36	50	62	99	42	137	25	575
7	OTHER INTESTINAL INFECTIOUS DISEASES(A04,A07-A08)	Male	2	0	0	0	1	1	0	0	0	0	0	4
		Female	0	0	0	1	0	0	0	0	0	0	0	1
2	TUBERCULOSIS(A15-A19)	Male	7	27	25	195	557	818	782	712	219	471	187	4000
		Female	7	16	40	152	303	297	251	204	70	154	75	1569
		Total	14	43	65	347	860	1115	1033	916	289	625	262	5569
1	RESPIRATORY TUBERCULOSIS(A15-A16)	Male	0	2	11	154	444	696	678	615	196	421	154	3371
		Female	0	6	23	108	208	244	193	147	54	115	49	1147
2	TUBERCULOSIS OF NERVOUS SYSTEM(A17)	Male	6	22	11	27	83	89	72	65	7	29	26	437
		Female	6	9	17	35	66	41	36	40	9	23	13	295
3	TUBERCULOSIS OF OTHER ORGANS AND MILIARY TUBERCULOSIS(A18-A19)	Male	1	3	3	14	30	33	32	32	16	21	7	192
		Female	1	1	0	9	29	12	22	17	7	16	13	127
3	OTHER BACTERIAL DISEASES(A20-A49)	Male	1	54	62	95	159	259	304	297	143	292	143	1809
		Female	2	38	56	145	168	142	190	175	100	211	98	1325
		Total	3	92	118	240	327	401	494	472	243	503	241	3134

TABLE 2: MEDICALLY CERTIFIED DEATHS BY AGE AND SEX ACCORDING TO NATIONAL LIST OF 10TH REVISION OF ICD DURING THE YEAR 2009

KARNATAKA															
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS											TOTAL	
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	PLAGUE(A20)	Male	0	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LEPROSY(A30)	Male	0	0	0	0	0	0	0	0	0	0	1	1	2
		Female	0	0	0	0	0	0	0	0	0	0	0	0	0
3	NEONATAL TETANUS(A33)	Male	0	0	0	0	0	0	0	0	0	0	0	0	0
		Female	2	0	0	0	0	0	0	0	0	0	0	0	2
4	OTHER TETANUS(A34-A35)	Male	0	2	11	8	10	15	31	33	7	9	5	131	
		Female	0	1	3	3	4	5	17	13	2	4	1	53	
5	DIPHTHERIA(A36)	Male	0	0	1	0	0	0	0	0	0	0	0	1	
		Female	0	1	0	0	0	0	0	0	0	0	0	1	
6	WHOOPING COUGH(A37)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	0	0	0	0	0	0	0	0	0	
7	MENINGOCOCCAL INFECTION(A39)	Male	0	0	0	0	2	1	0	2	1	0	0	6	
		Female	0	0	0	0	0	1	0	0	0	0	0	1	
8	SEPTICAEMIA(A40-A41)	Male	0	50	48	81	117	203	250	233	126	270	133	1511	
		Female	0	36	49	133	157	127	157	148	97	204	93	1201	
9	ALL OTHER TYPES OF BACTERIAL DISEASES(A21-A28,A31-A32,A38,A42-A49)	Male	1	2	2	6	30	40	23	29	9	12	4	158	
		Female	0	0	4	9	7	9	16	14	1	3	4	67	
4	INFECTIONS WITH A PREDOMINANTLY SEXUAL MODE OF TRANSMISSION(A50-A64)	Male	0	0	0	0	1	0	0	0	0	0	0	1	
		Female	0	0	0	0	0	1	0	0	0	0	0	1	
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	
1	SYPHILIS(A50-A53)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	0	0	1	0	0	0	0	0	1	
2	OTHER TYPES OF INFECTIONS WITH A PREDOMINANTLY SEXUAL MODE OF TRANSMISSION (A54-A64)	Male	0	0	0	0	1	0	0	0	0	0	0	1	
		Female	0	0	0	0	0	0	0	0	0	0	0	0	
5	VIRAL DISEASES(A70-A74 & A80-B34)	Male	50	108	127	107	182	234	184	105	35	72	82	1286	
		Female	68	123	123	58	136	107	89	74	26	40	51	895	
		<b>Total</b>	<b>118</b>	<b>231</b>	<b>250</b>	<b>165</b>	<b>318</b>	<b>341</b>	<b>273</b>	<b>179</b>	<b>61</b>	<b>112</b>	<b>133</b>	<b>2181</b>	
1	ACUTE POLIOMYELITIS(A80)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	0	0	0	0	0	0	0	0	0	
2	RABIES(A82)	Male	0	3	10	6	11	8	18	8	2	4	0	70	
		Female	0	9	6	0	1	7	2	3	2	0	2	32	



TABLE 2: MEDICALLY CERTIFIED DEATHS BY AGE AND SEX ACCORDING TO NATIONAL LIST OF 10TH REVISION OF ICD DURING THE YEAR 2009

KARNATAKA														
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS											TOTAL
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3	JAPANESE ENCEPHALITIS(A83.0)	Male	0	0	2	2	0	0	1	2	0	1	0	8
		Female	0	5	1	0	0	1	1	4	0	2	0	14
4	OTHER VIRAL ENCEPHALITIS(A83.1-A83.9,A84-A86)	Male	36	53	50	33	38	44	36	23	11	16	27	367
		Female	58	60	54	18	22	18	18	16	6	19	17	306
5	DENGUE FEVER(A90)	Male	0	5	11	12	7	8	13	9	8	7	0	80
		Female	0	7	9	4	15	10	6	9	5	3	0	68
6	OTHER ARTHROPOD-BORNE VIRAL FEVERS AND VIRAL HAEMORRHAGIC FEVERS (A91-A94, A96-A99)	Male	7	31	50	35	33	24	25	12	3	12	19	251
		Female	6	39	45	19	27	18	23	18	6	9	16	226
7	SMALLPOX(B03)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0
8	MEASLES(B05)	Male	1	4	0	0	0	0	0	0	0	0	0	5
		Female	2	0	0	0	0	0	0	0	0	0	0	2
9	ACUTE HEPATITIS(B16)	Male	0	2	0	0	5	8	8	10	5	12	2	52
		Female	0	0	4	3	4	4	2	3	1	1	1	23
10	OTHER VIRAL HEPATITIS(B15, B17-B19)	Male	0	8	3	17	25	14	15	14	4	12	14	126
		Female	1	1	2	13	19	9	9	7	5	3	6	75
11	HUMAN IMMUNODEFICIENCY VIRUS(HIV)DISEASE(B20-B24)	Male	0	0	0	0	63	127	68	25	2	2	20	307
		Female	0	0	0	0	48	38	27	14	1	3	8	139
12	ALL OTHER TYPES OF VIRAL DISEASES(A70-A74,A81,A87-A89,A95, B00-B02,B04,B06-B09 & B25-B34)	Male	6	2	1	2	0	1	0	2	0	6	0	20
		Female	1	2	2	1	0	2	1	0	0	0	1	10
6	PROTOZOAL DISEASES(B50-B64)	Male	0	6	12	50	42	53	35	48	17	20	11	294
		Female	0	12	7	33	26	19	26	15	8	25	13	184
		<b>Total</b>	<b>0</b>	<b>18</b>	<b>19</b>	<b>83</b>	<b>68</b>	<b>72</b>	<b>61</b>	<b>63</b>	<b>25</b>	<b>45</b>	<b>24</b>	<b>478</b>
1	MALARIA(B50-B54)	Male	0	6	12	50	42	50	34	47	16	20	11	288
		Female	0	12	7	33	26	14	26	15	8	25	11	177
2	ALL OTHER TYPES OF PROTOZOAL DISEASES(B55-B64)	Male	0	0	0	0	0	3	1	1	1	0	0	6
		Female	0	0	0	0	0	5	0	0	0	0	2	7
7	OTHER CERTAIN INFECTIOUS AND PARASITIC DISEASES & LATE EFFECTS OF INFECTIOUS AND PARASITIC DISEASES (A65-A69 & A75-A79,B35-B49,B65-B94 & B99)	Male	0	1	5	2	20	29	13	8	0	3	3	84
		Female	0	4	0	3	11	12	6	5	1	3	1	46
		<b>Total</b>	<b>0</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>31</b>	<b>41</b>	<b>19</b>	<b>13</b>	<b>1</b>	<b>6</b>	<b>4</b>	<b>130</b>
1	FILARIASIS(B74)	Male	0	0	0	0	0	1	0	0	0	0	0	1
		Female	0	0	0	0	0	0	0	2	0	0	0	2

TABLE 2: MEDICALLY CERTIFIED DEATHS BY AGE AND SEX ACCORDING TO NATIONAL LIST OF 10TH REVISION OF ICD DURING THE YEAR 2009

KARNATAKA															
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS												TOTAL
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
2	OTHER HELMINTHIASIS(B65-B73,B75,B77-B83)	Male	0	0	0	1	1	2	0	2	0	0	0	0	6
		Female	0	2	0	0	0	0	0	0	1	0	0	0	3
3	OTHER SPIROCHAETAL DISEASES AND RICKETTSIOSES(A65-A69 & A75-A79)	Male	0	1	0	0	0	0	0	0	0	0	0	0	1
		Female	0	0	0	0	0	0	0	0	0	0	0	0	0
4	ALL OTHER INFECTIOUS AND PARASITIC DISEASES & LATE EFFECTS OF PARASITIC INFECTIOUS AND DISEASES (B35-B49,B65,B76,B85-B94 & B99)	Male	0	0	5	1	19	26	13	6	0	3	3	76	
		Female	0	2	0	3	11	12	6	2	1	3	1	41	
II	NEOPLASMS (C00-D48)	Male	5	28	44	81	153	301	818	1156	714	1055	239	4594	
		Female	0	18	33	52	158	352	688	769	398	575	176	3219	
		Total	5	46	77	133	311	653	1506	1925	1112	1630	415	7813	
8	MALIGNANT NEOPLASMS OF LIP, ORAL CAVITY AND PHARYNX (C00-C14)	Male	0	0	0	0	25	50	97	97	70	80	34	453	
		Female	0	0	0	0	6	25	33	46	17	42	6	175	
		Total	0	0	0	0	31	75	130	143	87	122	40	628	
1	MALIGNANT NEOPLASMS OF LIP, ORAL CAVITY AND PHARYNX (C00-C14)	Male	0	0	0	0	25	50	97	97	70	80	34	453	
		Female	0	0	0	0	6	25	33	46	17	42	6	175	
9	MALIGNANT NEOPLASMS OF DIGESTIVE ORGANS (C15-C26)	Male	0	0	0	0	26	74	284	444	269	381	85	1563	
		Female	0	0	0	0	27	54	121	185	97	195	51	730	
		Total	0	0	0	0	53	128	405	629	366	576	136	2293	
1	MALIGNANT NEOPLASM OF OESOPHAGUS (C15)	Male	0	0	0	0	1	9	68	109	63	87	14	351	
		Female	0	0	0	0	5	16	41	53	26	41	17	199	
2	MALIGNANT NEOPLASM OF STOMACH (C16)	Male	0	0	0	0	7	21	53	104	57	102	27	371	
		Female	0	0	0	0	5	10	30	52	20	63	9	189	
3	MALIGNANT NEOPLASMS OF SMALL INTESTINE INCLUDING DUODENUM (C17)	Male	0	0	0	0	0	1	3	3	0	0	0	7	
		Female	0	0	0	0	1	0	1	1	0	2	0	5	
4	MALIGNANT NEOPLASM OF COLON (C18)	Male	0	0	0	0	4	6	15	44	17	34	11	131	
		Female	0	0	0	0	2	6	4	26	11	14	3	66	
5	MALIGNANT NEOPLASMS OF RECTOSIGMOID JUNCTION,RECTUM,ANUS AND ANAL CANAL (C19-C21)	Male	0	0	0	0	6	13	20	40	26	29	8	142	
		Female	0	0	0	0	5	8	11	11	18	11	4	68	
6	MALIGNANT NEOPLASMS OF LIVER AND INTRAHEPATIC BILE DUCTS (C22)	Male	0	0	0	0	8	11	80	106	74	85	15	379	
		Female	0	0	0	0	3	4	24	23	12	33	7	106	
7	MALIGNANT NEOPLASM OF PANCREAS (C25)	Male	0	0	0	0	0	7	23	18	21	28	3	100	
		Female	0	0	0	0	5	6	4	13	4	18	1	51	
8	OTHER MALIGNANT NEOPLASM OF DIGESTIVE ORGANS (C23-C24,C26)	Male	0	0	0	0	0	6	22	20	11	16	7	82	
		Female	0	0	0	0	1	4	6	6	6	13	10	46	

TABLE 2: MEDICALLY CERTIFIED DEATHS BY AGE AND SEX ACCORDING TO NATIONAL LIST OF 10TH REVISION OF ICD DURING THE YEAR 2009

KARNATAKA														
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS											TOTAL
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
10	MALIGNANT NEOPLASMS OF RESPIRATORY & INTRATHORACIC ORGANS (C30-C39)	Male	0	0	0	0	8	19	134	254	152	204	34	805
		Female	0	0	0	0	7	18	29	60	49	52	10	225
		Total	0	0	0	0	15	37	163	314	201	256	44	1030
1	MALIGNANT NEOPLASM OF LARYNX (C32)	Male	0	0	0	0	1	2	28	30	13	39	6	119
		Female	0	0	0	0	2	2	2	8	7	7	2	30
2	MALIGNANT NEOPLASMS OF TRACHEA, BRONCHUS AND LUNG (C33-C34)	Male	0	0	0	0	7	17	106	223	139	163	28	683
		Female	0	0	0	0	5	16	26	50	41	45	8	191
3	OTHER MALIGNANT NEOPLASMS OF RESPIRATORY AND INTRATHORACIC ORGANS (C30-C31,C37-C39)	Male	0	0	0	0	0	0	0	1	0	2	0	3
		Female	0	0	0	0	0	0	1	2	1	0	0	4
11	MALIGNANT NEOPLASMS OF BONE,MESOTHELIAL AND SOFT TISSUE, SKIN AND BREAST (C40-C50)	Male	0	0	0	0	7	6	17	18	16	13	4	81
		Female	0	0	0	0	23	69	175	132	88	50	24	561
		Total	0	0	0	0	30	75	192	150	104	63	28	642
1	MALIGNANT NEOPLASMS OF BONE AND ARTICULAR CARTILAGE (C40-C41)	Male	0	0	0	0	5	4	8	13	12	9	4	55
		Female	0	0	0	0	3	4	10	4	10	1	1	33
2	MALIGNANT MELANOMA OF SKIN (C43)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0
3	OTHER MALIGNANT NEOPLASM OF SKIN (C44)	Male	0	0	0	0	0	0	1	0	1	1	0	3
		Female	0	0	0	0	1	0	2	3	2	2	0	10
4	MALIGNANT NEOPLASMS OF MESOTHELIAL AND SOFT TISSUE (C45-C49)	Male	0	0	0	0	2	2	8	5	3	3	0	23
		Female	0	0	0	0	0	4	3	1	2	1	2	13
5	MALIGNANT NEOPLASM OF BREAST (C50)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	19	61	160	124	74	46	21	505
12	MALIGNANT NEOPLASMS OF GENITOURINARY ORGANS(C51-C68)	Male	0	0	0	0	6	12	53	77	73	161	18	400
		Female	0	0	0	0	34	103	217	199	66	110	39	768
		Total	0	0	0	0	40	115	270	276	139	271	57	1168
1	MALIGNANT NEOPLASM OF CERVIX UTERI (C53)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	17	61	103	105	32	49	18	385
2	MALIGNANT NEOPLASMS OF OTHER AND UNSPECIFIED PARTS OF UTERUS (C54-C55)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	4	3	24	12	7	8	9	67

TABLE 2: MEDICALLY CERTIFIED DEATHS BY AGE AND SEX ACCORDING TO NATIONAL LIST OF 10TH REVISION OF ICD DURING THE YEAR 2009

KARNATAKA														
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS											
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3	MALIGNANT NEOPLASM OF OVARY (C56)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	11	37	82	76	21	32	12	271
4	MALIGNANT NEOPLASMS OF PLACENTA (C58)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0
5	OTHER MALIGNANT NEOPLASM OF FEMALE GENITAL ORGANS (C51-C52,C57)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	7	3	6	4	0	20
6	MALIGNANT NEOPLASM OF PROSTATE (C61)	Male	0	0	0	0	0	0	22	45	51	94	9	221
		Female	0	0	0	0	0	0	0	0	0	0	0	0
7	OTHER MALIGNANT NEOPLASM OF MALE GENITAL ORGANS (C60,C62,C63)	Male	0	0	0	0	6	7	12	7	3	10	3	48
		Female	0	0	0	0	0	0	0	0	0	0	0	0
8	MALIGNANT NEOPLASM OF BLADDER (C67)	Male	0	0	0	0	0	0	6	7	7	24	2	46
		Female	0	0	0	0	1	0	1	2	0	11	0	15
9	OTHER MALIGNANT NEOPLASM OF URINARY TRACT (C64-C66,C68)	Male	0	0	0	0	0	5	13	18	12	33	4	85
		Female	0	0	0	0	1	2	0	1	0	6	0	10
13	MALIGNANT NEOPLASMS OF EYE,BRAIN AND OTHER PARTS OF CENTRAL NERVOUS SYSTEM (C69-C72)	Male	0	1	4	10	12	23	19	44	18	32	15	178
		Female	0	6	8	6	8	20	19	24	12	19	3	125
		<b>Total</b>	<b>0</b>	<b>7</b>	<b>12</b>	<b>16</b>	<b>20</b>	<b>43</b>	<b>38</b>	<b>68</b>	<b>30</b>	<b>51</b>	<b>18</b>	<b>303</b>
1	MALIGNANT NEOPLASMS OF EYE & ADNEXA (C69)	Male	0	0	0	0	0	0	2	0	0	0	0	2
		Female	0	0	0	0	0	0	0	0	0	0	0	0
2	MALIGNANT NEOPLASMS OF MENINGES,BRAIN AND OTHER PARTS OF CENTRAL NERVOUS SYSTEM(C70-C72)	Male	0	1	4	10	12	23	17	44	18	32	15	176
		Female	0	6	8	6	8	20	19	24	12	19	3	125
14	MALIGNANT NEOPLASMS OF OTHER ILL-DEFINED,SECONDARY, UNSPECIFIED AND MULTIPLE SITES(C73-C80 & C97)	Male	0	0	5	2	3	30	49	54	42	55	18	258
		Female	0	1	4	3	6	13	26	37	22	44	15	171
		<b>Total</b>	<b>0</b>	<b>1</b>	<b>9</b>	<b>5</b>	<b>9</b>	<b>43</b>	<b>75</b>	<b>91</b>	<b>64</b>	<b>99</b>	<b>33</b>	<b>429</b>
1	MALIGNANT NEOPLASMS OF OTHER ILL-DEFINED, SECONDARY, UNSPECIFIED AND MULTIPLE SITES(C73-C80 & C97)	Male	0	0	5	2	3	30	49	54	42	55	18	258
		Female	0	1	4	3	6	13	26	37	22	44	15	171
15	MALIGNANT NEOPLASMS OF LYMPHOID, HAEMATOPOIETIC AND RELATED TISSUE (C81-C96)	Male	5	27	35	68	65	85	160	165	71	121	31	833
		Female	0	11	21	39	46	44	68	85	44	62	28	448
		<b>Total</b>	<b>5</b>	<b>38</b>	<b>56</b>	<b>107</b>	<b>111</b>	<b>129</b>	<b>228</b>	<b>250</b>	<b>115</b>	<b>183</b>	<b>59</b>	<b>1281</b>
1	HODGKIN'S DISEASE(C81)	Male	0	0	0	0	1	0	0	1	0	1	0	3
		Female	0	0	0	0	0	3	0	1	0	0	0	4



TABLE 2: MEDICALLY CERTIFIED DEATHS BY AGE AND SEX ACCORDING TO NATIONAL LIST OF 10TH REVISION OF ICD DURING THE YEAR 2009

KARNATAKA														
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS											
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	OTHER ANAEMIAS(D50-D55,D57-D64)	Male	0	8	30	72	86	98	123	105	73	178	58	831
		Female	0	15	22	137	141	104	114	103	74	129	58	897
3	ALL OTHER DISEASES OF BLOOD & BLOOD FORMING ORGANS (D65-D77)	Male	0	10	10	14	13	21	23	14	10	15	11	141
		Female	0	4	5	11	23	23	26	18	2	8	6	126
4	CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM(D80-D89)	Male	0	1	0	3	8	12	0	0	1	0	1	26
		Female	0	1	1	3	7	6	2	0	1	0	0	21
IV	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES(E00-E89)	Male	0	8	7	49	145	269	730	1207	669	1517	252	4853
		Female	0	11	11	59	64	169	325	733	460	1115	144	3091
		Total	0	19	18	108	209	438	1055	1940	1129	2632	396	7944
20	MALNUTRITION(E40-E46)	Male	0	8	1	0	5	3	2	1	2	7	0	29
		Female	0	11	5	4	0	0	7	4	0	9	2	42
		Total	0	19	6	4	5	3	9	5	2	16	2	71
1	KWASHIORKOR(E40)	Male	0	2	0	0	0	2	0	0	0	1	0	5
		Female	0	2	0	0	0	0	2	0	0	0	1	5
2	NUTRITIONAL MARASMUS(E41)	Male	0	5	1	0	5	1	2	1	2	5	0	22
		Female	0	9	4	4	0	0	5	3	0	7	1	33
3	OTHER PROTEIN-ENERGY MALNUTRITION(E42-E46)	Male	0	1	0	0	0	0	0	0	0	1	0	2
		Female	0	0	1	0	0	0	0	1	0	2	0	4
21	ENDOCRINE,OTHER NUTRITIONAL AND METABOLIC DISEASES(E00-E34 & E50-E89)	Male	0	0	6	49	140	266	728	1206	667	1510	252	4824
		Female	0	0	6	55	64	169	318	729	460	1106	142	3049
		Total	0	0	12	104	204	435	1046	1935	1127	2616	394	7873
1	DISORDERS OF THYROID GLAND(E00-E07)	Male	0	0	0	0	3	4	4	7	7	12	2	39
		Female	0	0	0	1	1	14	14	17	9	17	7	80
2	DIABETES MELLITUS(E10-E14)	Male	0	0	0	45	121	245	680	1135	619	1412	234	4491
		Female	0	0	0	48	48	136	283	679	434	1027	131	2786
3	ALL OTHER NUTRITIONAL DEFICIENCIES(E50-E64)	Male	0	0	0	0	0	1	1	1	0	0	0	3
		Female	0	0	3	0	0	0	0	0	0	0	0	3
4	ALL OTHER ENDOCRINE AND METABOLIC DISEASES(E15-E34 & E65-E89)	Male	0	0	6	4	16	16	43	63	41	86	16	291
		Female	0	0	3	6	15	19	21	33	17	62	4	180

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KARNATAKA														
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS											
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
V	MENTAL AND BEHAVIOURAL DISORDERS(F01-F99)	Male	0	0	0	3	9	41	16	17	0	6	8	100
		Female	0	0	0	3	1	7	12	6	3	3	3	38
		Total	0	0	0	6	10	48	28	23	3	9	11	138
22	MENTAL AND BEHAVIOURAL DISORDERS(F01-F99)	Male	0	0	0	3	9	41	16	17	0	6	8	100
		Female	0	0	0	3	1	7	12	6	3	3	3	38
		Total	0	0	0	6	10	48	28	23	3	9	11	138
1	MENTAL AND BEHAVIOURAL DISORDERS DUE TO PSYCHOACTIVE SUBSTANCE USE (F10-F19)	Male	0	0	0	0	8	39	14	16	0	3	5	85
		Female	0	0	0	0	0	5	3	0	0	0	1	9
2	SCHIZOPHRENIA, SCHIZOTYPAL & DELUSIONAL DISORDERS(F20-F29)	Male	0	0	0	0	0	2	0	1	0	3	3	9
		Female	0	0	0	0	1	1	3	5	1	3	1	15
3	ALL OTHER MENTAL BEHAVIOURAL DISORDERS(F01-F09,F30-F99)	Male	0	0	0	3	1	0	2	0	0	0	0	6
		Female	0	0	0	3	0	1	6	1	2	0	1	14
V1	DISEASES OF THE NERVOUS SYSTEM(G00-G98)	Male	170	112	113	151	208	270	302	242	115	303	131	2117
		Female	131	89	82	123	109	145	116	110	66	187	57	1215
		Total	301	201	195	274	317	415	418	352	181	490	188	3332
23	INFLAMMATORY DISEASES OF THE CENTRAL NERVOUS SYTEM(G00-G09)	Male	156	88	72	84	125	153	150	95	38	80	63	1104
		Female	108	78	58	61	63	105	63	56	28	36	25	681
		Total	264	166	130	145	188	258	213	151	66	116	88	1785
1	MENINGITIS(G00 & G03)	Male	131	58	32	49	77	105	85	50	22	40	35	684
		Female	67	51	25	36	42	71	29	25	17	17	14	394
2	ENCEPHALITIS,MYELITIS AND ENCEPHALOMYELITIS(G04)	Male	25	30	40	35	48	48	65	45	15	40	28	419
		Female	41	27	32	25	20	34	34	28	11	19	10	281
3	OTHER INFLAMMATORY DISEASES OF THE CENTRAL NERVOUS SYSTEM(G06,G08-G09)	Male	0	0	0	0	0	0	0	0	1	0	0	1
		Female	0	0	1	0	1	0	0	3	0	0	1	6
24	OTHER DISEASES OF THE NERVOUS SYSTEM(G10-G98)	Male	14	24	41	67	83	117	152	147	77	223	68	1013
		Female	23	11	24	62	46	40	53	54	38	151	32	534
		Total	37	35	65	129	129	157	205	201	115	374	100	1547
1	ALZHEIMER'S DISEASE(G30)	Male	0	0	0	0	0	0	0	0	0	8	0	8
		Female	0	0	0	0	0	0	0	0	0	9	0	9
2	EPILEPSY(G40-G41)	Male	0	0	15	28	24	31	48	15	13	22	18	214
		Female	0	0	9	44	20	9	16	7	3	22	9	139
3	ALL OTHER DISEASES OF THE NERVOUS SYSTEM(G10-G25,G31,G35-G37,G43-G98)	Male	14	24	26	39	59	86	104	132	64	193	50	791
		Female	23	11	15	18	26	31	37	47	35	120	23	386

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KARNATAKA														
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS											
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
VII	DISEASES OF THE EYE AND ADNEXA(H00-H59)	Male	0	0	0	0	0	0	0	2	0	0	0	2
		Female	0	0	0	0	2	0	0	0	0	0	0	2
		Total	0	0	0	0	2	0	0	2	0	0	0	4
25	DISEASES OF THE EYE AND ADNEXA(H00-H59)	Male	0	0	0	0	0	0	0	2	0	0	0	2
		Female	0	0	0	0	2	0	0	0	0	0	0	2
		Total	0	0	0	0	2	0	0	2	0	0	0	4
1	DISEASES OF THE EYE AND ADNEXA(H00-H59)	Male	0	0	0	0	0	0	0	2	0	0	0	2
		Female	0	0	0	0	2	0	0	0	0	0	0	2
VIII	DISEASES OF THE EAR AND MASTOID PROCESS(H60-H95)	Male	0	0	1	0	0	0	0	0	0	0	0	1
		Female	0	0	2	0	0	0	1	0	0	0	0	3
		Total	0	0	3	0	0	0	1	0	0	0	0	4
26	DISEASES OF THE EAR AND MASTOID PROCESS(H60-H95)	Male	0	0	1	0	0	0	0	0	0	0	0	1
		Female	0	0	2	0	0	0	1	0	0	0	0	3
		Total	0	0	3	0	0	0	1	0	0	0	0	4
1	DISEASES OF THE EAR AND MASTOID PROCESS(H60-H95)	Male	0	0	1	0	0	0	0	0	0	0	0	1
		Female	0	0	2	0	0	0	1	0	0	0	0	3
IX	DISEASES OF THE CIRCULATORY SYSTEM(I00-I99)	Male	8	7	22	74	647	1609	3129	4543	2577	6930	1301	20847
		Female	3	11	26	81	365	705	1353	2204	1585	4823	613	11769
		Total	11	18	48	155	1012	2314	4482	6747	4162	11753	1914	32616
27	ACUTE RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASES(I00-I09)	Male	8	7	22	74	71	73	57	62	20	36	26	456
		Female	3	11	26	81	77	115	104	68	27	46	23	581
		Total	11	18	48	155	148	188	161	130	47	82	49	1037
1	ACUTE RHEUMATIC FEVER(I00-I02)	Male	1	3	0	6	1	2	1	0	0	3	1	18
		Female	1	0	5	3	0	2	1	1	0	3	0	16
2	CHRONIC RHEUMATIC HEART DISEASES(I05-I09)	Male	7	4	22	68	70	71	56	62	20	33	25	438
		Female	2	11	21	78	77	113	103	67	27	43	23	565
28	HYPERTENSIVE DISEASES(I10-I15)	Male	0	0	0	0	40	164	381	646	325	1010	144	2710
		Female	0	0	0	0	16	75	175	327	251	823	80	1747
		Total	0	0	0	0	56	239	556	973	576	1833	224	4457
1	HYPERTENSIVE HEART DISEASES(I11)	Male	0	0	0	0	0	1	1	0	1	1	1	5
		Female	0	0	0	0	0	1	0	1	1	1	0	4
2	ALL OTHER HYPERTENSIVE DISEASES(I10,I12-I15)	Male	0	0	0	0	40	163	380	646	324	1009	143	2705
		Female	0	0	0	0	16	74	175	326	250	822	80	1743



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KARNATAKA															
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS												TOTAL
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
29	ISCHAEMIC HEART DISEASES(I20-I25)	Male	0	0	0	0	232	685	1449	2017	1217	3105	612	9317	
		Female	0	0	0	0	93	212	557	919	667	2061	237	4746	
		Total	0	0	0	0	325	897	2006	2936	1884	5166	849	14063	
1	ACUTE MYOCARDIAL INFARCTION(I21-I22)	Male	0	0	0	0	201	519	982	1211	686	1772	433	5804	
		Female	0	0	0	0	66	134	364	515	365	1177	157	2778	
2	ALL OTHER ISCHAEMIC HEART DISEASES(I20& I23-I25)	Male	0	0	0	0	31	166	467	806	531	1333	179	3513	
		Female	0	0	0	0	27	78	193	404	302	884	80	1968	
30	DISEASES OF PULMONARY CIRCULATION AND OTHER FORMS OF HEART DISEASE(I26-I51)	Male	0	0	0	0	168	281	556	801	446	1321	216	3789	
		Female	0	0	0	0	109	140	251	397	283	812	138	2130	
		Total	0	0	0	0	277	421	807	1198	729	2133	354	5919	
1	PULMONARY HEART DISEASES AND DISEASES OF PULMONARY CIRCULATION(I26-I28)	Male	0	0	0	0	20	53	148	237	137	475	52	1122	
		Female	0	0	0	0	34	32	61	119	68	202	36	552	
2	OTHER FORMS OF HEART DISEASES(I30-I51)	Male	0	0	0	0	148	228	408	564	309	846	164	2667	
		Female	0	0	0	0	75	108	190	278	215	610	102	1578	
31	CEREBROVASCULAR DISEASES(I60-I69)	Male	0	0	0	0	120	367	623	957	528	1353	292	4240	
		Female	0	0	0	0	61	146	242	462	335	1009	131	2386	
		Total	0	0	0	0	181	513	865	1419	863	2362	423	6626	
1	CEREBROVASCULAR DISEASES(I60-I69)	Male	0	0	0	0	120	367	623	957	528	1353	292	4240	
		Female	0	0	0	0	61	146	242	462	335	1009	131	2386	
32	OTHER DISEASES OF THE CIRCULATORY SYSTEM(I70-I99)	Male	0	0	0	0	16	39	63	60	41	105	11	335	
		Female	0	0	0	0	9	17	24	31	22	72	4	179	
		Total	0	0	0	0	25	56	87	91	63	177	15	514	
1	ATHEROSCLEROSIS(I70)	Male	0	0	0	0	0	10	26	9	11	30	2	88	
		Female	0	0	0	0	0	6	10	6	7	18	1	48	
2	ARTERIAL EMBOLISM AND THROMBOSIS(I74)	Male	0	0	0	0	1	0	1	6	4	0	0	12	
		Female	0	0	0	0	2	1	0	0	0	0	0	3	
3	OTHER DISEASES OF ARTERIES, ARTERIOLES & CAPILLARIES(I71-I73 & I77-I78)	Male	0	0	0	0	1	9	7	15	7	36	2	77	
		Female	0	0	0	0	1	2	2	7	4	34	0	50	
4	PHLEBITIS,THROMBOPHLEBITIS,VENOUS EMBOLISM AND THROMBOSIS(I80-I82)	Male	0	0	0	0	8	17	19	23	17	24	5	113	
		Female	0	0	0	0	4	7	11	11	8	8	1	50	
5	ALL OTHER DISEASES OF THE CIRCULATORY SYSTEM(I83-I99)	Male	0	0	0	0	6	3	10	7	2	15	2	45	
		Female	0	0	0	0	2	1	1	7	3	12	2	28	

TABLE 2: MEDICALLY CERTIFIED DEATHS BY AGE AND SEX ACCORDING TO NATIONAL LIST OF 10TH REVISION OF ICD DURING THE YEAR 2009

KARNATAKA														
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS											
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>X</b>	<b>DISEASES OF THE RESPIRATORY SYSTEM(J00-J98)</b>	Male	0	75	45	129	277	514	689	1068	649	1853	340	5639
		Female	0	71	53	130	220	286	347	440	326	961	146	2980
		<b>Total</b>	<b>0</b>	<b>146</b>	<b>98</b>	<b>259</b>	<b>497</b>	<b>800</b>	<b>1036</b>	<b>1508</b>	<b>975</b>	<b>2814</b>	<b>486</b>	<b>8619</b>
<b>33</b>	<b>DISEASES OF THE UPPER RESPIRATORY TRACT(J00-J06 &amp; J30-J39)</b>	Male	0	1	0	0	3	4	5	2	0	2	1	18
		Female	0	8	1	0	2	4	1	1	0	0	0	17
		<b>Total</b>	<b>0</b>	<b>9</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>8</b>	<b>6</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>35</b>
1	ACUTE PHARYNGITIS AND ACUTE TONSILLITIS(J02-J03)	Male	0	1	0	0	0	3	3	0	0	1	1	9
		Female	0	8	1	0	2	4	0	1	0	0	0	16
2	ACUTE LARYNGITIS AND TRACHEITIS(J04)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0
3	OTHER ACUTE UPPER RESPIRATORY INFECTIONS(J00-J01 & J05-J06)	Male	0	0	0	0	1	0	0	1	0	0	0	2
		Female	0	0	0	0	0	0	0	0	0	0	0	0
4	ALL OTHER DISEASES OF UPPER RESPIRATORY TRACT(J30-J39)	Male	0	0	0	0	2	1	2	1	0	1	0	7
		Female	0	0	0	0	0	0	1	0	0	0	0	1
<b>34</b>	<b>LOWER RESPIRATORY DISEASES(J20-J22 &amp; J40-J47)</b>	Male	0	0	0	21	40	132	329	642	472	1219	172	3027
		Female	0	0	2	19	34	89	144	222	198	599	73	1380
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>40</b>	<b>74</b>	<b>221</b>	<b>473</b>	<b>864</b>	<b>670</b>	<b>1818</b>	<b>245</b>	<b>4407</b>
1	ACUTE BRONCHITIS AND ACUTE BRONCHIOLITIS(J20-J21)	Male	0	0	0	0	0	1	0	4	0	4	2	11
		Female	0	0	0	0	1	0	0	0	1	3	4	9
2	BRONCHITIS, CHRONIC AND UNSPECIFIED EMPHYSEMA(J40-J43)	Male	0	0	0	0	3	4	19	32	25	87	9	179
		Female	0	0	2	1	0	10	4	13	13	26	0	69
3	ASTHMA(J45-J46)	Male	0	0	0	11	6	36	89	148	115	292	58	755
		Female	0	0	0	11	10	35	60	102	68	289	30	605
4	OTHER LOWER RESPIRATORY DISORDERS(J22,J44 & J47)	Male	0	0	0	10	31	91	221	458	332	836	103	2082
		Female	0	0	0	7	23	44	80	107	116	281	39	697
<b>35</b>	<b>OTHER DISEASES OF THE RESPIRATORY SYSTEM(J10-J18,J60-J98)</b>	Male	0	74	45	108	234	378	355	424	177	632	167	2594
		Female	0	63	50	111	184	193	202	217	128	362	73	1583
		<b>Total</b>	<b>0</b>	<b>137</b>	<b>95</b>	<b>219</b>	<b>418</b>	<b>571</b>	<b>557</b>	<b>641</b>	<b>305</b>	<b>994</b>	<b>240</b>	<b>4177</b>
1	INFLUENZA(J10-J11)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0
2	PNEUMONIA(J12-J18)	Male	0	33	18	37	97	126	116	160	77	259	56	979
		Female	0	31	25	47	55	77	71	79	51	159	36	631

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KARNATAKA														
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS											TOTAL
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3	PLEURISY(J90)	Male	0	0	1	3	5	33	37	24	19	50	10	182
		Female	0	2	0	1	8	18	15	13	16	18	2	93
4	ALL OTHER DISEASES OF THE RESPIRATORY SYSTEM(J60-J86,J92-J98)	Male	0	41	26	68	132	219	202	240	81	323	101	1433
		Female	0	30	25	63	121	98	116	125	61	185	35	859
<b>X1</b>	<b>DISEASES OF THE DIGESTIVE SYSTEM(K00-K92)</b>	<b>Male</b>	<b>0</b>	<b>15</b>	<b>21</b>	<b>88</b>	<b>494</b>	<b>1055</b>	<b>1430</b>	<b>1109</b>	<b>398</b>	<b>557</b>	<b>301</b>	<b>5468</b>
		<b>Female</b>	<b>0</b>	<b>8</b>	<b>9</b>	<b>72</b>	<b>148</b>	<b>233</b>	<b>265</b>	<b>290</b>	<b>151</b>	<b>265</b>	<b>60</b>	<b>1501</b>
		<b>Total</b>	<b>0</b>	<b>23</b>	<b>30</b>	<b>160</b>	<b>642</b>	<b>1288</b>	<b>1695</b>	<b>1399</b>	<b>549</b>	<b>822</b>	<b>361</b>	<b>6969</b>
36	DISEASES OF ORAL CAVITY, SALIVARY GLANDS AND JAWS(K00-K14)	Male	0	0	0	0	0	1	1	1	0	2	0	5
		Female	0	0	0	0	0	1	5	3	0	0	0	9
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>6</b>	<b>4</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>14</b>
1	DISEASES OF ORAL CAVITY, SALIVARY GLANDS AND JAWS(K00-K14)	Male	0	0	0	0	0	1	1	1	0	2	0	5
		Female	0	0	0	0	0	1	5	3	0	0	0	9
37	DISEASES OF THE OTHER PARTS OF DIGESTIVE SYSTEM(K20-K92)	Male	0	15	21	88	494	1054	1429	1108	398	555	301	5463
		Female	0	8	9	72	148	232	260	287	151	265	60	1492
		<b>Total</b>	<b>0</b>	<b>23</b>	<b>30</b>	<b>160</b>	<b>642</b>	<b>1286</b>	<b>1689</b>	<b>1395</b>	<b>549</b>	<b>820</b>	<b>361</b>	<b>6955</b>
1	GASTRIC AND DUODENAL ULCER(K25-K27)	Male	0	0	0	2	3	5	15	11	6	23	4	69
		Female	0	0	0	1	0	6	4	10	1	11	0	33
2	GASTRITIS AND DUODENITIS (K29)	Male	0	0	0	3	0	0	0	0	0	0	0	3
		Female	0	0	0	0	0	0	0	0	0	0	0	0
3	DISEASES OF APPENDIX(K35-K38)	Male	0	0	0	9	19	22	33	39	23	13	8	166
		Female	0	0	0	1	11	8	13	7	6	18	2	66
4	HERNIA(K40-K46)	Male	0	0	0	0	0	2	0	8	1	8	0	19
		Female	0	0	0	0	0	0	1	5	2	6	0	14
5	PARALYTIC ILEUS AND INTESTINAL OBSTRUCTION WITHOUT HERNIA(K56)	Male	0	0	3	1	1	2	40	11	2	8	2	70
		Female	0	0	0	1	7	1	10	9	10	8	2	48
6	PERITONITIS(K65)	Male	0	0	1	4	31	43	63	49	39	54	18	302
		Female	0	0	2	4	12	18	19	26	10	20	3	114
7	DISEASES OF THE LIVER(K70-K76)	Male	0	15	17	18	292	614	860	670	172	221	177	3056
		Female	0	8	7	17	51	112	112	106	42	77	19	551
8	CHOLELITHIASIS AND CHOLECYSTITIS(K80-K81)	Male	0	0	0	0	2	7	5	5	4	7	0	30
		Female	0	0	0	1	0	1	3	5	7	12	0	29
9	DISORDERS OF THE PANCREAS(K85-K86)	Male	0	0	0	19	87	115	110	72	41	57	25	526
		Female	0	0	0	22	28	25	29	24	17	17	9	171

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KARNATAKA														
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS											
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
10	ALL OTHER DISEASES OF THE OTHER PARTS OF DIGESTIVE SYSTEM(K20-K22,K28,K30-K31, K50-K55,K57-K63,K66,K82-K83 & K90-K92)	Male	0	0	0	32	59	244	303	243	110	164	67	1222
		Female	0	0	0	25	39	61	69	95	56	96	25	466
XII	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE(L00-L98)	Male	0	0	0	0	24	38	82	114	70	130	28	486
		Female	0	0	0	0	30	22	32	55	38	71	9	257
		Total	0	0	0	0	54	60	114	169	108	201	37	743
38	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE(L00-L98)	Male	0	0	0	0	24	38	82	114	70	130	28	486
		Female	0	0	0	0	30	22	32	55	38	71	9	257
		Total	0	0	0	0	54	60	114	169	108	201	37	743
1	INFECTIONS OF THE SKIN AND SUBCUTANEOUS TISSUE(L00-L08)	Male	0	0	0	0	22	36	74	101	64	111	24	432
		Female	0	0	0	0	13	18	28	40	30	68	7	204
2	ALL OTHER DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE(L10-L98)	Male	0	0	0	0	2	2	8	13	6	19	4	54
		Female	0	0	0	0	17	4	4	15	8	3	2	53
XIII	DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE(M00-M99)	Male	0	0	0	0	1	10	9	14	9	4	7	54
		Female	0	0	0	0	2	4	7	10	4	16	3	46
		Total	0	0	0	0	3	14	16	24	13	20	10	100
39	DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE(M00-M99)	Male	0	0	0	0	1	10	9	14	9	4	7	54
		Female	0	0	0	0	2	4	7	10	4	16	3	46
		Total	0	0	0	0	3	14	16	24	13	20	10	100
1	RHEUMATOID ARTHRITIS AND OTHER INFLAMMATORY POLYARTHRITIS(M05-M13)	Male	0	0	0	0	1	4	5	6	3	1	7	27
		Female	0	0	0	0	1	3	4	4	4	9	0	25
2	OSTEOMYELITIS(M86)	Male	0	0	0	0	0	0	0	1	0	0	0	1
		Female	0	0	0	0	0	0	0	1	0	2	0	3
3	ALL OTHER DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE (M00-M02,M15-M43,M45-M85,M87-M99)	Male	0	0	0	0	0	6	4	7	6	3	0	26
		Female	0	0	0	0	1	1	3	5	0	5	3	18
XIV	DISEASES OF THE GENITOURINARY SYSTEM(N00-N99)	Male	0	5	8	8	162	317	392	486	280	630	158	2446
		Female	0	4	4	3	111	115	236	270	184	382	70	1379
		Total	0	9	12	11	273	432	628	756	464	1012	228	3825
40	DISEASES OF URINARY SYSTEM(N00-N39)	Male	0	5	8	8	161	310	391	477	279	614	156	2409
		Female	0	4	4	3	110	115	234	270	184	379	69	1372
		Total	0	9	12	11	271	425	625	747	463	993	225	3781
1	GLOMERULAR DISEASES(INCLUDING NEPHRITIC SYNDROME)(N00-N07)	Male	0	5	8	5	3	0	1	2	1	6	1	32
		Female	0	4	4	0	4	1	5	4	2	2	1	27

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KARNATAKA														
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS											
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	RENAL TUBULO-INTERSTITIAL DISEASES(N10-N15)	Male	0	0	0	0	5	4	10	15	7	5	1	47
		Female	0	0	0	3	0	3	19	8	6	11	3	53
3	RENAL FAILURE(N17-N19)	Male	0	0	0	0	147	286	344	423	244	508	138	2090
		Female	0	0	0	0	96	94	191	229	154	294	57	1115
4	UROLITHIASIS(N20-N23)	Male	0	0	0	0	1	0	0	0	0	0	0	1
		Female	0	0	0	0	0	0	2	0	0	0	0	2
5	OTHER DISORDERS OF KIDNEY AND URETER(N25-N28)	Male	0	0	0	3	0	3	3	1	1	1	2	14
		Female	0	0	0	0	1	1	0	3	0	0	0	5
6	ALL OTHER DISEASES OF URINARY SYSTEM(N30-N39)	Male	0	0	0	0	5	17	33	36	26	94	14	225
		Female	0	0	0	0	9	16	17	26	22	72	8	170
<b>41</b>	<b>OTHER DISEASES OF THE GENITOURINARY SYSTEM(N40-N99)</b>	<b>Male</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>7</b>	<b>1</b>	<b>9</b>	<b>1</b>	<b>16</b>	<b>2</b>	<b>37</b>
		<b>Female</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>7</b>
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>7</b>	<b>3</b>	<b>9</b>	<b>1</b>	<b>19</b>	<b>3</b>	<b>44</b>
1	HYPERPLASIA OF PROSTATE(N40)	Male	0	0	0	0	0	0	0	1	0	5	0	6
2	ALL OTHER DISEASES OF MALE GENITAL ORGANS(N41-N50)	Male	0	0	0	0	1	7	1	8	1	11	2	31
3	SALPINGITIS AND OOPHORITIS(N70)	Female	0	0	0	0	1	0	0	0	0	0	0	1
4	ALL OTHER DISEASES OF FEMALE GENITAL ORGANS(N60-N64,N71-N76,N80-N99)	Female	0	0	0	0	0	0	2	0	0	3	1	6
<b>XV</b>	<b>PREGNANCY, CHILDBIRTH AND THE PUERPERIUM (O00-O99)</b>	<b>Female</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>295</b>	<b>274</b>	<b>42</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>611</b>
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>295</b>	<b>274</b>	<b>42</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>611</b>
<b>42</b>	<b>PREGNANCY WITH ABORTIVE OUTCOME (O00-O08)</b>	<b>Female</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>12</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>12</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>
1	SPONTANEOUS ABORTION (O03)	Female	0	0	0	0	0	0	0	0	0	0	0	0
2	MEDICAL ABORTION(O04)	Female	0	0	0	0	0	0	0	0	0	0	0	0
3	OTHER PREGNANCIES WITH ABORTIVE OUTCOME(O00-O02 & O05-O08)	Female	0	0	0	8	12	4	0	0	0	0	0	24
<b>43</b>	<b>OTHER DIRECT OBSTETRIC DEATHS (O10-O92)</b>	<b>Male</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
		<b>Female</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>259</b>	<b>228</b>	<b>36</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>523</b>
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>259</b>	<b>228</b>	<b>36</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>523</b>
1	OEDEMA,PROTEINURIA AND HYPERTENSIVE DISORDERS IN PREGNANCY,CHILD BIRTH AND PUERPERIUM(O10-O16)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	111	58	14	0	0	0	0	0	183



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KARNATAKA														
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			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>XVII</b>	<b>CONGENITAL MALFORMATIONS,DEFORMATIONS &amp; CHROMOSOMAL ABNORMALITIES(Q00-Q99)</b>	<b>Male</b>	<b>767</b>	<b>153</b>	<b>114</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1034</b>
		<b>Female</b>	<b>502</b>	<b>149</b>	<b>105</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>756</b>
		<b>Total</b>	<b>1269</b>	<b>302</b>	<b>219</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1790</b>
<b>46</b>	<b>CONGENITAL MALFORMATIONS,DEFORMATIONS &amp; CHROMOSOMAL ABNORMALITIES(Q00-Q99)</b>	<b>Male</b>	<b>767</b>	<b>153</b>	<b>114</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1034</b>
		<b>Female</b>	<b>502</b>	<b>149</b>	<b>105</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>756</b>
		<b>Total</b>	<b>1269</b>	<b>302</b>	<b>219</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1790</b>
1	SPINA BIFIDA(Q05)	Male	0	1	0	0	0	0	0	0	0	0	0	1
		Female	4	0	0	0	0	0	0	0	0	0	0	4
2	CONGENITAL MALFORMATIONS OF THE CIRCULATORY SYSTEM(Q20-Q28)	Male	557	109	75	0	0	0	0	0	0	0	0	741
		Female	340	105	78	0	0	0	0	0	0	0	0	523
3	CLEFT LIP AND CLEFT PALATE(Q35-Q37)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0
4	ALL OTHER CONGENITAL MALFORMATIONS,DEFORMATIONS & CHROMOSOMAL ABNORMALITIES NOT ELSEWHERE CLASSIFIED(Q00-Q04,Q06-Q07,Q10-Q18,Q30-Q34,Q38-Q99)	Male	210	43	39	0	0	0	0	0	0	0	0	292
		Female	158	44	27	0	0	0	0	0	0	0	0	229
<b>XVIII</b>	<b>SYMPTOMS,SIGNS AND ABNORMAL CLINICAL &amp; LABORATORY FINDINGS, NOT ELSEWHERE CLASSIFIED (R00-R99)</b>	<b>FMale</b>	<b>0</b>	<b>9</b>	<b>45</b>	<b>82</b>	<b>213</b>	<b>238</b>	<b>317</b>	<b>335</b>	<b>198</b>	<b>894</b>	<b>270</b>	<b>2601</b>
		<b>Female</b>	<b>0</b>	<b>9</b>	<b>23</b>	<b>103</b>	<b>105</b>	<b>103</b>	<b>125</b>	<b>165</b>	<b>123</b>	<b>817</b>	<b>147</b>	<b>1720</b>
		<b>Total</b>	<b>0</b>	<b>18</b>	<b>68</b>	<b>185</b>	<b>318</b>	<b>341</b>	<b>442</b>	<b>500</b>	<b>321</b>	<b>1711</b>	<b>417</b>	<b>4321</b>
<b>47</b>	<b>SYMPTOMS,SIGNS AND ABNORMAL CLINICAL &amp; LABORATORY FINDINGS,NOT ELSEWHERE CLASSIFIED (R00-R99)</b>	<b>Male</b>	<b>0</b>	<b>9</b>	<b>45</b>	<b>82</b>	<b>213</b>	<b>238</b>	<b>317</b>	<b>335</b>	<b>198</b>	<b>894</b>	<b>270</b>	<b>2601</b>
		<b>Female</b>	<b>0</b>	<b>9</b>	<b>23</b>	<b>103</b>	<b>105</b>	<b>103</b>	<b>125</b>	<b>165</b>	<b>123</b>	<b>817</b>	<b>147</b>	<b>1720</b>
		<b>Total</b>	<b>0</b>	<b>18</b>	<b>68</b>	<b>185</b>	<b>318</b>	<b>341</b>	<b>442</b>	<b>500</b>	<b>321</b>	<b>1711</b>	<b>417</b>	<b>4321</b>
1	ABDOMINAL AND PELVIC PAIN(R10)	Male	0	0	0	0	0	2	2	2	1	2	0	9
		Female	0	0	0	2	0	2	0	0	2	1	1	8
2	ASCITES(R18)	Male	0	0	0	0	0	0	0	0	0	1	0	1
		Female	0	0	0	0	0	0	0	0	0	0	0	0
3	SOMNOLENCE, STUPOR AND COMA(R40)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	1	0	0	0	0	0	0	0	0	1
4	FEVER OF UNKNOWN ORIGIN(R50)	Male	0	0	2	0	0	3	0	5	4	4	2	20
		Female	0	0	2	1	7	0	0	1	0	2	1	14

TABLE 2: MEDICALLY CERTIFIED DEATHS BY AGE AND SEX ACCORDING TO NATIONAL LIST OF 10TH REVISION OF ICD DURING THE YEAR 2009

KARNATAKA														
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS											
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
5	SENILITY(R54)	Male	0	0	0	0	0	0	0	0	9	253	3	265
		Female	0	0	0	0	0	0	0	0	9	206	10	225
6	SYNCOPE AND COLLAPSE(R55)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0
7	CONVULSIONS, NOT ELSEWHERE CLASSIFIED(R56)	Male	0	0	1	1	2	0	7	5	0	4	0	20
		Female	0	0	0	1	0	0	2	1	0	1	0	5
8	SHOCK, NOT ELSEWHERE CLASSIFIED(R57)	Male	0	0	0	1	6	4	9	10	3	9	3	45
		Female	0	0	0	3	4	2	4	9	5	4	0	31
9	ALL OTHER SYMPTOMS,SIGNS AND ABNORMAL CLINICAL & LABORATORY FINDINGS, NOT ELSEWHERE CLASSIFIED (R00-R09,R11-R17,R19-R39,R41-R49,R51-R53,R58-R99)	Male	0	9	42	80	205	229	299	313	181	621	262	2241
		Female	0	9	20	96	94	99	119	154	107	603	135	1436
XIX	INJURY,POISONING AND CERTAIN OTHER COSEQUENCES OF EXTERNAL CAUSES(S00-T98)	Male	10	77	150	1221	1746	1364	1112	642	221	334	438	7315
		Female	7	67	183	1061	1040	554	314	192	87	217	219	3941
		Total	17	144	333	2282	2786	1918	1426	834	308	551	657	11256
48	FRACTURES(S02,S12,S22,S32,S42,S52,S62,S72,S82,S92,T10,T12,T02,T08)	Male	0	2	4	57	67	49	30	15	28	43	13	308
		Female	0	0	1	8	1	9	9	8	8	30	2	76
		Total	0	2	5	65	68	58	39	23	36	73	15	384
1	FRACTURE OF SKULL AND FACIAL BONES(S02)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0
2	FRACTURE OF NECK,THORAX OR PELVIS(S12,S22,S32 & T08)	Male	0	0	2	15	7	6	7	7	10	25	4	83
		Female	0	0	0	2	0	1	1	5	5	16	2	32
3	FRACTURE OF UPPER LIMB(S42,S52,S62 & T10)	Male	0	0	0	0	0	0	0	0	1	0	0	1
		Female	0	0	0	0	0	0	0	0	0	1	0	1
4	FRACTURE OF LOWER LIMB(S72,S82,S92 & T12)	Male	0	1	0	7	7	3	6	2	3	12	7	48
		Female	0	0	0	0	0	1	2	0	2	12	0	17
5	FRACTURES INVOLVING MULTIPLE BODY REGIONS, AND OF UNSPECIFIED BODY REGION(T02)	Male	0	1	2	35	53	40	17	6	14	6	2	176
		Female	0	0	1	6	1	7	6	3	1	1	0	26
49	DISLOCATIONS,SPRAINS AND STRAINS OF SPECIFIED AND MULTIPLE BODY REGIONS (S03,S13,S23,S33,S43,S53,S63,S73,S83,S93,T03)	Male	0	0	1	12	12	5	16	3	2	4	1	56
		Female	0	0	0	2	1	2	4	2	1	0	0	12
		Total	0	0	1	14	13	7	20	5	3	4	1	68
50	INTRACRANIAL AND INTERNAL INJURIES INCLUDING NERVES(S04,S06,S14 S26-S27,S34,S36-S37,S44,S54,S64,S74,S84 & S94)	Male	3	16	12	134	203	178	199	125	33	49	54	1006
		Female	0	5	20	33	19	36	30	19	9	22	11	204
		Total	3	21	32	167	222	214	229	144	42	71	65	1210



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KARNATAKA														
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS											
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
51	CRUSHING INJURIES AND TRAUMATIC AMPUTATIONS OF SPECIFIED AND MULTIPLE BODY REGIONS (S07-S08,S17-S18,S28,S38,S47-S48,S57,S77-S78,S87-S88, S97-S98,T04-T05)	Male	0	0	0	2	3	4	5	10	2	0	1	27
		Female	0	0	1	0	2	0	1	1	0	2	0	7
		Total	0	0	1	2	5	4	6	11	2	2	1	34
52	OTHER INJURIES OF SPECIFIED,UNSPECIFIED AND MULTIPLE BODY REGIONS(S00-S01, S15-S16,S19-S21,S25,S29-S31,S35,S39-S41,S45-S46,S49,S51,S55-S56,S59-S61,S65-S66, S69-S71,S75-S76,S79-S81,S85-S86,S90-S91,S95-S96,S99,T00-T01,T06-T07,T09,T11,T13-T14)	Male	5	16	48	344	480	405	376	217	97	138	120	2246
		Female	1	4	36	34	53	67	64	68	29	73	20	449
		Total	6	20	84	378	533	472	440	285	126	211	140	2695
53	EFFECTS OF FOREIGN BODY ENTERING THROUGH NATURAL ORIFICE(T15-T19)	Male	0	1	0	0	0	0	0	0	0	0	0	1
		Female	2	2	0	0	0	1	0	0	0	0	0	5
		Total	2	3	0	0	0	1	0	0	0	0	0	6
54	BURNS AND CORROSIONS(T20-T32)	Male	2	16	15	153	272	209	97	44	11	19	74	912
		Female	4	24	64	510	664	295	100	47	20	60	112	1900
		Total	6	40	79	663	936	504	197	91	31	79	186	2812
55	POISONINGS BY DRUGS AND BIOLOGICAL SUBSTANCES,AND TOXIC EFFECTS OF SUBSTANCES CHIEFLY NONMEDICINAL AS TO SOURCE(T36-T50,T51-T65)	Male	0	20	57	484	684	497	368	222	46	76	162	2616
		Female	0	23	49	439	278	135	99	45	20	28	73	1189
		Total	0	43	106	923	962	632	467	267	66	104	235	3805
56	OTHER AND UNSPECIFIED EFFECTS OF EXTERNAL CAUSES AND CERTAIN EARLY COMPLICATION OF TRAUMA (T33-T35,T66-T78 & T79)	Male	0	4	13	34	23	15	21	4	1	4	13	132
		Female	0	7	12	33	22	9	7	2	0	2	1	95
		Total	0	11	25	67	45	24	28	6	1	6	14	227
57	COMPLICATIONS OF SURGICAL AND MEDICAL CARE NOT ELSEWHERE CLASSIFIED(T80-T88)	Male	0	2	0	1	2	2	0	2	1	1	0	11
		Female	0	2	0	2	0	0	0	0	0	0	0	4
		Total	0	4	0	3	2	2	0	2	1	1	0	15
58	LATE EFFECTS OF INJURIES,OF POISONING AND OF OTHER CONSEQUENCES OF EXTERNAL CAUSES(T90-T98)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	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
XX	EXTERNAL CAUSES OF MORBIDITY AND MORTALITY(V01-Y89)	Male	10	77	150	1221	1746	1364	1112	642	221	334	438	7315
		Female	7	67	183	1061	1040	554	314	192	87	217	219	3941
		Total	17	144	333	2282	2786	1918	1426	834	308	551	657	11256
E48	TRANSPORT ACCIDENTS(V01-V99)	Male	5	21	44	332	564	467	442	235	111	143	132	2496
		Female	0	4	46	55	59	83	70	58	30	66	23	494
		Total	5	25	90	387	623	550	512	293	141	209	155	2990
1	RAILWAY ACCIDENTS(V05,V15,V80.6,V81)	Male	0	0	0	2	2	2	1	1	0	0	5	13
		Female	0	0	1	0	0	0	1	1	0	0	0	3
2	MOTOR VEHICLE TRAFFIC ACCIDENTS(V02-V04,V09.2-V09.3,V12-V14, V20-V29, V30-V39 V50-V59, V60-V69, V70-V79, V80.3-V80.5, V82.1, V87.0-V87.5&V87.7-V87.8, V88.0-V88.5 & V89.2)	Male	5	21	44	329	561	464	441	234	111	143	127	2480
		Female	0	4	45	55	59	83	69	57	30	66	23	491

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KARNATAKA															
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS											TOTAL	
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
3	OTHER ROAD VEHICLE ACCIDENTS(V01,V06,V09.0-V09.1,V10-V11,V16-V18,V80.0-V80.1,V82.0,V82.2-V82.9,V87.9,V88.0-V88.5,V88.7-V88.9 & V89.0-V89.1)	Male	0	0	0	0	1	0	0	0	0	0	0	0	1
		Female	0	0	0	0	0	0	0	0	0	0	0	0	0
4	WATER TRANSPORT ACCIDENTS(V90-V94)	Male	0	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0	0
5	AIR AND SPACE TRANSPORT ACCIDENTS(V95-V97)	Male	0	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0	0
6	ALL OTHER TRANSPORT ACCIDENTS(V09.1,V09.9,V19,V83-V86,V89.3,V89.9 & V98-V99)	Male	0	0	0	1	0	1	0	0	0	0	0	0	2
		Female	0	0	0	0	0	0	0	0	0	0	0	0	0
E49	ACCIDENTAL FALLS(W00-W19)	Male	0	3	8	29	19	23	20	20	7	12	3	144	
		Female	0	2	4	5	2	2	6	4	3	11	1	40	
		Total	0	5	12	34	21	25	26	24	10	23	4	184	
E50	ACCIDENTAL DROWNING AND SUBMERSION(W65-W74)	Male	0	4	11	16	3	1	3	3	0	0	1	42	
		Female	0	5	7	5	6	4	2	0	0	1	0	30	
		Total	0	9	18	21	9	5	5	3	0	1	1	72	
E51	EXPOSURE TO SMOKE, FIRE AND FLAMES(X00-X09)	Male	5	19	15	138	252	190	97	46	14	22	68	866	
		Female	4	27	61	473	618	282	88	42	21	57	105	1778	
		Total	9	46	76	611	870	472	185	88	35	79	173	2644	
E52	ACCIDENTAL POISONING BY AND EXPOSURE TO NOXIOUS SUBSTANCES(X40-X49)	Male	0	12	22	253	352	226	188	98	26	37	84	1298	
		Female	0	6	24	251	174	48	49	17	9	9	50	637	
		Total	0	18	46	504	526	274	237	115	35	46	134	1935	
E53	INTENTIONAL SELF-HARM(SUICIDE-ATTEMPTED)(X60-X84)	Male	0	0	4	217	319	228	174	99	10	30	80	1161	
		Female	0	0	6	209	126	72	46	30	5	16	22	532	
		Total	0	0	10	426	445	300	220	129	15	46	102	1693	
E54	ASSAULT(HOMICIDE)(X85-Y09)	Male	0	0	1	10	33	14	7	10	2	0	3	80	
		Female	0	0	0	10	9	4	3	1	0	2	1	30	
		Total	0	0	1	20	42	18	10	11	2	2	4	110	
E55	OTHER VIOLENCE(Y10-Y36)	Male	0	0	4	7	13	9	8	1	1	2	1	46	
		Female	0	0	0	11	10	3	5	3	1	0	0	33	
		Total	0	0	4	18	23	12	13	4	2	2	1	79	
1	EVENT OF UNDERTERMINED INTENT(Y10-Y34)	Male	0	0	4	7	13	9	8	1	1	2	1	46	
		Female	0	0	0	11	10	3	5	3	1	0	0	33	

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KARNATAKA														
MG/ CAT/ SC	CAUSE OF DEATH	SEX	AGE GROUPS											TOTAL
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	LEGAL INTERVENTION(Y35)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0
3	OPERATIONS OF WAR(Y36)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0
E56	COMPLICATIONS OF MEDICAL AND SURGICAL CARE(Y40-Y84)	Male	0	0	1	3	2	0	0	0	0	0	1	7
		Female	0	3	0	1	1	0	0	0	0	0	0	5
		Total	0	3	1	4	3	0	0	0	0	0	1	12
1	DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES CAUSING ADVERSE EFFECTS IN THERAPEUTIC USE (Y40-Y59)	Male	0	0	0	1	0	0	0	0	0	0	1	2
		Female	0	3	0	0	0	0	0	0	0	0	0	3
2	MISADVENTURES DURING SURGICAL AND MEDICAL CARE, ADVERSE INCIDENTS IN DIAGNOSTIC AND THERAPEUTIC USE, ABNORMAL REACTIONS AND LATE COMPLICATIONS(Y60-Y69, Y70-Y82, Y83-Y84)	Male	0	0	1	2	2	0	0	0	0	0	0	5
		Female	0	0	0	1	1	0	0	0	0	0	0	2
E57	OTHER EXTERNAL CAUSES OF ACCIDENTAL INJURY, NOT ELSEWHERE CLASSIFIED (W20-W64, W75-W99, X10-X39, X50-X59)	Male	0	18	40	216	189	206	173	130	50	88	65	1175
		Female	3	20	35	41	35	56	45	37	18	55	17	362
		Total	3	38	75	257	224	262	218	167	68	143	82	1537
1	ACCIDENTS CAUSED BY MACHINERY, AND BY CUTTING PIERCING INSTRUMENTS(W24-W31)	Male	0	0	0	0	1	0	0	0	0	0	0	1
		Female	0	0	0	0	0	0	0	0	0	0	0	0
2	ACCIDENTS CAUSED BY FIREARM MISSILE(W32-W34)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0
3	BITES OF SNAKES AND OTHER VENOMOUS ANIMALS(X20-X27)	Male	0	5	27	32	31	29	18	24	9	9	11	195
		Female	0	15	16	17	18	23	13	3	4	8	6	123
4	SUN STROKE(X32)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0
5	ALL OTHER ACCIDENTS INCLUDING LATE EFFECTS(W20-W23, W35-W64, W75-W99 X10-X19, X28-X29, X30-X31, X33-X39 & X50-X59)	Male	0	13	13	184	157	177	155	106	41	79	54	979
		Female	3	5	19	24	17	33	32	34	14	47	11	239
E58	LATE EFFECTS OF EXTERNAL CAUSES OF MORBIDITY AND MORTALITY(Y85-Y89)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	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
	ALL CAUSES(MAJOR GROUP I TO XIX)	Male	7284	745	860	2472	5215	7641	10611	12322	6471	15429	4033	73083
		Female	4911	685	804	2552	3488	3505	4591	5945	3751	10142	1976	42350
		Total	12195	1430	1664	5024	8703	11146	15202	18267	10222	25571	6009	115433

**TABLE - 3 : MEDICALLY CERTIFIED DEATHS BY SEX AND MAJOR CAUSE GROUPS (BASED UPON TENTH REVISION OF ICD)  
DURING 2004 - 2009**

Major Group No.	Cause of Death	Sex	YEAR					
			2004	2005	2006	2007	2008	2009
1	2	3	4	5	6	7	8	9
I	CERTAIN INFECTIOUS AND PARASITIC DISEASES	M	6738	6978	7531	8512	8183	8317
		F	3269	3430	3801	4152	4365	4646
		<b>T</b>	<b>10007</b>	<b>10408</b>	<b>11332</b>	<b>12664</b>	<b>12548</b>	<b>12963</b>
II	NEOPLASMS	M	2813	2764	3163	3291	4117	4594
		F	2255	1878	2358	2238	2940	3219
		<b>T</b>	<b>5068</b>	<b>4642</b>	<b>5521</b>	<b>5529</b>	<b>7057</b>	<b>7813</b>
III	DISEASES OF THE BLOOD & BLOOD FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM	M	634	749	829	885	999	1005
		F	1106	803	957	916	1024	1049
		<b>T</b>	<b>1740</b>	<b>1552</b>	<b>1786</b>	<b>1801</b>	<b>2023</b>	<b>2054</b>
IV	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES	M	3186	3460	4667	4124	4623	4853
		F	1954	2110	2937	2415	3094	3091
		<b>T</b>	<b>5140</b>	<b>5570</b>	<b>7604</b>	<b>6539</b>	<b>7717</b>	<b>7944</b>
V	MENTAL AND BEHAVIOURAL DISORDERS	M	365	312	195	241	122	100
		F	33	30	34	35	24	38
		<b>T</b>	<b>398</b>	<b>342</b>	<b>229</b>	<b>276</b>	<b>146</b>	<b>138</b>
VI	DISEASES OF THE NERVOUS SYSTEM	M	1780	1698	1659	1824	1929	2117
		F	1061	903	1061	1069	1235	1215
		<b>T</b>	<b>2841</b>	<b>2601</b>	<b>2720</b>	<b>2893</b>	<b>3164</b>	<b>3332</b>
VII	DISEASES OF THE EYE AND ADNEXA	M	5	1	0	0	2	2
		F	1	1	1	0	0	2
		<b>T</b>	<b>6</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>4</b>
VIII	DISEASES OF THE EAR AND MASTOID PROCESS	M	1	3	0	3	2	1
		F	0	1	0	0	0	3
		<b>T</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>4</b>
IX	DISEASES OF THE CIRCULATORY SYSTEM	M	13871	14387	16478	15947	20910	20847
		F	7093	7691	9430	8661	11569	11769
		<b>T</b>	<b>20964</b>	<b>22078</b>	<b>25908</b>	<b>24608</b>	<b>32479</b>	<b>32616</b>
X	DISEASES OF THE RESPIRATORY SYSTEM	M	3043	3349	4075	4883	5665	5639
		F	1393	1535	2066	2141	2864	2980
		<b>T</b>	<b>4436</b>	<b>4884</b>	<b>6141</b>	<b>7024</b>	<b>8529</b>	<b>8619</b>
XI	DISEASES OF THE DIGESTIVE SYSTEM	M	4177	3986	4914	4897	5279	5468
		F	1094	1235	1254	1265	1450	1501
		<b>T</b>	<b>5271</b>	<b>5221</b>	<b>6168</b>	<b>6162</b>	<b>6729</b>	<b>6969</b>
XII	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE	M	394	342	399	395	464	486
		F	207	202	169	198	240	257
		<b>T</b>	<b>601</b>	<b>544</b>	<b>568</b>	<b>593</b>	<b>704</b>	<b>743</b>
XIII	DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE	M	55	48	39	35	51	54
		F	65	59	50	31	58	46
		<b>T</b>	<b>120</b>	<b>107</b>	<b>89</b>	<b>66</b>	<b>109</b>	<b>100</b>
XIV	DISEASES OF THE GENITOURINARY SYSTEM	M	1439	1611	1773	2101	2302	2446
		F	699	871	1030	1089	1195	1379
		<b>T</b>	<b>2138</b>	<b>2482</b>	<b>2803</b>	<b>3190</b>	<b>3497</b>	<b>3825</b>
XV	PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	M	0	0	0	0	0	0
		F	857	574	568	652	649	611
		<b>T</b>	<b>857</b>	<b>574</b>	<b>568</b>	<b>652</b>	<b>649</b>	<b>611</b>
XVI	CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD	M	5017	4760	4278	5173	5555	6204
		F	2785	3160	2988	3361	3831	4127
		<b>T</b>	<b>7802</b>	<b>7920</b>	<b>7266</b>	<b>8534</b>	<b>9386</b>	<b>10331</b>
XVII	CONGENITAL MALFORMATIONS, DEFORMATIONS & CHROMOSOMAL ABNORMALITIES	M	541	528	618.00	663	979	1034
		F	292	389	388.00	486	650	756
		<b>T</b>	<b>833</b>	<b>917</b>	<b>1006</b>	<b>1149</b>	<b>1629</b>	<b>1790</b>
XVIII	SYMPTOMS, SIGNS AND ABNORMAL CLINICAL & LABORATORY FINDINGS, NOT ELSEWHERE CLASSIFIED	M	2581	2224	2930	2838	3122	2601
		F	1555	1331	1957	1804	1911	1720
		<b>T</b>	<b>4136</b>	<b>3555</b>	<b>4887</b>	<b>4642</b>	<b>5033</b>	<b>4321</b>
XIX	INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES	M	5827	5463	5960	7022	7272	7315
		F	3559	2951	3636	3953	4194	3941
		<b>T</b>	<b>9386</b>	<b>8414</b>	<b>9596</b>	<b>10975</b>	<b>11466</b>	<b>11256</b>
<b>ALL CAUSES</b>		M	<b>52467</b>	<b>52663</b>	<b>59508</b>	<b>62834</b>	<b>71576</b>	<b>73083</b>
		F	<b>29278</b>	<b>29154</b>	<b>34685</b>	<b>34466</b>	<b>41293</b>	<b>42350</b>
		<b>T</b>	<b>81745</b>	<b>81817</b>	<b>94193</b>	<b>97300</b>	<b>112869</b>	<b>115433</b>

TABLE-5: PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON OF 10TH REVISION OF ICD DURING THE YEAR 2009

KARNATAKA														
SL.N O.	CAUSE OF DEATH	SEX	AGE GROUPS											
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	CERTAIN INFECTIOUS AND PARASITIC DISEASES(A00-B99)	Male	1.65	31.28	28.84	20.11	19.71	19.42	13.56	10.29	7.53	6.63	12.15	11.38
		Female	2.87	32.85	30.22	16.42	19.72	18.12	13.68	9.76	6.64	5.65	13.41	10.97
		Total	2.14	32.03	29.51	18.23	19.72	19.01	13.60	10.12	7.20	6.24	12.56	11.23
2	NEOPLASMS (C00-D48)	Male	0.07	3.76	5.12	3.28	2.93	3.94	7.71	9.38	11.03	6.84	5.93	6.29
		Female	0.00	2.63	4.10	2.04	4.53	10.04	14.99	12.94	10.61	5.67	8.91	7.60
		Total	0.04	3.22	4.63	2.65	3.57	5.86	9.91	10.54	10.88	6.37	6.91	6.77
3	DISEASES OF THE BLOOD & BLOOD FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM(D50-D89)	Male	0.00	3.09	4.88	3.60	2.07	1.71	1.38	0.97	1.30	1.25	1.74	1.38
		Female	0.00	3.36	3.73	5.92	4.90	3.79	3.09	2.04	2.05	1.35	3.24	2.48
		Total	0.00	3.22	4.33	4.78	3.21	2.37	1.89	1.31	1.58	1.29	2.23	1.78
4	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES(E00-E89)	Male	0.00	1.07	0.81	1.98	2.78	3.52	6.88	9.80	10.34	9.83	6.25	6.64
		Female	0.00	1.61	1.37	2.31	1.83	4.82	7.08	12.33	12.26	10.99	7.29	7.30
		Total	0.00	1.33	1.08	2.15	2.40	3.93	6.94	10.62	11.04	10.29	6.59	6.88
5	MENTAL AND BEHAVIOURAL DISORDERS(F01-F99)	Male	0.00	0.00	0.00	0.12	0.17	0.54	0.15	0.14	0.00	0.04	0.20	0.14
		Female	0.00	0.00	0.00	0.12	0.03	0.20	0.26	0.10	0.08	0.03	0.15	0.09
		Total	0.00	0.00	0.00	0.12	0.11	0.43	0.18	0.13	0.03	0.04	0.18	0.12
6	DISEASES OF THE NERVOUS SYSTEM(G00-G98)	Male	2.33	15.03	13.14	6.11	3.99	3.53	2.85	1.96	1.78	1.96	3.25	2.90
		Female	2.67	12.99	10.20	4.82	3.13	4.14	2.53	1.85	1.76	1.84	2.88	2.87
		Total	2.47	14.06	11.72	5.45	3.64	3.72	2.75	1.93	1.77	1.92	3.13	2.89
7	DISEASES OF THE EYE AND ADNEXA(H00-H59)	Male	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
		Female	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Total	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.00
8	DISEASES OF THE EAR AND MASTOID PROCESS(H60-H95)	Male	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Female	0.00	0.00	0.25	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.01
		Total	0.00	0.00	0.18	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
9	DISEASES OF THE CIRCULATORY SYSTEM(I00-I99)	Male	0.11	0.94	2.56	2.99	12.41	21.06	29.49	36.87	39.82	44.92	32.26	28.53
		Female	0.06	1.61	3.23	3.17	10.46	20.11	29.47	37.07	42.26	47.55	31.02	27.79
		Total	0.09	1.26	2.88	3.09	11.63	20.76	29.48	36.94	40.72	45.96	31.85	28.26
10	DISEASES OF THE RESPIRATORY SYSTEM(J00-J98)	Male	0.00	10.07	5.23	5.22	5.31	6.73	6.49	8.67	10.03	12.01	8.43	7.72
		Female	0.00	10.36	6.59	5.09	6.31	8.16	7.56	7.40	8.69	9.48	7.39	7.04
		Total	0.00	10.21	5.89	5.16	5.71	7.18	6.81	8.26	9.54	11.00	8.09	7.47



**TABLE-6: PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS OVER AGE GROUPS BY SEX AND MAJOR CAUSE GROUPS  
(BASED UPON TENTH REVISION OF ICD) DURING 2009**

Major Group No.	Cause of Death	Sex	AGE-GROUPS											TOTAL
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+	NS	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
I	CERTAIN INFECTIOUS AND PARASITIC DISEASES	M	1.4	2.8	3.0	6.0	12.4	17.8	17.3	15.2	5.9	12.3	5.9	100.00
		F	3.0	4.8	5.2	9.0	14.8	13.7	13.5	12.5	5.4	12.3	5.7	100.00
		<b>T</b>	<b>2.0</b>	<b>3.5</b>	<b>3.8</b>	<b>7.1</b>	<b>13.2</b>	<b>16.3</b>	<b>15.9</b>	<b>14.3</b>	<b>5.7</b>	<b>12.3</b>	<b>5.8</b>	<b>100.00</b>
II	NEOPLASMS	M	0.1	0.6	1.0	1.8	3.3	6.6	17.8	25.2	15.5	23.0	5.2	100.00
		F	0.0	0.6	1.0	1.6	4.9	10.9	21.4	23.9	12.4	17.9	5.5	100.00
		<b>T</b>	<b>0.1</b>	<b>0.6</b>	<b>1.0</b>	<b>1.7</b>	<b>4.0</b>	<b>8.4</b>	<b>19.3</b>	<b>24.6</b>	<b>14.2</b>	<b>20.9</b>	<b>5.3</b>	<b>100.00</b>
III	DISEASES OF THE BLOOD & BLOOD FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM	M	0.0	2.3	4.2	8.9	10.7	13.0	14.5	11.8	8.4	19.2	7.0	100.00
		F	0.0	2.2	2.9	14.4	16.3	12.7	13.5	11.5	7.3	13.1	6.1	100.00
		<b>T</b>	<b>0.0</b>	<b>2.2</b>	<b>3.5</b>	<b>11.7</b>	<b>13.6</b>	<b>12.9</b>	<b>14.0</b>	<b>11.7</b>	<b>7.8</b>	<b>16.1</b>	<b>6.5</b>	<b>100.00</b>
IV	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES	M	0.0	0.2	0.1	1.0	3.0	5.5	15.0	24.9	13.8	31.3	5.2	100.00
		F	0.0	0.4	0.4	1.9	2.1	5.5	10.5	23.7	14.9	36.1	4.7	100.00
		<b>T</b>	<b>0.0</b>	<b>0.2</b>	<b>0.2</b>	<b>1.4</b>	<b>2.6</b>	<b>5.5</b>	<b>13.3</b>	<b>24.4</b>	<b>14.2</b>	<b>33.1</b>	<b>5.0</b>	<b>100.00</b>
V	MENTAL AND BEHAVIOURAL DISORDERS	M	0.0	0.0	0.0	3.0	9.0	41.0	16.0	17.0	0.0	6.0	8.0	100.00
		F	0.0	0.0	0.0	7.9	2.6	18.4	31.6	15.8	7.9	7.9	7.9	100.00
		<b>T</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>4.3</b>	<b>7.2</b>	<b>34.8</b>	<b>20.3</b>	<b>16.7</b>	<b>2.2</b>	<b>6.5</b>	<b>8.0</b>	<b>100.00</b>
VI	DISEASES OF THE NERVOUS SYSTEM	M	8.0	5.3	5.3	7.1	9.8	12.8	14.3	11.4	5.4	14.3	6.2	100.00
		F	10.8	7.3	6.7	10.1	9.0	11.9	9.5	9.1	5.4	15.4	4.7	100.00
		<b>T</b>	<b>9.0</b>	<b>6.0</b>	<b>5.9</b>	<b>8.2</b>	<b>9.5</b>	<b>12.5</b>	<b>12.5</b>	<b>10.6</b>	<b>5.4</b>	<b>14.7</b>	<b>5.6</b>	<b>100.00</b>
VII	DISEASES OF THE EYE AND ADNEXA	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.00
		F	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00
		<b>T</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100.00</b>
VIII	DISEASES OF THE EAR AND MASTOID PROCESS	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00
		F	0.0	0.0	66.7	0.0	0.0	0.0	33.3	0.0	0.0	0.0	0.0	100.00
		<b>T</b>	<b>0.0</b>	<b>0.0</b>	<b>75.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>25.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100.00</b>
IX	DISEASES OF THE CIRCULATORY SYSTEM	M	0.0	0.0	0.1	0.4	3.1	7.7	15.0	21.8	12.4	33.2	6.2	100.00
		F	0.0	0.1	0.2	0.7	3.1	6.0	11.5	18.7	13.5	41.0	5.2	100.00
		<b>T</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.5</b>	<b>3.1</b>	<b>7.1</b>	<b>13.7</b>	<b>20.7</b>	<b>12.8</b>	<b>36.0</b>	<b>5.9</b>	<b>100.00</b>
X	DISEASES OF THE RESPIRATORY SYSTEM	M	0.0	1.3	0.8	2.3	4.9	9.1	12.2	18.9	11.5	32.9	6.0	100.00
		F	0.0	2.4	1.8	4.4	7.4	9.6	11.6	14.8	10.9	32.2	4.9	100.00
		<b>T</b>	<b>0.0</b>	<b>1.7</b>	<b>1.1</b>	<b>3.0</b>	<b>5.8</b>	<b>9.3</b>	<b>12.0</b>	<b>17.5</b>	<b>11.3</b>	<b>32.6</b>	<b>5.6</b>	<b>100.00</b>

**TABLE-6: PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS OVER AGE GROUPS BY SEX AND MAJOR CAUSE GROUPS  
(BASED UPON TENTH REVISION OF ICD) DURING 2009**

Major Group No.	Cause of Death	Sex	AGE-GROUPS											NS	TOTAL
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-69	70+			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
XI	DISEASES OF THE DIGESTIVE SYSTEM	M	0.0	0.3	0.4	1.6	9.0	19.3	26.2	20.3	7.3	10.2	5.5	100.00	
		F	0.0	0.5	0.6	4.8	9.9	15.5	17.7	19.3	10.1	17.7	4.0	100.00	
		<b>T</b>	<b>0.0</b>	<b>0.3</b>	<b>0.4</b>	<b>2.3</b>	<b>9.2</b>	<b>18.5</b>	<b>24.3</b>	<b>20.1</b>	<b>7.9</b>	<b>11.8</b>	<b>5.2</b>	<b>100.00</b>	
XII	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE	M	0.0	0.0	0.0	0.0	4.9	7.8	16.9	23.5	14.4	26.7	5.8	100.00	
		F	0.0	0.0	0.0	0.0	11.7	8.6	12.5	21.4	14.8	27.6	3.5	100.00	
		<b>T</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>7.3</b>	<b>8.1</b>	<b>15.3</b>	<b>22.7</b>	<b>14.5</b>	<b>27.1</b>	<b>5.0</b>	<b>100.00</b>	
XIII	DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE	M	0.0	0.0	0.0	0.0	1.9	18.5	16.7	25.9	16.7	7.4	13.0	100.00	
		F	0.0	0.0	0.0	0.0	4.3	8.7	15.2	21.7	8.7	34.8	6.5	100.00	
		<b>T</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>3.0</b>	<b>14.0</b>	<b>16.0</b>	<b>24.0</b>	<b>13.0</b>	<b>20.0</b>	<b>10.0</b>	<b>100.00</b>	
XIV	DISEASES OF THE GENITOURINARY SYSTEM	M	0.0	0.2	0.3	0.3	6.6	13.0	16.0	19.9	11.4	25.8	6.5	100.00	
		F	0.0	0.3	0.3	0.2	8.0	8.3	17.1	19.6	13.3	27.7	5.1	100.00	
		<b>T</b>	<b>0.0</b>	<b>0.2</b>	<b>0.3</b>	<b>0.3</b>	<b>7.1</b>	<b>11.3</b>	<b>16.4</b>	<b>19.8</b>	<b>12.1</b>	<b>26.5</b>	<b>6.0</b>	<b>100.00</b>	
XV	PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	F	0.0	0.0	0.0	48.3	44.8	6.9	0.0	0.0	0.0	0.0	0.0	100.00	
		<b>T</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>48.3</b>	<b>44.8</b>	<b>6.9</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100.00</b>	
XVI	CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00	
		F	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00	
		<b>T</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100.00</b>	
XVII	CONGENITAL MALFORMATIONS, DEFORMATIONS & CHROMOSOMAL ABNORMALITIES	M	74.2	14.8	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00	
		F	66.4	19.7	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00	
		<b>T</b>	<b>70.9</b>	<b>16.9</b>	<b>12.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100.00</b>	
XVIII	SYMPTOMS,SIGNS AND ABNORMAL CLINICAL & LABORATORY FINDINGS, NOT ELSEWHERE CLASSIFIED	M	0.0	0.3	1.7	3.2	8.2	9.2	12.2	12.9	7.6	34.4	10.4	100.00	
		F	0.0	0.5	1.3	6.0	6.1	6.0	7.3	9.6	7.2	47.5	8.5	100.00	
		<b>T</b>	<b>0.0</b>	<b>0.4</b>	<b>1.6</b>	<b>4.3</b>	<b>7.4</b>	<b>7.9</b>	<b>10.2</b>	<b>11.6</b>	<b>7.4</b>	<b>39.6</b>	<b>9.7</b>	<b>100.00</b>	
XIX	INJURY,POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES	M	0.1	1.1	2.1	16.7	23.9	18.6	15.2	8.8	3.0	4.6	6.0	100.00	
		F	0.2	1.7	4.6	26.9	26.4	14.1	8.0	4.9	2.2	5.5	5.6	100.00	
		<b>T</b>	<b>0.2</b>	<b>1.3</b>	<b>3.0</b>	<b>20.3</b>	<b>24.8</b>	<b>17.0</b>	<b>12.7</b>	<b>7.4</b>	<b>2.7</b>	<b>4.9</b>	<b>5.8</b>	<b>100.00</b>	
<b>ALL CAUSES</b>		M	10.0	1.0	1.2	3.4	7.1	10.5	14.5	16.9	8.9	21.1	5.5	100.00	
		F	11.6	1.6	1.9	6.0	8.2	8.3	10.8	14.0	8.9	23.9	4.7	100.00	
		<b>T</b>	<b>10.6</b>	<b>1.2</b>	<b>1.4</b>	<b>4.4</b>	<b>7.5</b>	<b>9.7</b>	<b>13.2</b>	<b>15.8</b>	<b>8.9</b>	<b>22.2</b>	<b>5.2</b>	<b>100.00</b>	



## MAJOR GROUPS AND THE DESCRIPTION OF ICD-10 CODES

The classification of diseases may be defined as a system of categories to which morbid entitles are assigned according to established criteria. The Tenth Revision of International Classification of Diseases (ICD-10) is a single coded list of three-character categories, each of which can be further divided into up to ten four-character subcategories. In place of the purely numeric coding system of ICD-9, ICD-10 uses alphanumeric code with a letter in the first position and a number in the second, third and fourth positions; the fourth character follows a decimal point. The code numbers can range from A00.0 to Z99.9. The letter U is not used and is kept blank for use in future. Codes U00-U49 is kept reserved to be used for the provisional assignment of new diseases of uncertain etiology. Codes U50-U99 may be used in research, e.g. when testing an alternative sub-classification for a special project.

2. The National list for tabulation of morbidity and Mortality based on the Ninth Revision of ICD-9, 1975 was adopted in MCCD from 1980 to 1998. Subsequently, the World Health Organisation (WHO) brought out 10<sup>th</sup> Revision of International Classification of Diseases (ICD) and the National List for tabulation of Morbidity ad Mortality data, based on ICD-10 has been finalised in consultation with the states to meet their requirements and has been adopted from 1999 onward for MCCD Report. The list based on ICD-10 comprises of 20 major groups, 69 categories and 193 sub-categories of causes as compared to 18 major groups including supplementary classification of Injury & poisoning, 66 categories and 194 sub-categories of causes (includes few single causes) of national list based on ICD-9. Chapters, Blocks of three-character categories and group of three/four-character categories of ICD-10 have been considered as Major Groups, Categories and sub-categories respectively in the national list.

3. As per the recommendations of the ICD-10, data on “Medical Certification of Cause of Death” have been tabulated for a total of 69 categories of causes under Major Groups I to XX of National List including External Causes of morbidity and mortality.

### NATIONAL LIST BASED ON ICD-10

#### Major Groups I to XIX :

1. Categories-58 (Group of three-character categories)
2. Sub-categories-177 (Group of  $\frac{3}{4}$  - character categories and  $\frac{3}{4}$  - character single category)

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#### Major Groups I to XX : External Causes of Morbidity & Mortality

3. Categories-11 (Group of three – character categories)
4. Sub-categories-16 (Group of  $\frac{3}{4}$  - character categories and  $\frac{3}{4}$  - character single category)

The descriptions for all Major Groups of the National list based on ICD-10 are as under :

<b>Major Cause Groups</b>	<b>DESCRIPTION AND ICD CODES</b>
I	Certain Infectious and Parasitic diseases (A00-B99)
II	Neoplasms (C00-D48)
III	Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism (D50-D89)
IV	Endocrine, nutritional and metabolic diseases (E00-E89)
V	Mental and behavioral disorders (F01-F99)
VI	Diseases of the nervous system (G00-G98)
VII	Diseases of the eye and Adnexa (H00-H59)
VIII	Diseases of the ear and mastoid process (H60-H95)
IX	Diseases of the circulatory system (I00-I99)
X	Diseases of the respiratory system (J00-J98)
XI	Diseases of the digestive system (K00-K92)
XII	Diseases of the skin and subcutaneous tissue (L00-L98)
XIII	Diseases of the musculoskeletal system and connective tissue (M00-M99)
XIV	Diseases of the genitourinary system (N00-N99)
XV	Pregnancy, childbirth and the puerperium (O00-O99)
XVI	Certain conditions originating in the perinatal period (P00-P96)
XVII	Congenital malformations, deformation and chromosomal abnormalities (Q00-Q99)
XVIII	Symptoms, signs and abnormal clinical and laboratory findings, n.e.c. (R00-R99)
XIX	Injury, poisoning and certain other consequences of external causes (S00-T98)
XX	External causes of morbidity and mortality (V01-Y89)
*XXI	Factors influencing health status and contact with health services (Z00-Z99)

\* Not in use in India