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GOVERNMENT OF KARNATAKA

**REPORT
ON
MEDICAL CERTIFICATION OF
CAUSE OF DEATH
2016**



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

PREFACE

The Report for the year 2016 is the thirty-sixth 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.

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. This report is based on the data on medically certified deaths received from Teaching, District, Specialised and General hospitals of the Karnataka State. Data on medically certified deaths received from 1719 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 six 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. My sincere thanks are also placed on record for the efforts made by Sri. S.O. Narayanappa, Joint Chief Registrar, Smt. G.Vanajakshi, Assistant Director, Smt. N.Yashoda, Assistant Chief Registrar, Smt. R. Dakshayini, Assistant Statistical Officer and the data entry staff involved, under the overall supervision and guidance of Sri. C.Kempaiah, Chief Registrar of Births and Deaths, in bringing out this report.

Suggestions for improvement of the publication are most welcome.

BENGALURU
Date:22.12.2017

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DIRECTOR (I/C)

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EXECUTIVE SUMMARY

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. Section 10(2) of the Act empowers the State government to enforce the provision relating to Medical Certification of Cause of Death (MCCD) 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 deceased at the time of death.

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 (WHO) 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 (ICD). 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 – 2016 is based upon 146524 (Males: 94114 and Females: 52410) medically certified deaths (34.82 per cent of total registered deaths) supplied by 1719 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.

Overall Findings:

During the year 2016, following are eight leading cause groups of deaths constituting around 86.32 per cent of total deaths:

- I. Diseases of Circulatory System (29.44 per cent) (31.81 per cent in 2015)*
- II. Injury, Poisoning and certain other consequences of External causes (10.75 per cent) (11.13 per cent in 2015)*
- III. Certain Infectious and Parasitic diseases (9.51 per cent) (9.39 per cent in 2015)*
- IV. Neoplasm (9.07 per cent) (7.80 per cent in 2015)*

V. *Diseases of the Respiratory System* (8.65 per cent)
(8.53 per cent in 2015).

VI. *Diseases of the Digestive System* (6.61 per cent) (6.86 per cent in 2015)

VII. *Endocrine, Nutritional and Metabolic Diseases* (6.43 per cent)
(5.55 per cent in 2015)

VIII. *Certain condition originating in the perinatal period* (5.85 per cent)
(5.91 per cent in 2015)

- Among the “Diseases of the circulatory system” deaths, “*Ischaemic Heart Diseases*” (IHD) account for the highest number of deaths (34.17 per cent). Around every 11th medically certified death has been reported to be caused by Ischemic Heart Disease alone.
- The second leading cause group “*Injury, Poisoning and certain other consequences of External causes*” has a major constituent “*Other injuries of specified, Unspecified and Multiple Body regions*” contributing around 33.41 per cent of the total deaths under this cause group and 3.59 per cent of total medically certified deaths.
- Under the third leading group “*Certain Infectious and Parasitic Diseases*” accounting for 9.51 per cent of the total medically certified deaths. “*Respiratory Tuberculosis*” accounts for 33.11 per cent of the deaths under the group and 3.15 per cent of total medically certified deaths.
- The major group, *Neoplasms (cancer)* is the fourth leading cause accounting for 9.07 per cent of the total medically certified deaths, of which “*Malignant Neoplasm of digestive organs*” accounts for 29.87 per cent which accounts for more than one-fourth of deaths.
- The fifth leading cause group “*Diseases of the Respiratory System*” is responsible for 8.65 per cent of the total medically certified deaths. “*Other Lower Respiratory Disorders*” accounting for around 37.53 per cent of the total deaths. The other major cause in this group is “*Pneumonia*” Causing 19.51 per cent of death, under total medically certified deaths, *this* alone accounts for 1.69 per cent.
- The Sixth leading cause group “*Diseases of Digestive System*” accounting for 6.61 per cent of the total medically certified deaths. Among the deaths due to disorders of digestive system “*Diseases of the Liver*” alone accounts for 62.94 per cent of the total deaths in this group.
- The group of “*Endocrine, Nutritional and Metabolic Diseases*” is the seventh leading cause group accounting for 6.43 per cent of the total medically certified deaths. Under this cause group, “*Diabetes Mellitus*” group alone accounts for

90.43 per cent of total deaths reported and 5.82 per cent of total medically certified deaths.

- The major group “*Certain Conditions Originating in the Perinatal period*” is the eighth leading cause accounting for 5.85 per cent of the total medically certified deaths. “*Slow fetal growth, fetal Malnutrition and Immaturity*” accounts for 41.72 per cent of the deaths under the group and 2.44 percent of total medically certified deaths.
- In 2015, total Medically certified deaths was 146414 out of this male was 93957. Compared to 2015, in 2016 there is 0.17 percentage increase in total Medically certified deaths.

Age-wise: [TABLE-2]

- Every Seventh reported medically certified deaths has been of the infants (age less than 1 year).
- About 83.86 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 “*Congenital Malformations, Deformations & Chromosomal Abnormalities*” have taken the highest toll of 26.30 per cent. In the age group 5-14 years “*Certain Infectious and Parasitic Diseases*” also claimed the topmost position with the share of 27.98 per cent.
- In the age-groups 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 45.13 per cent and 32.05 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 “*Injury, Poisoning and certain other consequences of External causes*” are having shares of 21.40 and 20.36 per cent respectively.
- For all the age-groups of 45 years and above “*Diseases of Circulatory System*” is the first leading cause of death (37.34 per cent). 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 26.96 per cent to 42.31 per cent.
- The highest number of deaths (33412 i.e., 22.80 per cent of total) as expected 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 64.23 per cent and 35.76 per cent respectively.
- There is no significant difference for females as far as eight leading causes are concerned, except for Diseases of the Digestive System and Injury, Poisoning and Certain other Consequences of External Causes deaths.
- The percentage of female Neoplasm deaths to total female medically certified deaths is 10.73 per cent as compared to the corresponding male figure of 8.14 per cent. On the contrary, the percentage of female digestive system deaths to total female medically certified deaths is just 3.60 per cent as compared to the corresponding male figure of 8.29 per cent.

CHAPTER - I

INTRODUCTION

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 forms an integral part of the Vital Statistics System which 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 manmade 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 10th 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 4 chapters and 3 appendices. Chapters II, III and IV deals with '*Scheme of Medical Certification of Cause of Death: Status of implementation*', '*Distribution of Deaths by Cause*' and '*Specific Cause of Mortality in different age group*' respectively. Appendix-I contains detailed Statistical tables for ready reference.

CHAPTER – II

SCHEME OF MCCD :

STATUS OF IMPLEMENTATION

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 2016, 1719 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 Chief Registrar of Births and Deaths Office. They were scrutinised & coded as per ICD-10th 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 As per the reported information, the number of hospitals covered and reporting data on MCCD, District-wise and Sex-wise classification in the State is presented in the **Statement-1**.

Statement - 1

DISTRICTWISE AND SEXWISE DISTRIBUTION OF NUMBER OF MEDICALLY CERTIFIED DEATHS - 2016

Sl. No	District Name	No. of Hospitals	Male	Female	Total
1	Bagalkote	67	1741	878	2619
2	Bangalore(U)	696	32185	18825	51010
3	Bangalore(R)	17	450	239	689
4	Belgaum	88	5265	2550	7815
5	Bellary	45	2820	1643	4463
6	Bidar	16	994	592	1586
7	Bijapur	45	1511	889	2400
8	Chamarajanagar	13	297	128	425
9	Chikballapur	16	461	271	732
10	Chikmagalur	28	701	395	1096
11	Chitradurga	21	1466	848	2312
12	D.Kannada	96	7256	3896	11152
13	Davanagere	25	3474	2099	5573
14	Dharwad	78	5605	3225	8830
15	Gadag	38	1822	1122	2944
16	Gulbarga	23	1645	950	2595
17	Hassan	25	1893	917	2810
18	Haveri	20	730	361	1091
19	Kodagu	18	439	228	667
20	Kolar	20	2036	1082	3118
21	Koppal	14	355	210	565
22	Mandya	28	1864	1005	2869
23	Mysore	44	7977	4225	12202
24	Raichur	21	1831	1009	2840
25	Ramanagara	13	95	40	135
26	Shimoga	59	3029	1582	4611
27	Tumkur	38	1815	937	2752
28	Udupi	54	2683	1337	4020
29	U.Kannada	48	1611	903	2514
30	Yadgir	5	65	24	89
	Total	1719	94114	52410	146524

2.5 During 2016, a total of 146524 medically certified deaths were reported, of which 94114 and 52410 pertained to males and females respectively. Among 4345 hospitals in the State 1719 (39.56%) hospitals were covered under Medical Certification of Cause of Death.

Out of 696 hospitals in Bangalore district, the district had reported 51010 deaths covering 34.81 per cent of total deaths.

The next highest number of hospitals (96) in Dakshina Kannada district covered under Medical Certification of Cause of Death accounted for 11152 deaths (7.61 per cent).

Less than 500 deaths were reported in the districts of Chamarajanagar (0.29%), Ramanagar (0.09%) and Yadgir (0.06%).

Growth in the Medical Certification of Cause of Death:

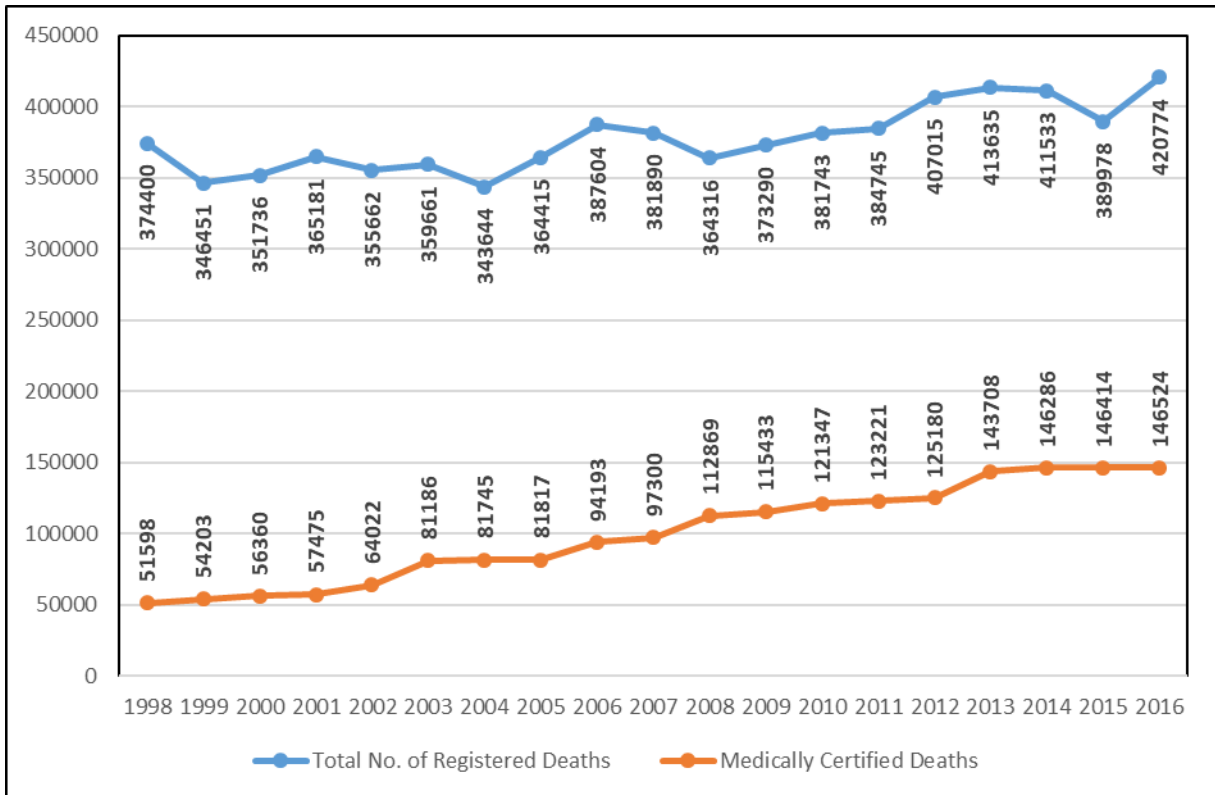
2.6 The time series data on MCCD for the year 1998 to 2016 reveals a significant long-term growth in absolute numbers of medically certified cases. The share of medically certified deaths in total registered deaths has been fluctuating over the years. It was 13.78 per cent during the year 1998 and highest with 37.54 per cent during the year 2015. The growth in MCCD during the last 19 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
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	373290	115433	30.92
2010	381743	121347	31.79
2011	384745	123221	32.03
2012	407015	125180	30.76
2013	413635	143708	34.74
2014	411533	146286	34.84
2015	389978	146414	37.54
2016	420774	146524	34.82

CHART - 1

Growth in MCCD in Karnataka 1998 - 2016



CHAPTER – III

SCHEME OF MCCD :

DISTRIBUTION OF DEATHS

BY CAUSE

CHAPTER – III

Distribution of Deaths by Causes

3.1 The data on Medical Certification of Cause of Death has been presented as per the National list based on 10th 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 1719 hospitals by age, sex and major cause groups. During 2016, a total of 146524 medically certified deaths were reported, of which 94114 and 52410 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

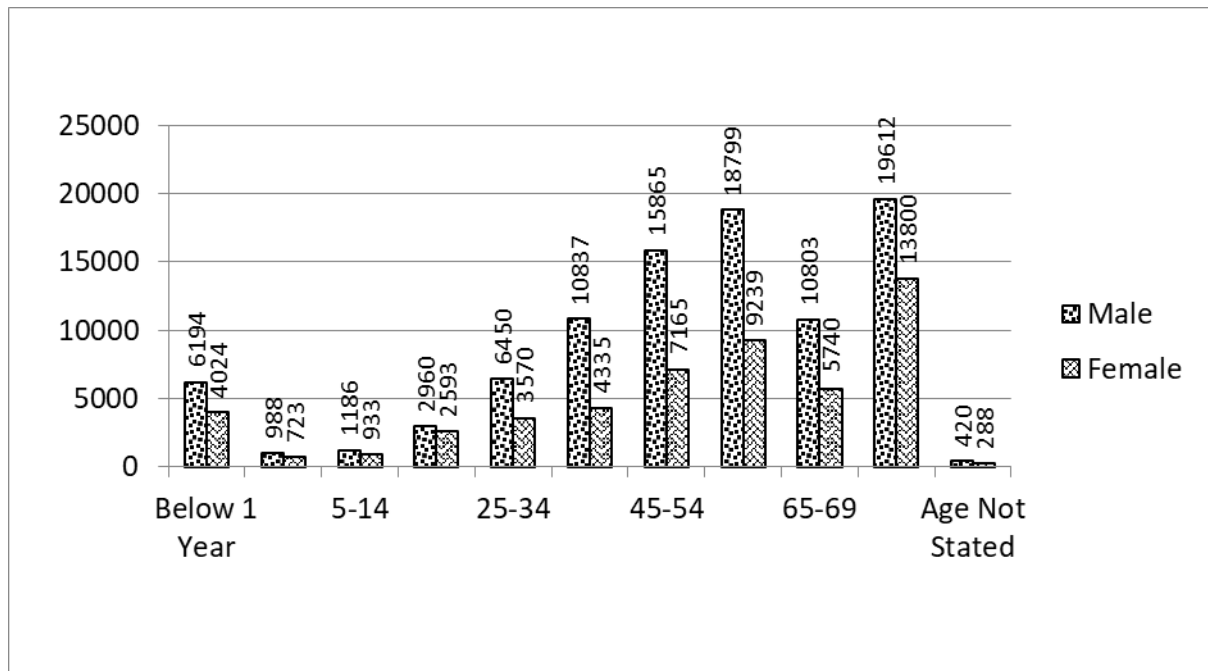
Age and Sex Distribution of Medically Certified Deaths – 2016

Sl. No	Age Group	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	Below 1 Year	6194	6.58	4.23	4024	7.68	2.75	10218	6.97
2	1-4	988	1.05	0.67	723	1.38	0.49	1711	1.17
3	5-14	1186	1.26	0.81	933	1.78	0.64	2119	1.45
4	15-24	2960	3.15	2.02	2593	4.95	1.77	5553	3.79
5	25-34	6450	6.85	4.40	3570	6.81	2.44	10020	6.84
6	35-44	10837	11.51	7.40	4335	8.27	2.96	15172	10.35
7	45-54	15865	16.86	10.83	7165	13.67	4.89	23030	15.72
8	55-64	18799	19.97	12.83	9239	17.63	6.31	28038	19.14
9	65-69	10803	11.48	7.37	5740	10.95	3.92	16543	11.29
10	70 & above	19612	20.84	13.38	13800	26.33	9.42	33412	22.80
11	Age Not Stated	420	0.45	0.29	288	0.55	0.20	708	0.48
	Total	94114	100.00	64.23	52410	100.00	35.77	146524	100.00

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

Chart - 2

DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS BY AGE AND SEX UNDER MCCD – 2016



3.2 Statement-3 indicates the contribution of male and female deaths in the total medically certified cases were reported to be 64.23 per cent and 35.77 per cent respectively. It seems that more males are admitted to hospital during last moments as compared to females. Among the males those who crossed 70 years stood first followed by those in the age group 55-64 and 45-54 years. These three age-groups put together formed 57.66 per cent of deaths. Age group 35-44 years also had a significant place with 11.51 per cent. Infant deaths occupied the 7th place (6.58 per cent). Least vulnerable were those in the age group 1-4 years (1.05 per cent).

Among the females also 70 plus had the largest share, followed by those in the age group 55-64 years. Both put together contributed 43.95 per cent deaths. Infant deaths took 6th position with 7.68 per cent, 20.03 per cent deaths were from the prime age group of 15-44 years. Least vulnerable was again in the age group 1-4 years (1.38 per cent).

3.3 The Eight leading cause groups of deaths viz., *Diseases of the circulatory system (I00-I99)*, *Injury, Poisoning and certain other consequences of external causes (S00-T98)*, *Certain Infectious and Parasitic Diseases (A00-B99)*, *Neoplasm (C00-D48)*, *Diseases of the Respiratory System (J00-J98)*, *Diseases of the Digestive System (K00-K92)*, *Endocrine, Nutritional and Metabolic Diseases (E00-E89)*, and *Certain conditions originating in the perinatal period (P00-P96)* and had taken together account for about 86.32 per cent of the total medically certified deaths which is detailed in **Statement-4**.

3.4 Among the leading cause groups, *'Diseases of Circulatory System'* constitute the maximum i.e. **29.44 per cent** of total medically certified deaths, followed by *'Injury, Poisoning and Certain Other Consequences of External Causes'* **10.75 per cent**, *'Certain Infectious and Parasitic Diseases'* constitute **9.51 per cent** and *'Neoplasms'* **9.07 per cent**, *'Diseases of Respiratory System'* constitute **8.65 per cent**, followed by *'Diseases of the Digestive System'* constitute **6.61 per cent**, *'Endocrine, Nutritional and Metabolic Diseases'* constitute **6.43 percent**, and *'Certain Conditions Originating in the Perinatal Period'* constitute **5.85 percent** of the total Medically Certified deaths.

In respect of eight leading causes of death the gender difference is not significant. However, Sexwise distribution of the medically certified deaths shows that the percentage of male deaths are on a higher side, in case of Injury, Poisoning and Certain other Consequences of External Causes (S00-T98), Diseases of Respiratory System (J00-J98) and Diseases of Digestive System (K00-K92) compared to corresponding female figures, but in case of Endocrine, Nutritional and Metabolic Diseases (E00-E89) the percentage of female deaths is higher compared to male deaths. The percentage distribution of medically certified deaths by leading cause groups is depicted in **Chart-3**.

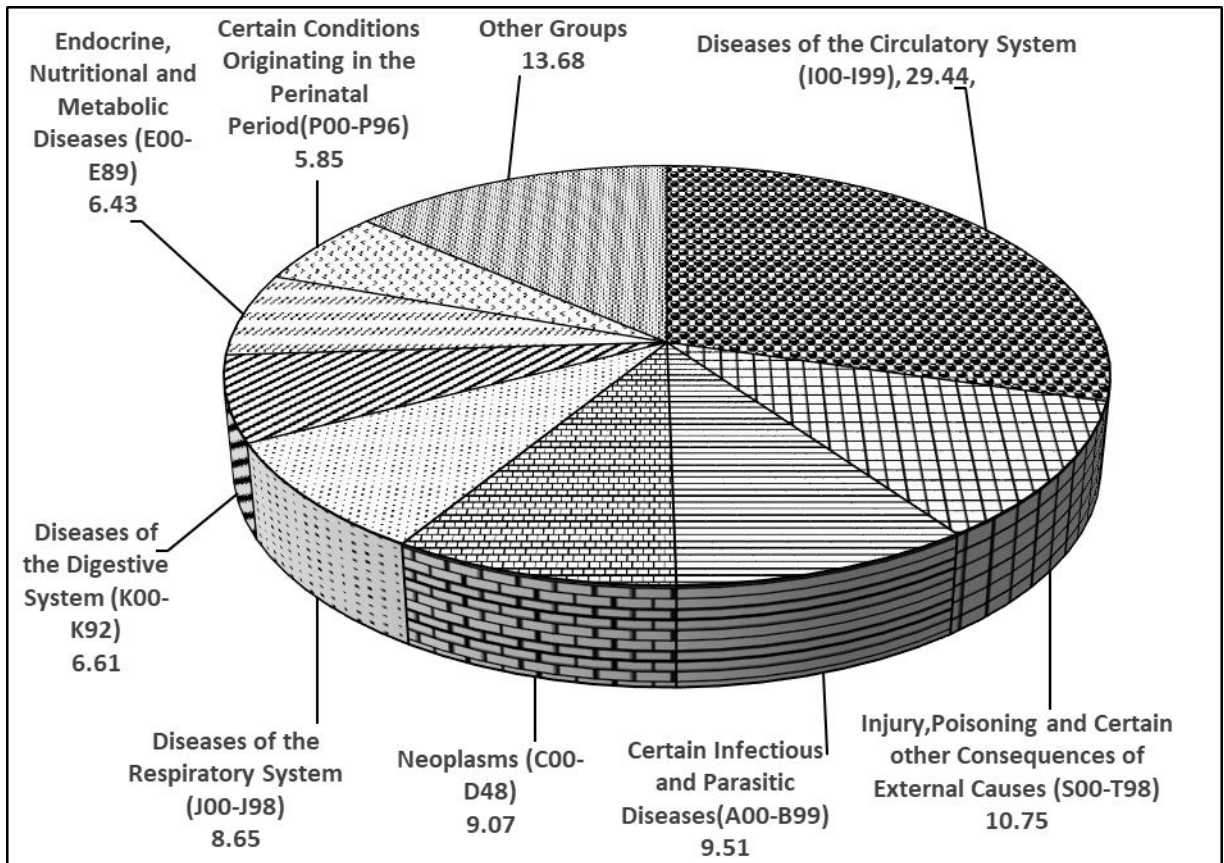
Statement-4

Distribution of Medically Certified Deaths by Sex and Eight Leading Cause-Groups during -2016

Sl. No	Major Cause Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Diseases of the Circulatory System (I00-I99)	27504	29.22	15639	29.84	43143	29.44
2	Injury, Poisoning and Certain other Consequences of External Causes (S00-T98)	10899	11.58	4855	9.26	15754	10.75
3	Certain Infectious and Parasitic Diseases(A00-B99)	9085	9.65	4855	9.26	13940	9.51
4	Neoplasms (C00-D48)	7659	8.14	5625	10.73	13284	9.07
5	Diseases of the Respiratory System (J00-J98)	8517	9.05	4156	7.93	12673	8.65
6	Diseases of the Digestive System (K00-K92)	7801	8.29	1889	3.60	9690	6.61
7	Endocrine, Nutritional and Metabolic Diseases(E00-E89)	5464	5.81	3962	7.56	9426	6.43
8	Certain Conditions Originating in the Perinatal Period(P00-P96)	5160	5.48	3410	6.51	8570	5.85
9	Other Groups	12025	12.78	8019	15.30	20044	13.68
	Total	94114	100.00	52410	100.00	146524	100.00

Chart - 3

**PERCENTAGE DISTRIBUTION OF DEATHS UNDER MCCD
BY LEADING CAUSE GROUP – 2016**



3.5 The percentage distribution of eight major cause groups of death for the period 2000 to 2016 is presented in the **Statement-5**.

Statement – 5
Percentage Distribution of 8 leading Major Cause Groups of Deaths during
2000 - 2016

Year	Leading major cause groups of deaths (As per ICD-10)									
	Diseases of the circulatory system	Injury Poisoning & certain other consequences of external causes	Certain Infectious and Parasitic Diseases	Neo-plasm	Diseases of the Respiratory System	Diseases of the Digestive System	Endocrine, Nutritional & Metabolic Diseases	Certain conditions originating in the Perinatal period	Other Groups	Total
2000	26.31	9.21	15.16	3.85	6.42	7.25	4.68	10.27	16.85	100.00
2001	24.98	15.03	13.12	4.95	5.04	6.15	5.05	10.49	15.19	100.00
2002	25.32	13.63	12.32	4.45	5.22	6.26	5.95	10.39	16.46	100.00
2003	25.56	11.62	12.32	5.36	5.52	6.29	6.39	10.01	16.93	100.00
2004	25.65	11.48	12.24	6.2	5.43	6.45	6.29	9.54	16.72	100.00
2005	26.98	10.28	12.72	5.67	5.97	6.38	6.81	9.68	15.51	100.00
2006	27.51	10.19	12.03	5.86	6.52	6.55	8.07	7.71	15.56	100.00
2007	25.29	11.28	13.02	5.68	7.22	6.33	6.72	8.77	15.69	100.00
2008	28.78	10.16	11.12	6.25	7.56	5.96	6.84	8.32	15.01	100.00
2009	28.26	9.75	11.23	6.77	7.47	6.04	6.88	8.95	14.65	100.00
2010	30.69	8.66	11.45	6.24	8.58	6.48	6.42	8.9	12.59	100.00
2011	29.97	11.2	10.68	6.15	7.9	6.55	6.36	9.33	11.85	100.00
2012	30.57	10.81	10.85	6.48	8.03	6.22	6.57	9.27	11.20	100.00
2013	28.8	11.48	10.10	6.67	8.6	6.64	5.59	9.33	12.79	100.00
2014	29.61	11.22	9.23	7.46	8.36	6.6	5.36	9.97	12.2	100.00
2015	31.81	11.13	9.39	7.8	8.53	6.86	5.55	9.39	13.02	100.00
2016	29.44	10.75	9.51	9.07	8.65	6.61	6.43	5.85	13.68	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 1999 onwards and basic data on MCCD is for the years 2000 to 2016

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 medically certified deaths has registered fluctuating trend over the year. The decrease in the share of deaths under this cause group by 2.37 percentage point in 2016 compared to 2015. The major cause group "Certain Infectious and Parasitic Diseases" has shown 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 an decreasing trend pattern over the years.

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 decreasing 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 to 8.65 per cent during the period of 2001 to 2016, this accounting for around 5 to 8 deaths per hundred reported medically certified deaths.

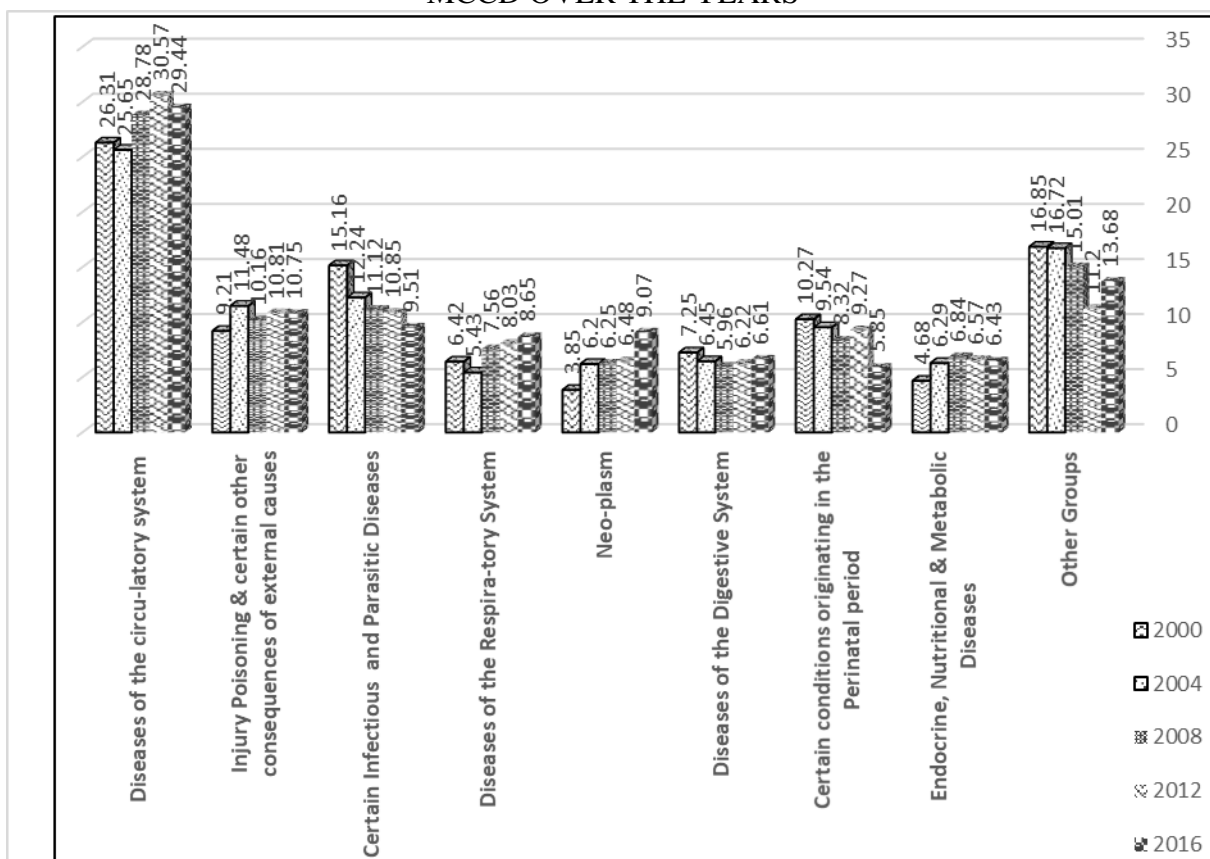
3.5.4 The share of medically certified deaths due to *‘Endocrine, Nutritional and Metabolic Diseases’* has increased to 6.43 per cent during 2016.

3.5.5 The percentage of deaths due to *‘Neoplasms’* has varied from 3.85 per cent to 9.07 per cent over the years. In 2016, the percentage of medically certified deaths due to *‘Diseases of Digestive System’* is 6.61 as against 7.25 in 2000. The share of deaths due to this cause has an average of 6 per cent since 2000.

3.5.6 The groups *“other than”* the eight leading ones viz., *“Diseases of the Nervous System, Diseases of the Skin and Subcutaneous Tissue, Pregnancy, Child Birth and the Puerperium, Congenital Malformations, Deformations and Chromosomal Abnormalities etc.”*, constitutes less than 17 per cent of the total medically certified deaths since 2000.

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 2000, 2004, 2008, 2012 and 2016.

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 29.44 per cent of total medically certified deaths. It accounts for 29.22 per cent of males and 29.84 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**.

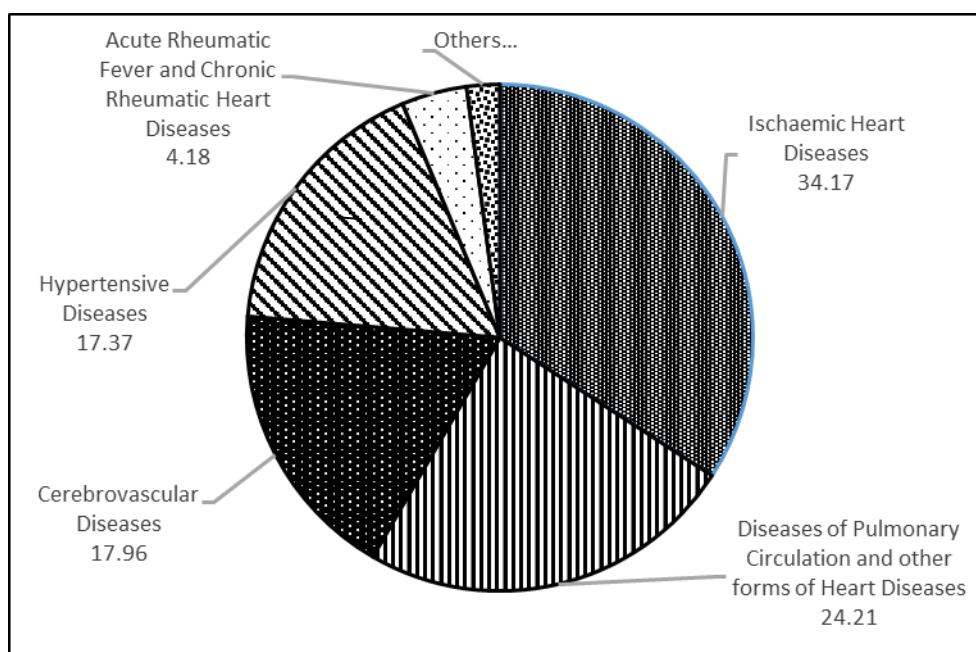
Statement – 6

DISTRIBUTION OF MAJOR CAUSES OF DEATHS AMONG DISEASES OF CIRCULATORY SYSTEM UNDER MCCD-2016

Sl. No	Cause of Death	Male		Female		Total		% to Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Ischaemic Heart Diseases	9814	35.68	4929	31.52	14743	34.17	10.06
2	Diseases of Pulmonary Circulation and other forms of Heart Diseases	6528	23.73	3915	25.03	10443	24.21	7.13
3	Cerebrovascular Diseases	5198	18.90	2552	16.32	7750	17.96	5.29
4	Hypertensive Diseases	4486	16.31	3010	19.25	7496	17.37	5.12
5	Acute Rheumatic Fever and Chronic Rheumatic Heart Diseases	895	3.25	907	5.80	1802	4.18	1.23
6	Others	583	2.12	326	2.085	909	2.11	0.62
	Total Medically Certified Deaths due to Diseases of Circulatory System	27504	100	15639	100	43143	100	29.44
	Deaths due to Diseases of Circulatory system as percentage to total medically certified deaths		29.22		29.84		29.44	

Chart – 5

PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS DUE TO DISEASES OF CIRCULATORY SYSTEM – 2016



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 (**34.17 per cent**) under the major group '**Diseases of Circulatory System**'. Furthermore, around every 10th medically certified deaths has been reported to be caused by IHD alone. The sub groups '**Diseases of Pulmonary Circulation and Other forms of Heart Diseases** and '**Cerebrovascular Diseases**' are reported to be the top two and three leading cause of deaths have constituted **24.21 per cent** and **17.96 per cent** total deaths reported under this major group respectively.

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.

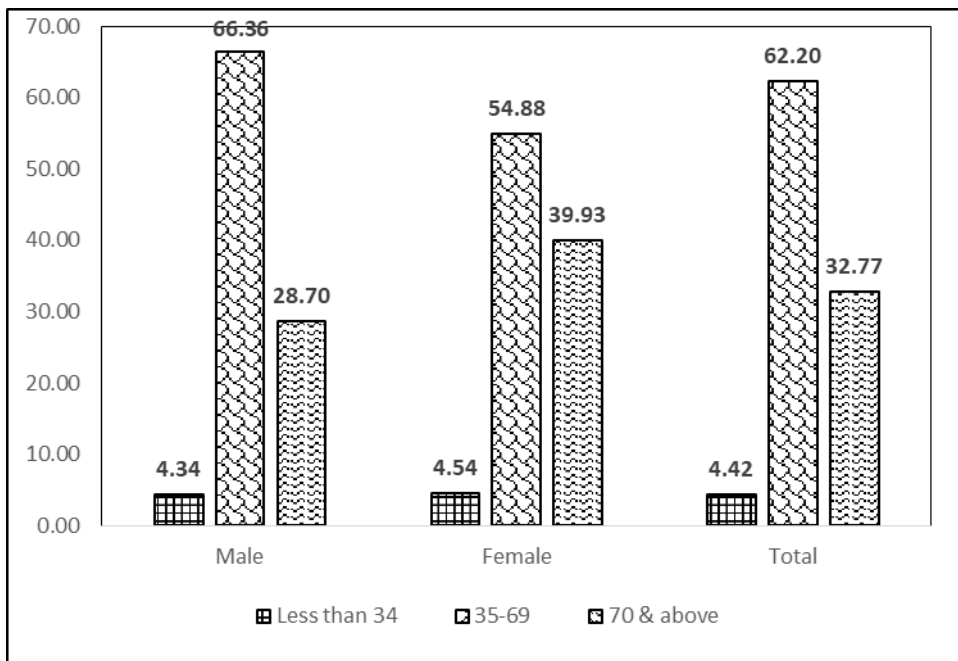
Statement -7

AGE DISTRIBUTION OF DEATHS DUE TO DISEASES OF CIRCULATORY SYSTEM UNDER MCCD-2016

Sl. No	Age Group (in years)	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 Year	3	0.01	7	0.04	10	0.02
2	1-4	10	0.04	7	0.04	17	0.04
3	5-14	72	0.26	64	0.41	136	0.32
4	15-24	108	0.39	102	0.65	210	0.49
5	25-34	1002	3.64	530	3.39	1532	3.55
6	35-44	2311	8.40	936	5.99	3247	7.53
7	45-54	4401	16.00	1807	11.55	6208	14.39
8	55-64	7052	25.64	3457	22.10	10509	24.36
9	65-69	4487	16.31	2383	15.24	6870	15.92
10	70 & above	7893	28.70	6244	39.93	14137	32.77
11	Age Not Stated	165	0.60	102	0.65	267	0.62
	Total	27504	100.00	15639	100.00	43143	100.00

Chart - 6

AGE DISTRIBUTION OF DEATHS DUE TO DISEASES OF CIRCULATORY SYSTEM" UNDER MCCD - 2016



3.7 Injury Poisoning and Certain Other Consequences of External Causes (XIX):

It is the second leading cause group responsible for 10.75 per cent of total medically certified deaths. This has caused 11.58 per cent of male and 9.26 per cent of female deaths. Under this cause group by *'Other Injuries of specified and unspecified and multiple body regions'* with 4331 male and 933 female deaths (33.41 per cent) this is followed by *'Poisonings by drugs and Biological substances and toxic effects of substances chiefly non-medicinal as to source'* alone have contributed to 27.83 per cent of the total deaths and *'Burns and Corrosions'* (18.32 per cent). Death due to Burns and corrosions among females is 38.39 per cent as compared to 9.38 per cent among males, under this major group. The distribution of chief constituents of the major cause group is given in the **Statement-8** and is depicted in **Chart-7**

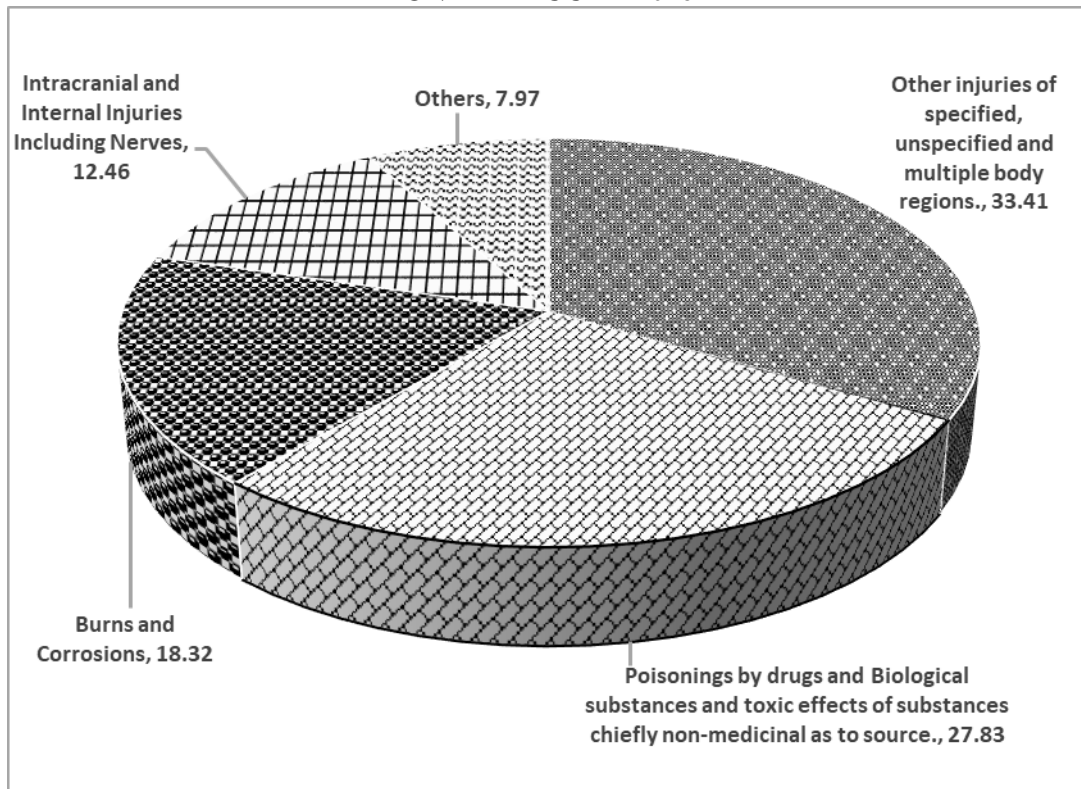
Statement-8

Distribution of Deaths due to Injury, Poisoning and Certain other consequences of External causes Under MCCD-2016

Sl. No	Cause of Death	Male		Female		Total		% To Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Other injuries of specified, unspecified and multiple body regions.	4331	39.74	933	19.22	5264	33.41	3.59
2	Poisonings by drugs and Biological substances and toxic effects of substances chiefly non-medicinal as to source.	2979	27.33	1406	28.96	4385	27.83	2.99
3	Burns and Corrosions	1022	9.38	1864	38.39	2886	18.32	1.97
4	Intracranial and Internal Injuries Including Nerves	1604	14.72	359	7.39	1963	12.46	1.34
5	Others	963	8.84	293	6.04	1256	7.97	0.86
	Total Medically Certified Deaths due to Diseases of Injury, Poisoning and Certain Other Consequences of External causes.	10899	100	4855	100	15754	100	10.75
	Deaths due to Injury, Poisoning and Certain other consequences of External causes as percentage to total medically certified deaths		11.58		9.26		10.75	

Chart 7

PERCENTAGE DISTRIBUTION OF DEATHS DUE TO INJURY, POISONING & CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES UNDER MCCD – 2016



3.7.1 As revealed from the **Statement-9** the highest share of deaths (20.38 per cent) is reported for the age group 25-34 years. This is followed by age groups 35-44 years (19.61 per cent) and 45-54 years (17.14 per cent). These three age-groups together accounts for about 57.13 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-8**.

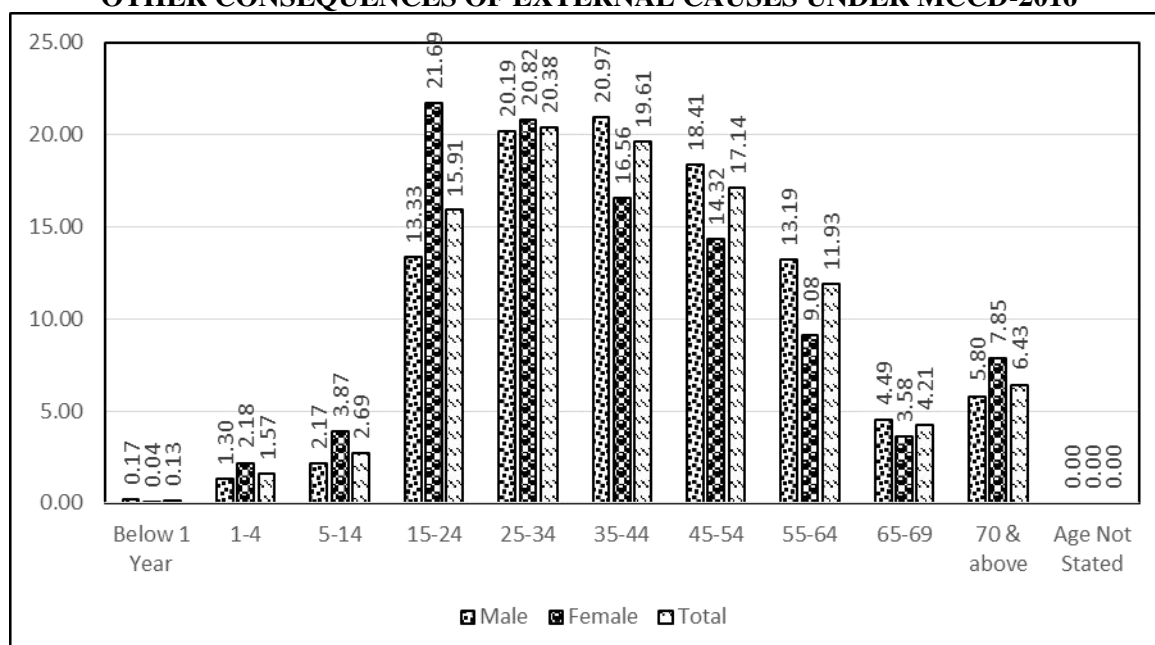
Statement-9

Age Distribution of Deaths due to Injury, Poisoning and Certain other Consequences of External causes Under MCCD-2016

Sl. No	Age Group (in Years)	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 Year	18	0.17	2	0.04	20	0.13
2	1-4	142	1.30	106	2.18	248	1.57
3	5-14	236	2.17	188	3.87	424	2.69
4	15-24	1453	13.33	1053	21.69	2506	15.91
5	25-34	2200	20.19	1011	20.82	3211	20.38
6	35-44	2285	20.97	804	16.56	3089	19.61
7	45-54	2006	18.41	695	14.32	2701	17.14
8	55-64	1438	13.19	441	9.08	1879	11.93
9	65-69	489	4.49	174	3.58	663	4.21
10	70 & above	632	5.80	381	7.85	1013	6.43
11	Age Not Stated	0	0.00	0	0.00	0	0.00
	Total	10899	100.00	4855	100.00	15754	100.00

Chart – 8

AGE DISTRIBUTION OF DEATHS DUE TO INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES UNDER MCCD-2016



3.7.2 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 one and a half (1½) times to that of males (1022 males and 1864 females). As detailed in the **Statement-10**, the highest number of deaths due to *‘Burns and Corrosion’* is concentrated in the age group 15-44 years, constituting around 66.56 per cent of deaths under this sub-group. The shares of this age group in the deaths due to *‘Other Injuries of specified, unspecified and multiple Body Regions’* and *‘Poisonings by drugs & Biological Substances and Toxic effects of substances chiefly non-medicinal as to source’* are around 50.51 per cent and 57.95 per cent respectively.

Statement-10

**AGE DISTRIBUTION OF DEATHS DUE TO INJURY, POISONING,
BURNS CORROSIONS AND OTHER INJURIES UNDER MCCD-2016**

Sl. No	Age Group (In Years)	Age Distribution of Deaths Due to		
		Other injuries of specified, unspecified and multiple body regions	Poisonings by drugs and Biological substances and toxic effects of substances chiefly non-medical as to source	Burns and Corrosions
1	Below 1 year	0.25	0.02	0.21
2	1-4	1.52	0.98	2.46
3	5-14	3.13	2.10	3.53
4	15-24	13.73	17.63	21.34
5	25-34	17.90	20.09	26.13
6	35-44	18.88	20.23	19.09
7	45-54	18.31	19.02	11.71
8	55-64	12.97	12.66	7.76
9	65-69	5.40	3.44	2.22
10	70 & above	7.90	3.83	5.54
11	Age Not Stated	0	0.00	0
	Total	100.0	100.0	100.0

3.8 Certain Infectious and Parasitic Diseases (I):

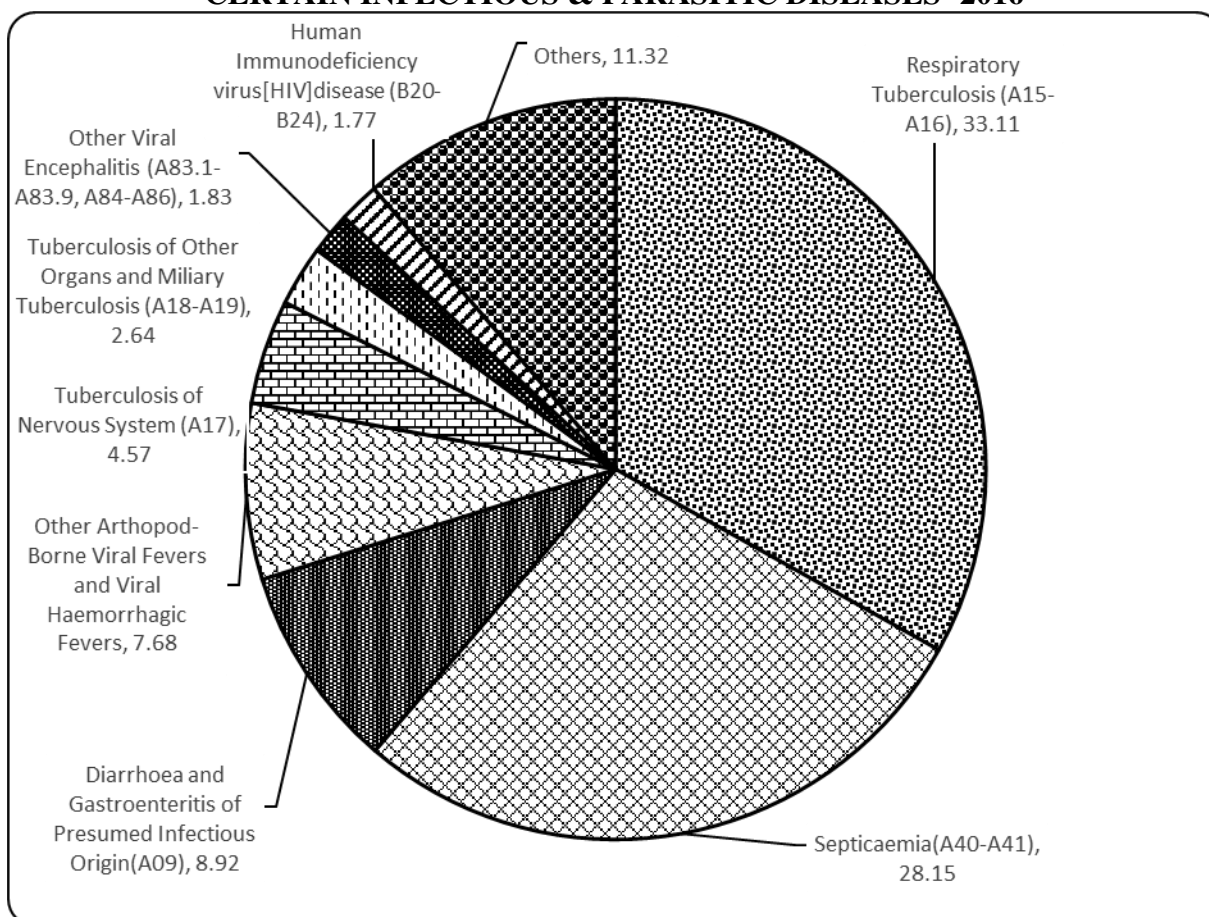
It is the third leading cause group of disease accounting for 9.51 per cent of total medically certified deaths, which constitute 9.65 per cent of male and 9.26 per cent of female medically certified deaths of their respective totals. The distribution of major components under this cause group is shown in the **Statement-11** and is depicted in **Chart - 9**.

Statement -11

Distribution of Major Causes of Deaths among Certain Infectious and Parasitic Diseases Under MCCD-2016

Sl. No	Cause of Death	Male		Female		Total		% To Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Respiratory Tuberculosis (A15-A16)	3436	37.82	1180	24.30	4616	33.11	3.15
2	Septicaemia(A40-A41)	2423	26.67	1501	30.92	3924	28.15	2.68
3	Diarrhoea and Gastroenteritis of Presumed Infectious Origin(A09)	709	7.80	535	11.02	1244	8.92	0.85
4	Other Arthropod-Borne Viral Fevers and Viral Haemorrhagic Fevers	609	6.70	462	9.52	1071	7.68	0.73
5	Tuberculosis of Nervous System (A17)	404	4.45	233	4.80	637	4.57	0.43
6	Tuberculosis of Other Organs and Miliary Tuberculosis (A18-A19)	246	2.71	122	2.51	368	2.64	0.25
7	Other Viral Encephalitis (A83.1-A83.9, A84-A86)	125	1.38	130	2.68	255	1.83	0.17
8	Human Immunodeficiency virus[HIV]disease (B20-B24)	154	1.70	93	1.92	247	1.77	0.17
9	Others	979	10.78	599	12.34	1578	11.32	1.08
	Total Medically Certified Deaths due to Certain Infectious and Parasitic Diseases	9085	100	4855	100	13940	100.00	9.51
	Deaths due to Infectious and Parasitic Disease as percentage to total medically certified deaths		9.65		9.26		9.51	

Chart – 9
PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS DUE TO CERTAIN INFECTIOUS & PARASITIC DISEASES -2016



3.8.1 Among the *Certain Infectious and Parasitic Diseases*, ‘*Respiratory Tuberculosis*’ is the highest reported medically certified cause of mortality, constituting around **33.11 per cent** followed by ‘*Septicemia*’ (**28.15 per cent**). Under this major group, percentage of *Tuberculosis* deaths in females is **24.30** per cent as against 37.82 per cent of males out of their respective totals. The share of ‘*Diarrhoea & Gastroenteritis of presumed Infectious Origin*’, ‘*Other Arthropad Borne Fevers and Viral Haemarrhagic fevers*’ and ‘*HIV disease*’ in the total deaths under this group are **8.92, 7.68 and 1.77** per cent respectively.

3.8.2 The age distribution of medically certified deaths due to ‘*Certain Infectious and Parasitic Diseases*’ has been given in below **Statement-12** and is presented in **Chart-10**.

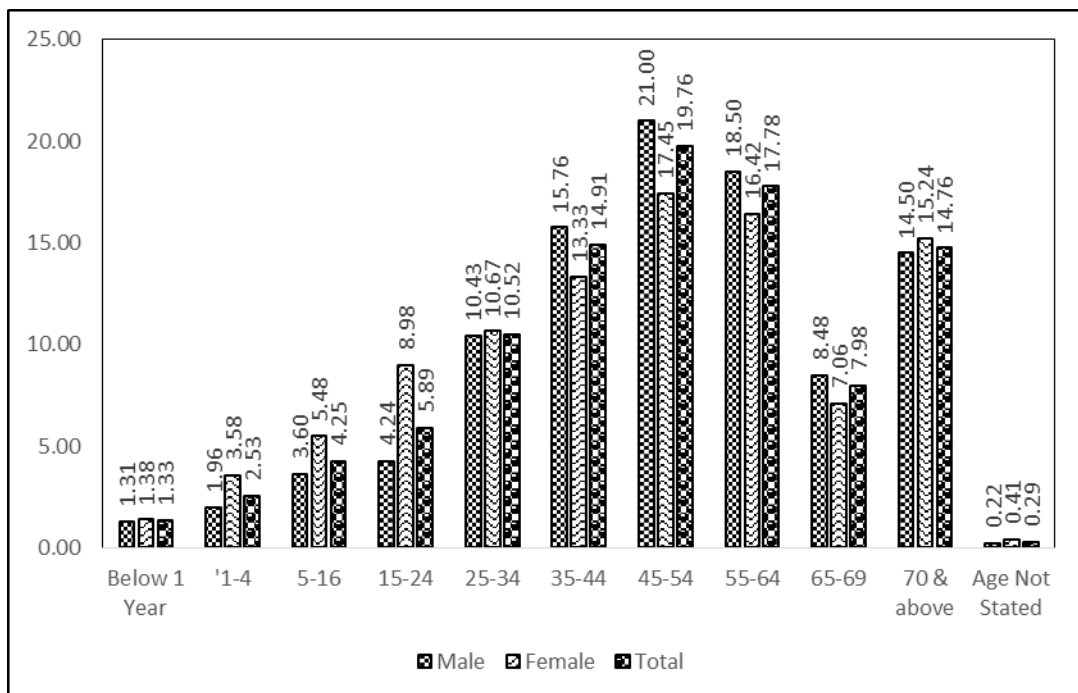
Statement-12

Age Distribution of Deaths due to Certain Infectious and Parasitic Diseases Under MCCD-2016

Sl. No	Age Group (In Years)	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 Year	119	1.31	67	1.38	186	1.33
2	'1-4	178	1.96	174	3.58	352	2.53
3	5-16	327	3.60	266	5.48	593	4.25
4	15-24	385	4.24	436	8.98	821	5.89
5	25-34	948	10.43	518	10.67	1466	10.52
6	35-44	1432	15.76	647	13.33	2079	14.91
7	45-54	1908	21.00	847	17.45	2755	19.76
8	55-64	1681	18.50	797	16.42	2478	17.78
9	65-69	770	8.48	343	7.06	1113	7.98
10	70 & above	1317	14.50	740	15.24	2057	14.76
11	Age Not Stated	20	0.22	20	0.41	40	0.29
	Total	9085	100.00	4855	100.00	13940	100.00

Chart -10

AGE DISRIBUTION OF DEATHS DUE TO “CERTAIN INFECTIOUS & PARASITIC DISEASES” UNDER MCCD – 2016



As shown in the **Statement-12**, the highest incidence of deaths (19.76 per cent) is reported for the age group 45-54 years, closely followed by age groups 55-64 years (17.78 per cent) and 35-44 years (14.91 per cent). The age-group 25-34 years has contributed to around 10.52 per cent of total deaths under the cause group '*Certain Infectious and Parasitic Diseases*'.

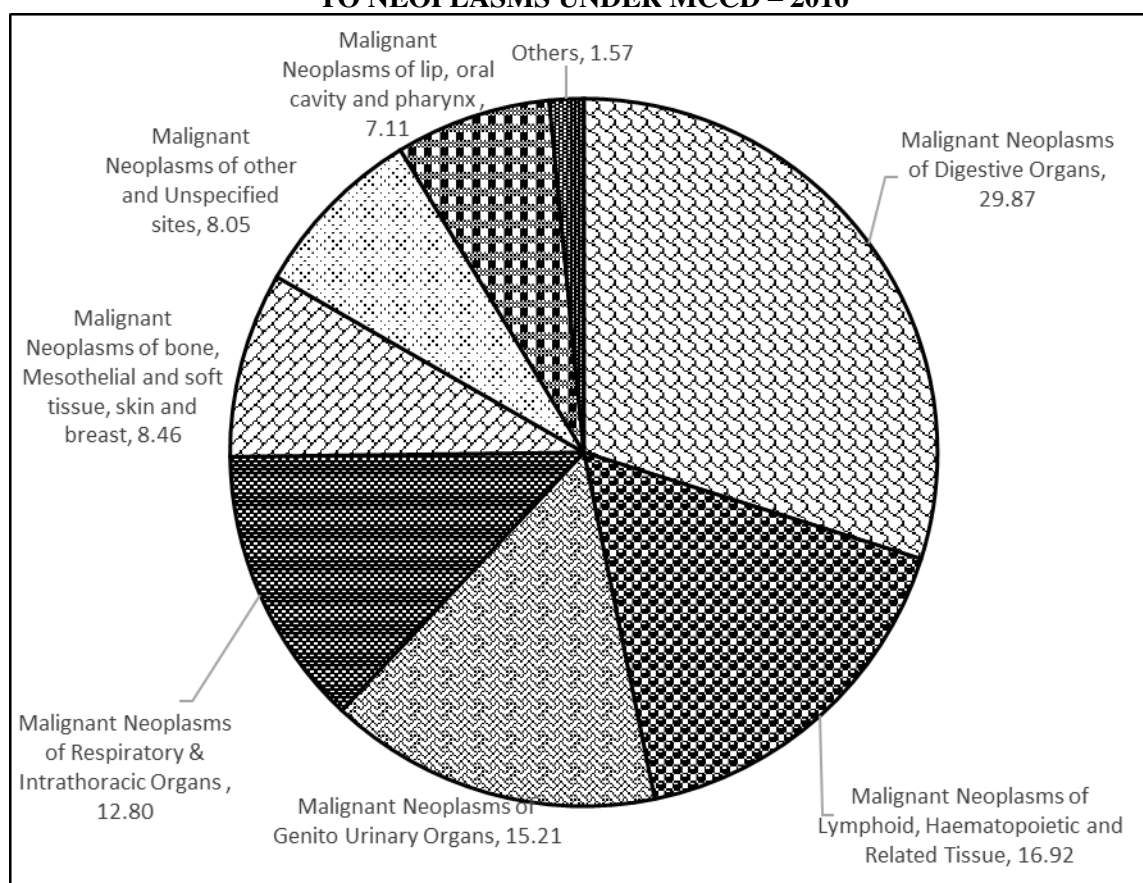
3.9. Neoplasms (II) : The Fourth leading cause, *Neoplasm*, which is commonly known as Cancer, is responsible for 9.07 per cent of the total medically certified deaths. The share of deaths due to *Neoplasms* in total female deaths is 10.73 per cent as compared to the corresponding figure of 8.14 per cent in case of males. Among total female medically certified deaths, it is the second leading cause of death. The distribution of major causes of deaths under the group is given in the **Statement-13** and depicted in **Chart-11**.

Statement- 13

Distribution of Major Causes of Deaths Due to Neoplasms under MCCD–2016

Sl. No	Cause of Death	Male		Female		Total		% To Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Malignant Neoplasms of Digestive Organs	2678	34.97	1290	22.93	3968	29.87	2.71
2	Malignant Neoplasms of Lymphoid, Haematopoietic and Related Tissue	1424	18.59	823	14.63	2247	16.92	1.53
3	Malignant Neoplasms of Genito Urinary Organs	650	8.49	1371	24.37	2021	15.21	1.38
4	Malignant Neoplasms of Respiratory & Intrathoracic Organs	1276	16.66	425	7.56	1701	12.80	1.16
5	Malignant Neoplasms of bone, Mesothelial and soft tissue, skin and breast	195	2.55	929	16.52	1124	8.46	0.77
6	Malignant Neoplasms of other and Unspecified sites	615	8.03	455	8.09	1070	8.05	0.73
7	Malignant Neoplasms of lip, oral cavity and pharynx	680	8.88	265	4.71	945	7.11	0.64
8	Others	141	1.84	67	1.19	208	1.57	0.14
	Total Medically Certified Deaths due to Neoplasms	7659	100.00	5625	100.00	13284	100.00	9.07
	Deaths due to Neoplasms as percentage to total medically certified deaths		8.14		10.73		9.07	

CHART – 11
PERCENTAGE DISTRIBUTION OF MAJOR CAUSES OF DEATHS DUE
TO NEOPLASMS UNDER MCCD – 2016



3.9.1 Among the Neoplasm deaths, *‘Malignant Neoplasm of Digestive Organs’* accounts for the highest mortality of 29.87 per cent, followed by *‘Malignant of Lymphoid, haematopoietic & other related tissue’* (16.92 per cent), *‘Malignant Neoplasm of Genito Urinary Organs’* (15.21 per cent) *‘Malignant Neoplasms of Respiratory & Intrathoracic Organs’* (12.80 per cent) and. The share of deaths due to Malignant Neoplasms of Digestive Organs is 34.97 per cent as against 22.93 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 24.37 per cent as compared to 8.49 per cent of corresponding male deaths. In female deaths due to *‘Malignant Neoplasm of Genito Urinary organs’* proportion of deaths due to Cervical cancer, Ovary is 78.77 per cent. Among female deaths cause by *‘Malignant Neoplasms of bone, mesothelial and soft tissue, skin and breast’* 800 (86.11 per cent) are due to breast cancer. Breast cancer alone accounts for around 14.22 per cent of total female Neoplasm deaths. Among deaths caused by *‘Malignant Neoplasm of Respiratory and Intra Thoracic Organs’* about 61.78 per cent is due to Lung Cancer in male in their respective group. Lung Cancer alone accounts for around 13.72 per cent of total male Neoplasm deaths.

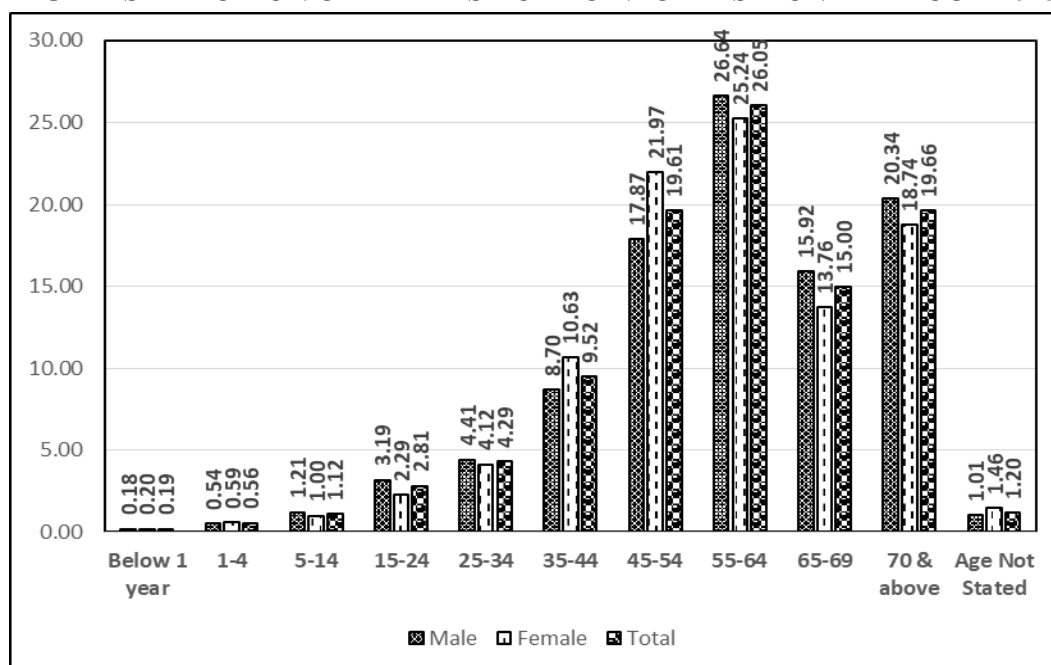
3.9.2 The incidence of Neoplasm death is reported to be the highest i.e. 26.05 per cent in the age group 55-64 years (26.64 per cent of males and 25.24 per cent of

females) followed by the age group 70 and above years recording 19.66 per cent of deaths (20.34 per cent of males and 18.74 per cent of females). Around 90 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-14** and **Chart-12**.

Statement- 14
Age Distribution of Deaths Due to Neoplasm Under MCCD-2016

Sl. No	Age Group (In Years)	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 year	14	0.18	11	0.20	25	0.19
2	1-4	41	0.54	33	0.59	74	0.56
3	5-14	93	1.21	56	1.00	149	1.12
4	15-24	244	3.19	129	2.29	373	2.81
5	25-34	338	4.41	232	4.12	570	4.29
6	35-44	666	8.70	598	10.63	1264	9.52
7	45-54	1369	17.87	1236	21.97	2605	19.61
8	55-64	2040	26.64	1420	25.24	3460	26.05
9	65-69	1219	15.92	774	13.76	1993	15.00
10	70 & above	1558	20.34	1054	18.74	2612	19.66
11	Age Not Stated	77	1.01	82	1.46	159	1.20
	Total	7659	100.00	5625	100.00	13284	100.00

CHART- 12
AGE DISTRIBUTION OF DEATHS DUE TO NEOPLASM UNDER MCCD-2016



3.10 Diseases of the Respiratory System (X):

The major group of Diseases of Respiratory System is the fifth leading cause, responsible for 8.65 per cent of the total medically certified deaths. This has contributed to 9.05 per cent of male and 7.93 per cent of female deaths. The distribution of chief constituents of the major cause group is given **Statement-15** and is presented in **Chart-13**.

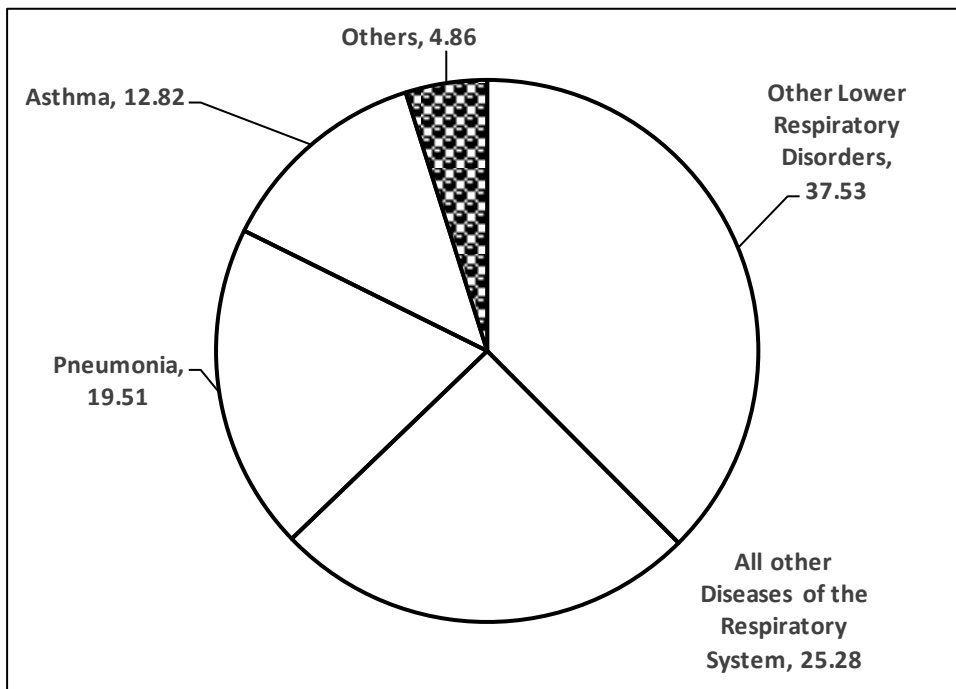
Statement – 15

Distribution of Deaths due to Diseases of Respiratory System Under MCCD-2016

Sl No.	Cause of Death	Male		Female		Total		% To Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Other Lower Respiratory Disorders	3541	41.58	1215	29.23	4756	37.53	3.25
2	All other Diseases of the Respiratory System	2090	24.54	1114	26.80	3204	25.28	2.19
3	Pneumonia	1552	18.22	920	22.14	2472	19.51	1.69
4	Asthma	965	11.33	660	15.88	1625	12.82	1.11
5	Others	369	4.33	247	5.94	616	4.86	0.42
	Total Medically Certified Deaths due to Diseases of Respiratory System	8517	100.00	4156	100.00	12673	100.00	8.65
	Deaths due to Diseases of Respiratory system as percentage to total medically certified deaths		9.05		7.93		8.65	

Chart – 13

PERCENTAGE DISTRIBUTION OF DEATHS DUE TO DISEASES OF RESPIRATORY SYSTEM UNDER MCCD – 2016

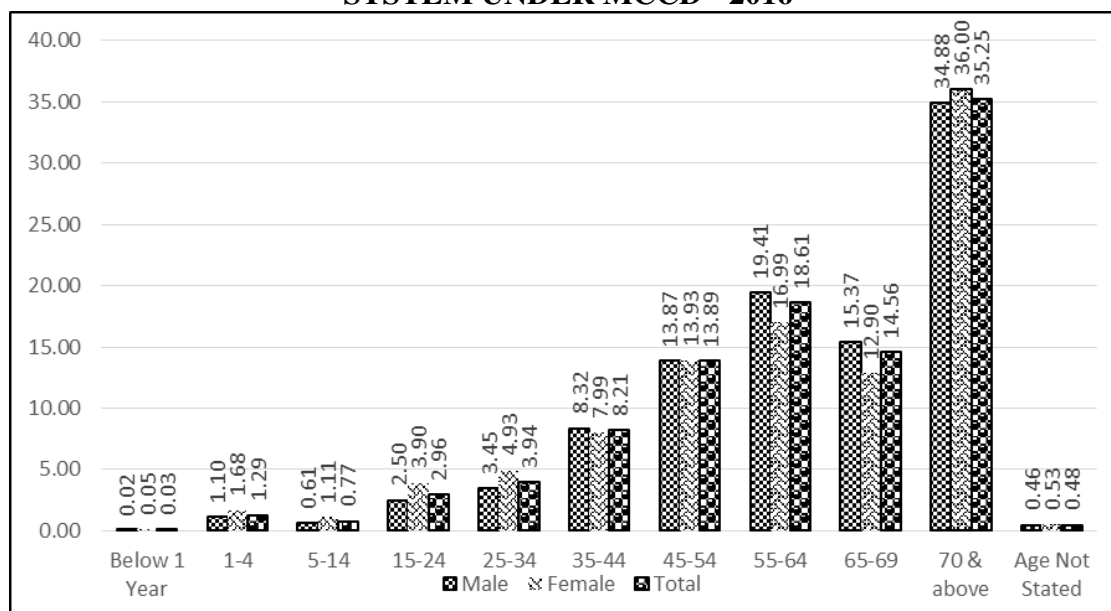


3.10.1 ‘Other lower Respiratory disorders’, is the leading cause of death, has caused 30 out of every hundred reported deaths under the major cause group (37.53 per cent). It is followed by ‘All other Diseases of the Respiratory System ’’ has caused 25.28 per cent of the deaths. ‘Pneumonia’ an inflammatory illness of the lung and also one of the leading cause of death among the elderly and Children has caused 20 out of every hundred reported deaths (19.51 per cent). The percentage share of Pneumonia to the total medically certified deaths is 1.69 percent with the corresponding share of Asthma being 1.11 per cent. The age composition of deaths due to ‘Diseases of Respiratory System’ is presented in **Statement-16** and is highlighted in **Chart-14**.

Statement – 16
Age Distribution of Deaths due to Diseases of Respiratory system
Under MCCD-2016

Sl. No	Age Group (In years)	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 Year	2	0.02	2	0.05	4	0.03
2	1-4	94	1.10	70	1.68	164	1.29
3	5-14	52	0.61	46	1.11	98	0.77
4	15-24	213	2.50	162	3.90	375	2.96
5	25-34	294	3.45	205	4.93	499	3.94
6	35-44	709	8.32	332	7.99	1041	8.21
7	45-54	1181	13.87	579	13.93	1760	13.89
8	55-64	1653	19.41	706	16.99	2359	18.61
9	65-69	1309	15.37	536	12.90	1845	14.56
10	70 & above	2971	34.88	1496	36.00	4467	35.25
11	Age Not Stated	39	0.46	22	0.53	61	0.48
	Total	8517	100.00	4156	100.00	12673	100.00

Chart – 14
AGE DISTRIBUTION OF DEATHS DUE TO DISEASES OF RESPIRATORY
STSTEM UNDER MCCD - 2016



3.10.2 The age group ‘70 and above years’ has reported maximum incidence of deaths (35.25 per cent) under the major cause group followed by the age group ‘55-64 years’ with 18.61 per cent of deaths due to ‘Diseases of Respiratory system’. The children of age group 0-4 have contributed to only 1.33 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 year and above’, constituting around 82.31 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. 11.67 per cent for females compared to 7.69 per cent of males).

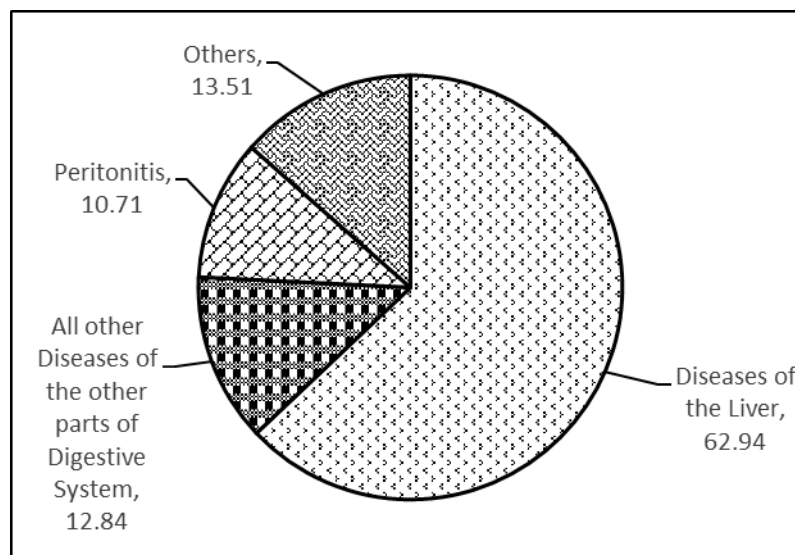
3.11 Diseases of the Digestive System (XI): The major group comprising ‘*Diseases of Digestive system*’ is the Sixth leading cause group, responsible for 6.61 per cent of the total medically certified deaths with 8.29 per cent of male and 3.60 per cent of female deaths. The percentage of male digestive disorder deaths to total medically certified is more than double to that of corresponding female figures. The distribution of major causes of deaths under this group is given in the **Statement-17** and is highlighted in **Chart-15**.

Statement – 17

Distribution of Deaths due to Digestive System Under MCCD-2016

Sl. No	Cause of Death	Male		Female		Total		% To Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Diseases of the Liver	5055	64.80	1044	55.27	6099	62.94	4.16
2	All other Diseases of the other parts of Digestive System	944	12.10	300	15.88	1244	12.84	0.85
3	Peritonitis	844	10.82	194	10.27	1038	10.71	0.71
4	Others	958	12.28	351	18.58	1309	13.51	0.89
	Total Medically Certified Deaths due to Digestive System	7801	100.00	1889	100.00	9690	100.00	6.61
	Deaths due to Diseases of Digestive System as percentage to total medically certified deaths		8.29		3.60		6.61	

CHART – 15
PERCENTAGE DISTRIBUTION OF DEATHS DUE TO DIGESTIVE SYSTEM
UNDER MCCD - 2016



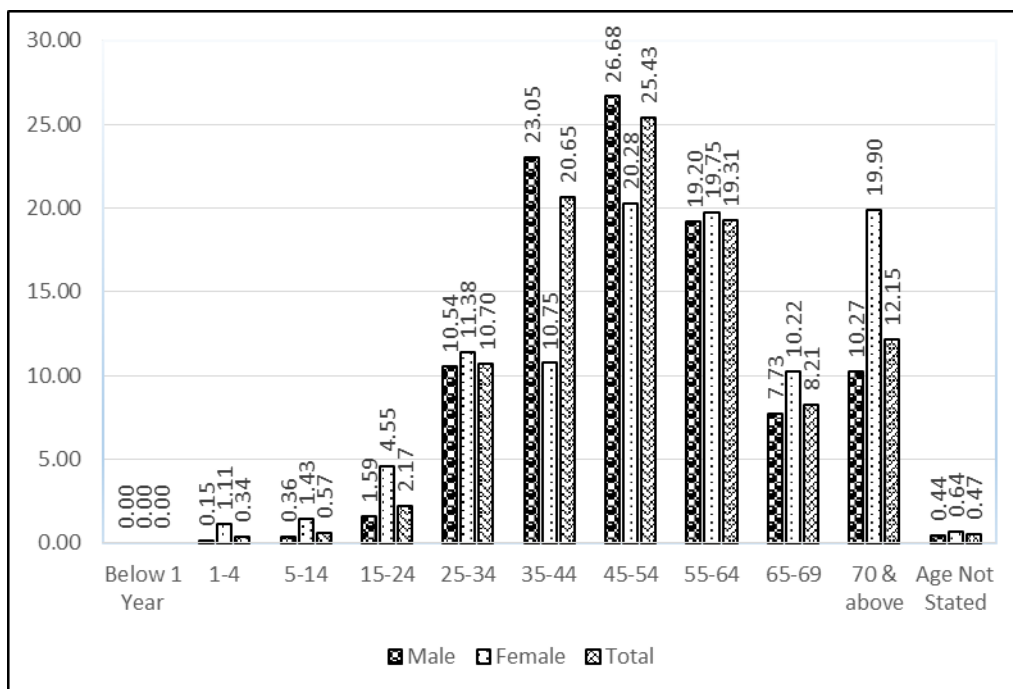
3.11.1 Among the deaths due to disorders of digestive system, *‘Diseases of the Liver’* account for 62.94 per cent of the total medically certified deaths in this group. The share of liver diseases is about 5 per cent among the total medically certified deaths. *‘All other Diseases of the other parts of the Digestive System’* and *‘Peritonitis’* also have responsible for 12.84 per cent and 10.71 per cent of total deaths under this major cause group.

3.11.2 The **Statement-18** reveals that the age group ‘45-54 years’ have reported the maximum deaths (25.43 per cent) under the major group *‘Diseases of Digestive System’*. As high as 96.45 per cent of the total deaths caused by digestive system disorder are concentrated in the age-group 25 years and above. This is highlighted in **Chart-16**.

Statement - 18
Age Distribution of Deaths due to Digestive System Under
MCCD-2016

Sl. No	Age Group (In Years)	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 Year	0	0	0	0.00	0	0.00
2	1-4	12	0.15	21	1.11	33	0.34
3	5-14	28	0.36	27	1.43	55	0.57
4	15-24	124	1.59	86	4.55	210	2.17
5	25-34	822	10.54	215	11.38	1037	10.70
6	35-44	1798	23.05	203	10.75	2001	20.65
7	45-54	2081	26.68	383	20.28	2464	25.43
8	55-64	1498	19.20	373	19.75	1871	19.31
9	65-69	603	7.73	193	10.22	796	8.21
10	70 & above	801	10.27	376	19.90	1177	12.15
11	Age Not Stated	34	0.44	12	0.64	46	0.47
	Total	7801	100.00	1889	100.00	9690	100.00

CHART - 16
AGE DISTRIBUTION OF DEATHS DUE TO DISEASES OF DIGESTIVE SYSTEM UNDER MCCD – 2016



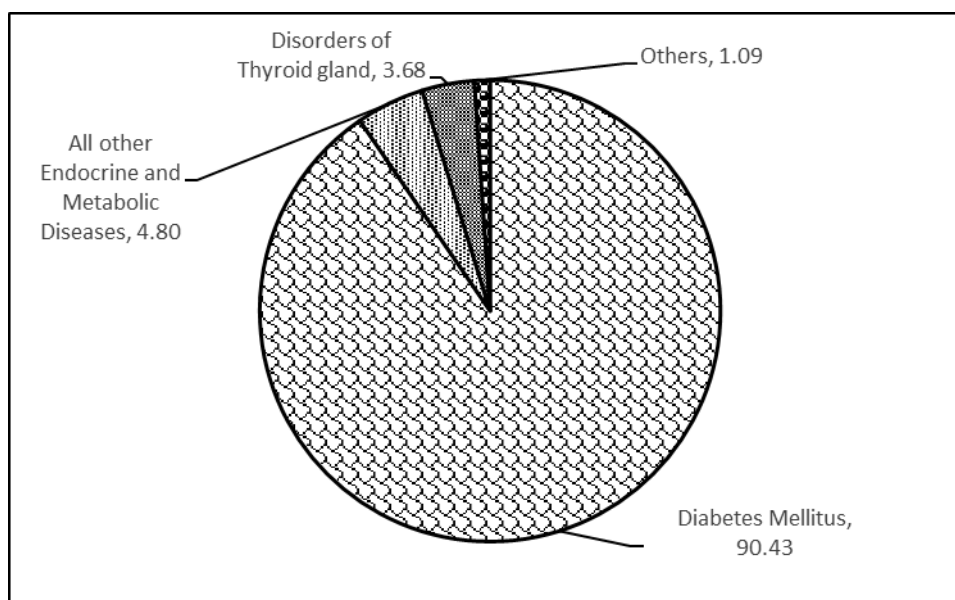
3.12 Endocrine, Nutritional and Metabolic Diseases (IV) : This is the Seventh leading cause group has contributed to 6.43 per cent of the total medically certified deaths. Under this cause group, *'Diabetes Mellitus'* that causes serious health complications such as renal failures, heart disease, stroke 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 90.43 per cent of total deaths reported under the cause group. The share of Diabetes Mellitus in total medically certified deaths is 5.82 percent. The distribution of major causes of deaths under this group is given in **Statement-19** and is depicted in the **Chart-17**.

Statement – 19
Distribution of Deaths due to Endocrine, Nutritional and Metabolic Diseases
under MCCD – 2016

Sl. No	Cause of Death	Male		Female		Total		% to Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Diabetes Mellitus	5014	91.76	3510	88.59	8524	90.43	5.82
2	All other Endocrine and Metabolic Diseases	276	5.05	176	4.44	452	4.80	0.31
3	Disorders of Thyroid gland	107	1.96	240	6.06	347	3.68	0.24
4	Others	67	1.23	36	0.91	103	1.09	0.07
	Total Medically Certified Deaths due to Endocrine, Nutritional and Metabolic Diseases	5464	100.00	3962	100.00	9426	100.00	6.43
	Deaths due to Diseases of Endocrine, Nutritional and metabolic Diseases as percentage to total medically certified deaths		5.81		7.56		6.43	

Chart – 17

PERCENTAGE DISTRIBUTION OF DEATHS DUE TO ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES UNDER MCCD – 2016



3.12.1 The incidence of '*Diabetes Mellitus*' death is reported to be the highest for the age group 70 and above (32.65 per cent). The **Statement-20** reveals that the deaths due to this disease are concentrated in the age 45 years and above, contributing around 92.93 per cent of the total Diabetes Mellitus deaths under MCCD.

Statement – 20
Age Distribution of Deaths Due to Diabetes Mellitus Under
MCCD – 2016

Sl. No	Age Group (In Years)	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	14	0.28	10	0.28	24	0.28
4	15-24	27	0.54	50	1.42	77	0.90
5	25-34	114	2.27	65	1.85	179	2.10
6	35-44	274	5.46	108	3.08	382	4.48
7	45-54	1029	20.52	566	16.13	1595	18.71
8	55-64	1262	25.17	795	22.65	2057	24.13
9	65-69	799	15.94	599	17.07	1398	16.40
10	70 & above	1477	29.46	1306	37.21	2783	32.65
11	Age Not Stated	18	0.36	11	0.31	29	0.34
	Total	5014	100.00	3510	100.00	8524	100.00

3.13 Certain Conditions Originating in the Perinatal Period (XVI):

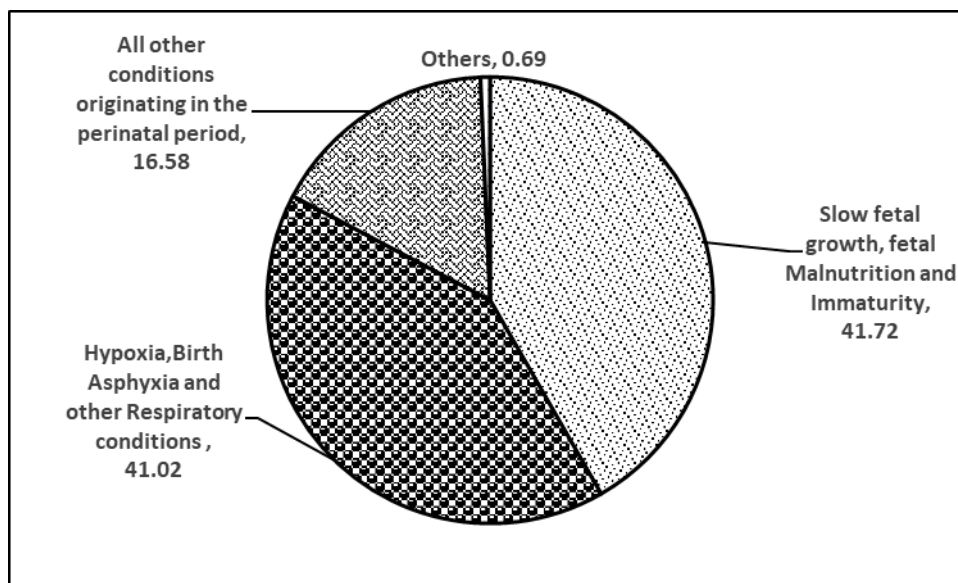
The group of diseases relating to '*Certain conditions originating in the Perinatal Period*' is the Eighth leading cause of death, accounting 5.85 per cent of the total medically certified deaths. This has contributed to 5.48 per cent of male and 6.51 per cent of female medically certified deaths. The distribution of major causes of deaths under this group is shown in the **Statement-21** and is portrayed in the **Chart-18**.

Statement- 21
Distribution of Deaths due to Certain Conditions Originating in the
Perinatal Period Under MCCD-2016

Sl. No	Cause of Death	Male		Female		Total		% To Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Slow fetal growth, fetal Malnutrition and Immaturity	2101	40.72	1474	43.23	3575	41.72	2.44
2	Hypoxia, Birth Asphyxia and other Respiratory conditions	2120	41.09	1395	40.91	3515	41.02	2.40
3	All other conditions originating in the perinatal period	902	17.48	519	15.22	1421	16.58	0.97
4	Others	37	0.72	22	0.65	59	0.69	0.04
	Total Medically Certified Deaths due to certain Conditions Originating in the Perinatal Period	5160	100.00	3410	100.00	8570	100.00	5.85
	Deaths due to certain Conditions Originating in the Perinatal Period as percentage to total Medically Certified Deaths		5.48		6.51		5.85	

Chart – 18

PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS DUE TO CERTAIN CONDITIONS ORIGINATING IN PERINATAL PERIOD –2016



Other Causes of Death

3.14 Diseases of the Genito-Urinary System (XIV)

Out of every hundred medically certified deaths, around four are reported from ‘*Diseases of Genitourinary System*’. Renal failure is the cause of maximum deaths (71.28 per cent) under the ‘*Genitourinary System*’ disease with the overall share of 2.89 per cent in total medically certified deaths. The distribution of major causes under this group is given in **Statement-22** and is shown in **Chart-19**.

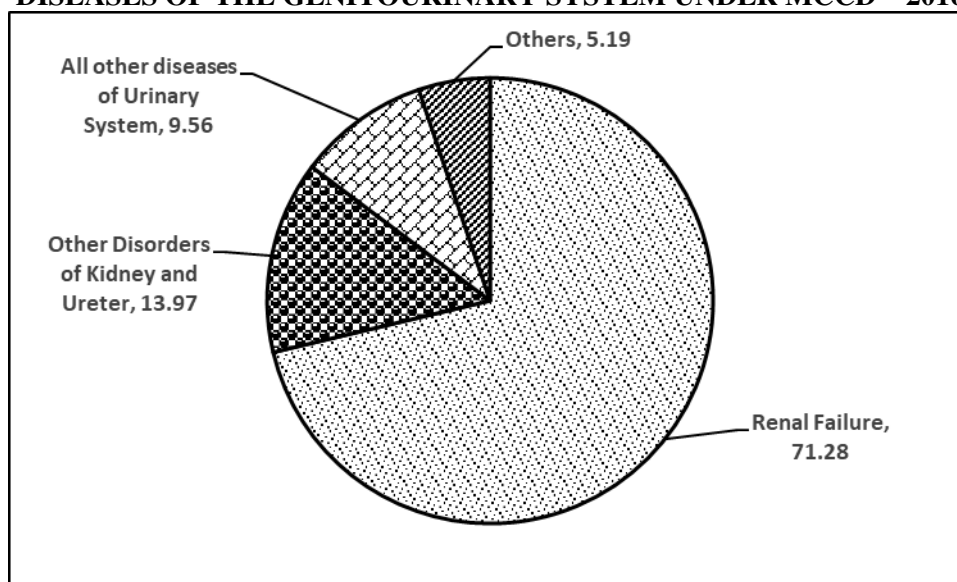
Statement – 22

Distribution of Major Causes of Deaths Due to Diseases of the Genitourinary System Under MCCD – 2016

Sl. No	Cause of Death	Male		Female		Total		% to Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Renal Failure	2755	71.99	1479	70.00	4234	71.28	2.89
2	Other Disorders of Kidney and Ureter	558	14.58	272	12.87	830	13.97	0.57
3	All other diseases of Urinary System	319	8.34	249	11.78	568	9.56	0.39
4	Others	195	5.10	113	5.35	308	5.19	0.21
	Total Medically Certified Deaths due to Genito- urinary System	3827	100.00	2113	100.00	5940	100.00	4.05
	Deaths due to Diseases of Genitourinary System as percentage to total Medically certified Deaths		4.07		3.56		4.05	

CHART – 19

PERCENTAGE DISTRIBUTION OF MAJOR CAUSES OF DEATHS DUE TO DISEASES OF THE GENITOURINARY SYSTEM UNDER MCCD – 2016



3.14.1 The incidence of '*Renal failure*' death is reported to be, the highest for the age '70 and above years' (32.52 per cent). The **Statement-23** reveals that the deaths due to this disease are concentrated in the age 45 years and above, contributing around 84.79 per cent of total deaths reported under MCCD due to renal failure.

Statement – 23

Age Distribution of Deaths Due to Renal Failure Under MCCD-2016

Sl. No	Age Group (In Years)	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	0.00	0	0	0	0.00
4	15-24	48	1.74	22	1.49	70	1.65
5	25-34	124	4.50	74	5.00	198	4.68
6	35-44	264	9.58	96	6.49	360	8.50
7	45-54	393	14.26	221	14.94	614	14.50
8	55-64	770	27.95	366	24.75	1136	26.83
9	65-69	289	10.49	174	11.76	463	10.94
10	70 & above	857	31.11	520	35.16	1377	32.52
11	Age Not stated	10	0.36	6	0.41	16	0.38
	Total	2755	100.00	1479	100.00	4234	100.00

3.15 Symptoms, Signs and Abnormal Clinical & Laboratory Findings, Not elsewhere classified (N.E.C) (XVIII).

This leading major cause group responsible for 2.63 per cent of the total medically certified deaths of which 2.47 per cent of males and 2.93 per cent of female death. 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-25**. “*All other Symptoms, Signs and Abnormal Clinical & Laboratory Findings Not Elsewhere Classified*” accounted for 85.05 per cent of the total deaths in this group.

Statement-25

Distribution of Deaths due to Symptoms Signs and Abnormal Clinical & Laboratory Findings not Elsewhere Classified Under MCCD-2016

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	1992	85.86	1286	83.83	3278	85.05	2.24
2	Senility	179	7.72	157	10.23	336	8.72	0.23
3	Others	149	6.42	91	5.93	240	6.23	0.16
	Total Medically Certified Deaths due to Symptoms Signs and Abnormal Clinical & Laboratory Findings not elsewhere classified	2320	100.00	1534	100.00	3854	100.00	2.63
	Deaths due to Diseases of Symptoms Signs and Abnormal Clinical & Laboratory Findings not elsewhere classified as percentage to total medically certified deaths		2.47		2.93		2.63	

3.15.1 As shown in the **Statement-26** the highest incidence of deaths (37.18 per cent) is reported for the age group 70 years and above. The age group “45 years and above” contributed nearly 77.53 per cent of total mortality reported under this cause group.

Statement - 26

Age Distribution of Deaths due to Symptoms Signs and Abnormal Clinical & Laboratory Findings not elsewhere classified Under MCCD -2016

Sl. No	Age Group (In Years)	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 Year	0	0.00	0	0.00	0	0.00
2	1-4	23	0.99	5	0.33	28	0.73
3	5-14	31	1.34	27	1.76	58	1.50
4	15-24	72	3.10	42	2.74	114	2.96
5	25-34	124	5.34	62	4.04	186	4.83
6	35-44	308	13.28	148	9.65	456	11.83
7	45-54	379	16.34	183	11.93	562	14.58
8	55-64	362	15.60	211	13.75	573	14.87
9	65-69	250	10.78	170	11.08	420	10.90
10	70 & above	757	32.63	676	44.07	1433	37.18
11	Age Not Stated	14	0.60	10	0.65	24	0.62
	Total	2320	100.00	1534	100.00	3854	100.00

3.16 Diseases of the Nervous System (VI):

The cause group of Diseases of Nervous System is responsible for 2.45 per cent of the total medically certified deaths. The distribution of major causes of deaths under this group is shown in the **Statement-27** and is highlighted in **Chart-20**

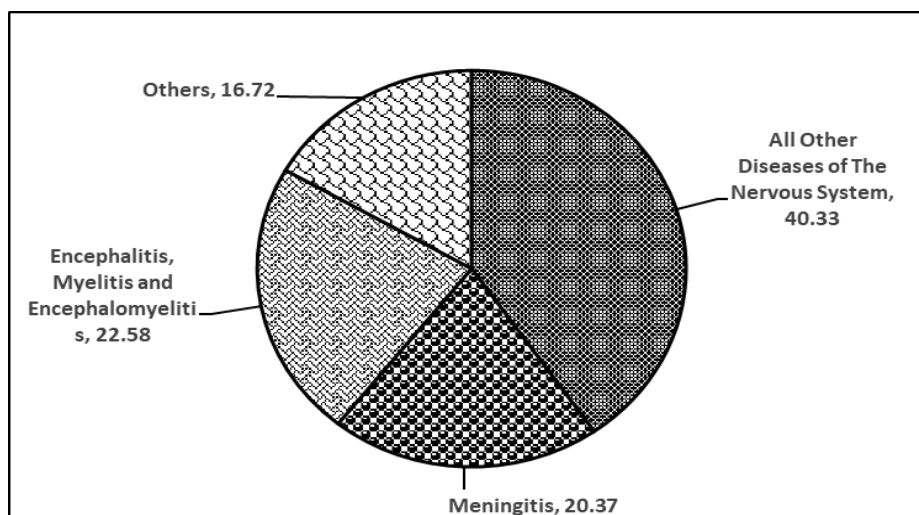
Statement - 27

Distribution of Major Causes of Deaths due to Diseases of the Nervous System under MCCD – 2016

Sl. No	Cause of Death	Male		Female		Total		% to Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	All Other Diseases of The Nervous System	919	41.42	528	38.57	1447	40.33	0.99
2	Encephalitis, Myelitis and Encephalomyelitis	494	22.26	316	23.08	810	22.58	0.55
3	Meningitis	427	19.24	304	22.21	731	20.37	0.50
4	Others	379	17.08	221	16.14	600	16.72	0.41
	Total Medically Certified Deaths due to Diseases of Nervous System	2219	100.00	1369	100.00	3588	100.00	2.45
	Deaths due to Diseases of Nervous System as percentage to total Medically Certified Deaths		2.36		2.61		2.45	

Chart – 20

PERCENTAGE DISTRIBUTION OF MAJOR CAUSES OF DEATHS DUE TO DISEASES OF THE NERVOUS SYSTEM UNDER MCCD – 2016



‘All other Diseases of the Nervous System’ accounts for the maximum (40.33 per cent) deaths reported under this group, followed by *‘Meningitis’* (20.37 per cent) and *‘Encephalitis Myelitis and Encephalomyelitis’* (22.58 per cent). The share of *‘Meningitis’* in the total medically certified deaths is about 0.50 per cent.

3.16.1 The age group ‘70 & above’ has reported the maximum deaths (16.39 per cent) under the major group *‘Diseases of the Nervous System’*, this is followed by age groups 45-54 and 35-44 years have 13.74 per cent and 13.43 per cent respectively. Viewed from the angle of age, it affects worstly the age group below 1 year (4.12 per cent). The distribution of age-wise deaths is depicted in **Statement-28** and **Chart-21**.

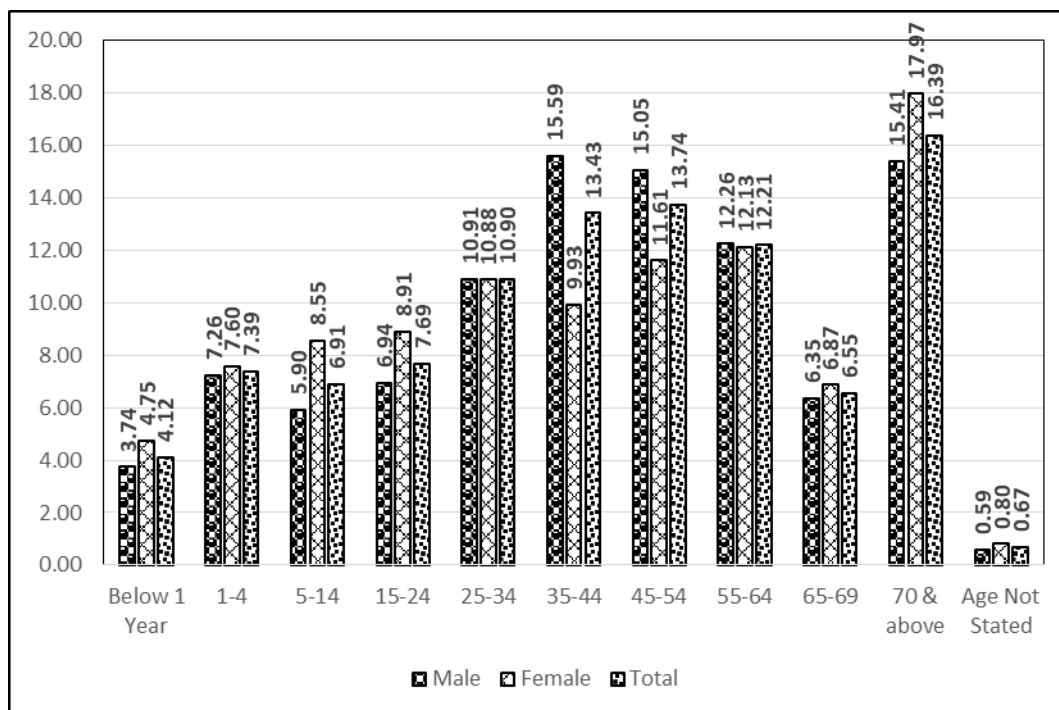
Statement – 28

Agewise Distribution of Deaths Due to Diseases of the Nervous System Under MCCD - 2016

Sl. No	Age Group (In Years)	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Below 1 Year	83	3.74	65	4.75	148	4.12
2	1-4	161	7.26	104	7.60	265	7.39
3	5-14	131	5.90	117	8.55	248	6.91
4	15-24	154	6.94	122	8.91	276	7.69
5	25-34	242	10.91	149	10.88	391	10.90
6	35-44	346	15.59	136	9.93	482	13.43
7	45-54	334	15.05	159	11.61	493	13.74
8	55-64	272	12.26	166	12.13	438	12.21
9	65-69	141	6.35	94	6.87	235	6.55
10	70 & above	342	15.41	246	17.97	588	16.39
11	Age Not Stated	13	0.59	11	0.80	24	0.67
	Total	2219	100.00	1369	100.00	3588	100.00

Chart- 21

AGE DISTRIBUTION OF DEATHS DUE TO DISEASES OF THE NERVOUS SYSTEM UNDR MCCD – 2016



3.17 Congenital Malformations, Deformations and Chromosomal Abnormalities (XVII)

Merely 2100 deaths are reportedly caused by ‘*Congenital Malformations, deformations and Chromosomal abnormalities*’, constituting about 1.36 per cent of the total medically certified deaths. The majority of these deaths occur for age less than one year (1255 or 63.00 per cent). Under this cause group, about 64.91 per cent deaths are caused by malformation of various Circulatory System. The distribution of major causes of death under this group is presented in **Statement – 28**.

Statement – 28

Distribution of Deaths due to 'Congenital Malformations, Deformations and Chromosomal Abnormalities' under MCCD – 2016

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	8	6	14	0.70
2	Congenital Malformations of the Circulatory System	871	422	1293	64.91
3	Cleft Lip and Cleft Palate	0	0	0	0.00
4	All other Congenital Malformations, Deformations & Chromosomal Abnormalities	376	309	685	34.39
	Total	1255	737	1992	
	Percentage to Total	63.00	37.00	100.00	

3.18. 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 1.45 per cent of total male and 2.38 per cent of total female medically certified deaths. “*Other Anaemias*” is the major cause constitutes around 85.87 per cent of total deaths reported in the cause group and 1.53 per cent of the total medically certified deaths. The distribution of major causes of deaths under this group is presented in **Statement-29**.

Statement-29

Distribution of Major Causes of Deaths due to Diseases of the Blood and Blood forming organs and Certain Disorders involving the Immune Mechanism Under MCCD-2016

Sl. No	Cause of Death	Male		Female		Total		% To Total Medically Certified Deaths
		No.	%	No.	%	No.	%	
1	Other Anaemias	1149	84.30	1094	87.59	2243	85.87	1.53
2	All other Diseases of Blood & Blood forming organs	199	14.60	141	11.29	340	13.02	0.23
	Others	15	1.10	14	1.12	29	1.11	0.02
	Total Medically Certified Deaths due to Blood and Blood forming organs and Immunity Mechanism	1363	100.00	1249	100.00	2612	100.00	1.78
	Deaths due to Diseases of Blood and Blood forming organs and Immunity Mechanism as percentage to total medically certified deaths		1.45		2.38		1.78	

3.19 Diseases of the Skin and Subcutaneous Tissue (XII)

These diseases account for 1064 medically certified deaths (0.72 per cent of the total medically certified deaths). This cause group accounts for 0.78 per cent of total male and 0.61 per cent of total female medically certified deaths. About 84.21 per cent of the deaths under the cause group are caused by ‘*Infections of the Skin and Subcutaneous Tissue*’ (896 deaths).

3.20 Complications of Pregnancy, Childbirth and the Puerperium (XV)

The group consisting of ‘*Complications of Pregnancy, Childbirth and the Puerperium*’ has reportedly caused 550 deaths (1.05 per cent of the total female medically certified deaths). As high as 93.82 per cent of deaths under this cause group

have been due to obstetric causes like *‘Other Complications of Pregnancy and Delivery, ‘Complications Pre-dominantly Related to the Puerperium’, ‘Oedema, Proteinuria and hypertensive disorders in Pregnancy, Child Birth and Puerperium’* and some other related complications. The remaining 6.18 per cent deaths in this cause group are due to abortive outcome of Pregnancy such as Medical and Spontaneous Abortions and other obstetric conditions.

Statement - 30

Distribution of Deaths due to "Complication of Pregnancy, Childbirth and the Puerperium "under MCCD – 2016

Sl. No	Cause of Death	No.	%	% to total female Medically Certified Deaths
1	Other Direct Obstetric Deaths	516	93.82	0.98
2	Pregnancy with Abortive Outcome	28	5.09	0.05
3	Other Obstetric Conditions not elsewhere Classified	6	1.09	0.01
	Total Medically Certified Deaths due to Complication of Pregnancy, Childbirth and Puerperium	550	100.00	1.05

3.21 Diseases of the Musculoskeletal System and Connective Tissue (XIII)

This has contributed to only 311 deaths i.e. around 0.21 per cent of total medically certified deaths.

3.22 Mental and Behavioural Disorders (V)

The group relating to Mental and Behavioural disorders accounts for 130 deaths (0.08 per cent of total medically certified deaths). The age group 25-64 years constitutes around 83.84 per cent of total deaths due to *‘Mental and Behavioural Disorders’*. Under this cause group, the deaths due to *‘Mental and Behavioural disorders due to Psychoactive Substance use’* constitutes the highest share (65.38 per cent) of total deaths. The ratio of males to females was disproportionate in this group (109 males to 21 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 – 2016

Sl. No	Cause of Death	Age Group								% 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	6	29	31	12	7	85	65.38
2	Schizophrenia, Schizotypal & Delusional Disorders	0	0	5	9	7	1	8	30	23.08
3	All Other Mental Behavioural Disorders	0	0	3	4	1	1	6	15	11.54
	Total	0	0	14	42	39	14	21	130	100.00
	Percentage to total	0	0.0	10.77	32.31	30.00	10.77	16.15	100.0	

3.23 The least harmful major causes are Diseases of the Ear and Mastoid Process (VIII) and Diseases of the Eye and Adnexa (VII). No significant mortality is reported due to these causes. They are reporting merely 2 and 1 deaths from each group respectively.

CHAPTER - IV

SCHEME OF MCCD :

SPECIFIC CAUSE OF MORTALITY IN
DIFFERENT AGE GROUPS

CHAPTER- IV

SPECIFIC CAUSE OF MORTALITY IN DIFFERENT AGE GROUPS

This chapter analyses the specific cause of mortality among different age groups by gender.

4.1. Infants: Out of the total medically certified deaths, around one- fourteenth 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 6.58 per cent and 7.68 per cent respectively. The maximum incidence of death under this age group (83.86 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, and Hypoxia, Birth Asphyxia and other Respiratory Conditions** (82.72 per cent). This is followed by *‘Congenital Malformations, Deformations & Chromosomal Abnormalities’* (12.28 per cent) of which *Congenital Malformations of the Circulatory System* (69.40 per cent) is the major constituent. *‘Certain Infectious and Parasitic Diseases’* which contribute to about 1.82 per cent of the total infant deaths, assume third rank, having *Diarrhoea and Gastro enteritis of Presumed Infectious Origin* (44.62 per cent) 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**

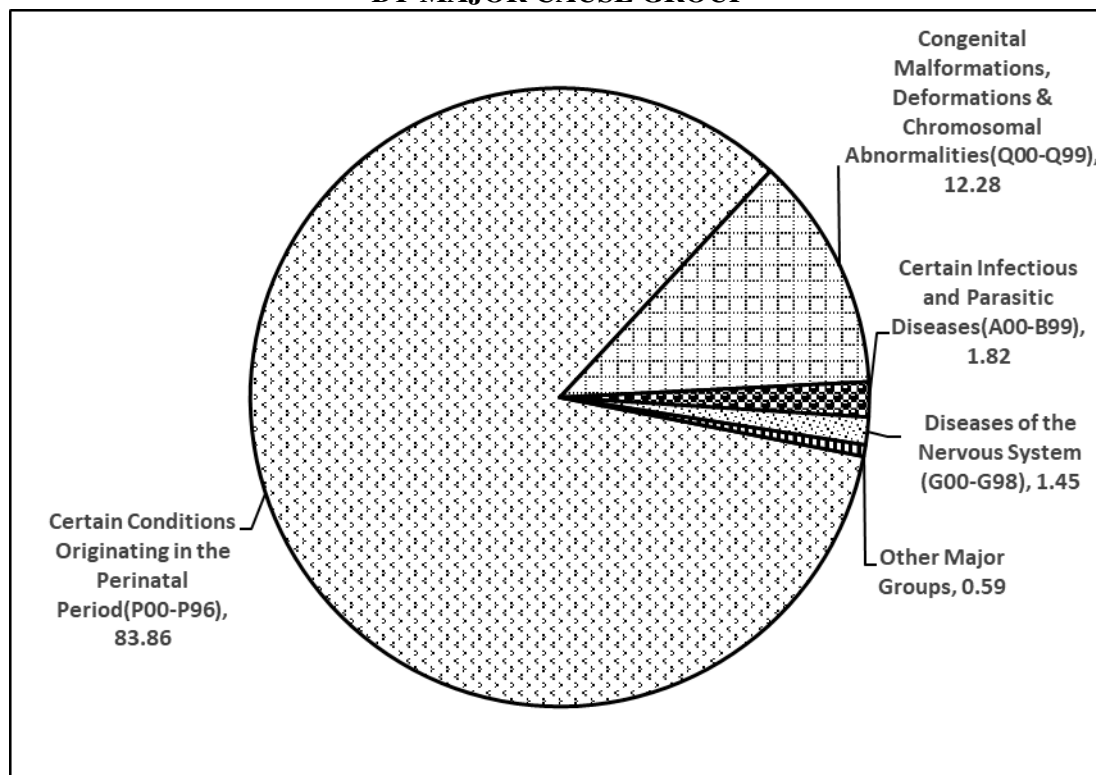
Statement – 32

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)	5160	83.31	3409	84.72	8569	83.86
2	Congenital Malformations, Deformations & Chromosomal Abnormalities(Q00-Q99)	795	12.84	460	11.43	1255	12.28
3	Certain Infectious and Parasitic Diseases(A00-B99)	119	1.92	67	1.67	186	1.82
4	Diseases of the Nervous System (G00-G98)	83	1.34	65	1.62	148	1.45
5	Other Major Groups	37	0.60	23	0.57	60	0.59
	Total Medically Certified Deaths in the age group <1 Year	6194	100.00	4024	100.00	10218	100.00
	Deaths in the age group <1 year as percentage to total Medically certified deaths		6.58		7.68		6.97

Chart – 22

PERCENTAGE DISTRIBUTION OF MORTALITY AMONG INFANTS
BY MAJOR CAUSE GROUP

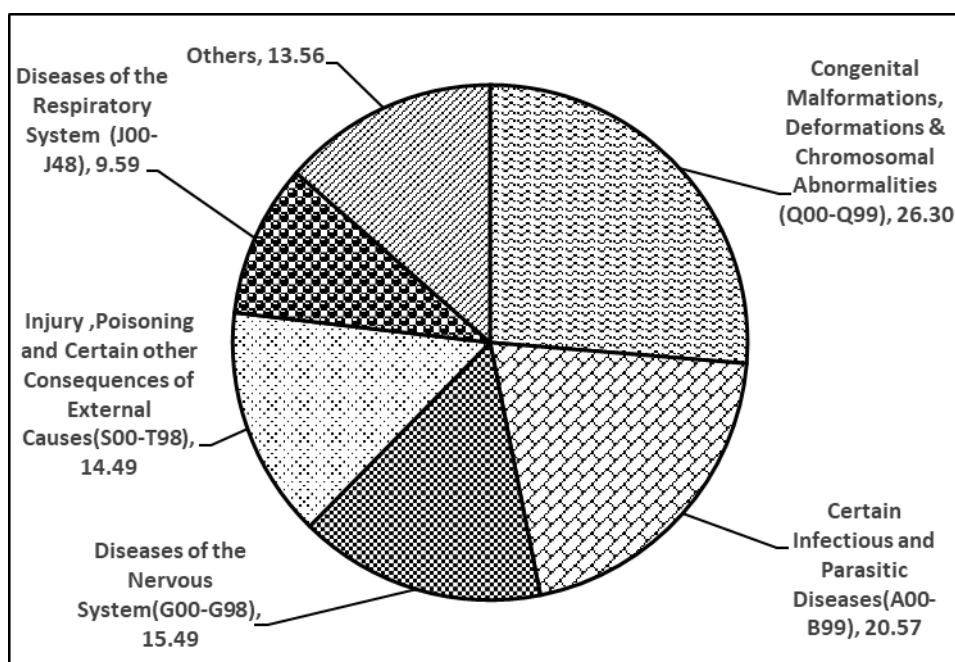


4.2 Children aged 1-4 year : Of the total medically certified deaths, 1.17 per cent has been reported from this age-group, accounting for 1.05 per cent and 1.38 per cent of total male and female medically certified deaths respectively. **‘Congenital Malformations, Deformations and Chromosomal Abnormalities’** rank first, constituting 26.30 per cent of total medically certified deaths in the age group under which ***Congenital Malformations of the Circulatory System*** is the leading cause contribute around 53.11 per cent of the deaths in Congenital Abnormalities group. **‘Certain infectious and Parasitic Diseases’** is the second leading cause contribute around 20.57 per cent of total medically certified deaths in the age group. ***Septicaemia*** (24.43 per cent), ***Other Arthropod Born Viral Fevers and Viral Haemorrhagic fevers*** (21.59 per cent) and ***Diarrhoea and Gastro enteritis of Presumed Infectious Origin*** (21.30 per cent) are the major constituents. The third leading cause group of deaths, **‘Diseases of the Nervous System’** is responsible for 15.49 per cent of deaths in this age group. **‘Meningitis’** have taken about 38.86 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	Congenital Malformations, Deformations & Chromosomal Abnormalities (Q00-Q99)	281	28.44	169	23.37	450	26.30
2	Certain Infectious and Parasitic Diseases(A00-B99)	178	18.02	174	24.07	352	20.57
3	Diseases of the Nervous System(G00-G98)	161	16.30	104	14.38	265	15.49
4	Injury ,Poisoning and Certain other Consequences of External Causes(S00-T98)	142	14.37	106	14.66	248	14.49
5	Diseases of the Respiratory System (J00-J48)	94	9.51	70	9.68	164	9.59
6	Others	132	13.36	100	13.83	232	13.56
	Total Medically Certified Deaths in the age group 1-4 Years	988	100.00	723	100.00	1711	100.00
	Deaths in the age group 1-4 year as percentage to total Medically certified deaths		1.05		1.38		1.17

CHART -23
PERCENTAGE DISTRIBUTION OF MORTALITY AMONG CHILDREN IN THE AGE GROUP 1-4 YEARS BY MAJOR CAUSE GROUP



4.3 Children aged 0-4 year: Of the total medically certified deaths, 8.14 per cent has been reported from this age-group, accounting for 7.63 per cent and 9.06 per cent of total male and female medically certified deaths respectively. **‘Certain Conditions Originating in the Perinatal Period’** cause 71.84 per cent of deaths among this age group. **Congenital Malformations and Chromosomal Abnormalities** caused 14.29 per cent of deaths followed by **‘Certain infectious and Parasitic Diseases’** 4.51 per cent and **Diseases of Nervous System** 3.46 per cent. Under this age group the distribution of mortality in the age group 0-4 is by top 6 causes has been given in Statement-34.

Statement – 34
Distribution of Mortality among children in the Age Group 0-4 years
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)	5160	71.85	3410	71.83	8570	71.84
2	Congenital Malformations, Deformations & Chromosomal Abnormalities (Q00-Q99)	1076	14.98	629	13.25	1705	14.29
3	Certain Infectious and Parasitic Diseases (A00-B99)	297	4.14	241	5.08	538	4.51
4	Diseases of the Nervous System (G00-G98)	244	3.40	169	3.56	413	3.46
5	Injury ,Poisoning and Certain other Consequences of External Causes (S00-T98)	160	2.23	108	2.28	268	2.25
6	Diseases of the Respiratory System (J00-J48)	96	1.34	72	1.52	168	1.41
7	Others	149	2.07	118	2.49	267	2.24
	Total Medically Certified Deaths in the age group 0-4 Years	7182	100.00	4747	100.00	11929	100
	Deaths in the age group 0-4 year as percentage to total Medically certified deaths		7.63		9.06		8.14

4.3 Children aged 5-14 years: The share of this age group in the total medically certified deaths is 1.45 per cent, constituting 1.26 per cent and 1.78 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 27.98 per cent followed by **‘Injury, poisoning & certain consequences of External Causes (20.01 per cent), Diseases of the Nervous System (11.70 per cent), Congenital Malformation, Deformation & Chromosomal Abnormalities (11.61 per cent), Neoplasm (7.03 per cent) and Diseases of the Circulatory System (6.42 per cent).** The Distribution of mortality in the age group 5-14 years, by major cause groups is given in **Statement- 35** and **Chart - 24**.

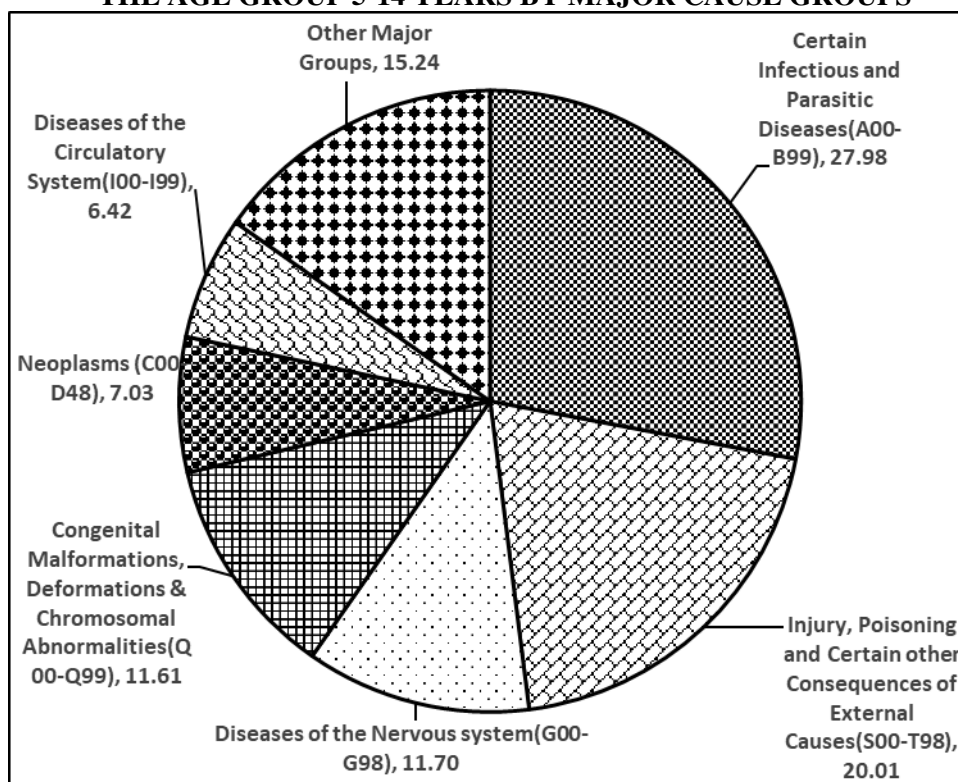
Statement – 35

Distribution of Mortality among children in the Age Group 5-14 years by Major Cause group-2016

Sl. No	Major Cause Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Certain Infectious and Parasitic Diseases(A00-B99)	327	27.57	266	28.51	593	27.98
2	Injury, Poisoning and Certain other Consequences of External Causes(S00-T98)	236	19.90	188	20.15	424	20.01
3	Diseases of the Nervous system(G00-G98)	131	11.05	117	12.54	248	11.70
4	Congenital Malformations, Deformations & Chromosomal Abnormalities(Q00-Q99)	155	13.07	91	9.75	246	11.61
5	Neoplasms (C00-D48)	93	7.84	56	6.00	149	7.03
6	Diseases of the Circulatory System(I00-I99)	72	6.07	64	6.86	136	6.42
7	Other Major Groups	172	14.50	151	16.18	323	15.24
	Total Medically Certified Deaths in the age group 5-14 Year	1186	100.00	933	100.00	2119	100.00
	Deaths in the age group 5-14 year as percentage to total Medically certified deaths		1.26		1.78		1.45

CHART – 24

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



4.4 Persons aged 15-24 years: This age-group has contributed to 3.79 per cent of the total medically certified deaths and the share of male and female deaths to the corresponding total being 3.15 per cent and 4.95 per cent respectively. The category consisting of *“Injury, Poisoning & certain other consequences of External causes”* has caused the maximum deaths 45.13 per cent of total deaths reported under this age group. *“Certain Infectious and Parasitic Diseases”, “Diseases of the Respiratory System” “Neoplasms” and “Diseases of the Nervous System”* are other leading causes of deaths, accounting for 14.78 per cent, 6.75 per cent and 6.72 per cent and 4.97 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 – 36** and **Chart-25**.

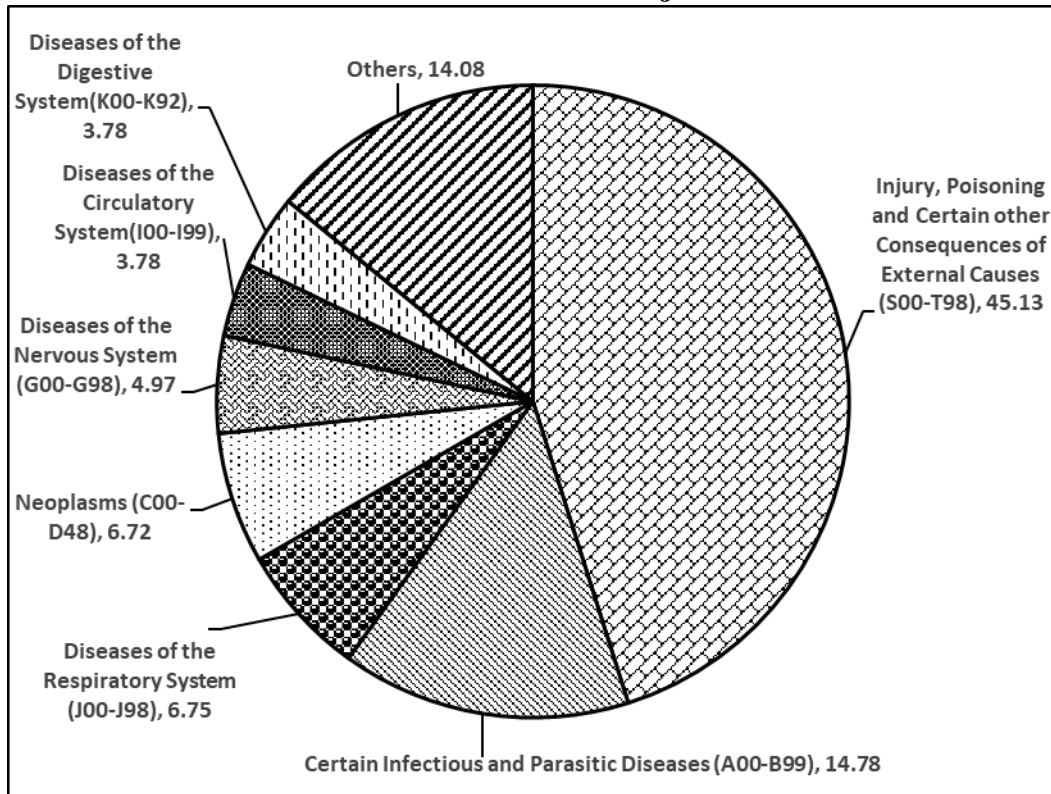
Statement – 36

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)	1453	49.09	1053	40.61	2506	45.13
2	Certain Infectious and Parasitic Diseases (A00-B99)	385	13.01	436	16.81	821	14.78
3	Diseases of the Respiratory System (J00-J98)	213	7.20	162	6.25	375	6.75
4	Neoplasms (C00-D48)	244	8.24	129	4.97	373	6.72
5	Diseases of the Nervous System (G00-G98)	154	5.20	122	4.70	276	4.97
6	Diseases of the Circulatory System(I00-I99)	108	3.65	102	3.93	210	3.78
7	Diseases of the Digestive System(K00-K92)	124	4.19	86	3.32	210	3.78
	Others	279	9.43	503	19.40	782	14.08
	Total Medically Certified Deaths in the age group 15-24 Year	2960	100.00	2593	100.00	5553	100.00
	Deaths in the age group 15-24 year as percentage to total Medically certified deaths		3.15		4.95		3.79

Chart – 25

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



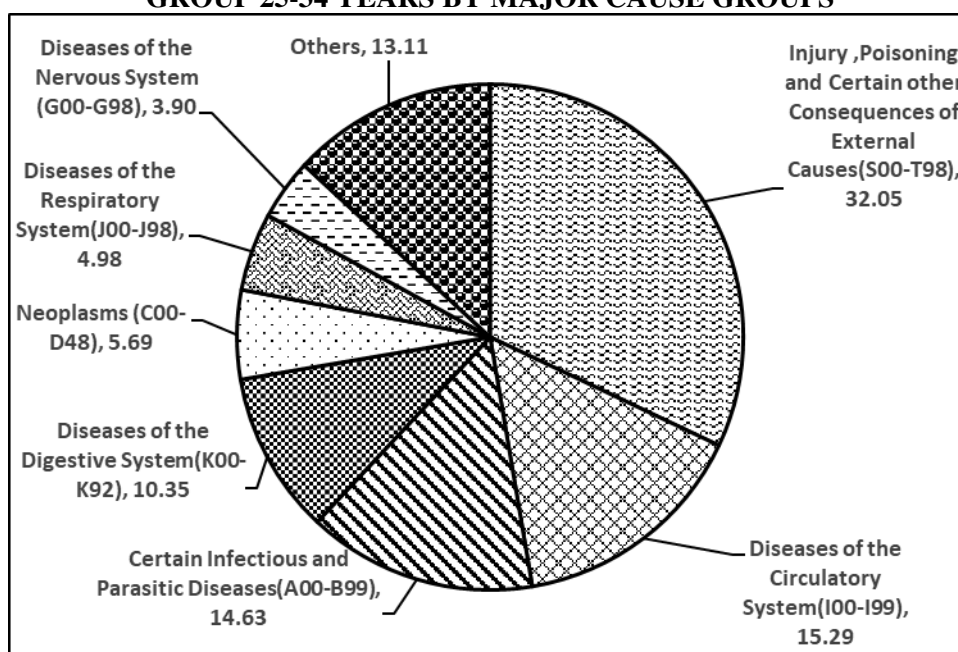
4.5 Persons aged 25-34 years: This age group has constituted around 6.84 per cent of total medically certified deaths. Around every fifteenth medically certified death belongs to this age-group, with 6.85 per cent and 6.81 per cent of total male and female medically certified deaths respectively coming from this age group. A significant percentage of deaths have been reported due to *'Injury, Poisoning & certain other consequences of External Causes'* (32.05 per cent). The two other major determinants of deaths are *'Diseases of the Circulatory System'* (15.29 per cent) and *'Certain Infectious and Parasitic Diseases'* (14.63). The Distribution of Mortality in the age group 25-34 years, by major cause groups has been shown in **Statement - 37 & Chart- 26**

Statement – 37
Distribution of Mortality among persons in the Age Group 25-34 years
by Major Cause Groups

Sl. No	Major Cause Groups	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Injury ,Poisoning and Certain other Consequences of External Causes(S00-T98)	2200	34.11	1011	28.32	3211	32.05
2	Diseases of the Circulatory System(I00-I99)	1002	15.53	530	14.85	1532	15.29
3	Certain Infectious and Parasitic Diseases(A00-B99)	948	14.70	518	14.51	1466	14.63
4	Diseases of the Digestive System(K00-K92)	822	12.74	215	6.02	1037	10.35
6	Neoplasms (C00-D48)	338	5.24	232	6.50	570	5.69
5	Diseases of the Respiratory System(J00-J98)	294	4.56	205	5.74	499	4.98
7	Diseases of the Nervous System (G00-G98)	242	3.75	149	4.17	391	3.90
8	Others	604	9.36	710	19.89	1314	13.11
	Total Medically Certified Deaths in the age group 25-34 Year	6450	100.00	3570	100.00	10020	100.00
	Deaths in the age group 25-34 year as percentage to total Medically certified deaths		6.85		6.81		6.84

Chart -26

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



4.6 Persons aged 35-44 years : The overall contribution of this age-group in total medically certified deaths is 10.35 per cent, accounting for 11.51 per cent for male and 8.27 per cent of female deaths. *'Diseases of the Circulatory System (21.40 per cent)'*, *'Injury Poisoning and Certain other Consequences of External Causes (20.36 per cent)'*, *'Certain Infectious and Parasitic Diseases (13.70 per cent)'*, *'Diseases of Digestive System (13.19 per cent)'*, *'Neoplasms (8.33 per cent)'* and *'Diseases of Respiratory System (6.86 per cent)'* are leading cause groups of deaths together contributing around 83.85 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-38** and **Chart-27**.

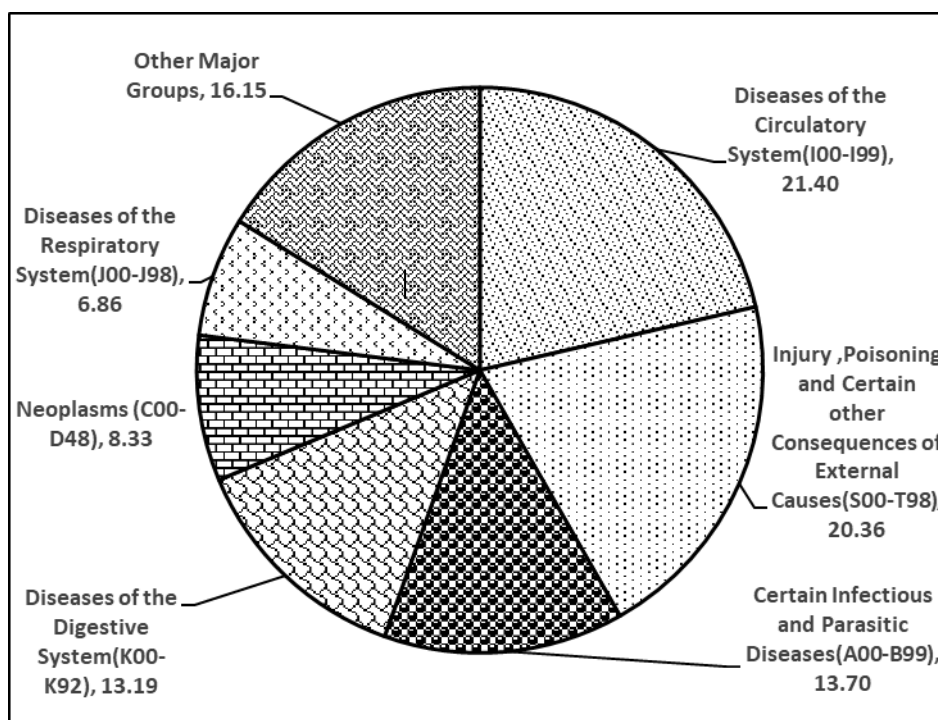
Statement -38

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

Sl. No	Major Cause Groups	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Diseases of the Circulatory System(I00-I99)	2311	21.33	936	21.59	3247	21.40
2	Injury ,Poisoning and Certain other Consequences of External Causes(S00-T98)	2285	21.09	804	18.55	3089	20.36
3	Certain Infectious and Parasitic Diseases(A00-B99)	1432	13.21	647	14.93	2079	13.70
4	Diseases of the Digestive System(K00-K92)	1798	16.59	203	4.68	2001	13.19
5	Neoplasms (C00-D48)	666	6.15	598	13.79	1264	8.33
6	Diseases of the Respiratory System(J00-J98)	709	6.54	332	7.66	1041	6.86
7	Other Major Groups	1636	15.10	815	18.80	2451	16.15
	Total Medically Certified Deaths in the age group 35-44 Years	10837	100.00	4335	100.00	15172	100.00
	Deaths in the age group 35-44 year as percentage to total Medically certified deaths		11.51		8.27		10.35

Chart – 27

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

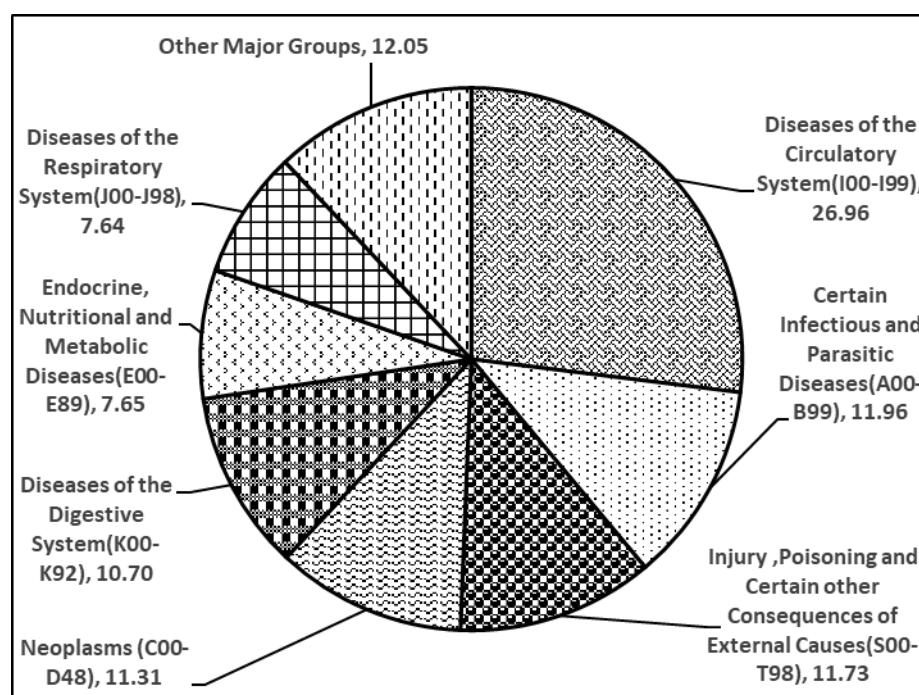


4.7 Persons aged 45-54 years: This age group has contributed to 15.72 per cent of the total medically certified deaths, constituting 16.86 per cent and 13.67 per cent of total male and female medically certified deaths respectively. The prominent causes of mortality in this age group are *'Diseases of Circulatory System'* (26.96 per cent), *'Certain, Infectious and Parasitic Diseases'* (11.96 per cent), *'Injury, Poisoning & Certain other consequences of External Causes'* (11.73 per cent), *'Neoplasms'* (11.31 per cent), *'Diseases of the Digestive System'* (10.70 per cent) and *'Endocrine, Nutritional and Metabolic Diseases'* (7.65 per cent) and *'Diseases of the Respiratory System'* (7.64 per cent) which together contribute around 87.95 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 – 39** and **Chart -28**.

Statement – 39
Distribution of Mortality among persons in the Age Group 45-54 years
by Major Cause Groups

Sl. No	Major Cause Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Diseases of the Circulatory System(I00-I99)	4401	27.74	1807	25.22	6208	26.96
2	Certain Infectious and Parasitic Diseases(A00-B99)	1908	12.03	847	11.82	2755	11.96
3	Injury ,Poisoning and Certain other Consequences of External Causes(S00-T98)	2006	12.64	695	9.70	2701	11.73
4	Neoplasms (C00-D48)	1369	8.63	1236	17.25	2605	11.31
5	Diseases of the Digestive System(K00-K92)	2081	13.12	383	5.35	2464	10.70
6	Endocrine, Nutritional and Metabolic Diseases(E00-E89)	1127	7.10	634	8.85	1761	7.65
7	Diseases of the Respiratory System(J00-J98)	1181	7.44	579	8.08	1760	7.64
	Other Major Groups	1792	11.30	984	13.73	2776	12.05
	Total Medically Certified Deaths in the age group 45-54 Years	15865	100.00	7165	100.00	23030	100.00
	Deaths in the age group 45-54 year as percentage to total Medically certified deaths		16.86		13.67		15.72

Chart – 28
PERCENTAGE DISTRIBUTION OF MORTALITY AMONG PERSONS IN THE AGE GROUP 45-54 YEARS BY MAJOR CAUSE GROUPS



4.8 Persons aged 55-64 years: This age group has a share of 19.14 per cent in the total medically certified deaths, accounting for 19.97 per cent and 17.63 per cent of total male and female medically certified deaths respectively. *‘Diseases of the Circulatory System’* have contributed to the maximum number (37.48 per cent) of total deaths in this age-group, followed by *Neoplasms* (12.34 per cent), *‘Certain Infectious and Parasitic Diseases (8.84 per cent), ‘Diseases of the Respiratory System (8.41 per cent).* In *Diseases of the Circulatory System deaths “Ischaemic Heart Diseases”* have taken the highest toll contributing around 35.52 per cent of total deaths. Under the cause group *Neoplasm* two major constituents i.e., *Malignant Neoplasm of Digestive organs* and *Malignant Neoplasms of Genito urinary Organs, together* accounting for 48.86 per cent. Under the cause group *‘Certain Infectious and Parasitic Diseases, the Respiratory Tuberculosis* constitutes 33.69 per cent. *‘Diseases of the Respiratory System’* is responsible for 8.41 per cent of the total deaths under this age group has two major causes constitutes i.e., *Pneumonia and Asthma*, together accounting for 32.89 per cent of total Respiratory system deaths. The distribution of mortality in the age group 55-64 years by major cause group has been highlighted in the **Statement-40** and **Chart – 29**.

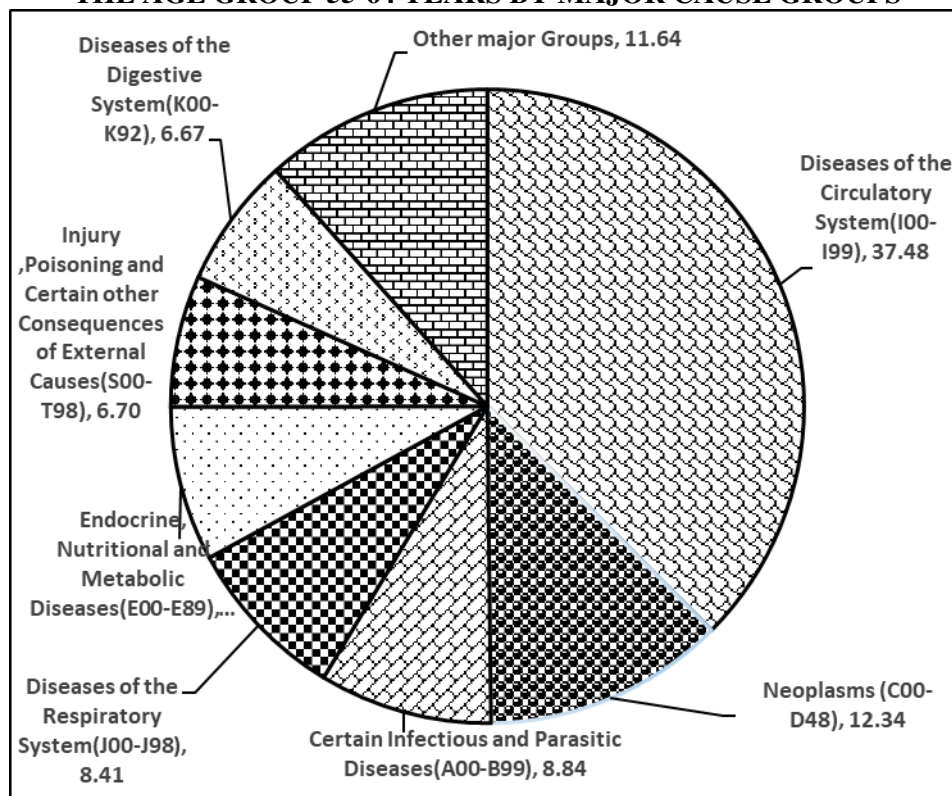
Statement - 40

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)	7052	37.51	3457	37.42	10509	37.48
2	Neoplasms (C00-D48)	2040	10.85	1420	15.37	3460	12.34
3	Certain Infectious and Parasitic Diseases(A00-B99)	1681	8.94	797	8.63	2478	8.84
4	Diseases of the Respiratory System(J00-J98)	1653	8.79	706	7.64	2359	8.41
5	Endocrine, Nutritional and Metabolic Diseases(E00-E89)	1339	7.12	878	9.50	2217	7.91
6	Injury ,Poisoning and Certain other Consequences of External Causes(S00-T98)	1438	7.65	441	4.77	1879	6.70
7	Diseases of the Digestive System(K00-K92)	1498	7.97	373	4.04	1871	6.67
	Other major Groups	2098	11.16	1167	12.63	3265	11.64
	Total Medically Certified Deaths in the age group 55-64 Years	18799	100.00	9239	100.00	28038	100.00
	Deaths in the age group 55-64 year as percentage to total Medically certified deaths		19.97		17.63		19.14

Chart – 29

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



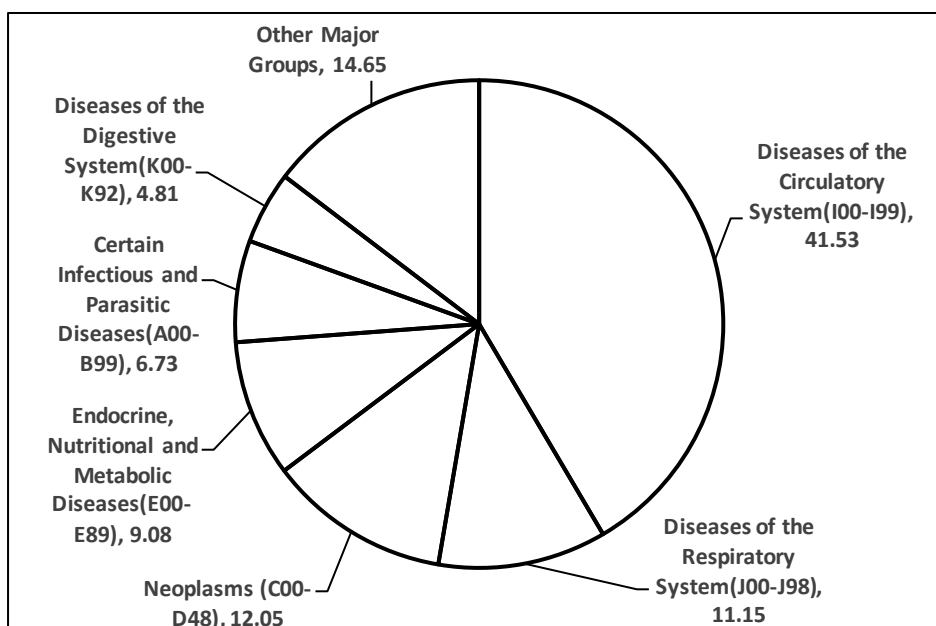
4.9 Persons aged 65-69 years: The share of this age group in total medically certified deaths is 11.29 per cent, constituting 11.48 per cent and 10.95 per cent of total male and female medically certified deaths respectively. In this age group, *'Diseases of the Circulatory System'* alone constitute the highest number of deaths (41.53 per cent). *'Ischaemic Heart Diseases'* constitute the highest share around 38.82 per cent of circulatory system deaths under this age group. The second leading cause group of death in this age group is *'Diseases of the Respiratory System'* with the share of 11.15 per cent. *'Other Lower Respiratory Disorders'* and *'Pneumonia'* are being the major constituents with the shares of 51.81 per cent and 14.14 per cent of this cause group respectively. *'Neoplasm'* rank third with 12.05 percent of the total deaths. Under this cause group *'Malignant Neoplasm of Digestive Organs'* is the main cause alone contribute 37.43 per cent of the deaths. *'Endocrine, Nutritional & Metabolic Diseases'* rank 4th with 9.08 per cent of the total deaths. Under this cause group *'Diabetes Mellitus'* alone contribute 93.07 per cent of the deaths (Ref.Table-2). The distribution of mortality in the age group 65-69 years, by major cause groups has been portrayed in **Statement-41** and **Chart-30**.

Statement - 41
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)	4487	41.53	2383	41.52	6870	41.53
2	Diseases of the Respiratory System(J00-J98)	1309	12.12	536	9.34	1845	11.15
3	Neoplasms (C00-D48)	1219	11.28	774	13.48	1993	12.05
4	Endocrine, Nutritional and Metabolic Diseases(E00-E89)	846	7.83	656	11.43	1502	9.08
5	Certain Infectious and Parasitic Diseases(A00-B99)	770	7.13	343	5.98	1113	6.73
6	Diseases of the Digestive System(K00-K92)	603	5.58	193	3.36	796	4.81
7	Other Major Groups	1569	14.52	855	14.90	2424	14.65
	Total Medically Certified Deaths in the age group 65-69 Years	10803	100.00	5740	100.00	16543	100.00
	Deaths in the age group 65-69 years as percentage to total Medically certified deaths		11.48		10.95		11.29

Chart - 30

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



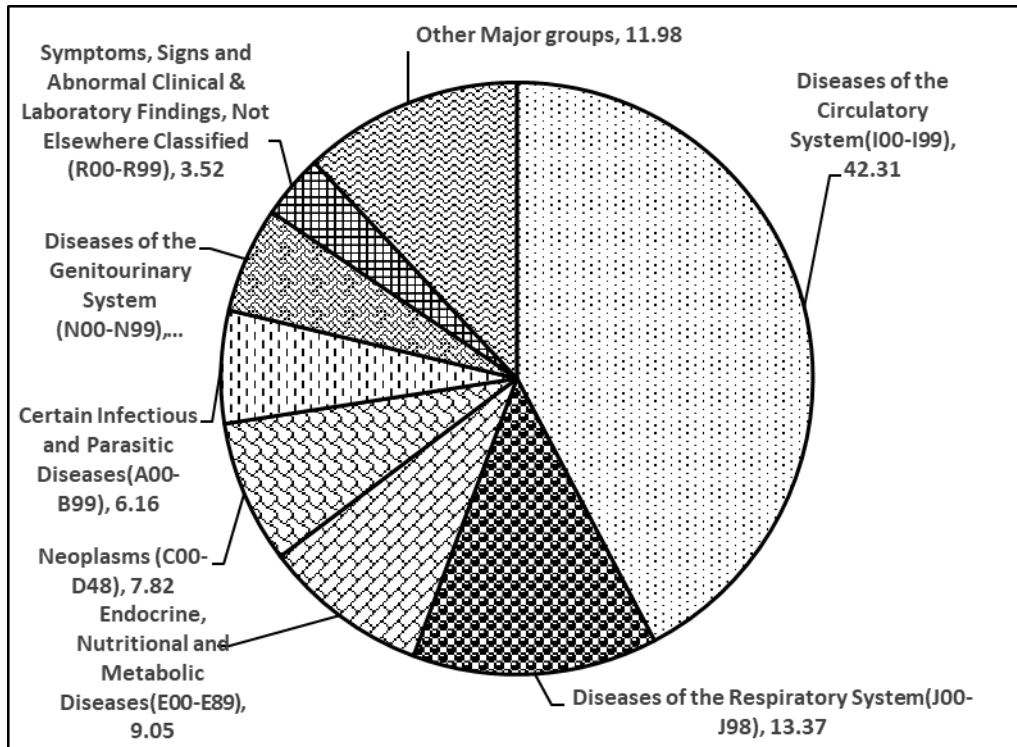
4.10 Old aged Persons 70 years and above: This age group, as expected, has reported the maximum incidence (22.80 per cent) of total medically certified deaths. As high as 20.84 per cent and 26.33 per cent of total male and female medically certified deaths have respectively been reported from this age group. In this age group *'Diseases of the Circulatory System'* alone contribute 42.31 per cent of deaths. *Ischemic Heart Diseases* constitute maximum number (34.61 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 13.37 per cent of total deaths under this age group *'Other Lower Respiratory Disorders'* and *'Asthama'* are the major constituents of Diseases of Respiratory system with the shares of 46.22 per cent and 18.43 per cent respectively. With the share of 9.05 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 92.00 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-42 & Chart-31.**

Statement -42
Distribution of Mortality among Old aged persons (70 or above years)
by Major Cause Groups

Sl. No	Major Cause Group	Male		Female		Total	
		No.	%	No.	%	No.	%
1	Diseases of the Circulatory System(I00-I99)	7893	40.25	6244	45.25	14137	42.31
2	Diseases of the Respiratory System(J00-J98)	2971	15.15	1496	10.84	4467	13.37
3	Endocrine, Nutritional and Metabolic Diseases(E00-E89)	1583	8.07	1442	10.45	3025	9.05
4	Neoplasms (C00-D48)	1558	7.94	1054	7.64	2612	7.82
5	Certain Infectious and Parasitic Diseases(A00-B99)	1317	6.72	740	5.36	2057	6.16
6	Diseases of the Genitourinary System (N00-N99)	1218	6.21	715	5.18	1933	5.79
7	Symptoms, Signs and Abnormal Clinical & Laboratory Findings, Not Elsewhere Classified (R00-R99)	801	4.08	376	2.72	1177	3.52
	Other Major groups	2271	11.58	1733	12.56	4004	11.98
	Total Medically Certified Deaths in the age group 70 or above Years	19612	100.00	13800	100.00	33412	100.00
	Deaths in the age group 70 or above years as percentage to total Medically certified deaths		20.84		26.33		22.80

CHART – 31

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



APPENDICES

LIST OF STATISTICAL TABLES

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TABLE 1: MEDICALLY CERTIFIED DEATHS BY AGE,SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA

SL. NO	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	119	178	327	385	948	1432	1908	1681	770	1317	20	9085
		Female	67	174	266	436	518	647	847	797	343	740	20	4855
		Total	186	352	593	821	1466	2079	2755	2478	1113	2057	40	13940
2	NEOPLASMS (C00-D48)	Male	14	41	93	244	338	666	1369	2040	1219	1558	77	7659
		Female	11	33	56	129	232	598	1236	1420	774	1054	82	5625
		Total	25	74	149	373	570	1264	2605	3460	1993	2612	159	13284
3	DISEASES OF THE BLOOD & BLOOD FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM (D50-D89)	Male	0	27	31	56	131	181	323	213	139	259	3	1363
		Female	1	22	31	114	139	128	251	160	101	299	3	1249
		Total	1	49	62	170	270	309	574	373	240	558	6	2612
4	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES(E00-E89)	Male	0	9	22	40	133	341	1127	1339	846	1583	24	5464
		Female	0	1	15	58	89	173	634	878	656	1442	16	3962
		Total	0	10	37	98	222	514	1761	2217	1502	3025	40	9426
5	MENTAL AND BEHAVIOURAL DISORDERS(F01-F99)	Male	0	0	0	0	14	37	34	10	6	8	0	109
		Female	0	0	0	0	0	5	5	4	3	4	0	21
		Total	0	0	0	0	14	42	39	14	9	12	0	130
6	DISEASES OF THE NERVOUS SYSTEM(G00-G98)	Male	83	161	131	154	242	346	334	272	141	342	13	2219
		Female	65	104	117	122	149	136	159	166	94	246	11	1369
		Total	148	265	248	276	391	482	493	438	235	588	24	3588
7	DISEASES OF THE EYE AND ADNEXA (H00-H59)	Male	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	1	0	0	0	1
		Total	0	0	0	0	0	0	0	0	1	0	0	1

TABLE 1: MEDICALLY CERTIFIED DEATHS BY AGE,SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA

SL. NO	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
8	DISEASES OF THE EAR AND MASTOID PROCESS(H60-H95)	Male	0	0	0	0	0	0	1	0	0	0	0	1
		Female	0	0	0	0	0	0	0	1	0	0	0	1
		Total	0	0	0	0	0	0	0	1	1	0	0	0
9	DISEASES OF THE CIRCULATORY SYSTEM(I00-I99)	Male	3	10	72	108	1002	2311	4401	7052	4487	7893	165	27504
		Female	7	7	64	102	530	936	1807	3457	2383	6244	102	15639
		Total	10	17	136	210	1532	3247	6208	10509	6870	14137	267	43143
10	DISEASES OF THE RESPIRATORY SYSTEM(J00-J98)	Male	2	94	52	213	294	709	1181	1653	1309	2971	39	8517
		Female	2	70	46	162	205	332	579	706	536	1496	22	4156
		Total	4	164	98	375	499	1041	1760	2359	1845	4467	61	12673
11	DISEASES OF THE DIGESTIVE SYSTEM (K00-K92)	Male	0	12	28	124	822	1798	2081	1498	603	801	34	7801
		Female	0	21	27	86	215	203	383	373	193	376	12	1889
		Total	0	33	55	210	1037	2001	2464	1871	796	1177	46	9690
12	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE(L00-L98)	Male	0	0	1	7	16	75	133	184	95	226	5	742
		Female	0	0	2	13	20	31	41	70	49	94	2	322
		Total	0	0	3	20	36	106	174	254	144	320	7	1064
13	DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE (M00-M99)	Male	0	0	1	8	10	12	29	50	26	47	3	186
		Female	0	0	2	4	11	9	26	33	7	33	0	125
		Total	0	0	3	12	21	21	55	83	33	80	3	311
14	DISEASES OF THE GENITOURINARY SYSTEM(N00-N99)	Male	0	10	6	69	176	336	559	1007	423	1218	23	3827
		Female	0	10	1	32	100	150	319	521	257	715	8	2113
		Total	0	20	7	101	276	486	878	1528	680	1933	31	5940

TABLE 1: MEDICALLY CERTIFIED DEATHS BY AGE,SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA

SL. NO	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	
15	PREGNANCY, CHILDBIRTH AND THE PUERPERIUM (O00-O99)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	226	289	35	0	0	0	0	0	0	
		Total	0	0	0	226	289	35	0	0	0	0	0	0	550
16	CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD(P00-P96)	Male	5160	0	0	0	0	0	0	0	0	0	0	5160	
		Female	3409	1	0	0	0	0	0	0	0	0	0	0	3410
		Total	8569	1	0	0	0	0	0	0	0	0	0	0	8570
17	CONGENITAL MALFORMATIONS, DEFORMATIONS & CHROMOSOMAL ABNORMALITIES (Q00-Q99)	Male	795	281	155	27	0	0	0	0	0	0	0	1258	
		Female	460	169	91	14	0	0	0	0	0	0	0	0	734
		Total	1255	450	246	41	0	0	0	0	0	0	0	0	1992
18	SYMPTOMS, SIGNS AND ABNORMAL CLINICAL & LABORATORY FINDINGS, NOT ELSEWHERE CLASSIFIED(R00-R99)	Male	0	23	31	72	124	308	379	362	250	757	14	2320	
		Female	0	5	27	42	62	148	183	211	170	676	10	1534	
		Total	0	28	58	114	186	456	562	573	420	1433	24	3854	
19	INJURY,POISONING AND CERTAIN OTHER COSEQUENCES OF EXTERNAL CAUSES (S00-T98)	Male	18	142	236	1453	2200	2285	2006	1438	489	632	0	10899	
		Female	2	106	188	1053	1011	804	695	441	174	381	0	4855	
		Total	20	248	424	2506	3211	3089	2701	1879	663	1013	0	15754	
20	EXTERNAL CAUSES OF MORBIDITY AND MORTALITY(V01-Y89)	Male	18	142	236	1453	2200	2285	2006	1438	489	632	0	10899	
		Female	2	106	188	1053	1011	804	695	441	174	381	0	4855	
		Total	20	248	424	2506	3211	3089	2701	1879	663	1013	0	15754	
	ALL CAUSES	MALE	6194	988	1186	2960	6450	10837	15865	18799	10803	19612	420	94114	
		FEMALE	4024	723	933	2593	3570	4335	7165	9239	5740	13800	288	52410	
		TOTAL	10218	1711	2119	5553	10020	15172	23030	28038	16543	33412	708	146524	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
I	CERTAIN INFECTIOUS AND PARASITIC DISEASES(A00-B99)	Male	119	178	327	385	948	1432	1908	1681	770	1317	20	9085	
		Female	67	174	266	436	518	647	847	797	343	740	20	4855	
		Total	186	352	593	821	1466	2079	2755	2478	1113	2057	40	13940	
1	INTESTINAL INFECTIOUS DISEASES(A00-A09)	Male	52	37	33	29	46	75	103	146	85	196	0	802	
		Female	34	41	27	30	25	55	69	99	62	157	0	599	
		Total	86	78	60	59	71	130	172	245	147	353	0	1401	
1	CHOLERA(A00)	Male	0	0	0	0	2	0	0	1	1	0	0	4	
		Female	0	0	0	0	0	0	0	1	1	4	0	6	
2	TYPHOID FEVER AND PARATYPHOID FEVERS(A01)	Male	0	0	0	3	3	0	3	6	5	13	0	33	
		Female	0	0	0	2	2	0	3	7	4	10	0	28	
3	FOOD POISONING(A02,A05)	Male	0	0	1	2	2	2	3	3	3	5	0	21	
		Female	0	0	1	0	0	1	0	0	1	5	0	8	
4	SHIGELLOSIS(A03)	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	
5	AMOEBIASIS(A06)	Male	2	2	0	2	6	5	3	6	0	7	0	33	
		Female	1	1	0	7	2	7	1	0	1	2	0	22	
6	DIARRHOEA AND GASTROENTERITIS OF PRESUMED INFECTIOUS ORIGIN(A09)	Male	50	35	32	22	33	68	94	129	76	170	0	709	
		Female	33	40	26	21	21	47	65	91	55	136	0	535	
7	OTHER INTESTINAL INFECTIOUS DISEASES(A04,A07-A08)	Male	0	0	0	0	0	0	0	1	0	0	0	1	
		Female	0	0	0	0	0	0	0	0	0	0	0	0	
2	TUBERCULOSIS(A15-A19)	Male	2	20	41	139	491	778	1061	722	331	492	9	4086	
		Female	0	17	16	144	221	291	365	250	94	135	2	1535	
		Total	2	37	57	283	712	1069	1426	972	425	627	11	5621	
1	RESPIRATORY TUBERCULOSIS(A15-A16)	Male	0	12	23	116	386	618	906	637	281	448	9	3436	
		Female	0	11	11	113	153	212	301	198	77	104	0	1180	
2	TUBERCULOSIS OF NERVOUS SYSTEM(A17)	Male	2	8	17	16	65	90	110	45	31	20	0	404	
		Female	0	6	4	23	44	49	45	23	14	23	2	233	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
3	TUBERCULOSIS OF OTHER ORGANS AND MILIARY TUBERCULOSIS(A18-A19)	Male	0	0	1	7	40	70	45	40	19	24	0	246	
		Female	0	0	1	8	24	30	19	29	3	8	0	122	
3	OTHER BACTERIAL DISEASES(A20-A49)	Male	14	42	82	82	189	312	498	626	284	515	6	2650	
		Female	11	52	66	112	111	142	241	326	144	377	17	1599	
		Total	25	94	148	194	300	454	739	952	428	892	23	4249	
1	PLAGUE(A20)	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	LEPROSY(A30)	Male	0	0	0	0	0	2	1	2	1	3	0	9	
		Female	0	0	0	0	0	0	4	1	0	3	0	8	
3	NEONATAL TETANUS(A33)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	2	0	0	0	0	0	0	0	0	0	0	2	
4	OTHER TETANUS(A34-A35)	Male	0	1	11	1	1	6	13	5	6	18	0	62	
		Female	0	2	3	0	0	4	2	4	2	12	1	30	
5	DIPHTHERIA(A36)	Male	9	0	0	0	0	0	0	0	0	0	0	9	
		Female	5	0	0	0	0	0	0	0	0	0	0	5	
6	WHOOPING COUGH(A37)	Male	5	0	0	0	0	0	0	0	0	0	0	5	
		Female	4	0	0	0	0	0	0	0	0	0	0	4	
7	MENINGOCOCCAL INFECTION(A39)	Male	0	0	0	0	1	0	2	0	0	0	0	3	
		Female	0	0	0	0	0	0	0	0	0	0	0	0	
8	SEPTICAEMIA(A40-A41)	Male	0	37	53	74	181	286	448	588	263	487	6	2423	
		Female	0	49	55	110	110	126	231	307	139	358	16	1501	
9	ALL OTHER TYPES OF BACTERIAL DISEASES(A21-A28,A31-A32,A38,A42-A49)	Male	0	4	18	7	6	18	34	31	14	7	0	139	
		Female	0	1	8	2	1	12	4	14	3	4	0	49	
4	INFECTIONS WITH A PREDOMINANTLY SEXUAL MODE OF TRANSMISSION(A50-A64)	Male	0	0	0	0	5	0	2	6	2	4	0	19	
		Female	0	0	0	0	2	4	0	3	1	0	0	10	
		Total	0	0	0	0	7	4	2	9	3	4	0	29	
1	SYPHILIS(A50-A53)	Male	0	0	0	0	0	0	0	0	2	0	0	2	
		Female	0	0	0	0	0	0	0	0	1	0	0	1	
2	OTHER TYPES OF INFECTIONS WITH A PREDOMINANTLY SEXUAL MODE OF TRANSMISSION (A54-A64)	Male	0	0	0	0	5	0	2	6	0	4	0	17	
		Female	0	0	0	0	2	4	0	3	0	0	0	9	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
5	VIRAL DISEASES(A70-A74 & A80-B34)	Male	51	72	162	127	199	212	180	132	54	92	5	1286	
		Female	22	62	145	128	140	129	131	83	30	61	1	932	
		Total	73	134	307	255	339	341	311	215	84	153	6	2218	
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	0	7	5	3	6	8	8	4	4	0	45	
		Female	0	0	3	1	2	2	2	4	0	5	0	19	
3	JAPANESE ENCEPHALITIS(A83.0)	Male	0	0	2	0	0	0	0	0	0	0	0	2	
		Female	0	0	0	1	0	0	0	0	0	0	0	1	
4	OTHER VIRAL ENCEPHALITIS(A83.1-A83.9,A84-A86)	Male	2	7	20	14	29	21	11	7	7	6	1	125	
		Female	0	10	20	23	27	22	10	5	4	9	0	130	
5	DENGUE FEVER(A90)	Male	0	10	14	2	7	6	7	0	1	5	0	52	
		Female	0	4	18	5	6	7	5	1	4	0	0	50	
6	OTHER ARTHOPOD-BORNE VIRAL FEVERS AND VIRAL HAEMORRHAGIC FEVERS (A91-A94, A96-A99)	Male	21	39	102	80	101	77	61	60	21	45	2	609	
		Female	10	37	92	60	62	38	62	53	12	36	0	462	
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	23	5	1	0	0	0	0	0	0	0	0	29	
		Female	12	2	3	0	0	0	0	0	0	0	0	17	
9	ACUTE HEPATITIS(B16)	Male	0	0	0	2	5	10	10	21	5	8	1	62	
		Female	0	0	1	4	5	5	1	1	3	1	0	21	
10	OTHER VIRAL HEPATITIS(B15, B17-B19)	Male	0	5	15	20	16	32	46	14	9	21	1	179	
		Female	0	9	5	24	15	20	23	12	7	4	0	119	
11	HUMAN IMMUNODEFICIENCY VIRUS[HIV]DISEASE(B20-B24)	Male	0	0	0	3	35	60	35	14	5	2	0	154	
		Female	0	0	0	7	21	35	27	3	0	0	0	93	
12	ALL OTHER TYPES OF VIRAL DISEASES(A70-A74,A81,A87-A89,A95, B00-B02,B04,B06-B09 & B25-B34)	Male	5	6	1	1	3	0	2	8	2	1	0	29	
		Female	0	0	3	3	2	0	1	4	0	6	1	20	
6	PROTOZOAL DISEASES(B50-B64)	Male	0	1	5	5	8	8	25	24	12	5	0	93	
		Female	0	0	7	10	4	7	20	18	8	7	0	81	
		Total	0	1	12	15	12	15	45	42	20	12	0	174	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
1	MALARIA(B50-B54)	Male	0	1	5	5	8	8	25	22	12	5	0	91	
		Female	0	0	7	10	4	7	20	18	8	7	0	81	
2	ALL OTHER TYPES OF PROTOZOAL DISEASES(B55-B64)	Male	0	0	0	0	0	0	0	2	0	0	0	2	
		Female	0	0	0	0	0	0	0	0	0	0	0	0	
7	OTHER CERTAIN INFECTIOUS AND PARASITIC DISEASES & LATE EFFECTS OF	Male	0	6	4	3	10	47	39	25	2	13	0	149	
	INFECTIOUS AND PARASITIC DISEASES (A65-A69 & A75-A79,B35-B49,	Female	0	2	5	12	15	19	21	18	4	3	0	99	
	B65-B94 & B99)	Total	0	8	9	15	25	66	60	43	6	16	0	248	
1	FILARIASIS(B74)	Male	0	0	0	0	0	0	0	0	0	3	0	3	
		Female	0	0	0	0	0	0	0	0	0	0	0	0	
2	OTHER HELMINTHIASIS(B65-B73,B75,B77-B83)	Male	0	0	0	0	2	0	0	2	0	4	0	8	
		Female	0	0	0	0	0	0	0	0	0	0	0	0	
3	OTHER SPIROCHAETAL DISEASES AND RICKETTSIOSSES(A65-A69 & A75-A79)	Male	0	3	0	1	0	7	4	3	0	0	0	18	
		Female	0	2	2	0	0	0	1	0	0	3	0	8	
4	ALL OTHER INFECTIOUS AND PARASITIC DISEASES & LATE EFFECTS OF INFECTIOUS DISEASES	Male	0	3	4	2	8	40	35	20	2	6	0	120	
	AND PARASITIC (B35-B49,B65,B76,B85-B99)	Female	0	0	3	12	15	19	20	18	4	0	0	91	
II	NEOPLASMS (C00-D48)	Male	14	41	93	244	338	666	1369	2040	1219	1558	77	7659	
		Female	11	33	56	129	232	598	1236	1420	774	1054	82	5625	
		Total	25	74	149	373	570	1264	2605	3460	1993	2612	159	13284	
8	MALIGNANT NEOPLASMS OF LIP, ORAL CAVITY AND PHARYNX (C00-C14)	Male	0	0	0	6	27	74	156	227	74	113	3	680	
		Female	0	0	0	2	9	25	43	70	39	76	1	265	
		Total	0	0	0	8	36	99	199	297	113	189	4	945	
1	MALIGNANT NEOPLASMS OF LIP, ORAL CAVITY AND PHARYNX (C00-C14)	Male	0	0	0	6	27	74	156	227	74	113	3	680	
		Female	0	0	0	2	9	25	43	70	39	76	1	265	
9	MALIGNANT NEOPLASMS OF DIGESTIVE ORGANS (C15-C26)	Male	0	0	0	13	53	232	526	754	540	521	39	2678	
		Female	0	0	0	1	34	127	267	337	206	309	9	1290	
		Total	0	0	0	14	87	359	793	1091	746	830	48	3968	
1	MALIGNANT NEOPLASM OF OESOPHAGUS (C15)	Male	0	0	0	1	3	13	101	163	86	97	20	484	
		Female	0	0	0	0	12	7	49	84	24	69	6	251	
2	MALIGNANT NEOPLASM OF STOMACH (C16)	Male	0	0	0	5	11	66	119	140	137	125	5	608	
		Female	0	0	0	1	7	28	47	70	52	75	0	280	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
3	MALIGNANT NEOPLASMS OF SMALL INTESTINE INCLUDING DUODENUM (C17)	Male	0	0	0	0	0	5	5	7	7	0	0	24	
		Female	0	0	0	0	0	0	0	6	5	0	0	11	
4	MALIGNANT NEOPLASM OF COLON (C18)	Male	0	0	0	7	7	30	64	66	60	56	2	292	
		Female	0	0	0	0	4	14	34	30	41	47	1	171	
5	MALIGNANT NEOPLASMS OF RECTOSIGMOID JUNCTION,RECTUM,ANUS AND ANAL CANAL (C19-C21)	Male	0	0	0	0	9	29	47	55	42	50	0	232	
		Female	0	0	0	0	3	35	35	38	12	22	0	145	
6	MALIGNANT NEOPLASMS OF LIVER AND INTRAHEPATIC BILE DUCTS (C22)	Male	0	0	0	0	22	48	105	206	137	109	7	634	
		Female	0	0	0	0	3	16	39	44	27	40	1	170	
7	MALIGNANT NEOPLASM OF PANCREAS (C25)	Male	0	0	0	0	1	28	44	55	35	47	3	213	
		Female	0	0	0	0	4	16	34	33	17	35	1	140	
8	OTHER MALIGNANT NEOPLASM OF DIGESTIVE ORGANS (C23-C24,C26)	Male	0	0	0	0	0	13	41	62	36	37	2	191	
		Female	0	0	0	0	1	11	29	32	28	21	0	122	
10	MALIGNANT NEOPLASMS OF RESPIRATORY & INTRATHORACIC ORGANS (C30-C39)	Male	0	0	0	9	19	59	198	454	248	281	8	1276	
		Female	0	0	0	6	9	31	85	137	68	86	3	425	
		Total	0	0	0	15	28	90	283	591	316	367	11	1701	
1	MALIGNANT NEOPLASM OF LARYNX (C32)	Male	0	0	0	0	2	4	38	62	39	42	2	189	
		Female	0	0	0	0	0	3	11	7	5	10	1	37	
2	MALIGNANT NEOPLASMS OF TRACHEA, BRONCHUS AND LUNG (C33-C34)	Male	0	0	0	7	17	54	152	381	203	231	6	1051	
		Female	0	0	0	4	9	27	70	127	60	68	2	367	
3	OTHER MALIGNANT NEOPLASMS OF RESPIRATORY AND INTRATHORACIC ORGANS (C30-C31,C37-C39)	Male	0	0	0	2	0	1	8	11	6	8	0	36	
		Female	0	0	0	2	0	1	4	3	3	8	0	21	
11	MALIGNANT NEOPLASMS OF BONE,MESOTHELIAL AND SOFT TISSUE, SKIN AND BREAST(C40-C50)	Male	0	0	1	17	20	26	40	36	26	27	2	195	
		Female	0	2	3	6	49	101	275	201	118	145	29	929	
		Total	0	2	4	23	69	127	315	237	144	172	31	1124	
1	MALIGNANT NEOPLASMS OF BONE AND ARTICULAR CARTILAGE (C40-C41)	Male	0	0	1	10	15	16	8	8	7	5	1	71	
		Female	0	2	2	5	10	8	9	10	0	7	0	53	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
2	MALIGNANT MELANOMA OF SKIN (C43)	Male	0	0	0	2	0	1	7	11	6	8	0	35	
		Female	0	0	0	1	0	0	2	3	1	0	0	7	
3	OTHER MALIGNANT NEOPLASM OF SKIN (C44)	Male	0	0	0	0	0	0	0	1	1	2	0	4	
		Female	0	0	0	0	1	0	0	1	0	3	0	5	
4	MALIGNANT NEOPLASMS OF MESOTHELIAL AND SOFT TISSUE (C45-C49)	Male	0	0	0	5	5	9	25	16	12	12	1	85	
		Female	0	0	1	0	8	6	18	12	6	12	1	64	
5	MALIGNANT NEOPLASM OF BREAST (C50)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	0	30	87	246	175	111	123	28	800	
12	MALIGNANT NEOPLASMS OF GENITOURINARY ORGANS(C51-C68)	Male	0	0	0	0	1	5	71	180	103	284	6	650	
		Female	0	0	0	0	39	125	325	419	180	254	29	1371	
		Total	0	0	0	0	40	130	396	599	283	538	35	2021	
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	12	61	145	197	61	78	3	557	
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	1	14	33	50	28	45	6	177	
3	MALIGNANT NEOPLASM OF OVARY (C56)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	0	23	36	128	143	71	102	20	523	
4	MALIGNANT NEOPLASMS OF PLACENTA (C58)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	0	3	1	0	2	0	0	0	6	
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	11	5	6	6	4	0	32	
6	MALIGNANT NEOPLASM OF PROSTATE (C61)	Male	0	0	0	0	0	0	0	98	33	205	2	338	
		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	0	2	18	17	13	12	0	62	
		Female	0	0	0	0	0	0	0	0	0	0	0	0	
8	MALIGNANT NEOPLASM OF BLADDER (C67)	Male	0	0	0	0	1	3	28	30	33	36	3	134	
		Female	0	0	0	0	0	1	7	16	6	17	0	47	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
9	OTHER MALIGNANT NEOPLASM OF URINARY TRACT (C64-C66,C68)	Male	0	0	0	0	0	0	25	35	24	31	1	116	
		Female	0	0	0	0	0	1	7	5	8	8	0	29	
13	MALIGNANT NEOPLASMS OF EYE,BRAIN AND OTHER PARTS OF CENTRAL NERVOUS SYSTEM (C69-C72)	Male	0	1	3	8	7	7	10	30	17	9	1	93	
		Female	0	1	1	0	2	8	8	3	0	1	0	24	
		Total	0	2	4	8	9	15	18	33	17	10	1	117	
1	MALIGNANT NEOPLASMS OF EYE & ADNEXA (C69)	Male	0	0	0	0	0	0	0	6	2	0	0	8	
		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	3	8	7	7	10	24	15	9	1	85	
		Female	0	1	1	0	2	8	8	3	0	1	0	24	
14	MALIGNANT NEOPLASMS OF OTHER AND UNSPECIFIED SITES(C73-C80 & C97)	Male	0	2	14	54	56	61	110	135	64	113	6	615	
		Female	0	0	7	31	19	53	89	115	61	76	4	455	
		Total	0	2	21	85	75	114	199	250	125	189	10	1070	
1	MALIGNANT NEOPLASMS OF OTHER ILL-DEFINED, SECONDARY, UNSPECIFIED AND MULTIPLE SITES(C73-C80 & C97)	Male	0	2	14	54	56	61	110	135	64	113	6	615	
		Female	0	0	7	31	19	53	89	115	61	76	4	455	
15	MALIGNANT NEOPLASMS OF LYMPHOID, HAEMATOPOIETIC AND RELATED TISSUE (C81-C96)	Male	14	38	74	137	150	191	253	217	144	194	12	1424	
		Female	11	30	45	68	66	121	141	130	102	102	7	823	
		Total	25	68	119	205	216	312	394	347	246	296	19	2247	
1	HODGKIN'S DISEASE(C81)	Male	0	0	1	9	1	11	13	16	13	12	0	76	
		Female	0	0	0	4	4	9	2	7	5	5	0	36	
2	NON HODGKIN'S LYMPHOMA(C82-C85)	Male	0	3	12	11	37	65	131	83	67	84	4	497	
		Female	0	0	2	11	9	29	69	69	43	45	0	277	
3	MULTIPLE MYELOMA AND MALIGNANT PLASMA CELL NEOPLASMS(C90)	Male	4	2	11	12	11	16	18	18	7	7	0	106	
		Female	4	0	6	7	6	21	14	5	9	8	0	80	
4	LEUKAEMIA(C91-C95)	Male	10	33	50	105	101	95	90	100	57	91	8	740	
		Female	7	30	37	46	47	62	56	48	45	44	7	429	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
5	OTHER MALIGNANT NEOPLASMS OF LYMPHOID,HAEMATOPOIETIC AND RELATED TISSUE (C88 & C96)	Male	0	0	0	0	0	4	1	0	0	0	0	5	
		Female	0	0	0	0	0	0	0	1	0	0	0	1	
16	CARCINOMA IN SITU(D00-D09)	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	
		Total	0	0	0	0	1	0	0	0	0	0	0	1	
1	CARCINOMA IN SITU(D00-D09)	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	
17	BENIGN NEOPLASMS(D10-D36)	Male	0	0	0	0	0	4	0	2	0	2	0	8	
		Female	0	0	0	12	5	2	0	1	0	1	0	21	
		Total	0	0	0	12	5	6	0	3	0	3	0	29	
1	LEIOMYOMA OF UTERUS(D25)	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	ALL OTHER BENIGN NEOPLASMS(D10-D24,D26-D36)	Male	0	0	0	0	0	4	0	2	0	2	0	8	
		Female	0	0	0	12	5	2	0	1	0	1	0	21	
18	OTHER AND UNSPECIFIED NEOPLASM(D37-D48)	Male	0	0	1	0	4	7	5	5	3	14	0	39	
		Female	0	0	0	3	0	5	3	7	0	4	0	22	
		Total	0	0	1	3	4	12	8	12	3	18	0	61	
1	OTHER AND UNSPECIFIED NEOPLASM(D37-D48)	Male	0	0	1	0	4	7	5	5	3	14	0	39	
		Female	0	0	0	3	0	5	3	7	0	4	0	22	
III	DISEASES OF THE BLOOD & BLOOD FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM (D50-D89)	Male	0	27	31	56	131	181	323	213	139	259	3	1363	
		Female	1	22	31	114	139	128	251	160	101	299	3	1249	
		Total	1	49	62	170	270	309	574	373	240	558	6	2612	
19	DISEASES OF THE BLOOD & BLOOD FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM(D50-D89)	Male	0	27	31	56	131	181	323	213	139	259	3	1363	
		Female	1	22	31	114	139	128	251	160	101	299	3	1249	
		Total	1	49	62	170	270	309	574	373	240	558	6	2612	
1	THALASSAEMIA(D56)	Male	0	2	5	3	0	0	0	0	0	0	0	10	
		Female	1	3	1	4	0	0	0	0	0	0	0	9	
2	OTHER ANAEMIAS(D50-D55,D57-D64)	Male	0	14	23	46	100	153	277	187	102	244	3	1149	
		Female	0	14	29	88	118	103	224	135	94	287	2	1094	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
3	ALL OTHER DISEASES OF BLOOD & BLOOD FORMING ORGANS (D65-D77)	Male	0	11	3	7	29	28	45	24	37	15	0	199	
		Female	0	5	1	22	21	25	25	23	7	11	1	141	
4	CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM(D80-D89)	Male	0	0	0	0	2	0	1	2	0	0	0	5	
		Female	0	0	0	0	0	0	2	2	0	1	0	5	
IV	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES(E00-E89)	Male	0	9	22	40	133	341	1127	1339	846	1583	24	5464	
		Female	0	1	15	58	89	173	634	878	656	1442	16	3962	
		Total	0	10	37	98	222	514	1761	2217	1502	3025	40	9426	
20	MALNUTRITION(E40-E46)	Male	0	7	0	0	3	4	6	6	6	11	2	45	
		Female	0	1	0	0	1	2	4	6	3	9	0	26	
		Total	0	8	0	0	4	6	10	12	9	20	2	71	
1	KWASHIORKOR(E40)	Male	0	4	0	0	0	1	1	0	1	1	1	9	
		Female	0	0	0	0	0	0	1	0	0	1	0	2	
2	NUTRITIONAL MARASMUS(E41)	Male	0	3	0	0	3	3	3	6	5	10	1	34	
		Female	0	1	0	0	1	2	3	5	3	8	0	23	
3	OTHER PROTEIN-ENERGY MALNUTRITION(E42-E46)	Male	0	0	0	0	0	0	2	0	0	0	0	2	
		Female	0	0	0	0	0	0	0	1	0	0	0	1	
21	ENDOCRINE,OTHER NUTRITIONAL AND METABOLIC DISEASES (E00-E34 & E50-E89)	Male	0	2	22	40	130	337	1121	1333	840	1572	22	5419	
		Female	0	0	15	58	88	171	630	872	653	1433	16	3936	
		Total	0	2	37	98	218	508	1751	2205	1493	3005	38	9355	
1	DISORDERS OF THYROID GLAND(E00-E07)	Male	0	0	0	1	1	24	19	24	16	20	2	107	
		Female	0	0	0	5	15	43	25	47	33	68	4	240	
2	DIABETES MELLITUS(E10-E14)	Male	0	0	14	27	114	274	1029	1262	799	1477	18	5014	
		Female	0	0	10	50	65	108	566	795	599	1306	11	3510	
3	ALL OTHER NUTRITIONAL DEFICIENCIES(E50-E64)	Male	0	2	0	1	2	5	4	2	1	5	0	22	
		Female	0	0	0	0	0	0	3	1	3	3	0	10	
4	ALL OTHER ENDOCRINE AND METABOLIC DISEASES(E15-E34 & E65-E89)	Male	0	0	8	11	13	34	69	45	24	70	2	276	
		Female	0	0	5	3	8	20	36	29	18	56	1	176	
V	MENTAL AND BEHAVIOURAL DISORDERS(F01-F99)	Male	0	0	0	0	14	37	34	10	6	8	0	109	
		Female	0	0	0	0	0	5	5	4	3	4	0	21	
		Total	0	0	0	0	14	42	39	14	9	12	0	130	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
22	MENTAL AND BEHAVIOURAL DISORDERS(F01-F99)	Male	0	0	0	0	14	37	34	10	6	8	0	109	
		Female	0	0	0	0	0	5	5	4	3	4	0	21	
		Total	0	0	0	0	14	42	39	14	9	12	0	130	
1	MENTAL AND BEHAVIOURAL DISORDERS DUE TO PSYCHOACTIVE SUBSTANCE USE (F10-F19)	Male	0	0	0	0	6	26	28	8	5	1	0	74	
		Female	0	0	0	0	0	3	3	4	0	1	0	11	
2	SCHIZOPHRENIA, SCHIZOTYPAL & DELUSIONAL DISORDERS(F20-F29)	Male	0	0	0	0	5	7	5	1	1	4	0	23	
		Female	0	0	0	0	0	2	2	0	3	0	0	7	
3	ALL OTHER MENTAL BEHAVIOURAL DISORDERS(F01-F09,F30-F99)	Male	0	0	0	0	3	4	1	1	0	3	0	12	
		Female	0	0	0	0	0	0	0	0	0	3	0	3	
VI	DISEASES OF THE NERVOUS SYSTEM(G00-G98)	Male	83	161	131	154	242	346	334	272	141	342	13	2219	
		Female	65	104	117	122	149	136	159	166	94	246	11	1369	
		Total	148	265	248	276	391	482	493	438	235	588	24	3588	
23	INFLAMMATORY DISEASES OF THE CENTRAL NERVOUS SYTEM(G00-G09)	Male	79	100	83	69	120	170	143	101	50	69	0	984	
		Female	61	77	74	72	87	81	64	62	32	59	1	670	
		Total	140	177	157	141	207	251	207	163	82	128	1	1654	
1	MENINGITIS(G00 & G03)	Male	58	67	38	29	47	68	57	31	12	20	0	427	
		Female	45	36	28	33	39	41	24	21	13	23	1	304	
2	ENCEPHALITIS,MYELITIS AND ENCEPHALOMYELITIS(G04)	Male	20	31	43	36	59	87	77	60	37	44	0	494	
		Female	16	41	44	22	36	33	33	40	18	33	0	316	
3	OTHER INFLAMMATORY DISEASES OF THE CENTRAL NERVOUS SYSTEM(G06,G08-G09)	Male	1	2	2	4	14	15	9	10	1	5	0	63	
		Female	0	0	2	17	12	7	7	1	1	3	0	50	
24	OTHER DISEASES OF THE NERVOUS SYSTEM(G10-G98)	Male	4	61	48	85	122	176	191	171	91	273	13	1235	
		Female	4	27	43	50	62	55	95	104	62	187	10	699	
		Total	8	88	91	135	184	231	286	275	153	460	23	1934	
1	ALZHEIMER'S DISEASE(G30)	Male	0	0	0	0	0	0	0	0	2	21	2	25	
		Female	0	0	0	0	0	0	0	0	0	7	0	7	
2	EPILEPSY(G40-G41)	Male	0	36	16	27	38	61	53	29	12	17	2	291	
		Female	0	14	14	26	25	19	26	10	9	20	1	164	
3	ALL OTHER DISEASES OF THE NERVOUS SYSTEM(G10-G25,G31,G35-G37,G43-G98)	Male	4	25	32	58	84	115	138	142	77	235	9	919	
		Female	4	13	29	24	37	36	69	94	53	160	9	528	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
VII	DISEASES OF THE EYE AND ADNEXA(H00-H59)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	0	0	0	0	0	1	0	0	0	
		Total	0	0	0	0	0	0	0	0	1	0	0	0	
25	DISEASES OF THE EYE AND ADNEXA(H00-H59)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	0	0	0	0	0	1	0	0	0	
		Total	0	0	0	0	0	0	0	0	1	0	0	0	
1	DISEASES OF THE EYE AND ADNEXA(H00-H59)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	0	0	0	0	0	1	0	0	0	
VIII	DISEASES OF THE EAR AND MASTOID PROCESS(H60-H95)	Male	0	0	0	0	0	0	0	1	0	0	0	0	
		Female	0	0	0	0	0	0	0	0	1	0	0	0	
		Total	0	0	0	0	0	0	0	1	1	0	0	0	
26	DISEASES OF THE EAR AND MASTOID PROCESS(H60-H95)	Male	0	0	0	0	0	0	0	1	0	0	0	0	
		Female	0	0	0	0	0	0	0	0	1	0	0	0	
		Total	0	0	0	0	0	0	0	1	1	0	0	0	
1	DISEASES OF THE EAR AND MASTOID PROCESS(H60-H95)	Male	0	0	0	0	0	0	0	1	0	0	0	0	
		Female	0	0	0	0	0	0	0	0	1	0	0	0	
IX	DISEASES OF THE CIRCULATORY SYSTEM(I00-I99)	Male	3	10	72	108	1002	2311	4401	7052	4487	7893	165	27504	
		Female	7	7	64	102	530	936	1807	3457	2383	6244	102	15639	
		Total	10	17	136	210	1532	3247	6208	10509	6870	14137	267	43143	
27	ACUTE RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASES(I00-I09)	Male	3	10	72	108	149	141	166	134	58	52	2	895	
		Female	7	7	64	102	138	125	161	143	65	91	4	907	
		Total	10	17	136	210	287	266	327	277	123	143	6	1802	
1	ACUTE RHEUMATIC FEVER(I00-I02)	Male	3	9	33	24	15	13	15	6	0	3	0	121	
		Female	7	5	29	20	15	10	7	4	6	3	0	106	
2	CHRONIC RHEUMATIC HEART DISEASES(I05-I09)	Male	0	1	39	84	134	128	151	128	58	49	2	774	
		Female	0	2	35	82	123	115	154	139	59	88	4	801	
28	HYPERTENSIVE DISEASES(I10-I15)	Male	0	0	0	0	5	282	634	1156	911	1464	34	4486	
		Female	0	0	0	0	0	133	267	686	519	1389	16	3010	
		Total	0	0	0	0	5	415	901	1842	1430	2853	50	7496	
1	HYPERTENSIVE HEART DISEASES(I11)	Male	0	0	0	0	5	3	32	39	23	63	4	169	
		Female	0	0	0	0	0	4	19	34	14	64	2	137	
2	ALL OTHER HYPERTENSIVE DISEASES(I10,I12-I15)	Male	0	0	0	0	0	279	602	1117	888	1401	30	4317	
		Female	0	0	0	0	0	129	248	652	505	1325	14	2873	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
29	ISCHAEMIC HEART DISEASES(I20-I25)	Male	0	0	0	0	413	644	1516	2663	1741	2795	42	9814	
		Female	0	0	0	0	127	191	496	1070	926	2098	21	4929	
		Total	0	0	0	0	540	835	2012	3733	2667	4893	63	14743	
1	ACUTE MYOCARDIAL INFARCTION(I21-I22)	Male	0	0	0	0	297	385	941	1601	858	1288	17	5387	
		Female	0	0	0	0	71	119	267	660	455	1044	14	2630	
2	ALL OTHER ISCHAEMIC HEART DISEASES(I20& I23-I25)	Male	0	0	0	0	116	259	575	1062	883	1507	25	4427	
		Female	0	0	0	0	56	72	229	410	471	1054	7	2299	
30	DISEASES OF PULMONARY CIRCULATION AND OTHER FORMS OF HEART DISEASE(I26-I51)	Male	0	0	0	0	406	646	1240	1368	977	1829	62	6528	
		Female	0	0	0	0	248	296	524	855	473	1469	50	3915	
		Total	0	0	0	0	654	942	1764	2223	1450	3298	112	10443	
1	PULMONARY HEART DISEASES AND DISEASES OF PULMONARY CIRCULATION(I26-I28)	Male	0	0	0	0	42	86	132	156	149	294	18	877	
		Female	0	0	0	0	30	48	58	121	98	239	22	616	
2	OTHER FORMS OF HEART DISEASES(I30-I51)	Male	0	0	0	0	364	560	1108	1212	828	1535	44	5651	
		Female	0	0	0	0	218	248	466	734	375	1230	28	3299	
31	CEREBROVASCULAR DISEASES(I60-I69)	Male	0	0	0	0	0	516	723	1596	700	1645	18	5198	
		Female	0	0	0	0	0	148	307	617	358	1115	7	2552	
		Total	0	0	0	0	0	664	1030	2213	1058	2760	25	7750	
1	CEREBROVASCULAR DISEASES(I60-I69)	Male	0	0	0	0	0	516	723	1596	700	1645	18	5198	
		Female	0	0	0	0	0	148	307	617	358	1115	7	2552	
32	OTHER DISEASES OF THE CIRCULATORY SYSTEM(I70-I99)	Male	0	0	0	0	29	82	122	135	100	108	7	583	
		Female	0	0	0	0	17	43	52	86	42	82	4	326	
		Total	0	0	0	0	46	125	174	221	142	190	11	909	
1	ATHEROSCLEROSIS(I70)	Male	0	0	0	0	3	18	32	25	31	13	2	124	
		Female	0	0	0	0	1	4	14	23	10	17	3	72	
2	ARTERIAL EMBOLISM AND THROMBOSIS(I74)	Male	0	0	0	0	7	29	22	31	23	18	1	131	
		Female	0	0	0	0	0	16	13	21	11	12	1	74	
3	OTHER DISEASES OF ARTERIES, ARTERIOLES & CAPILLARIES(I71-I73 & I77-I78)	Male	0	0	0	0	1	19	30	30	25	31	2	138	
		Female	0	0	0	0	0	11	16	13	12	16	0	68	
4	PHLEBITIS,THROMBOPHLEBITIS,VENOUS EMBOLISM AND THROMBOSIS(I80-I82)	Male	0	0	0	0	12	8	24	27	7	19	1	98	
		Female	0	0	0	0	5	6	8	11	2	22	0	54	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
5	ALL OTHER DISEASES OF THE CIRCULATORY SYSTEM(I83-I99)	Male	0	0	0	0	6	8	14	22	14	27	1	92	
		Female	0	0	0	0	11	6	1	18	7	15	0	58	
X	DISEASES OF THE RESPIRATORY SYSTEM(J00-J98)	Male	2	94	52	213	294	709	1181	1653	1309	2971	39	8517	
		Female	2	70	46	162	205	332	579	706	536	1496	22	4156	
		Total	4	164	98	375	499	1041	1760	2359	1845	4467	61	12673	
33	DISEASES OF THE UPPER RESPIRATORY TRACT(J00-J06 & J30-J39)	Male	2	11	2	8	6	6	0	9	5	8	1	58	
		Female	2	5	2	8	1	2	2	1	3	16	0	42	
		Total	4	16	4	16	7	8	2	10	8	24	1	100	
1	ACUTE PHARYNGITIS AND ACUTE TONSILLITIS(J02-J03)	Male	2	7	2	2	0	0	0	0	0	0	1	14	
		Female	0	4	0	6	0	0	0	0	0	0	0	10	
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	4	0	0	6	2	3	0	15	
		Female	2	1	1	2	0	0	0	0	0	0	0	6	
4	ALL OTHER DISEASES OF UPPER RESPIRATORY TRACT(J30-J39)	Male	0	4	0	6	2	6	0	3	3	5	0	29	
		Female	0	0	1	0	1	2	2	1	3	16	0	26	
34	LOWER RESPIRATORY DISEASES(J20-J22 & J40-J47)	Male	0	0	7	65	63	195	490	879	882	2048	20	4649	
		Female	0	0	9	57	40	92	193	327	309	927	13	1967	
		Total	0	0	16	122	103	287	683	1206	1191	2975	33	6616	
1	ACUTE BRONCHITIS AND ACUTE BRONCHIOLITIS(J20-J21)	Male	0	0	0	0	0	0	2	2	0	1	0	5	
		Female	0	0	0	0	1	0	0	2	0	0	0	3	
2	BRONCHITIS, CHRONIC AND UNSPECIFIED EMPHYSEMA(J40-J43)	Male	0	0	0	3	3	7	20	27	21	56	1	138	
		Female	0	0	0	3	4	4	25	11	8	30	4	89	
3	ASTHMA(J45-J46)	Male	0	0	0	25	24	41	93	159	135	484	4	965	
		Female	0	0	0	26	14	26	64	115	71	339	5	660	
4	OTHER LOWER RESPIRATORY DISORDERS(J22,J44 & J47)	Male	0	0	7	37	36	147	375	691	726	1507	15	3541	
		Female	0	0	9	28	21	62	104	199	230	558	4	1215	
35	OTHER DISEASES OF THE RESPIRATORY SYSTEM(J10-J18,J60-J98)	Male	0	83	43	140	225	508	691	765	422	915	18	3810	
		Female	0	65	35	97	164	238	384	378	224	553	9	2147	
		Total	0	148	78	237	389	746	1075	1143	646	1468	27	5957	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
1	INFLUENZA(J10-J11)	Male	0	0	0	2	4	5	7	2	9	2	2	33	
		Female	0	0	0	1	3	6	6	4	0	0	0	20	
2	PNEUMONIA(J12-J18)	Male	0	47	22	54	82	158	254	329	152	445	9	1552	
		Female	0	40	12	31	60	93	157	173	109	237	8	920	
3	PLEURISY(J90)	Male	0	0	1	2	10	20	22	29	21	29	1	135	
		Female	0	0	1	3	4	19	8	17	10	31	0	93	
4	ALL OTHER DISEASES OF THE RESPIRATORY SYSTEM(J60-J86,J92-J98)	Male	0	36	20	82	129	325	408	405	240	439	6	2090	
		Female	0	25	22	62	97	120	213	184	105	285	1	1114	
XI	DISEASES OF THE DIGESTIVE SYSTEM(K00-K92)	Male	0	12	28	124	822	1798	2081	1498	603	801	34	7801	
		Female	0	21	27	86	215	203	383	373	193	376	12	1889	
		Total	0	33	55	210	1037	2001	2464	1871	796	1177	46	9690	
36	DISEASES OF ORAL CAVITY, SALIVARY GLANDS AND JAWS(K00-K14)	Male	0	0	1	2	2	4	3	3	0	2	0	17	
		Female	0	0	1	0	0	1	2	1	0	2	0	7	
		Total	0	0	2	2	2	5	5	4	0	4	0	24	
1	DISEASES OF ORAL CAVITY, SALIVARY GLANDS AND JAWS(K00-K14)	Male	0	0	1	2	2	4	3	3	0	2	0	17	
		Female	0	0	1	0	0	1	2	1	0	2	0	7	
37	DISEASES OF THE OTHER PARTS OF DIGESTIVE SYSTEM(K20-K92)	Male	0	12	27	122	820	1794	2078	1495	603	799	34	7784	
		Female	0	21	26	86	215	202	381	372	193	374	12	1882	
		Total	0	33	53	208	1035	1996	2459	1867	796	1173	46	9666	
1	GASTRIC AND DUODENAL ULCER(K25-K27)	Male	0	0	0	0	5	18	19	21	14	22	2	101	
		Female	0	0	0	0	5	0	4	4	9	10	2	34	
2	GASTRITIS AND DUODENITIS (K29)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	0	0	0	1	0	2	0	0	3	
3	DISEASES OF APPENDIX(K35-K38)	Male	0	0	0	5	7	9	27	25	14	8	3	98	
		Female	0	0	0	3	2	0	6	6	5	8	3	33	
4	HERNIA(K40-K46)	Male	0	0	0	0	1	2	14	10	5	19	0	51	
		Female	0	0	0	0	3	1	2	15	5	6	0	32	
5	PARALYTIC ILEUS AND INTESTINAL OBSTRUCTION WITHOUT HERNIA(K56)	Male	0	0	0	1	8	9	9	27	14	18	0	86	
		Female	0	0	0	3	0	1	6	16	6	19	0	51	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
6	PERITONITIS(K65)	Male	0	0	8	9	69	167	272	160	65	94	0	844	
		Female	0	0	3	11	15	33	39	40	22	31	0	194	
7	DISEASES OF THE LIVER(K70-K76)	Male	0	12	19	67	548	1270	1314	978	345	475	27	5055	
		Female	0	21	23	47	127	90	189	209	108	224	6	1044	
8	CHOLELITHIASIS AND CHOLECYSTITIS(K80-K81)	Male	0	0	0	0	1	0	2	14	5	12	0	34	
		Female	0	0	0	1	6	0	2	9	4	5	0	27	
9	DISORDERS OF THE PANCREAS(K85-K86)	Male	0	0	0	18	111	148	136	85	42	30	1	571	
		Female	0	0	0	8	23	29	48	20	17	19	0	164	
10	ALL OTHER DISEASES OF THE OTHER PARTS OF DIGESTIVE SYSTEM(K20-K22,K28,K30-K50-K55,K57-K63,K66,K82-K83 & K90-K92)	Male	0	0	0	22	70	171	285	175	99	121	1	944	
		Female	0	0	0	13	34	48	84	53	15	52	1	300	
XII	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE(L00-L98)	Male	0	0	1	7	16	75	133	184	95	226	5	742	
		Female	0	0	2	13	20	31	41	70	49	94	2	322	
		Total	0	0	3	20	36	106	174	254	144	320	7	1064	
38	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE(L00-L98)	Male	0	0	1	7	16	75	133	184	95	226	5	742	
		Female	0	0	2	13	20	31	41	70	49	94	2	322	
		Total	0	0	3	20	36	106	174	254	144	320	7	1064	
1	INFECTIONS OF THE SKIN AND SUBCUTANEOUS TISSUE(L00-L08)	Male	0	0	0	6	13	70	116	166	87	205	3	666	
		Female	0	0	0	3	10	17	29	63	37	70	1	230	
2	ALL OTHER DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE(L10-L98)	Male	0	0	1	1	3	5	17	18	8	21	2	76	
		Female	0	0	2	10	10	14	12	7	12	24	1	92	
XIII	DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE(M00-M99)	Male	0	0	1	8	10	12	29	50	26	47	3	186	
		Female	0	0	2	4	11	9	26	33	7	33	0	125	
		Total	0	0	3	12	21	21	55	83	33	80	3	311	
39	DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE(M00-M99)	Male	0	0	1	8	10	12	29	50	26	47	3	186	
		Female	0	0	2	4	11	9	26	33	7	33	0	125	
		Total	0	0	3	12	21	21	55	83	33	80	3	311	
1	RHEUMATOID ARTHRITIS AND OTHER INFLAMMATORY POLYARTHRITIS(M05-M13)	Male	0	0	1	1	1	3	3	8	3	11	1	32	
		Female	0	0	2	1	3	5	12	14	2	22	0	61	
2	OSTEOMYELITIS(M86)	Male	0	0	0	0	1	0	0	0	1	3	0	5	
		Female	0	0	0	0	0	0	0	0	0	1	0	1	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA														
SL. 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
3	ALL OTHER DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE (M00-M02,M15-M43,M45-M85,M87-M99)	Male	0	0	0	7	8	9	26	42	22	33	2	149
		Female	0	0	0	3	8	4	14	19	5	10	0	63
XIV	DISEASES OF THE GENITOURINARY SYSTEM(N00-N99)	Male	0	10	6	69	176	336	559	1007	423	1218	23	3827
		Female	0	10	1	32	100	150	319	521	257	715	8	2113
		Total	0	20	7	101	276	486	878	1528	680	1933	31	5940
40	DISEASES OF URINARY SYSTEM(N00-N39)	Male	0	10	6	69	176	334	541	991	415	1200	20	3762
		Female	0	10	1	32	97	148	314	514	251	711	8	2086
		Total	0	20	7	101	273	482	855	1505	666	1911	28	5848
1	GLOMERULAR DISEASES(INCLUDING NEPHRITIC SYNDROME)(N00-N07)	Male	0	10	5	0	2	1	3	2	1	4	0	28
		Female	0	10	1	4	3	0	3	3	2	1	0	27
2	RENAL TUBULO-INTERSTITIAL DISEASES(N10-N15)	Male	0	0	1	5	2	4	12	24	7	14	1	70
		Female	0	0	0	0	2	6	11	12	8	3	0	42
3	RENAL FAILURE(N17-N19)	Male	0	0	0	48	124	264	393	770	289	857	10	2755
		Female	0	0	0	22	74	96	221	366	174	520	6	1479
4	UROLITHIASIS(N20-N23)	Male	0	0	0	0	2	2	7	1	7	13	0	32
		Female	0	0	0	0	1	0	4	2	1	9	0	17
5	OTHER DISORDERS OF KIDNEY AND URETER(N25-N28)	Male	0	0	0	16	34	49	96	131	68	158	6	558
		Female	0	0	0	6	13	25	42	78	43	64	1	272
6	ALL OTHER DISEASES OF URINARY SYSTEM(N30-N39)	Male	0	0	0	0	12	14	30	63	43	154	3	319
		Female	0	0	0	0	4	21	33	53	23	114	1	249
41	OTHER DISEASES OF THE GENITOURINARY SYSTEM(N40-N99)	Male	0	0	0	0	0	2	18	16	8	18	3	65
		Female	0	0	0	0	3	2	5	7	6	4	0	27
		Total	0	0	0	0	3	4	23	23	14	22	3	92
1	HYPERPLASIA OF PROSTATE(N40)	Male	0	0	0	0	0	0	2	2	3	7	2	16
		Female	0	0	0	0	0	0	0	0	0	0	0	0
2	ALL OTHER DISEASES OF MALE GENITAL ORGANS(N41-N50)	Male	0	0	0	0	0	2	16	14	5	11	1	49
		Female	0	0	0	0	0	0	0	0	0	0	0	0
3	SALPINGITIS AND OOPHORITIS(N70)	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

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
4	ALL OTHER DISEASES OF FEMALE GENITAL ORGANS(N60-N64,N71-N76,N80-N99)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	0	3	2	5	7	6	4	0	27	
XV	PREGNANCY, CHILDBIRTH AND THE PUERPERIUM (O00-O99)	Female	0	0	0	226	289	35	0	0	0	0	0	550	
		Total	0	0	0	226	289	35	0	0	0	0	0	550	
42	PREGNANCY WITH ABORTIVE OUTCOME (O00-O08)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	18	9	1	0	0	0	0	0	28	
		Total	0	0	0	18	9	1	0	0	0	0	0	28	
1	SPONTANEOUS ABORTION (O03)	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	MEDICAL ABORTION(O04)	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 PREGNANCIES WITH ABORTIVE OUTCOME(O00-O02 & O05-O08)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	18	9	1	0	0	0	0	0	28	
43	OTHER DIRECT OBSTETRIC DEATHS (O10-O92)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	205	277	34	0	0	0	0	0	516	
		Total	0	0	0	205	277	34	0	0	0	0	0	516	
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	79	97	13	0	0	0	0	0	189	
2	INFECTIONS OF GENITOURINARY TRACT IN PREGNANCY(O23)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	1	0	0	0	0	0	0	0	1	
3	OBSTRUCTED LABOUR(O64-O66)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	0	5	0	0	0	0	0	0	5	
4	COMPLICATIONS PRE-DOMINANTLY RELATED TO THE PUERPERIUM(O85-O92)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	54	78	18	0	0	0	0	0	150	
5	OTHER COMPLICATIONS OF PREGNANCY AND DELIVERY(O20-O22,O24-O63,O67-O75, O80-O84)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	71	97	3	0	0	0	0	0	171	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
44	OTHER OBSTETRIC CONDITIONS,NOT ELSEWHERE CLASSIFIED(O95-O99)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	3	3	0	0	0	0	0	0	0	
		Total	0	0	0	3	3	0	0	0	0	0	0	0	6
1	INDIRECT OBSTETRIC DEATHS(O98-O99)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	0	1	0	0	0	0	0	0	0	
2	ALL OTHER OBSTETRIC CONDITIONS,NOT ELSEWHERE CLASSIFIED (O95-O97)	Male	0	0	0	0	0	0	0	0	0	0	0	0	
		Female	0	0	0	3	2	0	0	0	0	0	0	0	
XVI	CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD(P00-P96)	Male	5160	0	0	0	0	0	0	0	0	0	0	5160	
		Female	3409	1	0	0	0	0	0	0	0	0	0	3410	
		Total	8569	1	0	0	0	0	0	0	0	0	0	0	8570
45	CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD (P00-P96)	Male	5160	0	0	0	0	0	0	0	0	0	0	5160	
		Female	3409	1	0	0	0	0	0	0	0	0	0	3410	
		Total	8569	1	0	0	0	0	0	0	0	0	0	0	8570
1	SLOW FETAL GROWTH,FETAL MALNUTRITION AND IMMATURITY (P05-P07)	Male	2101	0	0	0	0	0	0	0	0	0	0	2101	
		Female	1473	1	0	0	0	0	0	0	0	0	0	0	1474
2	BIRTH TRAUMA(P10-P15)	Male	4	0	0	0	0	0	0	0	0	0	0	4	
		Female	8	0	0	0	0	0	0	0	0	0	0	0	8
3	HYPOXIA,BIRTH ASPHYXIA AND OTHER RESPIRATORY CONDITIONS(P20-P28)	Male	2120	0	0	0	0	0	0	0	0	0	0	2120	
		Female	1395	0	0	0	0	0	0	0	0	0	0	0	1395
4	HAEMOLYTIC DISEASE OF FETUS AND NEW-BORN (P55)	Male	3	0	0	0	0	0	0	0	0	0	0	3	
		Female	2	0	0	0	0	0	0	0	0	0	0	0	2
5	OTHER PERINATAL JAUNDICE(P58-P59)	Male	30	0	0	0	0	0	0	0	0	0	0	30	
		Female	12	0	0	0	0	0	0	0	0	0	0	0	12
6	ALL OTHER CONDITIONS ORIGINATING IN THE PERINATAL PERIOD(P00-P04,P08,P29-P5 P56-P57,P60-P96)	Male	902	0	0	0	0	0	0	0	0	0	0	902	
		Female	519	0	0	0	0	0	0	0	0	0	0	0	519
XVII	CONGENITAL MALFORMATIONS,DEFORMATIONS & CHROMOSOMAL ABNORMALITIES(Q00-Q99)	Male	795	281	155	27	0	0	0	0	0	0	0	1258	
		Female	460	169	91	14	0	0	0	0	0	0	0	734	
		Total	1255	450	246	41	0	0	0	0	0	0	0	0	1992

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
46	CONGENITAL MALFORMATIONS,DEFORMATIONS & CHROMOSOMAL ABNORMALITIES(Q00-Q99)	Male	795	281	155	27	0	0	0	0	0	0	0	0	1258
		Female	460	169	91	14	0	0	0	0	0	0	0	0	734
		Total	1255	450	246	41	0	0	0	0	0	0	0	0	1992
1	SPINA BIFIDA(Q05)	Male	4	4	0	0	0	0	0	0	0	0	0	8	
		Female	4	1	1	0	0	0	0	0	0	0	0	6	
2	CONGENITAL MALFORMATIONS OF THE CIRCULATORY SYSTEM(Q20-Q28)	Male	544	147	98	14	0	0	0	0	0	0	0	803	
		Female	327	92	64	7	0	0	0	0	0	0	0	490	
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 ELSEWHERE CLASSIFIED(Q00-Q04,Q06-Q07,Q10-Q18,Q30-Q34,Q38-Q99)	Male	247	130	57	13	0	0	0	0	0	0	0	447	
		Female	129	76	26	7	0	0	0	0	0	0	0	238	
XVIII	SYMPTOMS,SIGNS AND ABNORMAL CLINICAL & LABORATORY FINDINGS,NOT ELSEWHERE CLASSIFIED (R00-R99)	Male	0	23	31	72	124	308	379	362	250	757	14	2320	
		Female	0	5	27	42	62	148	183	211	170	676	10	1534	
		Total	0	28	58	114	186	456	562	573	420	1433	24	3854	
47	SYMPTOMS,SIGNS AND ABNORMAL CLINICAL & LABORATORY FINDINGS,NOT ELSEWHERE CLASSIFIED (R00-R99)	Male	0	23	31	72	124	308	379	362	250	757	14	2320	
		Female	0	5	27	42	62	148	183	211	170	676	10	1534	
		Total	0	28	58	114	186	456	562	573	420	1433	24	3854	
1	ABDOMINAL AND PELVIC PAIN(R10)	Male	0	0	0	0	3	1	0	0	0	3	0	7	
		Female	0	0	1	1	1	0	5	1	0	2	0	11	
2	ASCITES(R18)	Male	0	0	0	0	0	0	2	4	1	0	0	7	
		Female	0	0	0	0	0	0	1	0	0	0	0	1	
3	SOMNOLENCE, STUPOR AND COMA(R40)	Male	0	0	0	0	0	4	3	2	0	0	0	9	
		Female	0	0	0	0	0	0	0	0	0	4	0	4	
4	FEVER OF UNKNOWN ORIGIN(R50)	Male	0	1	0	2	1	2	5	2	1	4	0	18	
		Female	0	0	3	0	2	2	0	2	0	6	0	15	
5	SENILITY(R54)	Male	0	0	0	0	0	0	0	0	13	166	0	179	
		Female	0	0	0	0	0	0	0	0	9	148	0	157	
6	SYNCOPE AND COLLAPSE(R55)	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	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA														
SL. 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
7	CONVULSIONS, NOT ELSEWHERE CLASSIFIED(R56)	Male	0	0	2	1	12	10	21	11	6	4	0	67
		Female	0	0	3	2	8	3	8	10	3	2	1	40
8	SHOCK, NOT ELSEWHERE CLASSIFIED(R57)	Male	0	3	1	1	3	1	8	8	2	13	0	40
		Female	0	1	3	0	7	2	3	1	0	3	0	20
9	ALL OTHER SYMPTOMS,SIGNS AND ABNORMAL CLINICAL & LABORATORY FINDINGS,NOT EL CLASSIFIED (R00-R09,R11-R17,R19-R39,R41-R49,R51-R53,R58-R99)	Male	0	19	28	68	105	290	340	335	227	566	14	1992
		Female	0	4	17	39	44	141	166	197	158	511	9	1286
XIX	INJURY,POISONING AND CERTAIN OTHER COSEQUENCES OF EXTERNAL CAUSES(S00-T98)	Male	18	142	236	1453	2200	2285	2006	1438	489	632	0	10899
		Female	2	106	188	1053	1011	804	695	441	174	381	0	4855
		Total	20	248	424	2506	3211	3089	2701	1879	663	1013	0	15754
48	FRACTURES(S02,S12,S22,S32,S42,S52,S62,S72,S82,S92,T10,T12,T02,T08)	Male	0	14	11	53	115	68	77	54	22	47	0	461
		Female	0	1	1	6	16	9	12	16	12	26	0	99
		Total	0	15	12	59	131	77	89	70	34	73	0	560
1	FRACTURE OF SKULL AND FACIAL BONES(S02)	Male	0	0	0	0	0	0	1	0	0	0	0	1
		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	13	15	13	10	17	1	22	0	93
		Female	0	1	1	1	0	1	8	1	10	15	0	38
3	FRACTURE OF UPPER LIMB(S42,S52,S62 & T10)	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	FRACTURE OF LOWER LIMB(S72,S82,S92 & T12)	Male	0	0	0	2	3	4	2	2	3	17	0	33
		Female	0	0	0	0	0	2	3	0	0	4	0	9
5	FRACTURES INVOLVING MULTIPLE BODY REGIONS, AND OF UNSPECIFIED BODY REGION(T02)	Male	0	14	9	38	97	51	64	35	18	8	0	334
		Female	0	0	0	5	16	6	1	15	2	7	0	52
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	28	27	31	22	12	5	7	0	133
		Female	0	0	0	0	0	7	9	0	1	4	0	21
		Total	0	0	1	28	27	38	31	12	6	11	0	154
50	INTRACRANIAL AND INTERNAL INJURIESINCLUDING NERVES(S04,S06,S14 S26-S27,S34,S36-S37,S44,S54,S64,S74,S84 & S94)	Male	0	10	21	164	290	356	305	242	102	114	0	1604
		Female	0	15	19	31	50	67	77	54	14	32	0	359
		Total	0	25	40	195	340	423	382	296	116	146	0	1963
51	CRUSHING INJURIES AND TRAUMATIC AMPUTATIONS OF SPECIFIED AND MULTIPLE BODY (S07-S08,S17-S18,S28,S38,S47-S48,S57,S77-S78,S87-S88, S98-S98)	Male	0	0	1	3	8	14	12	16	1	7	0	62
		Female	0	0	0	2	8	5	1	0	0	1	0	17
		Total	0	0	1	5	16	19	13	16	1	8	0	79

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
52	OTHER INJURIES OF SPECIFIED, UNSPECIFIED AND MULTIPLE BODY	Male	13	51	109	626	835	860	776	546	222	293	0	4331	
	REGIONS(S00-S01,SS15-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, S89-S91, S95-S96, S99, T00-T01, T06-T07, T09, T11 & T13-T14)	Female	0	29	56	97	107	134	188	137	62	123	0	933	
		Total	13	80	165	723	942	994	964	683	284	416	0	5264	
53	EFFECTS OF FOREIGN BODY ENTERING THROUGH NATURAL ORIFICE(T15-T19)	Male	0	0	0	0	1	0	0	0	0	0	0	1	
		Female	0	2	0	0	0	0	0	0	0	0	0	2	
		Total	0	2	0	0	1	0	0	0	0	0	0	3	
54	BURNS AND CORROSIONS(T20-T32)	Male	5	33	29	164	205	231	165	124	15	51	0	1022	
		Female	1	38	73	452	549	320	173	100	49	109	0	1864	
		Total	6	71	102	616	754	551	338	224	64	160	0	2886	
1	BURNS AND CORROSIONS(T20-T32)	Male	5	33	29	164	205	231	165	124	15	51	0	1022	
		Female	1	38	73	452	549	320	173	100	49	109	0	1864	
55	POISONINGS BY DRUGS AND BIOLOGICAL SUBSTANCES, AND TOXIC EFFECTS OF SUBSTANCES CHIEFLY NONMEDICINAL AS TO SOURCE(T36-T50, T51-T65)	Male	0	25	57	356	633	650	606	430	118	104	0	2979	
		Female	1	18	35	417	248	237	228	125	33	64	0	1406	
		Total	1	43	92	773	881	887	834	555	151	168	0	4385	
56	OTHER AND UNSPECIFIED EFFECTS OF EXTERNAL CAUSES AND CERTAIN EARLY COMPLICATION OF TRAUMA (T33-T35, T66-T78 & T79)	Male	0	9	7	55	77	66	36	13	4	5	0	272	
		Female	0	3	4	47	33	19	7	9	3	22	0	147	
		Total	0	12	11	102	110	85	43	22	7	27	0	419	
57	COMPLICATIONS OF SURGICAL AND MEDICAL CARE NOT ELSEWHERE CLASSIFIED(T80-T88)	Male	0	0	0	4	9	9	7	1	0	2	0	32	
		Female	0	0	0	0	0	6	0	0	0	0	0	6	
		Total	0	0	0	4	9	15	7	1	0	2	0	38	
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	2	0	2	
		Female	0	0	0	1	0	0	0	0	0	0	0	1	
		Total	0	0	0	1	0	0	0	0	0	2	0	3	
XX	EXTERNAL CAUSES OF MORBIDITY AND MORTALITY(V01-Y89)	Male	18	142	236	1453	2200	2285	2006	1438	489	632	0	10899	
		Female	2	106	188	1053	1011	804	695	441	174	381	0	4855	
		Total	20	248	424	2506	3211	3089	2701	1879	663	1013	0	15754	
E48	TRANSPORT ACCIDENTS(V01-V99)	Male	1	57	89	589	892	977	852	624	275	322	0	4678	
		Female	0	31	57	97	125	171	203	106	72	126	0	988	
		Total	1	88	146	686	1017	1148	1055	730	347	448	0	5666	
1	RAILWAY ACCIDENTS(V05,V15,V80.6,V81)	Male	0	0	2	2	4	1	1	5	3	0	0	18	
		Female	0	0	0	0	0	0	2	0	0	0	0	2	
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	1	56	87	579	875	974	846	618	270	321	0	4627	
		Female	0	31	57	90	125	171	201	106	71	126	0	978	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
3	OTHER ROAD VEHICLE ACCIDENTS(V01,V06,V09.0-V09.1,V10-V11,V16-V18,V80.0-V80. V82.0,V82.2-V82.9,V87.9,V88.0-V88.5,V88.7-V88.9 & V89.0-V89. & V89.0-V89.1)	Male	0	0	0	1	0	0	0	0	2	0	0	3	
		Female	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	
		Female	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	
		Female	0	0	0	0	0	0	0	0	0	0	0	0	
6	ALL OTHER TRANSPORT ACCIDENTS(V09.1,V09.9,V19,V29.0-V29.3, V49.3, V59.0-V59.3, V69.0-V69.3, V79.0-V79.3, V82, V82.8, V83-V86, V88.0-V88.5, V88.7-V88.9, V89.0,V89.3,V89.9 & V	Male	0	1	0	7	13	2	5	1	0	1	0	30	
		Female	0	0	0	7	0	0	0	0	1	0	0	8	
E49	ACCIDENTAL FALLS(W00-W19)	Male	11	21	15	29	29	41	27	22	6	24	0	225	
		Female	0	10	0	4	5	9	5	12	5	15	0	65	
		Total	11	31	15	33	34	50	32	34	11	39	0	290	
E50	ACCIDENTAL DROWING AND SUBMERSION(W65-W74)	Male	1	3	3	7	0	2	5	0	0	0	0	21	
		Female	0	0	0	2	0	0	2	2	0	4	0	10	
		Total	1	3	3	9	0	2	7	2	0	4	0	31	
E51	EXPOSURE TO SMOKE, FIRE AND FLAMES(X00-X09)	Male	5	33	33	153	165	207	143	123	14	54	0	930	
		Female	2	35	64	391	473	267	147	93	44	112	0	1628	
		Total	7	68	97	544	638	474	290	216	58	166	0	2558	
E52	ACCIDENTAL POISONING BY AND EXPOSURE TO NOXIOUS SUBSTANCES(X40-X49)	Male	0	11	15	106	239	230	267	168	54	45	0	1135	
		Female	0	6	9	169	86	66	76	45	10	23	0	490	
		Total	0	17	24	275	325	296	343	213	64	68	0	1625	
E53	INTENTIONAL SELF-HARM(SUICIDE-ATTEMPTED)(X60-X84)	Male	0	0	0	263	434	436	321	225	50	45	0	1774	
		Female	0	0	0	324	247	208	139	65	17	31	0	1031	
		Total	0	0	0	587	681	644	460	290	67	76	0	2805	
E54	ASSAULT(HOMICIDE)(X85-Y09)	Male	0	2	8	26	67	38	42	32	8	12	0	235	
		Female	0	4	0	11	11	14	12	9	0	3	0	64	
		Total	0	6	8	37	78	52	54	41	8	15	0	299	
E55	OTHER VIOLENCE(Y10-Y36)	Male	0	0	1	7	9	3	0	2	0	2	0	24	
		Female	0	0	0	3	0	2	0	5	1	4	0	15	
		Total	0	0	1	10	9	5	0	7	1	6	0	39	
1	EVENT OF UNDERTERMINED INTENT(Y10-Y34)	Male	0	0	1	7	9	3	0	2	0	2	0	24	
		Female	0	0	0	3	0	2	0	5	1	4	0	15	

TABLE 2 : MEDICALLY CERTIFIED DEATHS BY AGE , SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA															
SL. 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	
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	0	1	4	3	0	0	0	2	0	10	
		Female	0	0	0	0	0	3	0	0	0	3	0	6	
		Total	0	0	0	1	4	6	0	0	0	5	0	16	
1	DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES CAUSING ADVERSE EFFECTS IN THERAPEUTIC USE (Y40-Y59)	Male	0	0	0	0	0	2	0	0	0	0	0	2	
		Female	0	0	0	0	0	0	0	0	0	0	0	0	
2	MISADVENTURES DURING SURGICAL AND MEDICAL CARE, ADVERSE INCIDENTS IN DIAGNO USE, ABNORMAL REACTIONS AND LATE COMPLICATIONS(Y60-Y69, Y70-Y82 & Y83-Y84)	Male	0	0	0	1	4	1	0	0	0	2	0	8	
		Female	0	0	0	0	0	3	0	0	0	3	0	6	
E57	OTHER EXTERNAL CAUSES OF ACCIDENTAL INJURY, NOT ELSEWHERE CLASSIFIED (W20-W64, W75-W99, X10-X39, X50-X59)	Male	0	15	72	272	361	346	349	242	82	126	0	1865	
		Female	0	20	58	52	64	64	111	104	25	60	0	558	
		Total	0	35	130	324	425	410	460	346	107	186	0	2423	
1	ACCIDENTS CAUSED BY MACHINERY, AND BY CUTTING PIERCING INSTRUMENTS(W24-W31)	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	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	7	27	24	44	56	54	43	17	20	0	292	
		Female	0	8	19	17	12	25	45	26	14	16	0	182	
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	8	45	248	317	290	295	199	65	106	0	1573	
		Female	0	12	39	35	52	39	66	78	11	44	0	376	
E58	LATE EFFECTS OF EXTERNAL CAUSES OF MORBIDITY AND MORTALITY(Y85-Y89)	Male	0	0	0	0	0	2	0	0	0	0	0	2	
		Female	0	0	0	0	0	0	0	0	0	0	0	0	
		Total	0	0	0	0	0	2	0	0	0	0	0	2	
	ALL CAUSES	MALE	6194	988	1186	2960	6450	10837	15865	18799	10803	19612	420	94114	
		FEMALE	4024	723	933	2593	3570	4335	7165	9239	5740	13800	288	52410	
		TOTAL	10218	1711	2119	5553	10020	15172	23030	28038	16543	33412	708	146524	

TABLE-3 : Medically Certified Deaths by Sex and Major Cause Groups (based upon tenth revision of ICD) during 2007-2016

Major Group No.	Cause of Death	Sex										
			2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
1	2	3	4	5	6	7	8	9	10	11	12	13
1	CERTAIN INFECTIOUS AND PARASITIC DISEASES(A00-B99)	M	8512	8183	8317	8876	8477	8528	9510	8989	9033	9085
		F	4152	4365	4646	5024	4689	5057	4998	4517	4715	4855
		T	12664	12548	12963	13900	13166	13585	14508	13506	13748	13940
2	NEOPLASMS (C00-D48)	M	3291	4117	4594	4367	4366	4545	5525	6214	6546	7659
		F	2238	2940	3219	3200	3213	3239	4055	4692	4872	5625
		T	5529	7057	7813	7567	7579	7784	9580	10906	11418	13284
3	DISEASES OF THE BLOOD & BLOOD FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM(D50-D89)	M	885	999	1005	1018	1097	1120	1222	1253	1273	1363
		F	916	1024	1049	973	912	893	1223	1077	1198	1249
		T	1801	2023	2054	1991	2009	2013	2445	2330	247	2612
4	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES(E00-E89)	M	4124	4623	4853	4630	4599	4874	4606	4523	4619	5464
		F	2415	3094	3091	3156	3237	3232	3432	3320	3508	3962
		T	6539	7717	7944	7786	7836	8106	8038	7843	8127	9426
5	MENTAL AND BEHAVIOURAL DISORDERS (F01-F99)	M	241	122	100	89	74	101	192	86	95	109
		F	35	24	38	24	31	24	54	34	28	21
		T	276	146	138	113	105	125	246	120	123	130
6	DISEASES OF THE NERVOUS SYSTEM(G00-G98)	M	1824	1929	2117	2009	2001	2074	2417	2075	2221	2219
		F	1069	1235	1215	1279	1162	1195	1451	1165	1402	1369
		T	2893	3164	3332	3288	3163	3269	3868	3240	3623	3588
7	DISEASES OF THE EYE AND ADNEXA(H00-H59)	M	0	2	2	1	2	4	7	7	2	0
		F	0	0	2	0	1	2	5	3	1	1
		T	0	2	4	1	3	6	12	10	3	1
8	DISEASES OF THE EAR AND MASTOID PROCESS(H60-H95)	M	3	2	1	0	5	2	6	5	7	1
		F	0	0	3	2	3	1	5	2	1	1
		T	3	2	4	2	8	3	11	7	8	2
9	DISEASES OF THE CIRCULATORY SYSTEM(I00-I99)	M	15947	20910	20847	23941	23749	24681	26384	27962	29697	27504
		F	8661	11569	11769	13304	13184	13581	14997	15347	16873	15639
		T	24608	32479	32616	37245	36933	38262	41381	43309	46570	43143
10	DISEASES OF THE RESPIRATORY SYSTEM(J00-J98)	M	4883	5665	5639	6740	6451	6678	8140	8401	8264	8517
		F	2141	2864	2980	3670	3280	3380	4212	3825	4232	4156
		T	7024	8529	8619	1040	9731	10058	12352	12226	12496	12673

TABLE-3 : Medically Certified Deaths by Sex and Major Cause Groups (based upon tenth revision of ICD) during 2007-2016

Major Group No.	Cause of Death	Sex										
			2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
1	2	3	4	5	6	7	8	9	10	11	12	13
11	DISEASES OF THE DIGESTIVE SYSTEM(K00-K92)	M	4897	5279	5468	6225	6466	6700	7788	7936	8235	7801
		F	1265	1450	1501	1634	1608	1523	1750	1716	1811	1889
		T	6162	6729	6969	7859	8074	8223	9538	9652	10046	9690
12	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE(L00-L98)	M	395	464	486	463	508	476	708	701	896	742
		F	198	240	257	225	264	230	364	373	349	322
		T	593	704	743	688	772	706	1072	1074	1245	1064
13	DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE(M00-M99)	M	35	51	54	88	107	124	162	186	239	186
		F	31	58	46	66	84	92	173	121	178	125
		T	66	109	100	154	191	216	335	307	417	311
14	DISEASES OF THE GENITOURINARY SYSTEM(N00-N99)	M	2101	2302	2446	2766	2544	2722	3143	2907	3271	3827
		F	1089	1195	1379	1413	1528	1457	1821	1669	1868	2113
		T	3190	3497	3825	4179	4072	4179	4964	4576	5139	5940
15	PREGNANCY, CHILDBIRTH AND THE PUERPERIUM (O00-O99)	M	0	0	0	0	0	0	0	0	0	0
		F	652	649	611	848	841	642	758	1069	638	550
		T	652	649	611	848	841	642	758	1069	638	550
16	CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD(P00-P96)	M	5173	5555	6204	6798	7090	6932	8073	9243	5219	5160
		F	3361	3831	4127	4004	4412	4678	5353	5344	3439	3410
		T	8534	9386	10331	10802	11502	11610	13406	14587	8658	8570
17	CONGENITAL MALFORMATIONS,DEFORMATIONS & CHROMOSOMAL ABNORMALITIES(Q00-Q99)	M	663	979	1034	1020	1101	954	1352	1500	1270	1258
		F	486	650	756	676	704	665	899	935	830	734
		T	1149	1629	1790	1696	1805	1619	2251	2435	2100	1992
18	SYMPTOMS,SIGNS AND ABNORMAL CLINICAL & LABORATORY FINDINGS, NOT ELSEWHERE CLASSIFIED (R000-R99)	M	2838	3122	2601	1297	1019	793	1389	1537	1819	2320
		F	1804	1911	1720	1018	611	447	1060	1144	1471	1534
		T	4642	5033	4321	2315	1630	1240	2449	2681	3290	3854
19	INJURY,POISONING AND CERTAIN OTHER COSEQUENCES OF EXTERNAL CAUSES(S00-T98)	M	7022	7272	7315	6523	8861	8411	10714	10848	11251	10899
		F	3953	4194	3941	3980	4940	5123	5780	5560	5043	4855
		T	10975	11466	11256	10503	13801	13534	16494	16408	16294	15754
ALL CAUSES	M	62834	71576	73083	76851	78517	79719	91318	94373	93957	94114	
	F	34466	41293	42350	44496	44704	45461	52390	51913	52457	52410	
	T	97300	112869	115433	121347	123221	125180	143708	146286	146414	146524	

TABLE-4 : PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS BY SEX AND MAJOR CAUSE GROUPS (BASED UPON TENTH REVISION ICD) DURING 2007 TO 2016

Major Group No.	Cause of Death	Sex	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
			4	5	6	7	8	9	10	11	12	13
1	CERTAIN INFECTIOUS AND PARASITIC DISEASES(A00-B99)	M	13.55	11.43	11.38	11.55	10.80	10.70	10.41	9.52	9.61	9.65
		F	12.05	10.57	10.97	11.29	10.49	11.12	9.54	8.70	8.99	9.26
		T	13.02	11.12	11.23	11.45	10.68	10.85	10.10	9.23	9.39	9.51
2	NEOPLASMS (C00-D48)	M	5.24	5.75	6.29	5.68	5.56	5.70	6.05	6.58	6.97	8.14
		F	6.49	7.12	7.60	7.19	7.19	7.12	7.74	9.04	9.29	10.73
		T	5.68	6.25	6.77	6.24	6.15	6.22	6.67	7.46	7.80	9.07
3	DISEASES OF THE BLOOD & BLOOD FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM(D50-D89)	M	1.41	1.40	1.38	1.32	1.40	1.40	1.34	1.33	1.35	1.45
		F	2.66	2.48	2.48	2.19	2.04	1.96	2.33	2.07	2.28	2.38
		T	1.85	1.79	1.78	1.64	1.63	1.61	1.70	1.59	1.69	1.78
4	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES(E00-E89)	M	6.56	6.46	6.64	6.02	5.86	6.11	5.04	4.79	4.92	5.81
		F	7.01	7.49	7.30	7.09	7.24	7.11	6.55	6.40	6.69	7.56
		T	6.72	6.84	6.88	6.42	6.36	6.48	5.59	5.36	5.55	6.43
5	MENTAL AND BEHAVIOURAL DISORDERS (F01-F99)	M	0.38	0.17	0.14	0.12	0.09	0.13	0.21	0.09	0.10	0.12
		F	0.10	0.06	0.09	0.05	0.07	0.05	0.10	0.07	0.05	0.04
		T	0.28	0.13	0.12	0.09	0.09	0.10	0.17	0.08	0.08	0.09
6	DISEASES OF THE NERVOUS SYSTEM(G00-G98)	M	2.90	2.70	2.90	2.16	2.55	2.60	2.65	2.20	2.36	2.36
		F	3.10	2.99	2.87	2.87	2.60	2.63	2.77	2.24	2.67	2.61
		T	2.97	2.80	2.89	2.71	2.57	2.61	2.69	2.21	2.47	2.45
7	DISEASES OF THE EYE AND ADNEXA(H00-H59)	M	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00
		F	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
		T	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
8	DISEASES OF THE EAR AND MASTOID PROCESS(H60-H95)	M	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01	0.00
		F	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00
		T	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.00
9	DISEASES OF THE CIRCULATORY SYSTEM(I00-I99)	M	25.38	29.21	28.53	31.15	30.25	30.96	28.89	29.63	31.61	29.22
		F	25.13	28.02	27.79	29.90	29.49	29.87	28.63	29.56	32.17	29.84
		T	25.29	28.78	28.26	30.69	29.97	30.57	28.80	29.61	31.81	29.44
10	DISEASES OF THE RESPIRATORY SYSTEM(J00-J98)	M	7.77	7.91	7.72	8.77	8.22	8.38	8.91	8.90	8.80	9.05
		F	6.21	6.94	7.04	8.25	7.34	7.43	8.04	7.37	8.07	7.93
		T	7.22	7.56	7.47	8.58	7.90	8.03	8.60	8.36	8.53	8.65

TABLE-4 : PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS BY SEX AND MAJOR CAUSE GROUPS (BASED UPON TENTH REVISION ICD) DURING 2007 TO 2016

Major Group No.	Cause of Death	Sex	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
			4	5	6	7	8	9	10	11	12	13
11	DISEASES OF THE DIGESTIVE SYSTEM(K00-K92)	M	7.79	7.38	7.48	8.10	8.24	8.40	8.53	8.41	8.76	8.29
		F	3.67	3.51	3.54	3.67	3.60	3.35	3.34	3.31	3.45	3.60
		T	6.33	5.96	6.04	6.48	6.55	6.57	6.64	6.60	6.86	6.61
12	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE(L00-L98)	M	0.63	0.65	0.66	0.60	0.65	0.60	0.78	0.74	0.95	0.79
		F	0.57	0.58	0.61	0.51	0.59	0.51	0.69	0.72	0.67	0.61
		T	0.61	0.62	0.64	0.57	0.63	0.56	0.75	0.73	0.85	0.73
13	DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE(M00-M99)	M	0.06	0.07	0.07	0.11	0.14	0.16	0.18	0.20	0.25	0.20
		F	0.09	0.14	0.11	0.15	0.19	0.20	0.33	0.23	0.34	0.24
		T	0.07	0.10	0.09	0.13	0.16	0.17	0.23	0.21	0.28	0.21
14	DISEASES OF THE GENITOURINARY SYSTEM(N00-N99)	M	3.34	3.22	3.35	3.60	3.24	3.41	3.44	3.08	3.48	4.07
		F	3.16	2.89	3.26	3.18	3.42	3.20	3.48	3.21	3.56	4.03
		T	3.28	3.10	3.31	3.44	3.30	3.34	3.45	3.13	3.51	4.05
15	PREGNANCY, CHILDBIRTH AND THE PUERPERIUM (O00-O99)	M	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		F	1.89	1.57	1.44	1.91	1.88	1.41	1.45	2.06	1.22	1.05
		T	0.67	0.58	0.53	0.70	0.68	0.51	0.53	0.73	0.44	0.38
16	CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD(P00-P96)	M	8.23	7.76	8.49	8.85	9.03	8.70	8.82	9.79	5.55	5.48
		F	9.75	9.28	9.74	9.00	9.87	10.29	10.22	10.29	6.56	6.51
		T	8.77	8.32	8.95	8.90	9.33	9.27	9.33	9.97	5.91	5.85
17	CONGENITAL MALFORMATIONS, DEFORMATIONS & CHROMOSOMAL ABNORMALITIES(Q00-Q99)	M	1.06	1.37	1.41	1.33	1.40	1.20	1.48	1.59	1.35	1.34
		F	1.41	1.57	1.79	1.52	1.57	1.46	1.72	1.80	1.58	1.40
		T	1.18	1.44	1.55	1.40	1.46	1.29	1.57	1.66	1.43	1.36
18	SYMPTOMS,SIGNS AND ABNORMAL CLINICAL & LABORATORY FINDINGS, NOT ELSEWHERE CLASSIFIED (R000-R99)	M	4.52	4.36	3.56	1.69	1.30	0.99	1.52	1.63	1.94	2.47
		F	5.23	4.63	4.06	2.29	1.37	0.98	2.02	2.20	2.80	2.93
		T	4.77	4.46	3.74	1.91	1.32	0.99	1.70	1.83	2.25	2.63
19	INJURY,POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES(S00-T98)	M	11.18	10.16	10.01	8.49	11.29	10.55	11.73	11.49	11.97	11.58
		F	11.47	10.16	9.31	8.94	11.05	11.27	11.03	10.71	9.61	9.26
		T	11.28	10.16	9.75	8.66	11.20	10.81	11.48	11.22	11.13	10.75
ALL CAUSES		M	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
		F	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
		T	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

TABLE 5: PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS BY AGE, SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA

SL. NO.	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	1.92	18.02	27.57	13.01	14.70	13.21	12.03	8.94	7.13	6.72	4.76	9.65
		Female	1.67	24.07	28.51	16.81	14.51	14.93	11.82	8.63	5.98	5.36	6.94	9.26
		Total	1.82	20.57	27.98	14.78	14.63	13.70	11.96	8.84	6.73	6.16	5.65	9.51
2	NEOPLASMS (C00-D48)	Male	0.23	4.15	7.84	8.24	5.24	6.15	8.63	10.85	11.28	7.94	18.33	8.14
		Female	0.27	4.56	6.00	4.97	6.50	13.79	17.25	15.37	13.48	7.64	28.47	10.73
		Total	0.24	4.32	7.03	6.72	5.69	8.33	11.31	12.34	12.05	7.82	22.46	9.07
3	DISEASES OF THE BLOOD & BLOOD FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM (D50-D89)	Male	0.00	2.73	2.61	1.89	2.03	1.67	2.04	1.13	1.29	1.32	0.71	1.45
		Female	0.02	3.04	3.32	4.40	3.89	2.95	3.50	1.73	1.76	2.17	1.04	2.38
		Total	0.01	2.86	2.93	3.06	2.69	2.04	2.49	1.33	1.45	1.67	0.85	1.78
4	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES(E00-E89)	Male	0.00	0.91	1.85	1.35	2.06	3.15	7.10	7.12	7.83	8.07	5.71	5.81
		Female	0.00	0.14	1.61	2.24	2.49	3.99	8.85	9.50	11.43	10.45	5.56	7.56
		Total	0.00	0.58	1.75	1.76	2.22	3.39	7.65	7.91	9.08	9.05	5.65	6.43
5	MENTAL AND BEHAVIOURAL DISORDERS(F01-F99)	Male	0.00	0.00	0.00	0.00	0.22	0.34	0.21	0.05	0.06	0.04	0.00	0.12
		Female	0.00	0.00	0.00	0.00	0.00	0.12	0.07	0.04	0.05	0.03	0.00	0.04
		Total	0.00	0.00	0.00	0.00	0.14	0.28	0.17	0.05	0.05	0.04	0.00	0.09
6	DISEASES OF THE NERVOUS SYSTEM (G00-G98)	Male	1.34	16.30	11.05	5.20	3.75	3.19	2.11	1.45	1.31	1.74	3.10	2.36
		Female	1.62	14.38	12.54	4.70	4.17	3.14	2.22	1.80	1.64	1.78	3.82	2.61
		Total	1.45	15.49	11.70	4.97	3.90	3.18	2.14	1.56	1.42	1.76	3.39	2.45
7	DISEASES OF THE EYE AND ADNEXA H00-H59)	Male	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Female	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
		Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE 5: PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS BY AGE, SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA

SL. NO.	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
8	DISEASES OF THE EAR AND MASTOID PROCESS(H60-H95)	Male	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
		Female	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
		Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	DISEASES OF THE CIRCULATORY SYSTEM(I00-I99)	Male	0.05	1.01	6.07	3.65	15.53	21.33	27.74	37.51	41.53	40.25	39.29	29.22
		Female	0.17	0.97	6.86	3.93	14.85	21.59	25.22	37.42	41.52	45.25	35.42	29.84
		Total	0.10	0.99	6.42	3.78	15.29	21.40	26.96	37.48	41.53	42.31	37.71	29.44
10	DISEASES OF THE RESPIRATORY SYSTEM(J00-J98)	Male	0.03	9.51	4.38	7.20	4.56	6.54	7.44	8.79	12.12	15.15	9.29	9.05
		Female	0.05	9.68	4.93	6.25	5.74	7.66	8.08	7.64	9.34	10.84	7.64	7.93
		Total	0.04	9.59	4.62	6.75	4.98	6.86	7.64	8.41	11.15	13.37	8.62	8.65
11	DISEASES OF THE DIGESTIVE SYSTEM (K00-K92)	Male	0.00	1.21	2.36	4.19	12.74	16.59	13.12	7.97	5.58	4.08	8.10	8.29
		Female	0.00	2.90	2.89	3.32	6.02	4.68	5.35	4.04	3.36	2.72	4.17	3.60
		Total	0.00	1.93	2.60	3.78	10.35	13.19	10.70	6.67	4.81	3.52	6.50	6.61
12	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE(L00-L98)	Male	0.00	0.00	0.08	0.24	0.25	0.69	0.84	0.98	0.88	1.15	1.19	0.79
		Female	0.00	0.00	0.21	0.50	0.56	0.72	0.57	0.76	0.85	0.68	0.69	0.61
		Total	0.00	0.00	0.14	0.36	0.36	0.70	0.76	0.91	0.87	0.96	0.99	0.73
13	DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE (M00-M99)	Male	0.00	0.00	0.08	0.27	0.16	0.11	0.18	0.27	0.24	0.24	0.71	0.20
		Female	0.00	0.00	0.21	0.15	0.31	0.21	0.36	0.36	0.12	0.24	0.00	0.24
		Total	0.00	0.00	0.14	0.22	0.21	0.14	0.24	0.30	0.20	0.24	0.42	0.21
14	DISEASES OF THE GENITOURINARY SYSTEM(N00-N99)	Male	0.00	1.01	0.51	2.33	2.73	3.10	3.52	5.36	3.92	6.21	5.48	4.07
		Female	0.00	1.38	0.11	1.23	2.80	3.46	4.45	5.64	4.48	5.18	2.78	4.03
		Total	0.00	1.17	0.33	1.82	2.75	3.20	3.81	5.45	4.11	5.79	4.38	4.05

TABLE 5: PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS BY AGE, SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA

SL. NO.	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
15	PREGNANCY, CHILDBIRTH AND THE PUERPERIUM (O00-O99)	Male	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Female	0.00	0.00	0.00	8.72	8.10	0.81	0.00	0.00	0.00	0.00	0.00	1.05
		Total	0.00	0.00	0.00	4.07	2.88	0.23	0.00	0.00	0.00	0.00	0.00	0.38
16	CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD(P00-P96)	Male	83.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.48
		Female	84.72	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.51
		Total	83.86	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.85
17	CONGENITAL MALFORMATIONS,DEFORMATIONS & CHROMOSOMAL ABNORMALITIES(Q00-Q99)	Male	12.84	28.44	13.07	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.34
		Female	11.43	23.37	9.75	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40
		Total	12.28	26.30	11.61	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36
18	SYMPTOMS, SIGNS AND ABNORMAL CLINICAL & LABORATORY FINDINGS, NOT ELSEWHERE CLASSIFIED	Male	0.00	2.33	2.61	2.43	1.92	2.84	2.39	1.93	2.31	3.86	3.33	2.47
		Female	0.00	0.69	2.89	1.62	1.74	3.41	2.55	2.28	2.96	4.90	3.47	2.93
		Total	0.00	1.64	2.74	2.05	1.86	3.01	2.44	2.04	2.54	4.29	3.39	2.63
19	INJURY, POISONING AND CERTAIN OTHER COSEQUENCES OF EXTERNAL CAUSES (S00-T98)	Male	0.29	14.37	19.90	49.09	34.11	21.09	12.64	7.65	4.53	3.22	0.00	11.58
		Female	0.05	14.66	20.15	40.61	28.32	18.55	9.70	4.77	3.03	2.76	0.00	9.26
		Total	0.20	14.49	20.01	45.13	32.05	20.36	11.73	6.70	4.01	3.03	0.00	10.75
20	EXTERNAL CAUSES OF MORBIDITY AND MORTALITY(V01-Y89)	Male	0.29	14.37	19.90	49.09	34.11	21.09	12.64	7.65	4.53	3.22	0.00	11.58
		Female	0.05	14.66	20.15	40.61	28.32	18.55	9.70	4.77	3.03	2.76	0.00	9.26
		Total	0.20	14.49	20.01	45.13	32.05	20.36	11.73	6.70	4.01	3.03	0.00	10.75
	ALL CAUSES	MALE	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
		FEMALE	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
		TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

TABLE 6: PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS OVER AGE GROUPS BY SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA

SL.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	
1	CERTAIN INFECTIOUS AND PARASITIC DISEASES(A00-B99)	Male	1.31	1.96	3.60	4.24	10.43	15.76	21.00	18.50	8.48	14.50	0.22	100.00	
		Female	1.38	3.58	5.48	8.98	10.67	13.33	17.45	16.42	7.06	15.24	0.41	100.00	
		Total	1.33	2.53	4.25	5.89	10.52	14.91	19.76	17.78	7.98	14.76	0.29	100.00	
2	NEOPLASMS (C00-D48)	Male	0.18	0.54	1.21	3.19	4.41	8.70	17.87	26.64	15.92	20.34	1.01	100.00	
		Female	0.20	0.59	1.00	2.29	4.12	10.63	21.97	25.24	13.76	18.74	1.46	100.00	
		Total	0.19	0.56	1.12	2.81	4.29	9.52	19.61	26.05	15.00	19.66	1.20	100.00	
3	DISEASES OF THE BLOOD & BLOOD FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM (D50-D89)	Male	0.00	1.98	2.27	4.11	9.61	13.28	23.70	15.63	10.20	19.00	0.22	100.00	
		Female	0.08	1.76	2.48	9.13	11.13	10.25	20.10	12.81	8.09	23.94	0.24	100.00	
		Total	0.04	1.88	2.37	6.51	10.34	11.83	21.98	14.28	9.19	21.36	0.23	100.00	
4	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES(E00-E89)	Male	0.00	0.16	0.40	0.73	2.43	6.24	20.63	24.51	15.48	28.97	0.44	100.00	
		Female	0.00	0.03	0.38	1.46	2.25	4.37	16.00	22.16	16.56	36.40	0.40	100.00	
		Total	0.00	0.11	0.39	1.04	2.36	5.45	18.68	23.52	15.93	32.09	0.42	100.00	
5	MENTAL AND BEHAVIOURAL DISORDERS(F01-F99)	Male	0.00	0.00	0.00	0.00	12.84	33.94	31.19	9.17	5.50	7.34	0.00	100.00	
		Female	0.00	0.00	0.00	0.00	0.00	23.81	23.81	19.05	14.29	19.05	0.00	100.00	
		Total	0.00	0.00	0.00	0.00	10.77	32.31	30.00	10.77	6.92	9.23	0.00	100.00	
6	DISEASES OF THE NERVOUS SYSTEM(G00-G98)	Male	3.74	7.26	5.90	6.94	10.91	15.59	15.05	12.26	6.35	15.41	0.59	100.00	
		Female	4.75	7.60	8.55	8.91	10.88	9.93	11.61	12.13	6.87	17.97	0.80	100.00	
		Total	4.12	7.39	6.91	7.69	10.90	13.43	13.74	12.21	6.55	16.39	0.67	100.00	
7	DISEASES OF THE EYE AND ADNEXA(H00-H59)	Male	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Female	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	
		Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	

TABLE 6: PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS OVER AGE GROUPS BY SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA

SL.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	
8	DISEASES OF THE EAR AND MASTOID PROCESS(H60-H95)	Male	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00
		Female	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00
		Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	50.00	0.00	0.00	0.00
9	DISEASES OF THE CIRCULATORY SYSTEM(I00-I99)	Male	0.01	0.04	0.26	0.39	3.64	8.40	16.00	25.64	16.31	28.70	0.60	100.00	
		Female	0.04	0.04	0.41	0.65	3.39	5.99	11.55	22.10	15.24	39.93	0.65	100.00	
		Total	0.02	0.04	0.32	0.49	3.55	7.53	14.39	24.36	15.92	32.77	0.62	100.00	
10	DISEASES OF THE RESPIRATORY SYSTEM(J00-J98)	Male	0.02	1.10	0.61	2.50	3.45	8.32	13.87	19.41	15.37	34.88	0.46	100.00	
		Female	0.05	1.68	1.11	3.90	4.93	7.99	13.93	16.99	12.90	36.00	0.53	100.00	
		Total	0.03	1.29	0.77	2.96	3.94	8.21	13.89	18.61	14.56	35.25	0.48	100.00	
11	DISEASES OF THE DIGESTIVE SYSTEM(K00-K92)	Male	0.00	0.15	0.36	1.59	10.54	23.05	26.68	19.20	7.73	10.27	0.44	100.00	
		Female	0.00	1.11	1.43	4.55	11.38	10.75	20.28	19.75	10.22	19.90	0.64	100.00	
		Total	0.00	0.34	0.57	2.17	10.70	20.65	25.43	19.31	8.21	12.15	0.47	100.00	
12	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE(L00-L98)	Male	0.00	0.00	0.13	0.94	2.16	10.11	17.92	24.80	12.80	30.46	0.67	100.00	
		Female	0.00	0.00	0.62	4.04	6.21	9.63	12.73	21.74	15.22	29.19	0.62	100.00	
		Total	0.00	0.00	0.28	1.88	3.38	9.96	16.35	23.87	13.53	30.08	0.66	100.00	
13	DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE(M00-M99)	Male	0.00	0.00	0.54	4.30	5.38	6.45	15.59	26.88	13.98	25.27	1.61	100.00	
		Female	0.00	0.00	1.60	3.20	8.80	7.20	20.80	26.40	5.60	26.40	0.00	100.00	
		Total	0.00	0.00	0.96	3.86	6.75	6.75	17.68	26.69	10.61	25.72	0.96	100.00	
14	DISEASES OF THE GENITOURINARY SYSTEM(N00-N99)	Male	0.00	0.26	0.16	1.80	4.60	8.78	14.61	26.31	11.05	31.83	0.60	100.00	
		Female	0.00	0.47	0.05	1.51	4.73	7.10	15.10	24.66	12.16	33.84	0.38	100.00	
		Total	0.00	0.34	0.12	1.70	4.65	8.18	14.78	25.72	11.45	32.54	0.52	100.00	

TABLE 6: PERCENTAGE DISTRIBUTION OF MEDICALLY CERTIFIED DEATHS OVER AGE GROUPS BY SEX AND MAJOR CAUSE GROUPS BASED ON 10TH REVISION OF ICD DURING THE YEAR 2016

KARNATAKA

SL.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	
15	PREGNANCY, CHILDBIRTH AND THE PUERPERIUM (O00-O99)	Male	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Female	0.00	0.00	0.00	41.09	52.55	6.36	0.00	0.00	0.00	0.00	0.00	0.00	100.00
		Total	0.00	0.00	0.00	41.09	52.55	6.36	0.00	0.00	0.00	0.00	0.00	0.00	100.00
16	CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD(P00-P96)	Male	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	
		Female	99.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
		Total	99.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
17	CONGENITAL MALFORMATIONS, DEFORMATION S & CHROMOSOMAL ABNORMALITIES(Q00-Q99)	Male	63.20	22.34	12.32	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	
		Female	62.67	23.02	12.40	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
		Total	63.00	22.59	12.35	2.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
18	SYMPTOMS, SIGNS AND ABNORMAL CLINICAL & LABORATORY FINDINGS, NOT ELSEWHERE CLASSIF	Male	0.00	0.99	1.34	3.10	5.34	13.28	16.34	15.60	10.78	32.63	0.60	100.00	
		Female	0.00	0.33	1.76	2.74	4.04	9.65	11.93	13.75	11.08	44.07	0.65	100.00	
		Total	0.00	0.73	1.50	2.96	4.83	11.83	14.58	14.87	10.90	37.18	0.62	100.00	
19	INJURY, POISONING AND CERTAIN OTHER COSEQUENCES OF EXTERNAL CAUSES(S00-T98)	Male	0.17	1.30	2.17	13.33	20.19	20.97	18.41	13.19	4.49	5.80	0.00	100.00	
		Female	0.04	2.18	3.87	21.69	20.82	16.56	14.32	9.08	3.58	7.85	0.00	100.00	
		Total	0.13	1.57	2.69	15.91	20.38	19.61	17.14	11.93	4.21	6.43	0.00	100.00	
20	EXTERNAL CAUSES OF MORBIDITY AND MORTALITY(V01-Y89)	Male	0.17	1.30	2.17	13.33	20.19	20.97	18.41	13.19	4.49	5.80	0.00	100.00	
		Female	0.04	2.18	3.87	21.69	20.82	16.56	14.32	9.08	3.58	7.85	0.00	100.00	
		Total	0.13	1.57	2.69	15.91	20.38	19.61	17.14	11.93	4.21	6.43	0.00	100.00	
	ALL CAUSES	MALE	6.58	1.05	1.26	3.15	6.85	11.51	16.86	19.97	11.48	20.84	0.45	100.00	
		FEMALE	7.68	1.38	1.78	4.95	6.81	8.27	13.67	17.63	10.95	26.33	0.55	100.00	
		TOTAL	6.97	1.17	1.45	3.79	6.84	10.35	15.72	19.14	11.29	22.80	0.48	100.00	

Table - 7 : Percentage distribution of Medically Certified Deaths due to Tuberculosis, Diabetes Mellitus and Ischaemic Heart Diseases from 2007-2016

Year	Total MCCD Deaths due to									Total MCCD Deaths		
	Tuberculosis			Diabetes Mellitus			Ischaemic Heart Disease					
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
2007	6.83	4.65	6.07	5.87	6.38	6.04	11.21	10.13	10.83	64.94	35.06	100.00
2008	5.86	4.17	5.24	5.77	6.62	6.08	13.50	11.63	12.81	63.42	36.58	100.00
2009	5.47	3.70	4.82	6.15	6.58	6.30	12.75	11.21	12.18	63.31	36.69	100.00
2010	5.29	3.72	4.72	5.29	6.11	5.59	13.91	12.43	13.37	63.33	36.67	100.00
2011	5.24	3.72	4.69	5.12	6.20	5.51	12.77	11.47	12.30	63.72	36.28	100.00
2012	5.42	4.55	5.10	5.50	6.15	5.73	13.42	12.12	12.95	63.68	36.32	100.00
2013	5.22	3.44	4.57	4.07	5.23	4.49	11.66	10.56	11.26	63.54	36.46	100.00
2014	5.04	3.31	4.42	3.91	6.30	4.35	11.71	10.56	11.30	64.51	35.49	100.00
2015	4.87	3.14	4.25	4.11	5.43	4.58	11.66	10.76	11.34	64.17	35.83	100.00
2016	4.34	2.93	3.84	5.33	6.70	5.82	10.43	9.40	10.06	64.23	35.77	100.00

FORM NO. 4/4A

(See Rule 7)

MEDICAL CERTIFICATE OF CAUSE OF DEATH

(Hospital in-patients/non-institutional deaths. Not to be used for still births)

To be sent to Registrar along with Form No.2 (Death Report)

Name of the Hospital.....

I hereby certify that the person whose particulars are given below died in the hospital in Ward No.....on.....
at.....A.M./P.M.

Name of the Deceased	For use of Statistical Office
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Sex	Age at Death			
	If 1 year or more, age in Years	If less than 1 year, age in Months	If less than one month, age in Days	If less than one day, age in Hours
1. Male				
2. Female				

CAUSE OF DEATH		Interval between on set & death approx
I		
Immediate Cause State the disease, injury or complication which caused death, not the mode of dying such as heart failure, asthenia, etc.	(a) Due to (or as a consequences of)
Antecedent Cause Morbid conditions, if any, giving rise to the above Cause, stating underlying conditions last	(b) Due to (or as a consequences of)
	(c)

II Other significant conditions contributing to the death but not related to the disease or conditions causing it
--	----------------	----------------

<u>Manner of death</u> 1. Natural 2. Accident 3. Suicide 4.Homicide 5. Pending investigation	How did the injury occur? If deceased was a female, was pregnancy the death associated with? 1. Yes 2. No If yes, was there a delivery? 1.Yes 2.No.
--	---

Name and signature of the Medical Attendant certifying the cause of death Date of verification.....
--

SEE REVERSE FOR INSTRUCTION

(To be detached and handed over to the relative of the deceased).

Certified that Shri/Smt/Kum.....S/W/D/of Shri
R/O.....was admitted to the hospital on and expired on

Doctor.....
(Medical Supdt
Name of the hospital)

Note: Except manner of death given in Form No-4, there will be no change in the content of Form No-4A.

MEDICAL CERTIFICATE OF CAUSE OF DEATH

Direction for completing the form No.4/4A

Name of deceased: To be given in full. Do not use initials. If deceased is an infant, not yet named at time of death, write. Son of (S/o) or 'Daughter of (D/o), followed by names of mother and father.

Age: If the deceased was over 1 year of age, give age in completed years. If the deceased was below 1 year of age, give age in months and if below 1 month give age in completed number of days, and if below one day, in hours.

Cause of Death: This part of the form should always be completed by the attending physician personally.

The certificate of cause of death is divided into two parts, I and II. Part I is again divided into three parts, lines (a)(b)(c). If a single morbid condition completely explains the deaths, then this will be written on line (a) of Part I, and nothing more need be written in the rest of Part I or in Part II, or example, small pox, lobar pneumonia, cardiac beriberi, are sufficient cause of death and usually nothing more is needed.

Often, however, a number of morbid conditions will have been present at death, and the doctor must then complete the certificate in the proper manner so that the correct underlying cause will be tabulated. First, enter in Part I(a) the immediate cause of death. This does not mean the mode of dying, e.g. heart failure, respiratory failure, etc. These terms should not appear on the certificate at all since they are modes of dying and not causes of death. Next consider whether the immediate cause is complication or delayed result of some other cause. If so, enter the antecedent cause in Part I, line (b). Some times there will be three stages in the course of events leading to death. If so, line (c) will be completed. The underlying cause to be tabulated is always written last in Part I.

Morbid conditions or injuries may be present which were not directly related to the train of events causing death but which contributed in some way to the fatal outcome. Sometimes the doctor finds it difficult to decide especially for infant deaths, which of several independent conditions was the primary cause of death; but only one cause can be tabulated, so the doctor must decide. If the other diseases are not effects of the underlying cause, they are entered in Part II.

Do not write two or more conditions on a single line. Please write the names of the diseases (in full) in the certificates as legibly as possible to avoid the risk of their being misread.

Onset: Complete the column for interval between onset and death whenever possible, even if very approximately, e.g. "from birth" "several years".

Accidental or violent deaths: Both the external cause and the nature of the injury are needed and should be stated. The doctor or hospital should always be able to describe the injury, stating the part of the body injured, and should give the external cause in full when this is shown. Example: (a) Hypostatic pneumonia; (b) Fracture of neck of femur, (c) Fall from ladder at home.

Maternal deaths: Be sure to answer the questions on pregnancy and delivery. This information is needed for all women of child-bearing age, even though the pregnancy may have had nothing to do with the death.

Old age or senility: Old age (or senility should be not given as a cause of death if a more specific cause is known. If old age was a contributory factor; it should be entered in Part II. Example (a) Chronic bronchitis, of old age.

Completeness of information: A complete cause history is not wanted, but, if the information is available enough details should be given to enable the underlying cause to be properly classified.

Example : Anaemia- Give type of anaemia, if known, Neoplasm-Indicate whether benign or malignant, and site with or primary neoplasm, whenever possible, Heart disease-Describe the condition specially; if congestive heart failure, chronic on pulmonale, etc., are mentioned, give the antecedent conditions. Tetanus-Describe the antecedent injury, if known. Operation-State the condition for which the operation was performed. Dysentery-Specify whether bacillary amoebic etc., if know. Complications of pregnancy or delivery-Describe the complication specifically. Tuberculosis-Give organs affected.

Symptomatic statement: Convulsions, diarrhoeas, fever, ascites, jaundice, debility, etc., are symptoms which may be due to any one of a number of different conditions. Sometimes nothing more is known but whenever possible, give the disease which caused the symptom.

Manner of Death: Deaths not due to external cause should be identified as "Natural". If the cause of death is known, but it is not known whether it was the result of an accident suicide or homicide and is subject to further investigation, the cause of death should invariably be filled in and the manner of death should be shown as "Pending investigation".

MAJOR GROUPS AND THE DESCRIPTION OF ICD-10 CODES

The classification of diseases may be defined as a system of categories to which morbid entities 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 10th Revision of International Classification of Diseases (ICD) and the National List for tabulation of Morbidity and 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)

&

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 :

Major Cause Groups	DESCRIPTION AND ICD CODES
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