



# CAUSES OF DEATH

STATISTICS

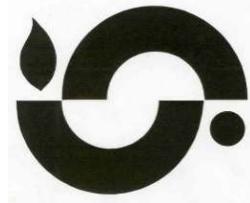
2020-22



# **CAUSES OF DEATH**

## **STATISTICS**

### **2020-2022**



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Vital Statistics Division  
Sample Registration System Section  
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## **PREFACE**

Understanding the scale and underlying causes of mortality is essential for assessing the public health impact of specific health issues and developing effective strategies to reduce death rates. Reliable data on the nature and frequency of death causes enables policymakers to set appropriate health priorities. Moreover, examining mortality patterns across variables such as age, gender, location, and other demographic factors offers critical insights for public health planners, healthcare providers, epidemiologists, and researchers. The *Causes of Death in India: 2020–2022* report, part of the Sample Registration System (SRS), provides in-depth coverage and an accurate representation of the current scenario.

With the merging of Survey of Causes of Death for rural areas to the Sample Registration System (SRS) in 1999, there was an imperative need for reliable, timely, representative and relevant information on causes of death due to diseases, injuries and risk factors for the entire cross-section of population in the country. In view of this, the method of Verbal Autopsy (VA) was used to determine the underlying cause of death starting from 2001-2003 under the domain of SRS, which is an ongoing, low cost and long-term fertility and mortality measurement system. The classification conforms to the World Health Organization's (WHO) International Classification of Diseases (ICD) tenth revision to facilitate comparison with similar national and international estimates. The assignment of cause of death has been done through a process of medical evaluation by two independent trained physicians with support and coordination from AIIMS Technical Support Unit (ATSU) under the MoU with All India Institute of Medical Sciences (AIIMS).

The present Report on Causes of Death: 2020-2022 is based on direct source, provides causes of death cross classified by age, sex, residence, EAG states and Assam vs. other States and major zones across the country. The Report reviews the top ten causes of death stratified by different variables besides examining the mortality from special conditions such as Cardiovascular disease, Respiratory infections, Malignant & other neoplasms, Diabetes mellitus, Tuberculosis, Malaria, and HIV/AIDS. The important findings of the Report, inter-alia are the non-communicable diseases are the predominant cause in the overall mortality pattern in the country. Perinatal condition is the topmost cause of under-five age deaths. The cardiovascular disease, a lifestyle disease, is the leading cause in 30+ age group while Intentional injuries: Suicide is the most occurring cause of death in 15-29 age group.

The Sample Registration System (SRS) has been developed through a collaborative effort between the Central and State Governments. The successful execution of the fieldwork for this study was made possible by the dedicated support of officials from the Directorates of Census Operations, as well as those from the Directorates of Economics and Statistics in Kerala and Maharashtra. It is important to note a distinctive feature of this report: the entire process, from data collection to dissemination, has been fully digitized since 2020. I extend my sincere appreciation to all the stakeholders involved in this initiative and to the SRS-VA Unit of the Vital Statistics Division, ORGI, for their invaluable contributions to the development of this publication.

New Delhi  
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Sh. Mritunjay Kumar Narayan  
Registrar General & Census Commissioner, India

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# CHAPTER 1

## INTRODUCTION, SURVEY DESIGN AND ESTIMATION PROCEDURE

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### **1.1 Background**

Long-term mortality measurement by cause, gender and geographic area has been the requirement of every country. With this in view, Medical Certification of Causes of Death (MCCD) was introduced in the country by providing statutory backing under Section 10 of the Registration of Births and Deaths Act, 1969. Despite its operationalization in almost all the States/UTs, the scheme has been working at different levels of efficiency across the States in terms of coverage, reporting and quality of data. Initially, deaths occurring in urban medical institutions were only covered under the scheme. Owing to these limitations, the cause specific mortality flowing from MCCD was far from satisfactory. The gap was bridged to an extent by the 'Survey of Causes of Death' undertaken in sample villages of selected Primary Health Centers (PHC) in rural areas. However, the 'Survey of Causes of Death' had been merged with the Sample Registration System (SRS) from 1999, thus encompassing both rural and urban areas. Since then, a system of Verbal Autopsy under the domain of SRS has been in operation to effect improvement in the system, the Office of the Registrar General, India (ORGI) has been trying to establish a reliable system to measure the causes of death in the country.

### **1.2 Objectives**

The primary objective of the survey is to build up statistics on most probable causes of death using lay diagnosis reporting (post death verbal autopsy) method through enquiry based on symptoms, conditions, duration and anatomical site of the diseases as observed by family members of the deceased at the time of death.

### **1.3 Methodology**

1.3.1 The SRS sample is replaced every ten years based on the latest census frame. The current frame is in use since base line survey i.e. 2014 based on Census 2011. The present study is based on the sample drawn from 2011 Census frame covering 8841 sample units (4,958 rural and 3,883 urban units) with approximately 8.4 million population across 28 states and 8 union territories for the year 2020-22.

1.3.2 Each household in the SRS sample units where a death occurs is visited, retrospectively, by the SRS supervisors to collect the details of signs and symptoms for determining to the extent possible, the underlying causes of death. The frequency of the survey is half yearly i.e. first half year is from January to June and second half year from July to December. AIIMS Technical Support Unit (ATSU), located at Centre for Community Medicine, All India Institute of Medical Sciences, New Delhi facilitates cause of death assignment from verbal autopsy forms. The SRS field staff are trained extensively by ATSU, in collaboration with a network of 27 medical colleges (including AIIMS) also called Network Partner Institutes (List at Annexure IV). Training for facilitating collection of symptoms, signs and key circumstances leading to death using a two-page structured Form with a brief narrative in local language, is undertaken

regularly. Importantly, field staff are instructed not to assign a cause of death, but only collect the major symptoms and narrative of the events leading up to death. The training aims to improve the Supervisors ability to collect data from the respondents in the open/closed format using symptom checklists and probing questions. The goal is to obtain a complete and logical history of the signs, symptoms and supportive details of each death.

#### **1.4 Assignment of Causes of Death**

1.4.1 The assignment of cause of death involved medical evaluation by two independent trained physicians who examine the field reports using a web-based system developed specifically for this study. This has been done to reduce the inter-physician variation. Physicians undergo standardized training and have guidelines for the most common causes. The two physicians, based on examination of household reports, would either agree on the underlying ICD-10 code assigned for the cause of death pending which their forms would be anonymously shuffled between them for re-conciliations. Continuing disagreements would be referred to a senior third physician who adjudicates the final ICD-10 code. The causes of death are classified /coded from a list of 63 categories and are based on 10<sup>th</sup> revision of International Classification of Diseases (ICD-10). The analysis of these data would provide a reliable profile of death of major cause groups at National level, which is the need of the time.

1.4.2 A random sample of about 5% of the units has been re-surveyed by an independent team to ensure the quality of fieldwork, completeness and accuracy.

#### **1.5 Forms Canvassed & Symptom list:**

The causes of deaths are collected through four forms (structured and narrative) which have been developed on the basis of existing experience of WHO, Chinese Surveillance system and other International/National studies and are as under:

- i. Neo-Natal Form (10A)- Children of age 0-28 days
- ii. Childhood Form (10B)- Children of age 29 days to 14 years
- iii. Adult Form (10C)- Adults of age above 14 years
- iv. Maternal Death Form (10D)- Maternal Deaths

#### **1.6 Estimation Procedure:**

1.6.1 The various diseases have been grouped into three categories: (I) communicable, maternal, perinatal and nutritional conditions; (II) non-communicable diseases; and (III) injuries. This classification conforms to the WHO's "Global Burden of Disease (GBD)" categorization of deaths and would facilitate comparability with WHO estimates for India and for other countries. For transparency and ease of understanding, a fourth category namely symptoms, signs and ill-defined conditions has been added.

1.6.2 For the purpose of this Report, the states have been grouped into two major categories; the first category comprises the "Empowered Action Group" (EAG) states of Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Odisha, Rajasthan, Uttar Pradesh and Uttarakhand. The state of Assam has also been added to this list. These states have had historically higher child mortality indicators, higher poverty levels and lower life-expectancy and other indicators than most other states. The second category covers the remaining major states and has been labelled as 'Other

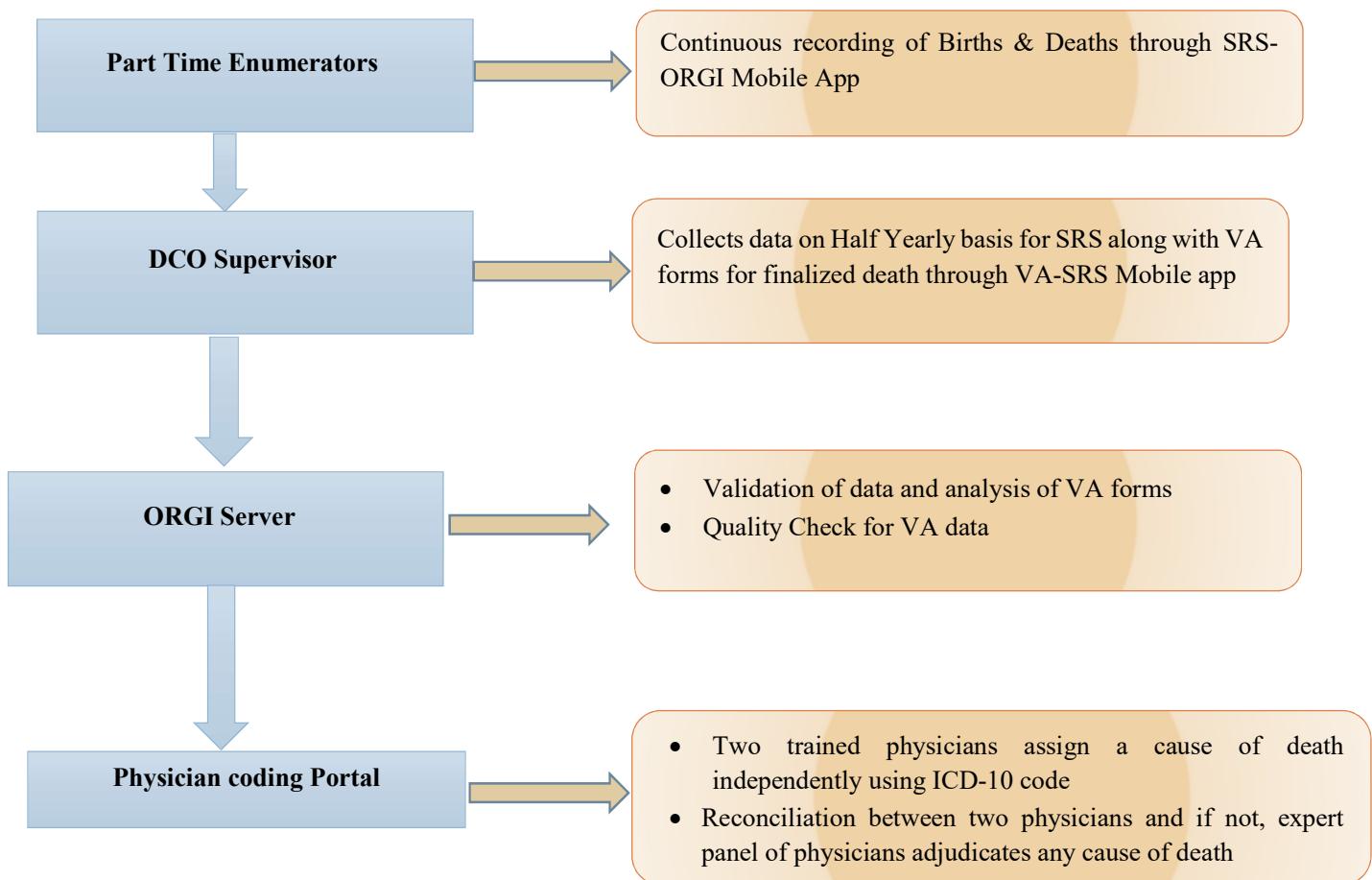
States'. The other major grouping is rural or urban residence, as defined in the SRS.

1.6.3 The major statistics presented are simple: proportion of deaths by major causes, along with specific proportions for the various diseases at different ages, gender (male or female) and residence (rural/urban). In all, 99% of all deaths collected had been double coded by two physicians. The reasons for exclusion from analysis were chiefly due to poor quality of image, non-legible or incorrect language code, incomplete coding etc. Thus, the study is based on the 1,51,428 deaths coded for the year 2020-22.

1.6.4 The information from the year 2020 is collected through in-house developed mobile application i.e VA-SRS. The mobile application with inbuilt validation at data entry point, has enhanced the quality of VA forms and further the VA forms are sent to ATSU through web portal.

1.6.5 In SRS, the usual practice is to present the estimates of vital indicators after applying multiplication factors to the sample values. The proportions based on estimates generally do not vary significantly from those arrived from the sample values at broader level of aggregations. However, the results are presented in the Report based on sample deaths.

## Field Activities and Cause of Death assignment



## **1.7 Executive Summary:**

- Overall non-communicable diseases are the leading causes of death in the country, constituting 55.7% of all deaths. Communicable, maternal, perinatal and nutritional conditions constitute another 24.0% of deaths. In 2019-2021 period, the corresponding value were 54.9% and 23.9% respectively. Injuries constitute 8.8% of deaths and ill-defined causes constitute 11.6% of deaths. However, majority of ill-defined causes are at older ages (70 or higher years).
- In Other states, there is significantly higher proportion of deaths due to non-communicable diseases (58.7%) vis-à-vis 50.0% in EAG states and Assam. The mortality due to communicable, maternal, perinatal and nutritional conditions diseases is more in proportion in the EAG states and Assam (30.7%) vis-à-vis Other States (20.5%).
- Rural and urban areas report more deaths (54.5% and 59.5% respectively) due to non-communicable diseases. The differences in proportion in communicable and non-communicable diseases are visible in urban (23.0% and 59.5%) and in rural area (24.3% and 54.5%). Both the rural and urban areas have a lower number of deaths from communicable, maternal, perinatal and nutritional conditions. Injuries constitute in rural and urban areas as 9.3% and 7.2% proportion of total deaths, however, the specific causes of injury vary.
- Overall, the leading cause of death is cardiovascular disease (30.9%), followed by respiratory infections (10.0%), malignant and other neoplasm (6.0%), respiratory diseases (5.7%), fever of unknown origin (5.3%), Digestive diseases (4.9%), Diabetes Mellitus (3.7%), unintentional injuries: other than motor vehicle accidents(3.5%) and Genito-urinary diseases (2.8%)
- Notable differences by gender are seen in the case of cardiovascular diseases with 32.4% of male deaths against 28.9% of female deaths. Higher proportion of female deaths can be seen from analysis in respiratory infections with 10.4% female deaths vis-à-vis 9.7% male deaths, respiratory diseases with 6.0% of female deaths versus 5.5% of male deaths and fever of unknown origin with 6.3% of female deaths versus 4.5% of male deaths.
- The specific analysis of causes of death from tuberculosis, Malaria, HIV/AIDS, etc shows that tuberculosis is the leading cause among these three conditions, causing about 2.4% of all deaths, and 3.0% at ages 30-69. Malaria and HIV/AIDS follows it, causing about 0.1% proportion each of all deaths.
- There is a marked regional variation in the contribution of various causes to the leading deaths. Cardiovascular disease is the leading cause of death in all the regions of India, with the highest proportion in the Eastern region (35.1%) and the lowest in the Central region (22.7%). The second leading cause of death varies across all the regions.
- Respiratory infections account for substantial proportion of deaths in all the regions with the maximum reported in the Western region (14.1%) followed by Central region (12.8%) and the minimum in the Northern and Eastern region (7.7%). The highest proportions of deaths due to ill-defined/ All other symptoms, signs and abnormal clinical and laboratory findings is observed in Western region (14.8%) followed by Northern regions with (12.0%) each.
- Malignant and other Neoplasm are responsible for the maximum proportion of deaths in North-East region (8.3%), Southern region (6.8%), followed by North (6.4%), Western (5.2%). For Central and Eastern regions, Malignant and other Neoplasm attribute 5.1% and 5.0%

proportion respectively. The proportion of deaths attributable to tuberculosis is 2.9% in North-East region and 2.4% in Western region. Tuberculosis is not in the top 10 causes of death in Northern, Eastern, Central and Southern region for present round.

## **1.8 Conclusion**

1.8.1 It is observed that there has been a decreasing trend of death in early ages and a visible shift of deaths to higher age groups. It shows impact of proper health facilities, which is suggestive that proper prevention programmes and health care facilities can certainly result in improving the situation. The findings of the Report highlight specifically the need for augmenting interventionist strategies and programs for reducing the mortality resulting from health problems in childhood. The spread of non-communicable diseases, particularly, the cardiovascular diseases, respiratory disease, respiratory infections and Malignant and other Neoplasms, which are causing maximum deaths in rural and urban areas across EAG states & Assam and the Other States, is another important finding of the Report.

1.8.2 There is, however, a need for a word of caution. The mortality results presented in the Report should be interpreted carefully as the chance of misclassification of causes is not completely ruled out. However, despite this limitation, the study brings out findings which should definitely help in enriching understanding of the mortality situation and challenges thereof in the country.

**Table 1.1 Number of sample units and population covered, India, States and Union Territories, 2022**

India/States/ Union Territories	Number of sample units			Population covered (in'000)		
	Total	Rural	Urban	Total	Rural	Urban
<b>India</b>	<b>8841</b>	<b>4958</b>	<b>3883</b>	<b>8310</b>	<b>6081</b>	<b>2229</b>
<b>Bigger States</b>						
1. Andhra Pradesh	325	198	127	357	284	73
2. Assam	299	89	210	232	114	118
3. Bihar	330	200	130	391	310	81
4. Chhattisgarh	158	73	85	122	75	47
5. Delhi	197	10	187	146	16	130
6. Gujarat	478	231	247	446	309	138
7. Haryana	255	144	111	266	201	65
8. Jammu & Kashmir	277	175	102	237	192	45
9. Jharkhand	210	91	119	163	98	64
10. Karnataka	511	361	150	493	412	81
11. Kerala	280	175	105	366	312	53
12. Madhya Pradesh	448	285	163	421	323	98
13. Maharashtra	661	306	355	539	359	180
14. Odisha	405	290	115	370	303	68
15. Punjab	249	130	119	224	154	70
16. Rajasthan	350	236	114	340	280	60
17. Tamil Nadu	545	235	310	531	342	189
18. Telangana	224	121	103	214	158	56
19. Uttar Pradesh	500	328	172	542	436	106
20. Uttarakhand	374	195	179	308	196	113
21. West Bengal	555	304	251	574	437	137
<b>Smaller States</b>						
1. Arunachal Pradesh	65	50	15	47	35	12
2. Goa	95	45	50	92	68	24
3. Himachal Pradesh	210	155	55	122	95	27
4. Manipur	165	120	45	152	126	26
5. Meghalaya	130	95	35	87	67	20
6. Mizoram	45	25	20	37	26	11
7. Nagaland	50	35	15	31	24	7
8. Sikkim	65	50	15	64	52	13
9. Tripura	90	65	25	114	99	16
<b>Union Territories</b>						
1. Andaman & Nicobar Islands	55	37	18	51	39	11
2. Chandigarh	40	5	35	35	10	24
3. Dadra & Nagar Haveli	35	15	20	42	29	13
4. Daman & Diu	25	15	10	30	22	7
5. Ladakh	71	49	22	53	45	7
6. Lakshadweep	14	2	12	14	4	9
7. Puducherry	55	18	37	53	29	25

Note: Rural and Urban population may not add up to the total population due to rounding off.

**Table 1.2: Comparison of Percentage of Deaths in Verbal Autopsy (2020-2022) and Sample Registration System (SRS 2020-2022) in different age groups**

Age Group	EAG States & Assam		Other States	
	SRS	VA	SRS	VA
0-4	13.1	7.9	4.4	2.7
05-14	1.6	1.3	1.0	0.7
15-29	6.6	6.4	4.5	4.3
30-34	2.7	2.9	2.5	2.5
35-44	6.5	7.2	6.6	6.7
45-54	8.6	8.9	10.8	10.7
55-69	25.9	27.6	29.3	29.8
70+	34.9	37.8	41.0	42.7

**Table 1.3A - Distribution of Deaths in India: 2020-2022, Person**

Causes of Death	Age-Group (Percentage of Deaths)							
	Person	0-4	05-14	15-29	30-44	45-54	55-69	70+
<b>Communicable, maternal, perinatal and nutritional conditions</b>	<b>24.0</b>	<b>77.7</b>	<b>34.8</b>	<b>21.6</b>	<b>21.2</b>	<b>18.8</b>	<b>20.2</b>	<b>22.8</b>
Acute bacterial sepsis & severe infections	0.4	4.4	0.0	0.4	0.3	0.2	0.2	0.2
Diarrhoeal diseases	2.3	4.1	6.9	2.3	1.6	1.3	1.7	2.8
Fever of unknown origin	5.3	4.6	8.1	4.2	3.3	3.1	4.5	6.9
HIV/AIDS	0.1	0.0	0.0	0.3	0.5	0.2	0.1	0.0
Malaria	0.1	0.2	0.6	0.4	0.2	0.1	0.1	0.1
Maternal conditions	0.2	0.0	0.0	2.6	0.7	0.0	0.0	0.0
Nutritional deficiencies	0.3	0.5	0.7	0.4	0.3	0.2	0.2	0.3
Other infectious and parasitic diseases	0.7	2.0	6.4	1.8	1.0	0.6	0.5	0.3
Perinatal conditions	2.0	45.6	0.9	0.1	0.0	0.0	0.0	0.0
Respiratory infections	10.0	16.2	8.7	4.8	9.0	9.6	9.9	10.4
Selected tropical diseases	0.3	0.1	1.5	0.9	0.4	0.3	0.3	0.1
Tuberculosis	2.4	0.1	0.9	3.4	3.8	3.2	2.7	1.8
<b>Injuries</b>	<b>8.8</b>	<b>4.6</b>	<b>31.0</b>	<b>43.4</b>	<b>21.9</b>	<b>10.2</b>	<b>5.3</b>	<b>3.6</b>
Injuries of Undetermined intent	0.1	0.1	0.2	0.8	0.3	0.1	0.0	0.0
Intentional injuries: Other Than Suicide	0.2	0.1	0.4	1.2	0.7	0.2	0.1	0.0
Intentional injuries: Suicide	2.3	0.1	3.8	17.1	7.3	2.6	1.0	0.3
Unintentional injuries: Motor Vehicle Accidents	2.8	0.5	6.7	15.6	8.6	3.8	1.7	0.5
Unintentional injuries: Other Than Motor Vehicle Accidents	3.5	3.9	20.0	8.7	5.1	3.5	2.5	2.7
<b>Non-Communicable diseases</b>	<b>55.7</b>	<b>11.3</b>	<b>24.0</b>	<b>27.7</b>	<b>52.6</b>	<b>67.0</b>	<b>69.3</b>	<b>52.9</b>
Cardiovascular diseases	30.9	0.5	3.0	9.8	23.7	35.9	39.7	31.6
Congenital anomalies	0.3	5.3	2.5	0.6	0.1	0.1	0.0	0.0
Diabetes mellitus	3.7	0.0	0.4	0.6	2.0	3.6	5.0	4.1
Digestive diseases	4.9	0.8	5.8	6.4	11.5	8.9	5.3	2.4
Genito-urinary diseases	2.8	0.0	1.0	2.4	3.9	4.2	3.5	2.2
Malignant and other Neoplasms	6.0	0.2	4.3	3.8	7.9	9.9	8.5	3.7
Other Non-Communicable Diseases	0.5	3.8	1.4	0.7	0.4	0.4	0.3	0.3
Respiratory diseases	5.7	0.5	0.9	1.1	2.0	3.2	6.3	8.0
Neuro-psychiatric conditions	0.7	0.3	4.8	2.1	1.2	0.8	0.5	0.5
<b>Symptoms, signs and Ill-defined conditions</b>	<b>11.6</b>	<b>6.3</b>	<b>10.1</b>	<b>7.4</b>	<b>4.4</b>	<b>4.0</b>	<b>5.2</b>	<b>20.7</b>
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	11.6	6.3	10.1	7.4	4.4	4.0	5.2	20.7

**Table 1.3B - Distribution of Deaths in India: 2020-2022, Male**

Causes of Deaths	Age-Group (Percentage of Deaths)							
	Person	0-4	05-14	15-29	30-44	45-54	55-69	70+
<b>Communicable, maternal, perinatal and nutritional conditions</b>	<b>22.4</b>	<b>77.5</b>	<b>32.4</b>	<b>15.0</b>	<b>19.0</b>	<b>17.6</b>	<b>19.0</b>	<b>22.2</b>
Acute bacterial sepsis & severe infections	0.4	4.7	0.0	0.3	0.3	0.2	0.2	0.2
Diarrhoeal diseases	1.9	4.0	5.6	1.8	1.3	1.0	1.4	2.3
Fever of unknown origin	4.5	4.1	8.1	3.5	2.9	2.6	3.9	6.3
HIV/AIDS	0.1	0.0	0.0	0.2	0.4	0.2	0.1	0.0
Malaria	0.1	0.2	0.5	0.3	0.2	0.1	0.1	0.0
Nutritional deficiencies	0.2	0.4	0.5	0.1	0.1	0.1	0.1	0.2
Other infectious and parasitic diseases	0.6	1.5	5.5	1.3	0.9	0.6	0.5	0.4
Perinatal conditions	2.0	46.4	1.1	0.0	0.0	0.0	0.0	0.0
Respiratory infections	9.7	16.0	9.1	4.1	8.8	9.3	9.5	10.4
Selected tropical diseases	0.2	0.1	1.6	0.9	0.3	0.2	0.2	0.1
Tuberculosis	2.7	0.1	0.4	2.5	3.8	3.3	3.0	2.2
<b>Injuries</b>	<b>10.4</b>	<b>4.8</b>	<b>36.2</b>	<b>51.5</b>	<b>24.7</b>	<b>11.6</b>	<b>5.9</b>	<b>3.5</b>
Injuries of Undetermined intent	0.1	0.1	0.3	0.9	0.3	0.1	0.1	0.0
Intentional injuries: Other Than Suicide	0.3	0.0	0.3	1.7	0.8	0.2	0.1	0.0
Intentional injuries: Suicide	2.6	0.1	3.2	16.3	7.7	2.9	1.2	0.4
Unintentional injuries: Motor Vehicle Accidents	3.9	0.4	8.9	22.2	10.5	4.6	2.1	0.8
Unintentional injuries: Other Than Motor Vehicle Accidents	3.6	4.2	23.6	10.4	5.4	3.7	2.5	2.3
<b>Non-Communicable diseases</b>	<b>57.5</b>	<b>11.5</b>	<b>21.6</b>	<b>26.1</b>	<b>52.0</b>	<b>67.0</b>	<b>70.4</b>	<b>56.3</b>
Cardiovascular diseases	32.4	0.5	2.8	9.6	23.8	37.4	41.4	33.8
Congenital anomalies	0.3	5.5	2.0	0.5	0.1	0.1	0.0	0.0
Diabetes mellitus	3.3	0.0	0.3	0.5	1.8	3.2	4.4	3.9
Digestive diseases	6.2	0.8	4.9	6.5	13.6	10.7	6.3	2.9
Genito-urinary diseases	3.1	0.0	0.7	2.2	3.7	4.1	3.7	2.7
Malignant and other Neoplasms	5.7	0.2	4.3	3.4	6.1	7.7	7.9	4.2
Neuro-psychiatric conditions	0.7	0.4	4.7	2.1	1.1	0.7	0.4	0.4
Other Non-Communicable Diseases	0.4	3.4	1.3	0.5	0.2	0.2	0.2	0.2
Respiratory diseases	5.5	0.6	0.7	0.8	1.7	2.9	6.0	8.3
<b>Symptoms, signs and Ill-defined conditions</b>	<b>9.7</b>	<b>6.2</b>	<b>9.9</b>	<b>7.4</b>	<b>4.3</b>	<b>3.8</b>	<b>4.7</b>	<b>18.0</b>
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	9.7	6.2	9.9	7.4	4.3	3.8	4.7	18.0

**Table 1.3C - Distribution of Deaths in India: 2020-22, Female**

Causes of Deaths	Age-Group (Percentage of Deaths)							
	Person	0-4	05-14	15-29	30-44	45-54	55-69	70+
<b>Communicable, maternal, perinatal and nutritional conditions</b>	<b>26.2</b>	<b>78.1</b>	<b>37.7</b>	<b>31.6</b>	<b>26.6</b>	<b>21.4</b>	<b>22.0</b>	<b>23.5</b>
Acute bacterial sepsis & severe infections	0.4	4.0	0.0	0.5	0.4	0.4	0.2	0.2
Diarrhoeal diseases	2.9	4.3	8.5	3.1	2.4	2.0	2.1	3.2
Fever of unknown origin	6.3	5.1	8.0	5.3	4.4	4.0	5.5	7.6
HIV/AIDS	0.1	0.0	0.0	0.3	0.7	0.2	0.1	0.0
Malaria	0.1	0.2	0.8	0.4	0.1	0.2	0.1	0.1
Maternal conditions	0.5	0.0	0.0	6.5	2.4	0.1	0.0	0.0
Nutritional deficiencies	0.4	0.5	0.9	0.9	0.7	0.4	0.3	0.3
Other infectious and parasitic diseases	0.8	2.7	7.6	2.6	1.3	0.8	0.6	0.3
Perinatal conditions	2.1	44.6	0.6	0.1	0.1	0.0	0.0	0.0
Respiratory infections	10.4	16.5	8.4	6.0	9.6	10.3	10.5	10.3
Selected tropical diseases	0.3	0.1	1.4	1.0	0.8	0.4	0.3	0.1
Tuberculosis	2.0	0.1	1.4	4.8	3.9	2.8	2.3	1.4
<b>Injuries</b>	<b>6.4</b>	<b>4.4</b>	<b>24.9</b>	<b>30.9</b>	<b>14.8</b>	<b>7.2</b>	<b>4.3</b>	<b>3.8</b>
Injuries of Undetermined intent	0.1	0.0	0.2	0.6	0.2	0.1	0.0	0.0
Intentional injuries: Other Than Suicide	0.1	0.1	0.5	0.5	0.3	0.1	0.1	0.0
Intentional injuries: Suicide	1.8	0.1	4.4	18.2	6.2	1.9	0.7	0.2
Unintentional injuries: Motor Vehicle Accidents	1.2	0.6	4.1	5.6	3.9	2.0	1.0	0.3
Unintentional injuries: Other Than Motor Vehicle Accidents	3.3	3.5	15.8	6.1	4.2	3.0	2.4	3.2
<b>Non-Communicable diseases</b>	<b>53.1</b>	<b>11.2</b>	<b>27.0</b>	<b>30.0</b>	<b>54.1</b>	<b>67.0</b>	<b>67.7</b>	<b>49.1</b>
Cardiovascular diseases	28.9	0.5	3.3	10.0	23.5	32.7	37.3	29.3
Congenital anomalies	0.3	4.9	3.0	0.7	0.2	0.1	0.0	0.0
Diabetes mellitus	4.3	0.0	0.6	0.9	2.4	4.5	6.0	4.3
Digestive diseases	3.2	0.6	6.9	6.4	6.1	4.8	3.8	1.9
Genito-urinary diseases	2.5	0.0	1.4	2.8	4.3	4.5	3.2	1.7
Malignant and other Neoplasms	6.4	0.1	4.3	4.5	12.5	14.9	9.4	3.3
Neuro-psychiatric conditions	0.8	0.2	4.9	2.2	1.4	1.0	0.7	0.5
Other Non-Communicable Diseases	0.8	4.3	1.4	1.1	0.9	0.8	0.5	0.5
Respiratory diseases	6.0	0.4	1.1	1.5	2.8	3.9	6.7	7.6
<b>Symptoms, signs and Ill-defined conditions</b>	<b>14.2</b>	<b>6.4</b>	<b>10.4</b>	<b>7.5</b>	<b>4.5</b>	<b>4.4</b>	<b>5.9</b>	<b>23.7</b>
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	14.2	6.4	10.4	7.5	4.5	4.4	5.9	23.7

## CHAPTER 2

### MAJOR CAUSES OF DEATHS

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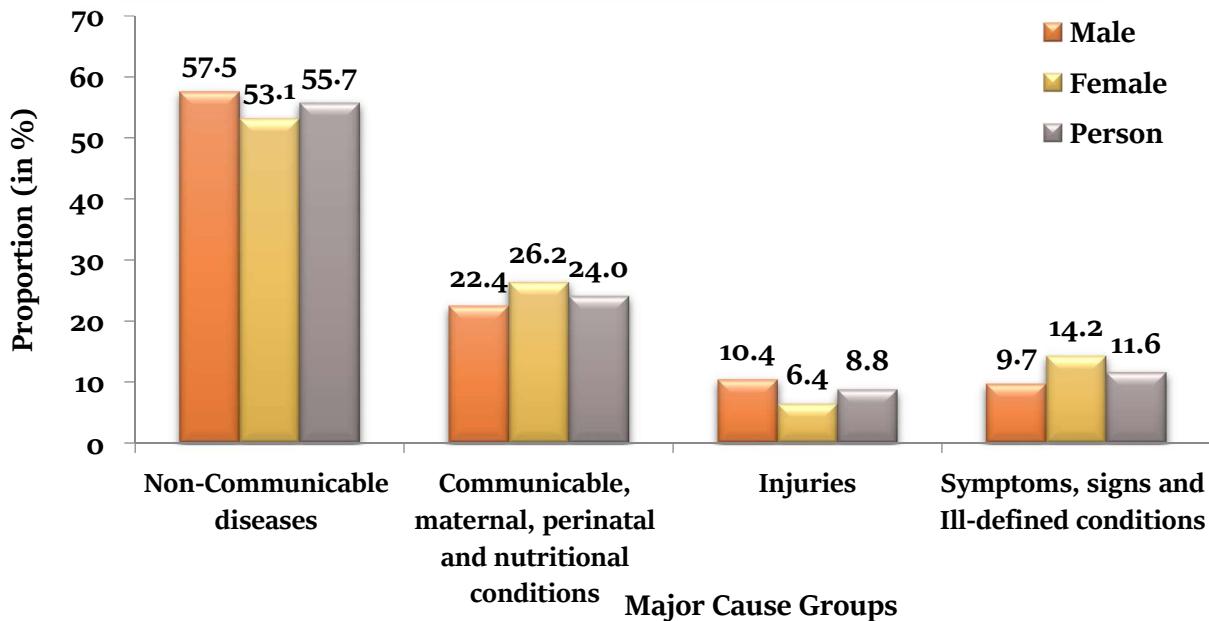
**2.1** This chapter present the statistics relating Major Cause Groups of deaths in India for 2020-22 with segregated information for Gender, Residence and EAG States and Assam and other States. In addition to this, this chapter also provides Top 10 causes of deaths in India and segregation at the level of Gender, Residence and EAG States and Assam and other States.

**2.2.1** Table 2.1A depicts the proportion of deaths by major cause groups in India for a period of 2020-2022. Overall non-communicable diseases are the leading causes of deaths in the country, constituting 55.7 percent proportion of all deaths followed by Communicable, maternal, perinatal and nutritional conditions which constitute another 24.0 percent proportion of deaths. Proportion of male deaths in total deaths is higher for non-communicable diseases and injuries whereas for symptoms, signs and ill-defined conditions and Communicable, maternal, perinatal and nutritional conditions, proportion of female deaths is higher than male deaths. The deaths due to Symptoms, signs and ill-defined conditions are higher in female (14.2%) than male (9.7%). Chart - 1 provides the distribution of deaths by major cause groups, for male, female and person for the period 2020-22. Chart 2 provides distribution of deaths by major cause groups for persons in India for the period 2020-2022.

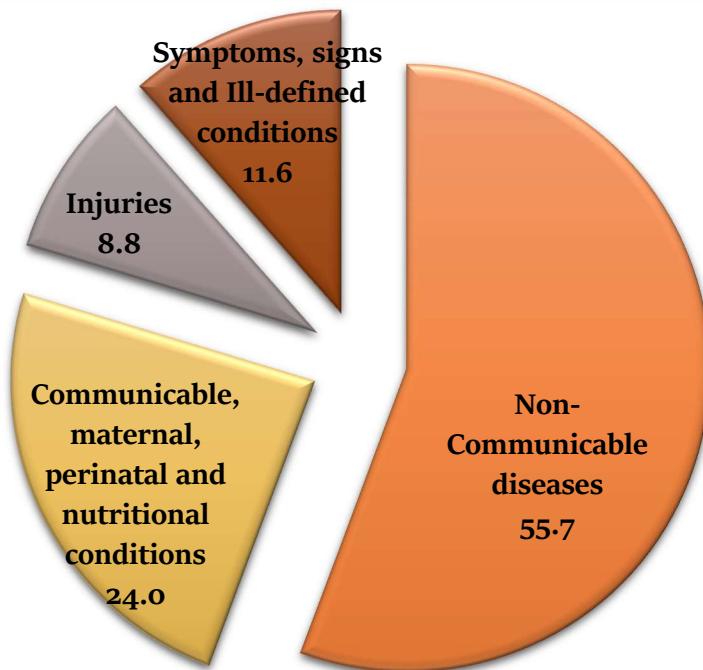
**Table 2.1A - Distribution of Deaths by Major Cause Groups in India: 2020-2022**

Cause of Death	Number and Proportion of Death					
	Male	Male (%)	Female	Female (%)	Person	Person (%)
Non-Communicable diseases	51172	57.5	33131	53.1	84303	55.7
Communicable, maternal, perinatal and nutritional conditions	19950	22.4	16383	26.2	36333	24.0
Injuries	9271	10.4	4024	6.4	13295	8.8
Symptoms, signs and Ill-defined conditions	8619	9.7	8878	14.2	17497	11.6
<b>Total</b>	<b>89,012</b>	<b>100.0</b>	<b>62,416</b>	<b>100.0</b>	<b>1,51,428</b>	<b>100.0</b>

### Chart 1-Distribution of Deaths by Major Cause Groups by Gender, India, 2020-2022



### Chart 2- Distribution of Deaths by Major cause groups in India: 2020-2022



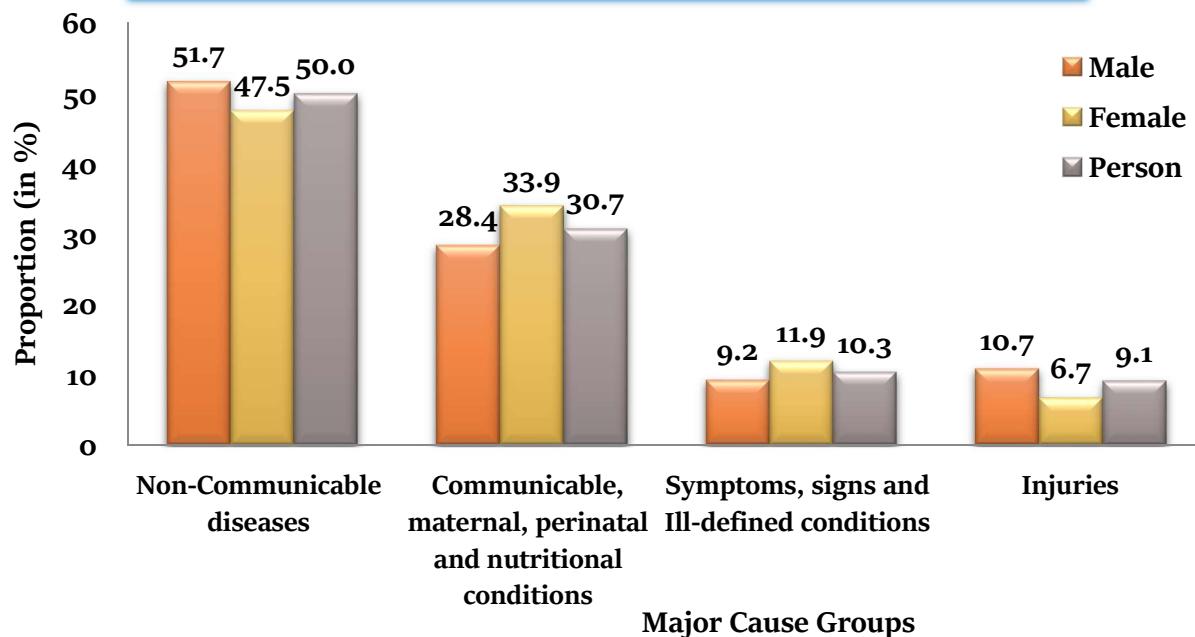
**2.2.2** Table 2.1B shows the proportion of deaths in EAG States & Assam and Other states by major cause group of deaths. At national level, non-communicable diseases (55.7%) are leading

cause of death. The proportion of deaths due to non-communicable diseases continues to be higher in Other states (58.7%) as compared to EAG states & Assam (50.0%). Communicable diseases as second major cause of death group has higher proportion of deaths in EAG states & Assam (30.7%) as compared to Other states (20.5%). It is observed that the proportion of deaths due to Symptoms, signs and ill-defined conditions is higher in females for both categories of EAG & Assam States (11.9%) and Other States (15.5%). Similarly, the proportion of deaths due to Injuries is higher in males for both categories of EAG & Assam States (10.7%) and Other States (10.2%). Chart 3 and 4 provides details about the distribution of the deaths by major cause groups for males, females and persons in EAG States and Assam and Other States respectively.

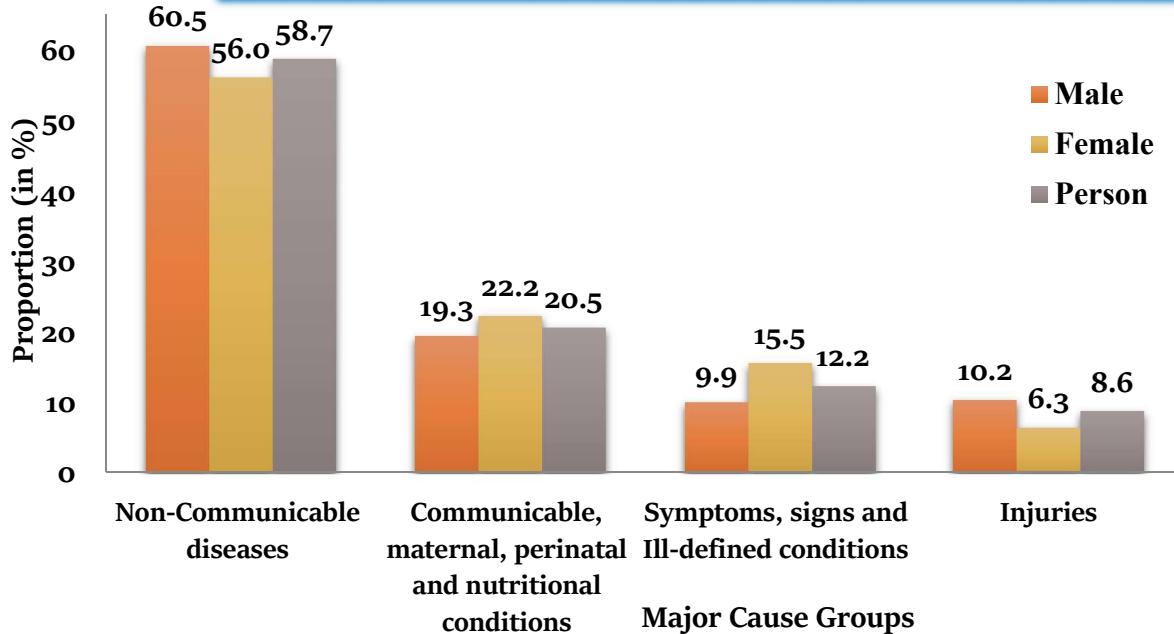
**Table 2.1B – Distribution of Deaths by Major Cause Groups  
in EAG States & Assam and Other States: 2020-2022**

Cause of Death	Number and Proportion of Deaths					
	Male	Male (%)	Female	Female (%)	Person	Person (%)
<b>EAG and Assam</b>						
Non-Communicable diseases	15821	51.7	10302	47.5	26123	50.0
Communicable, maternal, perinatal and nutritional conditions	8678	28.4	7353	33.9	16031	30.7
Symptoms, signs and ill-defined conditions	2820	9.2	2578	11.9	5398	10.3
Injuries	3290	10.7	1443	6.7	4733	9.1
<b>Others</b>						
Non-Communicable diseases	35351	60.5	22829	56.0	58180	58.7
Communicable, maternal, perinatal and nutritional conditions	11272	19.3	9030	22.2	20302	20.5
Symptoms, signs and ill-defined conditions	5799	9.9	6300	15.5	12099	12.2
Injuries	5981	10.2	2581	6.3	8562	8.6

**Chart 3 - Distribution of Deaths by Major Cause Groups by Gender in EAG States & Assam : 2020-2022**



**Chart 4 - Distribution of Deaths by Major Cause Groups by Gender in Other States : 2020-2022**



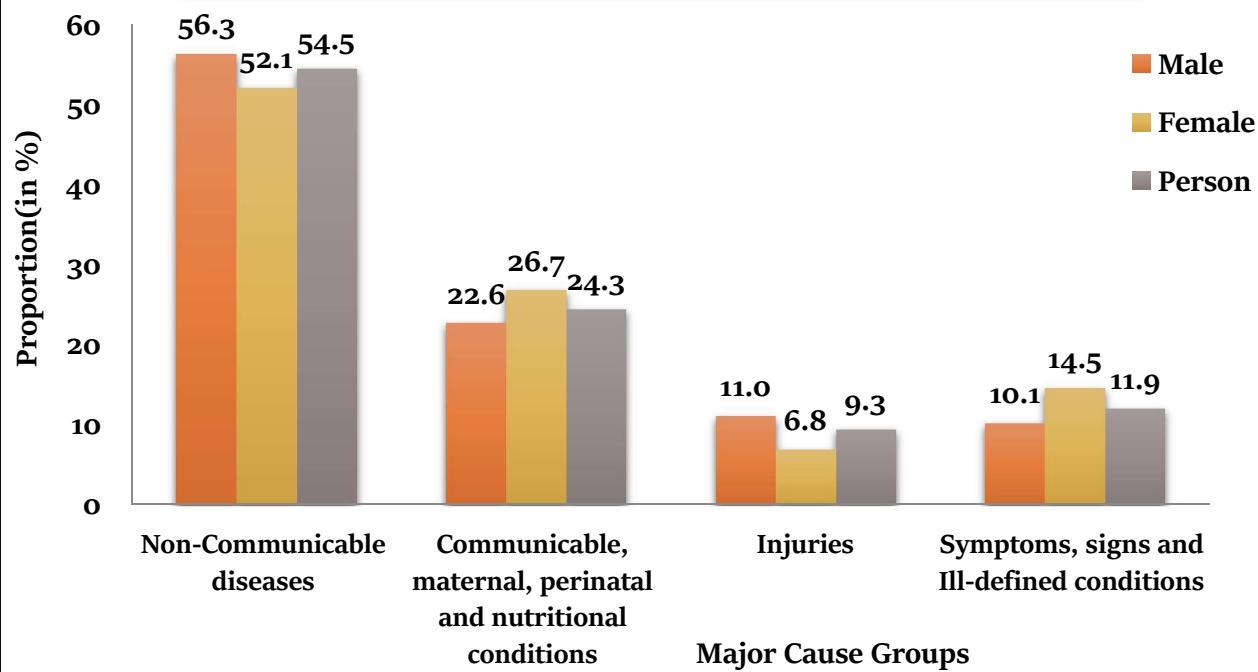
**2.2.3** Table 2.1C represents the proportion of deaths in rural and urban areas by Major Cause Groups of Deaths. Non-communicable diseases which is major cause of death, contributes higher deaths both in rural and urban area with share of 54.5% and 59.5% percent respectively. The

differences in proportion in communicable, maternal, perinatal and nutritional conditions and non-communicable diseases are visible in urban areas (23.0% and 59.5%) and in rural areas (24.3% and 54.5%). Both the rural and urban areas have the lowest proportion of deaths from injuries. Symptoms, signs and ill-defined conditions constitute 11.9 and 10.3 percent deaths in rural and urban areas respectively. Chart 5 and 6 provides details about the distribution of the deaths by major cause groups for males, females and persons in Rural and Urban areas respectively.

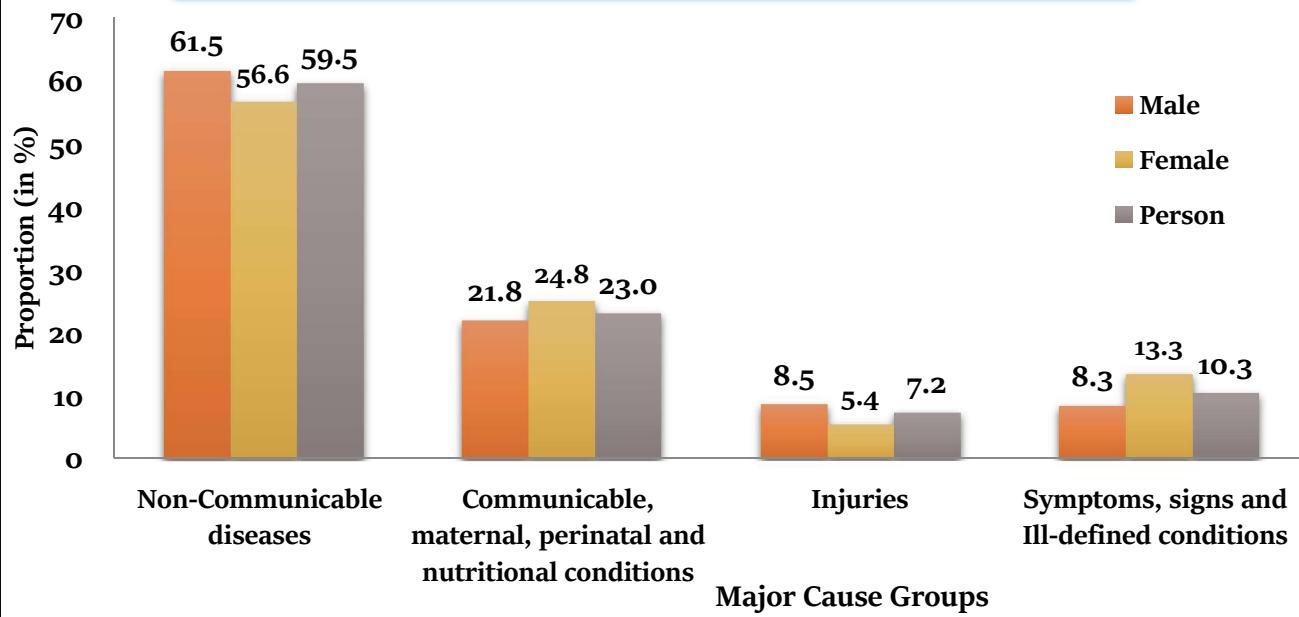
**Table 2.1C – Distribution of Deaths by Major Cause Groups and Residence: 2020-2022**

Cause of Death	Number and Proportion of Deaths					
	Male	Male (%)	Female	Female (%)	Person	Person (%)
<b>Rural</b>						
Non-Communicable diseases	38578	56.3	25108	52.1	63686	54.5
Communicable, maternal, perinatal and nutritional conditions	15485	22.6	12869	26.7	28354	24.3
Symptoms, signs and ill-defined conditions	6918	10.1	6994	14.5	13912	11.9
Injuries	7539	11.0	3265	6.8	10804	9.3
<b>Urban</b>						
Non-Communicable diseases	12594	61.5	8023	56.6	20617	59.5
Communicable, maternal, perinatal and nutritional conditions	4465	21.8	3514	24.8	7979	23.0
Symptoms, signs and ill-defined conditions	1701	8.3	1884	13.3	3585	10.3
Injuries	1732	8.5	759	5.4	2491	7.2

**Chart 5 - Distribution of Deaths by Major Cause Groups by Gender in Rural area: 2020-2022**



**Chart 6 - Distribution of Deaths by Major Cause Groups by Gender in Urban area: 2020-2022**

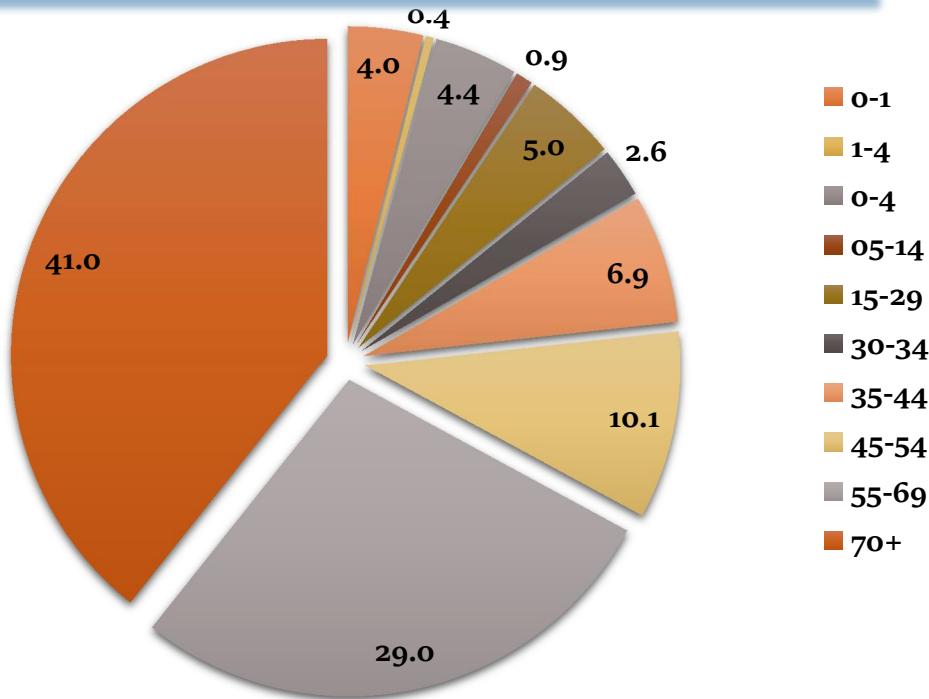


**2.3.1** Table 2.2A shows the distribution of deaths in India in different age group. The majority of deaths in year 2020-2022 occurred in old-age (70+ years). Rate of mortality is increasing with age. The age group 0-4 is further sub-categorized into two groups: 0-1 and 1-4 years. The contribution of female deaths (4.2%) in infants is higher than male deaths (3.9%), and the deaths of females in age group 1-4 years (0.5%) are more than male deaths (0.4%). In age group 5-14 and 70+: share of female deaths is more than male deaths. For other age groups, the share of male deaths is more than female deaths. Chart 7 and 8 depicts broad age-group distribution of the deaths for persons and gender respectively.

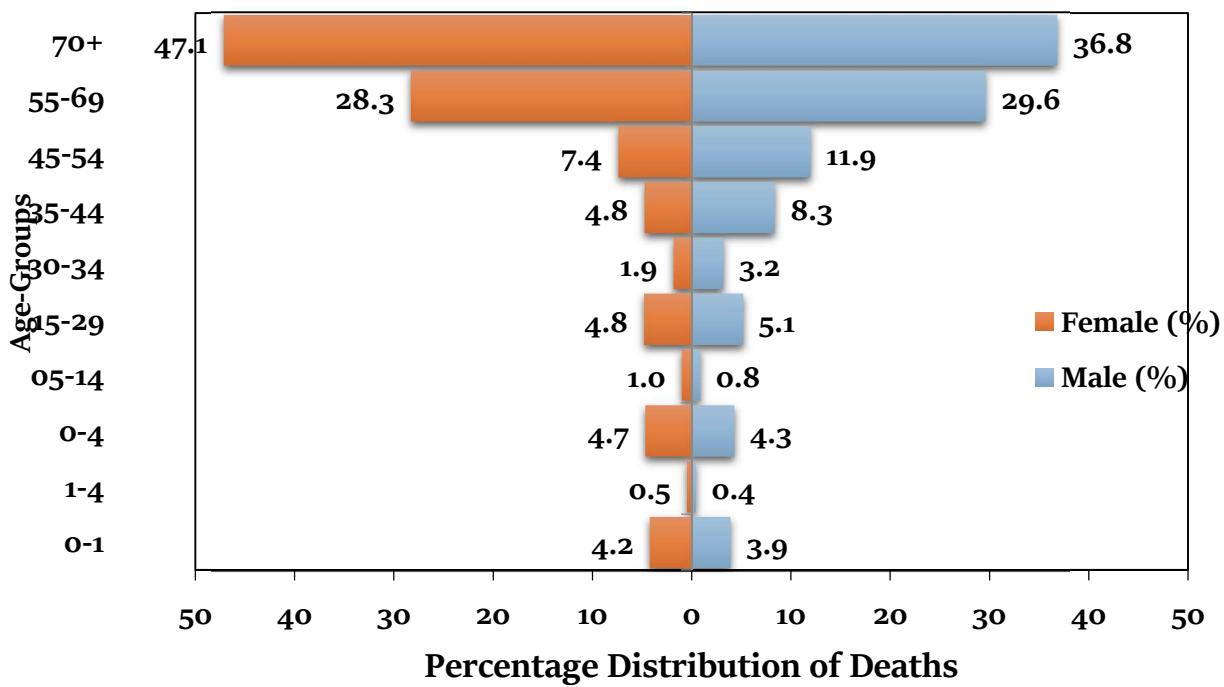
**Table 2.2A – Distribution of Deaths in India by age and gender: 2020-2022**

Age Group	Number and Proportion of Deaths					
	Male	Male (%)	Female	Female (%)	Person	Person (%)
0-1	3448	3.9	2639	4.2	6087	4.0
1-4	350	0.4	301	0.5	651	0.4
0-4	3798	4.3	2940	4.7	6738	4.4
05-14	751	0.8	634	1.0	1385	0.9
15-29	4583	5.1	3006	4.8	7589	5.0
30-34	2812	3.2	1159	1.9	3971	2.6
35-44	7408	8.3	2968	4.8	10376	6.9
45-54	10610	11.9	4639	7.4	15249	10.1
55-69	26323	29.6	17645	28.3	43968	29.0
70+	32727	36.8	29425	47.1	62152	41.0

**Chart 7 - Distribution of Deaths by Broad Age-Groups, India: 2020-2022**



**Chart 8 - Distribution of Deaths by Gender and Broad Age-Groups, India: 2020-2022**

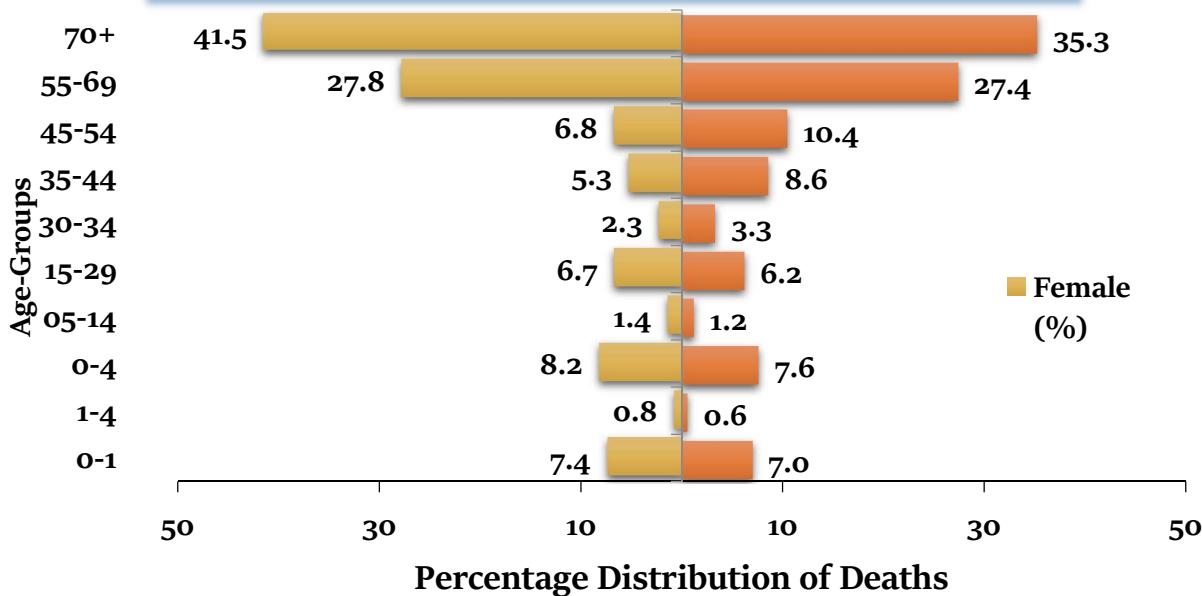


**2.3.2** Table 2.2B represents the broad age-group wise distribution of deaths in EAG States & Assam and Other states for period of 2020-2022. Majority of deaths are in older age groups. The proportion of deaths is higher for female in age groups 0-4, 5-14 and 70+ years for EAG states & Assam and Other states as well. The share of infant deaths (0-1 years) in EAG states & Assam (7.2%) is three times than that of Other States (2.4%). For age group 1-4 years, proportion for deaths is more than double in EAG states & Assam (0.7%) than in Other States (0.3%). The proportion of deaths in EAG States and Assam is more than Other States for all age-groups till 35-44 and the same is reversed afterward showing higher proportions of deaths in Other States than EAG States and Assam. Chart 9 and 10 depicts broad age-group distribution of the deaths according to gender for EAG States and Assam and Other States respectively.

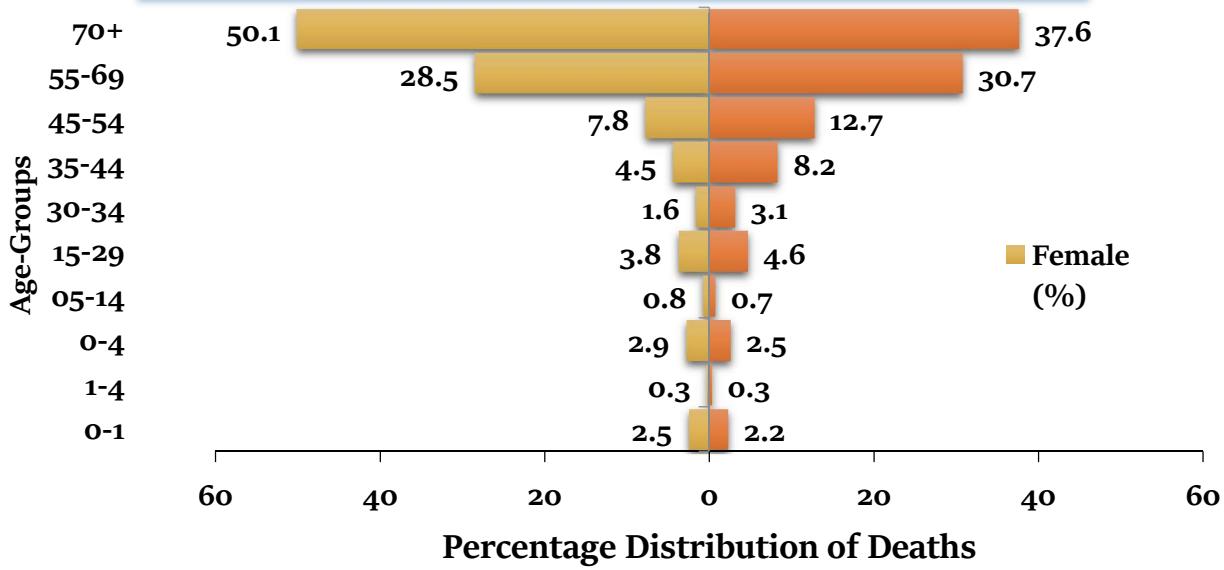
**Table 2.2B – Distribution of deaths in EAG States & Assam and Other States by different age groups: 2020-2022**

Age Group	Number and Proportion of Deaths											
	EAG States and Assam						Other States					
	Male	Male %	Female	Female %	Person	Person %	Male	Male %	Female	Female %	Person	Person %
0-1	2148	7.0	1604	7.4	3752	7.2	1300	2.2	1035	2.5	2335	2.4
1-4	182	0.6	173	0.8	355	0.7	168	0.3	128	0.3	296	0.3
0-4	2330	7.6	1777	8.2	4107	7.9	1468	2.5	1163	2.9	2631	2.7
05-14	364	1.2	308	1.4	672	1.3	387	0.7	326	0.8	713	0.7
15-29	1896	6.2	1461	6.7	3357	6.4	2687	4.6	1545	3.8	4232	4.3
30-34	1016	3.3	493	2.3	1509	2.9	1796	3.1	666	1.6	2462	2.5
35-44	2625	8.6	1147	5.3	3772	7.2	4783	8.2	1821	4.5	6604	6.7
45-54	3197	10.4	1465	6.8	4662	8.9	7413	12.7	3174	7.8	10587	10.7
55-69	8390	27.4	6030	27.8	14420	27.6	17933	30.7	11615	28.5	29548	29.8
70+	10791	35.3	8995	41.5	19786	37.8	21936	37.6	20430	50.1	42366	42.7

**Chart 9 - Distribution of Deaths by Broad Age-Groups and Gender in EAG States & Assam: 2020-2022**



**Chart 10 - Distribution of Deaths by Broad Age-Groups and Gender in Other States: 2020-2022**



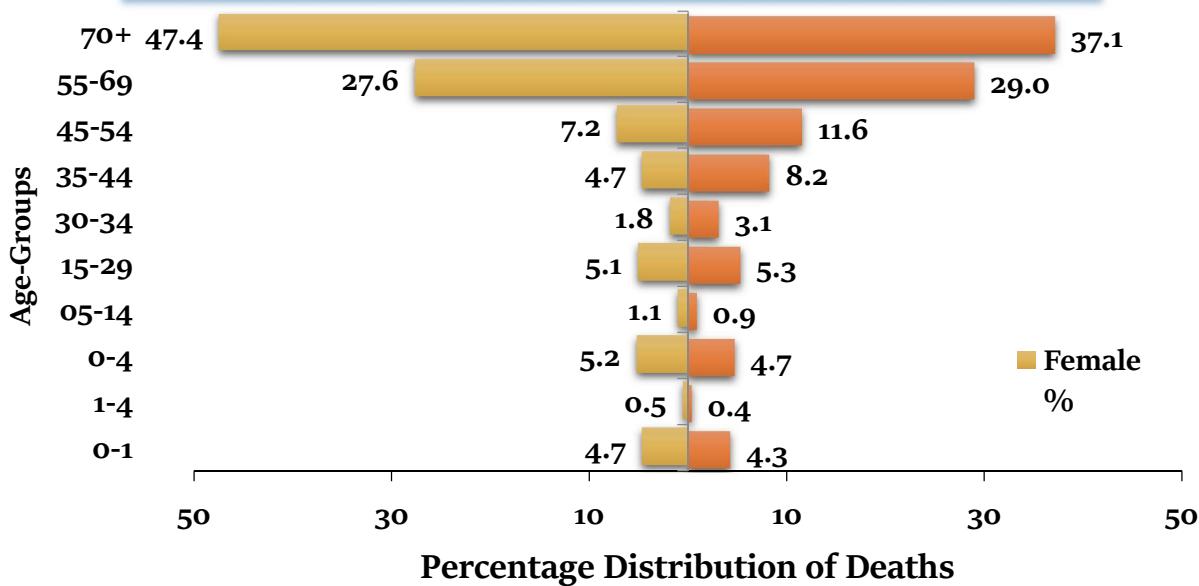
**2.3.3** Table 2.2C depicts the distribution of deaths in rural & urban areas of country during the period 2020-2022. Both rural and urban areas report a greater number of deaths in age group 70+ years. Male deaths are more in all age groups compared to female deaths. Share of deaths in age groups 30-34, 35-44, 45-54 and 55-69 years is more in the urban area as compared to the rural area. However, for the remaining age-groups, proportion of deaths is higher in rural areas than urban areas. The difference in the proportion of deaths of males and females is more for the age

group 35-44, 45-54 and 70+ years, both in rural and urban area and variation is least in age-groups 1-4 and 5-14. Chart 11 and 12 depicts broad age-group distribution of the deaths according to gender for Rural and Urban areas respectively.

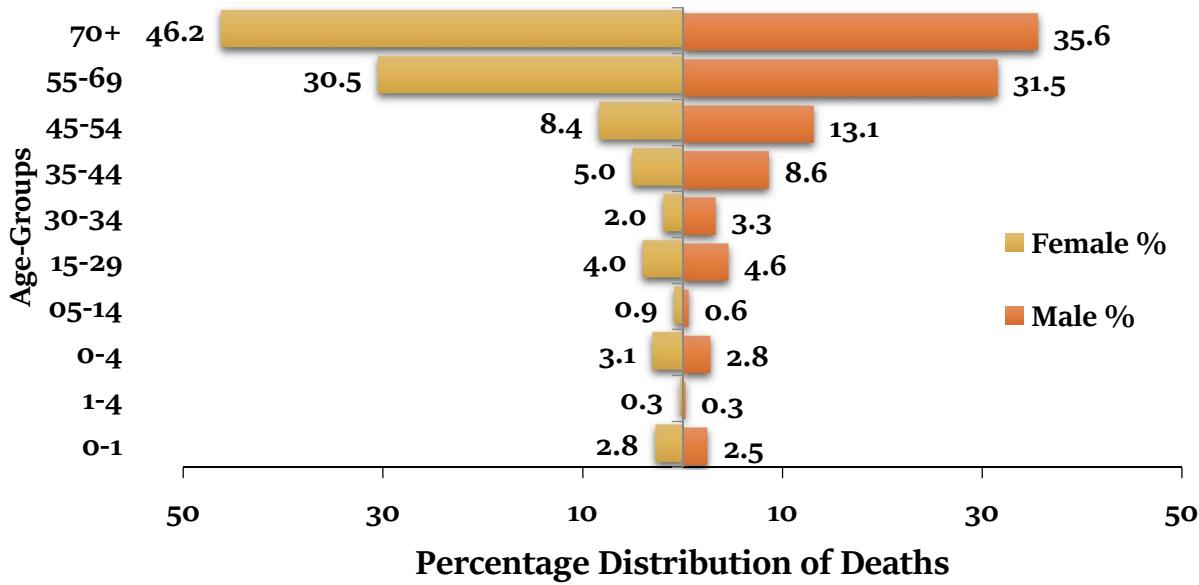
**Table 2.2C – Distribution of Deaths in Rural & Urban Areas by age and gender: 2020-2022**

Age Group	Number and Proportion of Deaths											
	Rural						Urban					
	Male	Male %	Female	Female %	Person	Person %	Male	Male %	Female	Female %	Person	Person %
0-1	2942	4.3	2249	4.7	5191	4.4	506	2.5	390	2.8	896	2.6
1-4	291	0.4	256	0.5	547	0.5	59	0.3	45	0.3	104	0.3
0-4	3233	4.7	2505	5.2	5738	4.9	565	2.8	435	3.1	1000	2.9
05-14	626	0.9	511	1.1	1137	1.0	125	0.6	123	0.9	248	0.7
15-29	3646	5.3	2439	5.1	6085	5.2	937	4.6	567	4.0	1504	4.3
30-34	2141	3.1	879	1.8	3020	2.6	671	3.3	280	2.0	951	2.7
35-44	5643	8.2	2256	4.7	7899	6.8	1765	8.6	712	5.0	2477	7.1
45-54	7922	11.6	3452	7.2	11374	9.7	2688	13.1	1187	8.4	3875	11.2
55-69	19867	29.0	13319	27.6	33186	28.4	6456	31.5	4326	30.5	10782	31.1
70+	25442	37.1	22875	47.4	48317	41.4	7285	35.6	6550	46.2	13835	39.9

**Chart 11 - Distribution of Deaths by Broad Age -Groups and Gender in Rural Area: 2020-2022**



**Chart 12 - Distribution of Deaths by Broad Age -Groups and Gender in Urban Area: 2020-2022**



2.4.1 Table 2.3A represents the top 10 leading causes of deaths in the country for the period 2020-2022. Overall, the leading cause of deaths is cardiovascular disease (30.9%) followed by ill-defined/all other symptoms, signs and abnormal clinical and laboratory findings (11.6%) and respiratory infections (10.0%). The proportion of deaths due to Malignant and other neoplasm is higher in females i.e. 6.4% vis-à-vis 5.7% than in males. Notable differences by gender are seen

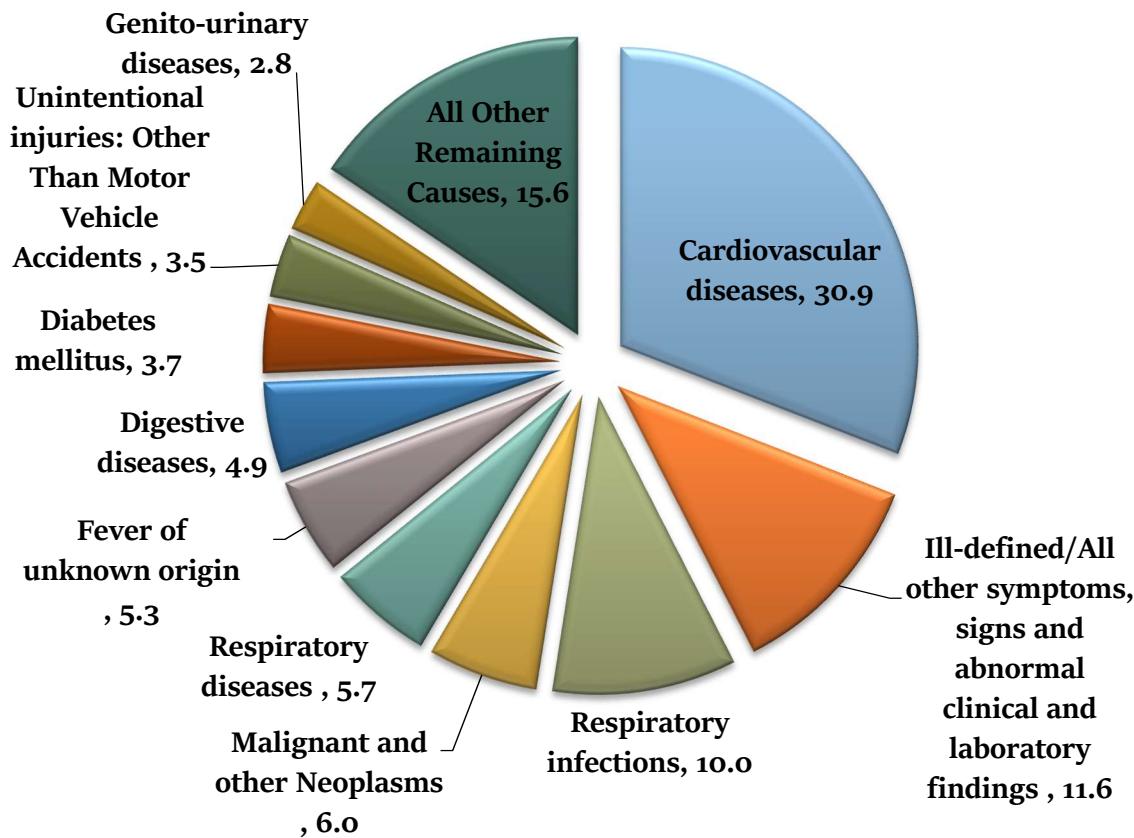
with digestive diseases accounting for 6.2 percentage proportion of male deaths against 3.2 percentage proportion for female deaths and ill-defined/all other symptoms, signs and abnormal clinical and laboratory findings accounting for 14.2 percent of female deaths versus 9.7 percent of male deaths. Chart 13 shows the top 10 causes of deaths in the Country during 2020-22.

**Table 2.3A – Top 10 Causes of Deaths in India: 2020-2022**

Rank	Cause of Death	Proportion of death		
		Male	Female	Person
1	Cardiovascular diseases	32.4	28.9	30.9
2	Respiratory infections	9.7	10.4	10.0
3	Malignant and other Neoplasms	5.7	6.4	6.0
4	Respiratory diseases	5.5	6.0	5.7
5	Fever of unknown origin	4.5	6.3	5.3
6	Digestive diseases	6.2	3.2	4.9
7	Diabetes mellitus	3.3	4.3	3.7
8	Unintentional injuries: Other Than Motor Vehicle Accidents	3.6	3.3	3.5
9	Genito-urinary diseases	3.1	2.5	2.8
10	Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	9.7	14.2	11.6
	All Other Remaining Causes	16.3	14.5	15.6

Note: Symptoms, Signs and Abnormal Clinical and Laboratory Findings Not Elsewhere Classified (NEC) (R00-R99) are causes which can't be properly diagnosed. So, it may not be considered as the second leading cause group.

**Chart 13 - Top 10 Causes of Deaths in India, 2020-2022**



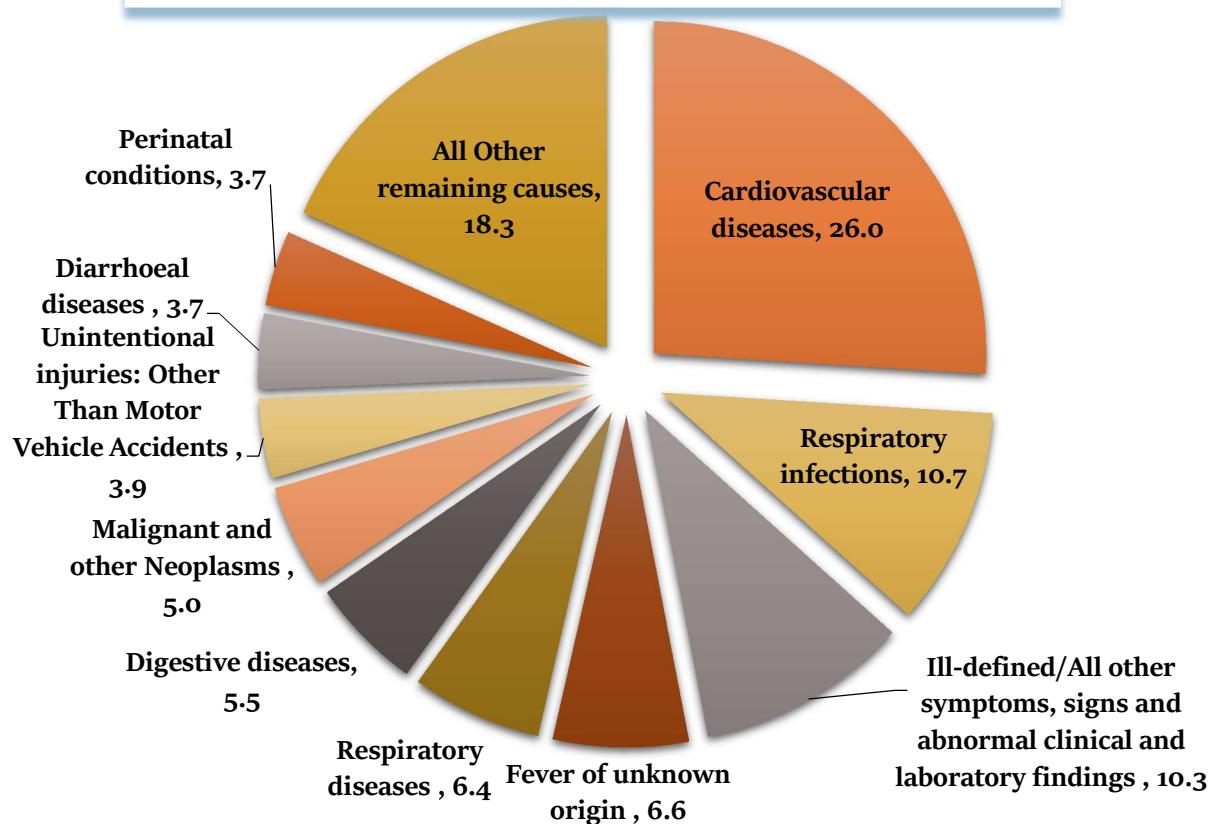
**2.4.2** Table 2.3 B shows the top 10 causes of deaths in EAG States & Assam and Other states for the period 2020-2022. The top 10 causes of death are common in the EAG states & Assam and in Other states, except for Diarrhoeal diseases, perinatal conditions in EAG states & Assam and diabetes mellitus, Genito-urinary diseases in Other States. However, their relative order varies. The proportion of deaths due to cardiovascular disease in Other States (33.5%) is more than 7 percentage points in EAG States and Assam (26.0%). The proportion of deaths due to respiratory infections, respiratory diseases, malignant & other neoplasm and fever of unknown origin are higher for female in both EAG States & Assam and Other States. Chart 14 and 15 depicts the top 10 causes of deaths in the Country during 2020-22 for EAG States and Assam and Other States respectively.

**Table 2.3B – Top 10 causes of death in EAG states & Assam and Other states: 2020-2022**

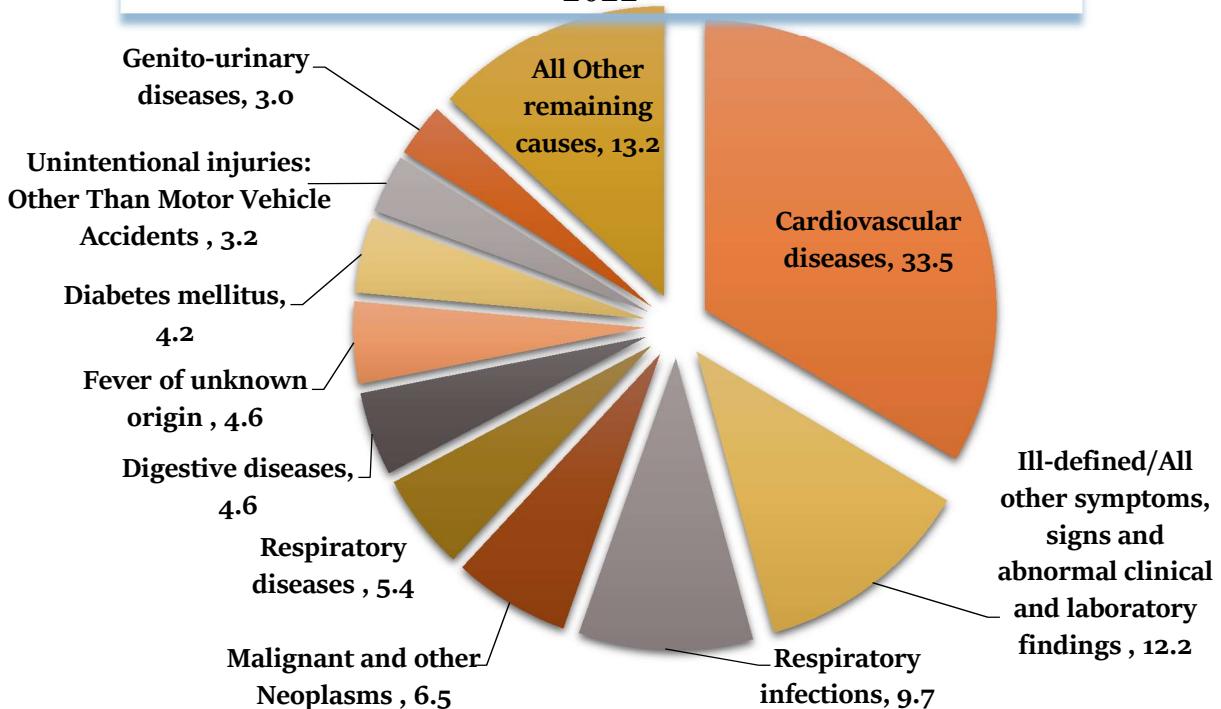
Rank	Cause of Death	% Proportion of death		
		Male	Female	Person
<b>EAG States &amp; Assam</b>				
1	Cardiovascular diseases	27.3	24.1	26.0
2	Respiratory infections	10.2	11.3	10.7
3	Fever of unknown origin	5.8	7.8	6.6
4	Respiratory diseases	6.2	6.6	6.4
5	Digestive diseases	6.3	4.3	5.5
6	Malignant and other Neoplasms	4.9	5.2	5.0
7	Unintentional injuries: Other Than Motor Vehicle Accidents	4.0	3.7	3.9
8	Diarrhoeal diseases	3.1	4.5	3.7
9	Perinatal conditions	3.6	3.8	3.7
10	Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	9.2	11.9	10.3
	All Other remaining causes	19.5	16.7	18.3
<b>Other States</b>				
1	Cardiovascular diseases	35.0	31.4	33.5
2	Respiratory infections	9.5	9.9	9.7
3	Malignant and other Neoplasms	6.1	7.0	6.5
4	Respiratory diseases	5.1	5.7	5.4
5	Digestive diseases	6.1	2.6	4.6
6	Fever of unknown origin	3.9	5.5	4.6
7	Diabetes mellitus	3.7	4.9	4.2
8	Unintentional injuries: Other Than Motor Vehicle Accidents	3.3	3.1	3.2
9	Genito-urinary diseases	3.2	2.6	3.0
10	Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	9.9	15.5	12.2
	All Other remaining causes	14.1	11.8	13.2

Note: Symptoms, Signs and Abnormal Clinical and Laboratory Findings Not Elsewhere Classified (NEC) (R00-R99) are causes which can't be properly diagnosed. So, it may not be considered as the second leading cause group.

**Chart 14 - Top 10 Causes of Deaths in EAG States & Assam,  
2020-2022**



**Chart 15 - Top 10 Causes of Deaths in Other States: 2020-2022**



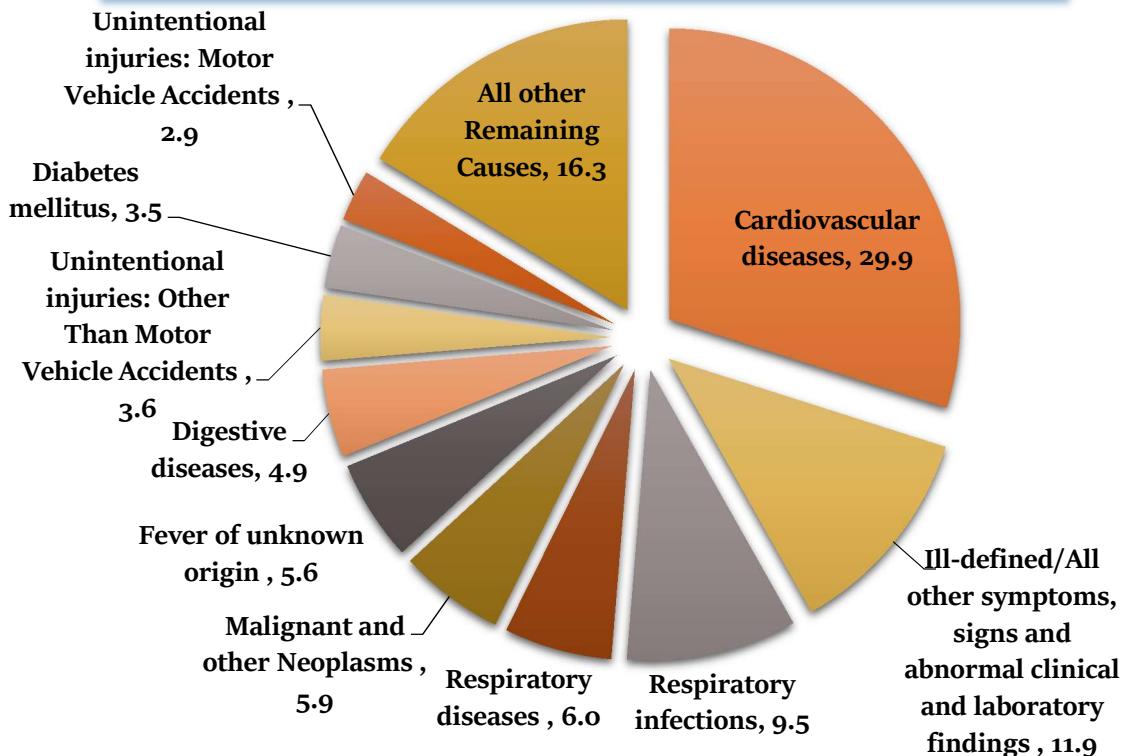
**2.4.3** Table 2.3C shows the top causes of death in rural and urban area for period of 2020-2022. The top 10 causes of deaths in the rural and urban areas are common except for deaths due to Unintentional injuries: Motor Vehicle Accidents in rural area and Genito-urinary diseases in urban area. However, their relative order varies. Cardiovascular diseases which is leading cause of death both in areas accounts for 34.4 percent of deaths in urban vis-à-vis 29.9 percent in rural area. The difference in proportion of male deaths due to Digestive diseases is higher than female deaths both in rural and urban areas. The higher proportion of deaths of female is due to respiratory diseases, Diabetes mellitus, fever of unknown origin and malignant & other neoplasm. Chart 16 and 17 depicts the top 10 causes of deaths in the Country during 2020-22 for Rural and Urban areas respectively.

**Table 2.3C – Top 10 Causes of Death in Rural & Urban Areas: 2020-2022**

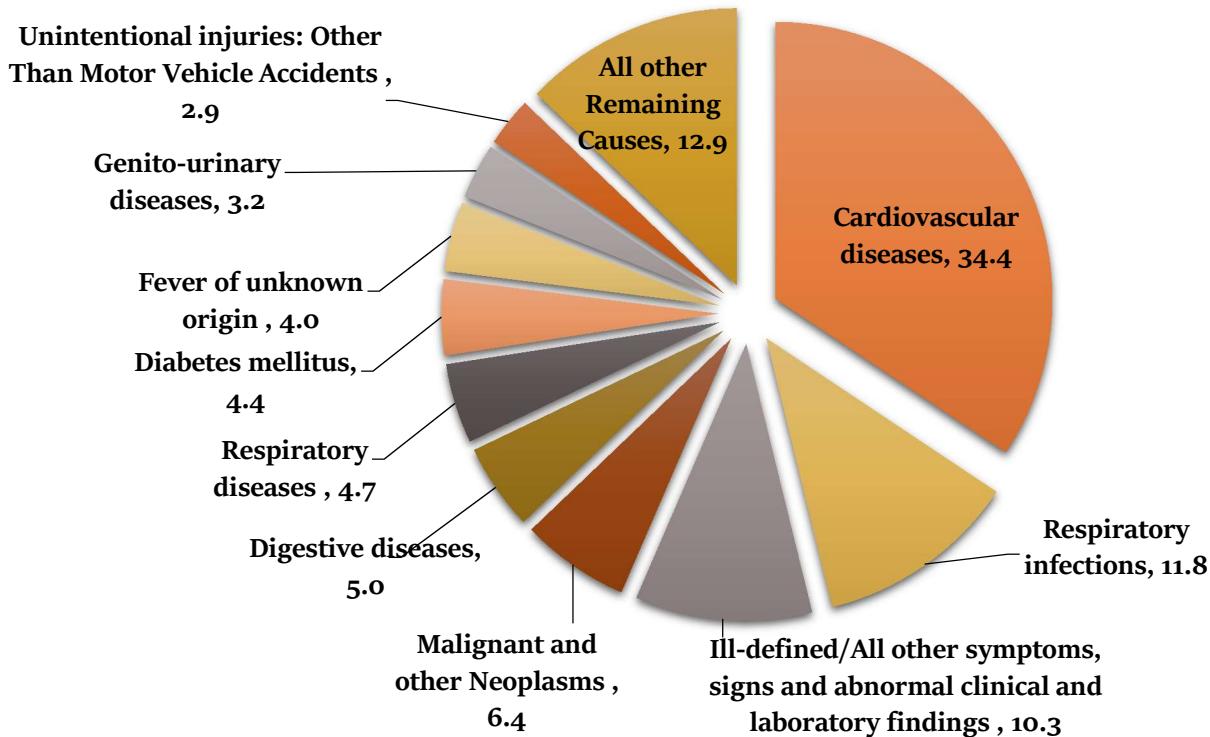
Rank	Cause of Death	% Proportion of death		
		Male	Female	Person
<b>Rural Area</b>				
1	Cardiovascular diseases	31.2	28.1	29.9
2	Respiratory infections	9.2	9.9	9.5
3	Respiratory diseases	5.8	6.3	6.0
4	Malignant and other Neoplasms	5.6	6.3	5.9
5	Fever of unknown origin	4.9	6.7	5.6
6	Digestive diseases	6.1	3.2	4.9
7	Unintentional injuries: Other Than Motor Vehicle Accidents	3.8	3.4	3.6
8	Diabetes mellitus	3.2	4.0	3.5
9	Unintentional injuries: Motor Vehicle Accidents	4.0	1.3	2.9
10	Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	10.1	14.5	11.9
	All other Remaining Causes	16.1	16.5	16.3
<b>Urban Area</b>				
1	Cardiovascular diseases	36.3	31.6	34.4
2	Respiratory infections	11.7	12.0	11.8
3	Malignant and other Neoplasms	6.0	6.8	6.4
4	Digestive diseases	6.3	3.2	5.0
5	Respiratory diseases	4.3	5.2	4.7
6	Diabetes mellitus	3.8	5.3	4.4
7	Fever of unknown origin	3.4	5.0	4.0
8	Genito-urinary diseases	3.5	2.9	3.2
9	Unintentional injuries: Other Than Motor Vehicle Accidents	2.8	3.0	2.9
10	Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	8.3	13.3	10.3
	All other Remaining Causes	13.6	11.8	12.9

Note: Symptoms, Signs and Abnormal Clinical and Laboratory Findings Not Elsewhere Classified (NEC) (R00-R99) are causes which can't be properly diagnosed. So, it may not be considered as the second leading cause group.

**Chart 16 - Top 10 Causes of Deaths in Rural Area: 2020-2022**



**Chart 17 - Top 10 Causes of Deaths in Urban Area: 2020-2022**



## CHAPTER 3

### MORTALITY PATTERNS IN SPECIFIC AGE-GROUPS

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**3.1** This chapter reviews the mortality pattern in different age groups by cause groups, stratified by gender, EAG states and Assam versus other states, and Rural versus Urban areas. There are four different age groups namely Child mortality (age 0-4), Adolescent and young adult mortality (age 5 to 14 and age 15 to 29), Adult mortality in middle age (age 30-69) and adult mortality in old age (age 70 and older). The mortality in age group 0-4 has been further analyzed for age below 1 and ages between 1 to 4 to provide an insight into the specific causes of death which needs attention in these two important age groups. The Sustainable Development Goals (SDG) have a target of reducing child mortality in the country from 25 per 1000 live births by 2030.

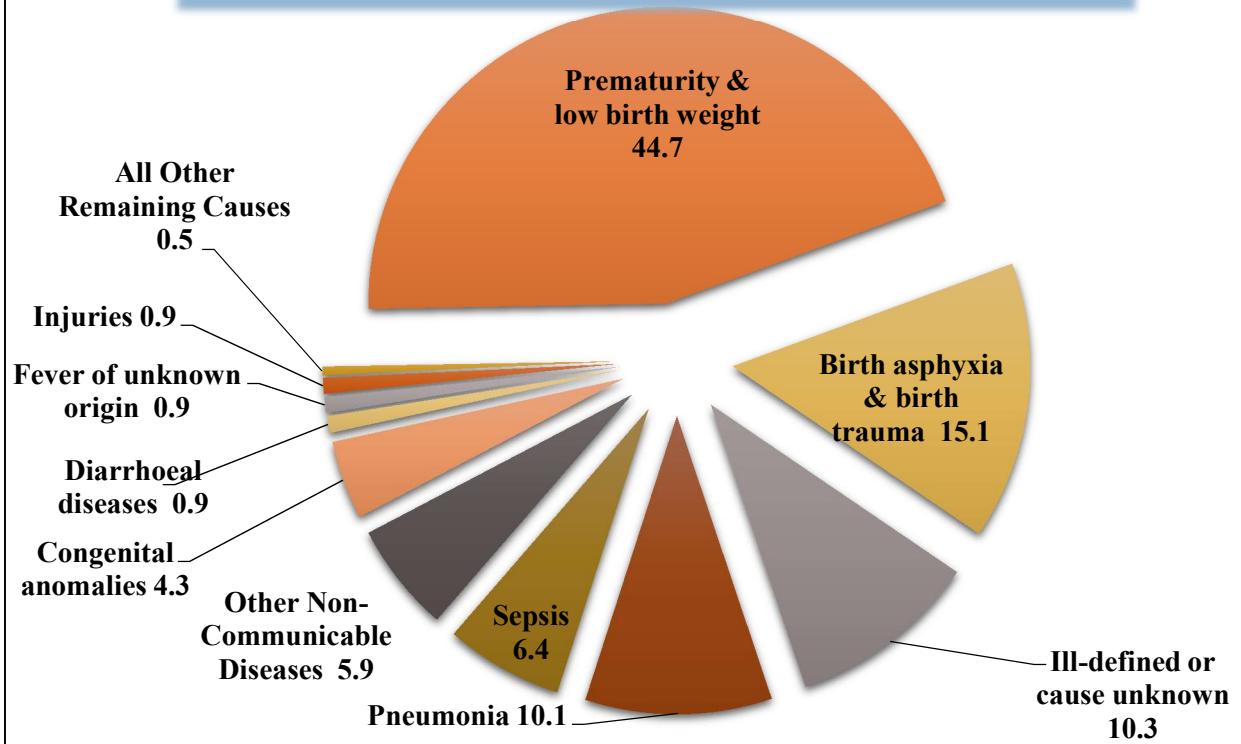
**3.2.1** Table 3.1A represents the top 10 causes of deaths in the country for age groups below 29 days in year 2020-2022. Overall, this age group accounts for about 2.6 percentage proportion of the total deaths in the country comprising 2.5% of the total male deaths and 2.6% of the total female deaths. Prematurity & low birth weight has the highest share of 44.7 percent of total proportion of deaths, followed by Birth asphyxia & birth trauma (15.1%) in age group below 29 days. Chart 18 depicts Top 10 Causes of Deaths of Children below 29 days for India during 2020-2022.

**Table 3.1A: Top 10 Causes of Death for age group below 29 days  
in India: 2020-2022**

Rank	Cause of Death	% Proportion of death		
		Male	Female	Person
1	Prematurity & low birth weight	44.2	45.4	44.7
2	Birth asphyxia & birth trauma	16.0	13.9	15.1
3	Pneumonia	9.9	10.4	10.1
4	Sepsis	6.7	6.0	6.4
5	Other Non-Communicable Diseases	5.4	6.8	5.9
6	Congenital anomalies	4.3	4.2	4.3
7	Diarrhoeal diseases	1.0	0.8	0.9
8	Fever of unknown origin	1.0	0.7	0.9
9	Injuries	1.0	0.7	0.9
10	Ill-defined or cause unknown	10.1	10.6	10.3
	All Other Remaining Causes	0.4	0.7	0.5

Note: Ill-defined or cause unknown constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 18 - Major Cause of Deaths of Childrens below 29 days,  
India, 2020-2022 (in %)**



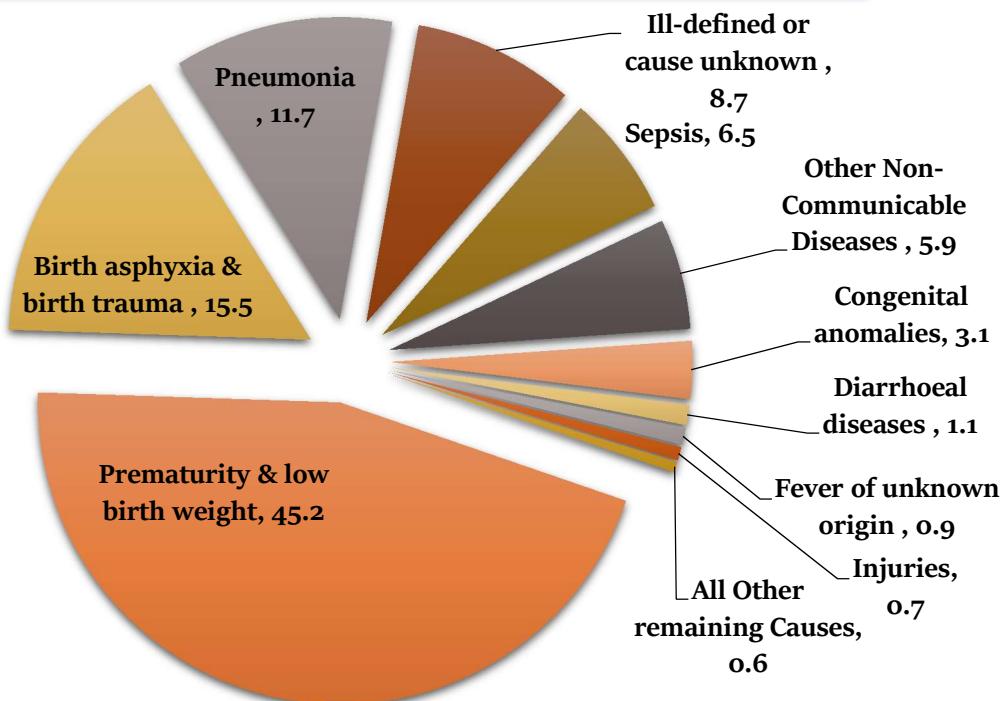
**3.2.2** Table 3.1B shows the variation in causes of neonatal mortality as a proportion of total neonatal deaths in EAG states & Assam and Other states. The leading ten causes of deaths in both the category of states are same, but their relative ranking varies. Prematurity & low birth weight and Birth asphyxia & birth trauma which are the first two causes of death in both the groups, together accounts for about 60 percent proportion of deaths in EAG states & Assam and about 58 percent proportion of deaths in the Other states. The mortality due to congenital anomalies (6.3%) is almost twice times in Other States as compared to EAG states & Assam (3.1%). Top 10 Causes of deaths during 2020-2022 for children below 29 days in EAG States & Assam and Other States is given in Chart 19 and 20 respectively.

**Table 3.1B: Top 10 Causes of Death for age group below 29 days  
in EAG States & Assam and Other States: 2020-2022**

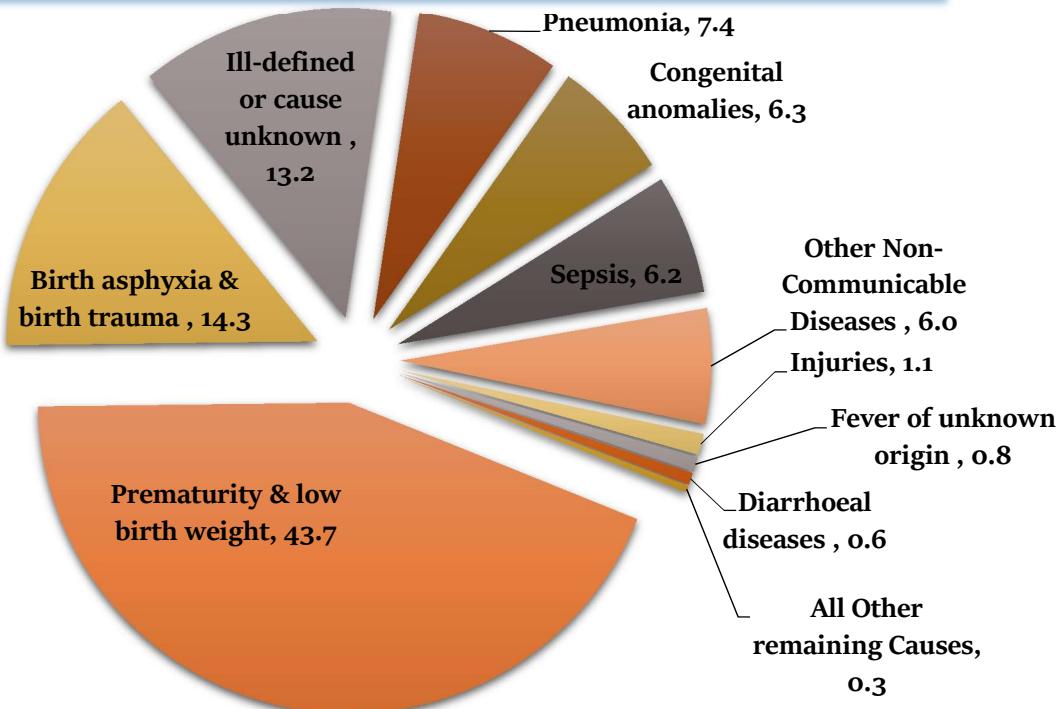
Rank	Causes of Death	% Proportion of Deaths		
		Male	Female	Person
<b>EAG and Assam</b>				
<b>1</b>	Prematurity & low birth weight	44.0	47.0	45.2
<b>2</b>	Birth asphyxia & birth trauma	16.8	13.9	15.5
<b>3</b>	Pneumonia	11.5	12.0	11.7
<b>4</b>	Sepsis	6.9	6.0	6.5
<b>5</b>	Other Non-Communicable Diseases	5.5	6.6	5.9
<b>6</b>	Congenital anomalies	3.1	3.0	3.1
<b>7</b>	Diarrhoeal diseases	1.0	1.1	1.1
<b>8</b>	Fever of unknown origin	1.0	0.9	0.9
<b>9</b>	Injuries	0.8	0.6	0.7
<b>10</b>	Ill-defined or cause unknown	9.0	8.2	8.7
	All Other remaining Causes	0.3	0.9	0.6
<b>Other States</b>				
<b>1</b>	Prematurity & low birth weight	44.5	42.6	43.7
<b>2</b>	Birth asphyxia & birth trauma	14.7	13.9	14.3
<b>3</b>	Pneumonia	7.2	7.8	7.4
<b>4</b>	Congenital anomalies	6.4	6.1	6.3
<b>5</b>	Sepsis	6.4	5.9	6.2
<b>6</b>	Other Non-Communicable Diseases	5.2	7.1	6.0
<b>7</b>	Injuries	1.2	1.0	1.1
<b>8</b>	Fever of unknown origin	1.1	0.3	0.8
<b>9</b>	Diarrhoeal diseases	0.9	0.2	0.6
<b>10</b>	Ill-defined or cause unknown	12.1	14.9	13.2
	All Other remaining Causes	0.4	0.3	0.3

Note: Ill-defined or cause unknown constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 19 - Top 10 Causes of Deaths for Childrens below 29 days in EAG States & Assam, 2020-2022**



**Chart 20 - Top 10 causes of deaths for childrens below 29 days in Other States, 2020-2022**



**3.2.3** Table 3.1C represents top ten causes of death in the country by rural and urban area for age group below 29 days. Prematurity & low birth weight and Birth asphyxia & birth trauma are the

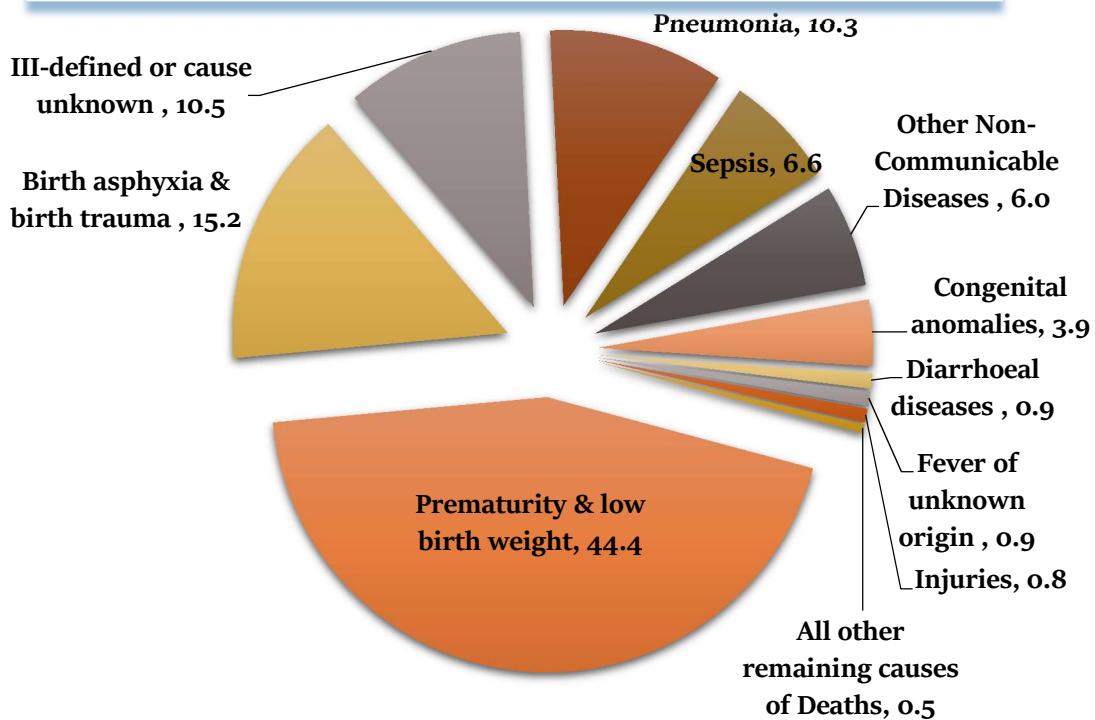
top leading causes of death for age group below 29 days both in rural and urban area. The leading ten causes of death are common in rural as well as urban areas, with striking overall similarity in patterns with their relative varying ranking. In rural area, deaths due to prematurity & low birth weight is number one cause of deaths of children below 29 days and found to be similarly affecting male (43.7%) as compared to female (45.2%). In urban areas, deaths due to Prematurity & low birth weight were found to be marginally greater higher in males (46.5%) than females (46.2%). Share of deaths due to diarrhoeal diseases and Fever of unknown origin is higher in male as compared to female for both rural and urban areas. Top 10 Causes of Deaths during 2020-2022 for children below 29 days in Rural & Urban Areas is given in Chart 21 and 22 respectively.

**Table 3.1C: Top 10 Causes of Death for age group below 29 days in Rural & Urban Areas: 2020-2022**

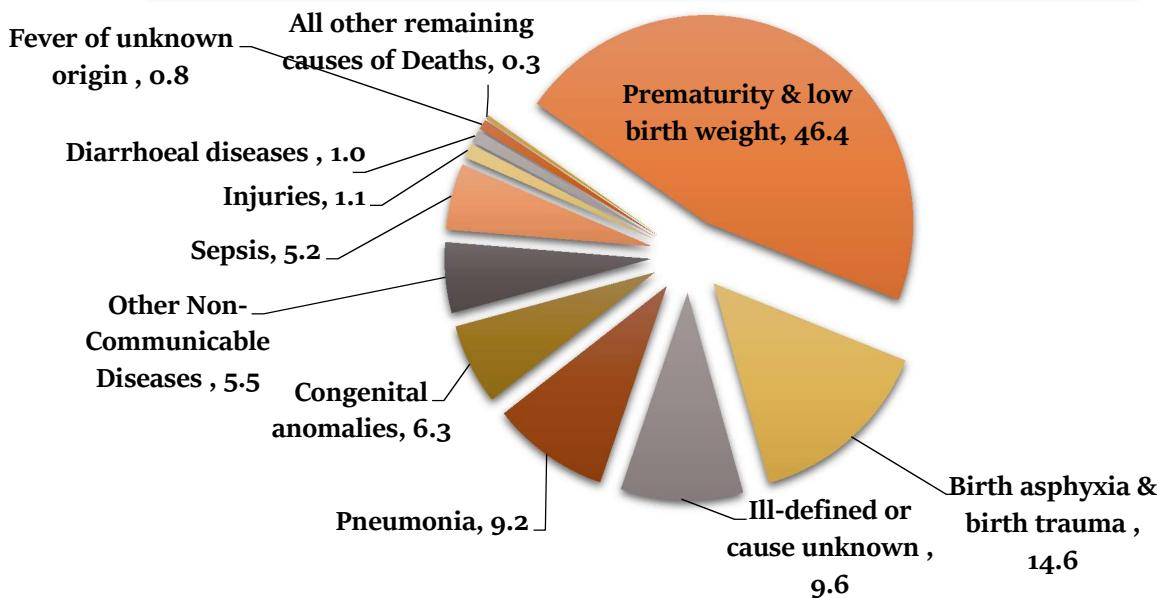
Rank	Causes of deaths	% Proportion of death		
		Male	Female	Person
<b>Rural</b>				
1	Prematurity & low birth weight	43.7	45.2	44.4
2	Birth asphyxia & birth trauma	16.1	14.0	15.2
3	Pneumonia	10.5	10.1	10.3
4	Sepsis	6.9	6.3	6.6
5	Other Non-Communicable Diseases	5.5	6.8	6.0
6	Congenital anomalies	3.8	4.1	3.9
7	Diarrhoeal diseases	1.0	0.8	0.9
8	Fever of unknown origin	1.0	0.7	0.9
9	Injuries	0.8	0.8	0.8
10	Ill-defined or cause unknown	10.4	10.6	10.5
	All other remaining causes of Deaths	0.4	0.6	0.5
<b>Urban</b>				
1	Prematurity & low birth weight	46.5	46.2	46.4
2	Birth asphyxia & birth trauma	15.7	13.1	14.6
3	Pneumonia	7.0	12.3	9.2
4	Congenital anomalies	7.6	4.6	6.3
5	Other Non-Communicable Diseases	4.8	6.5	5.5
6	Sepsis	5.9	4.2	5.2
7	Injuries	1.7	0.4	1.1
8	Diarrhoeal diseases	1.1	0.8	1.0
9	Fever of unknown origin	1.1	0.4	0.8
10	Ill-defined or cause unknown	8.7	10.8	9.6
	All other remaining causes of Deaths	0.0	0.8	0.3

Note: Ill-defined or cause unknown constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 21 - Top 10 causes of death in Rural area for age group below 29 days, 2020-2022 (in %)**



**Chart 22 - Top 10 causes of death in Urban area for age group below 29 days, 2020-22 (in %)**



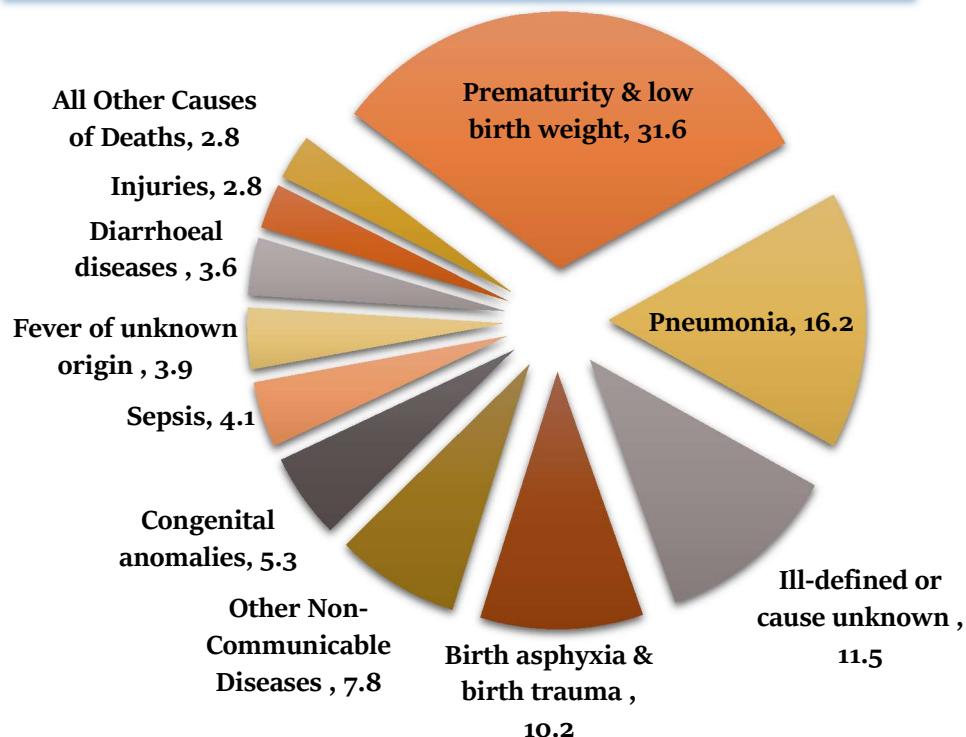
**3.3.1** Table 3.2A shows the top 10 causes of death for infants during the period 2020-2022. Prematurity & low birth weight (31.6%), pneumonia (16.2%), birth asphyxia & birth trauma (10.2%), and other non – communicable disease (7.8%) are the main causes of death among infants and account for more than 65 percentage proportion of deaths in Infants. Top 10 Causes of Deaths during 2020-2022 for Infants is given in Chart 23.

**Table 3.2A: Top 10 Causes of Death for age group below 1 year in India: 2020-2022**

Rank	Causes of Death	% Proportions of Deaths		
		Male	Female	Persons
1	Prematurity & low birth weight	31.4	32.0	31.6
2	Pneumonia	16.1	16.4	16.2
3	Birth asphyxia & birth trauma	11.0	9.2	10.2
4	Other Non-Communicable Diseases	7.6	8.1	7.8
5	Congenital anomalies	5.7	4.9	5.3
6	Sepsis	4.4	3.8	4.1
7	Fever of unknown origin	3.3	4.5	3.9
8	Diarrhoeal diseases	3.4	3.9	3.6
9	Injuries	3.1	2.5	2.8
10	Ill-defined or cause unknown	11.7	11.2	11.5
	All Other Causes of Deaths	2.3	3.6	2.8

Note: Ill-defined or cause unknown constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 23 - Distribution of % proportion of deaths for age group below 1 year in India: 2020-2022**



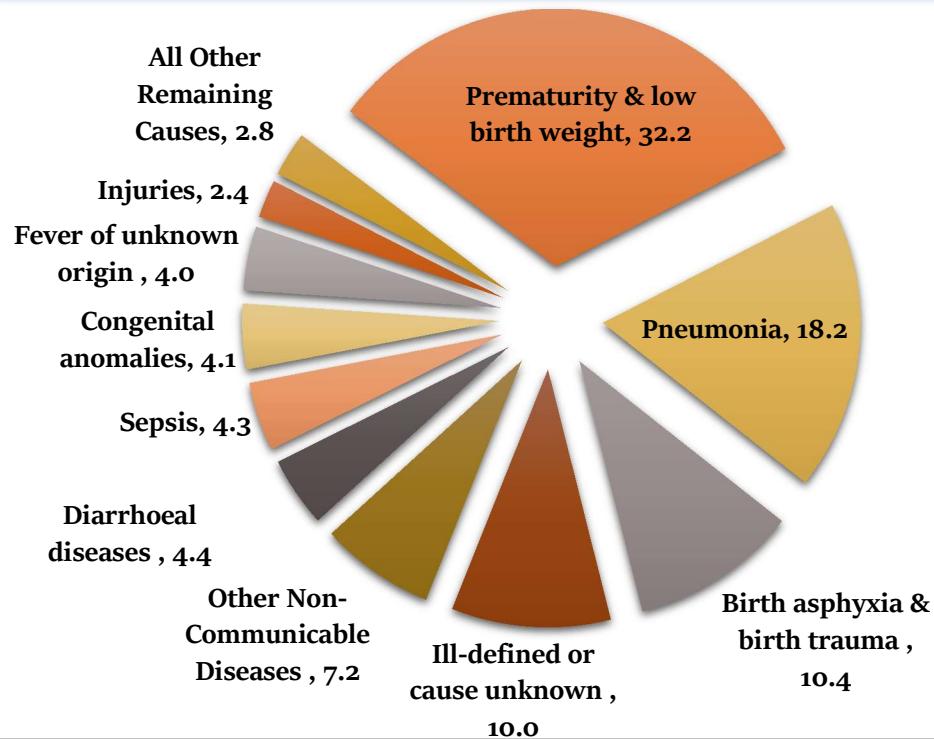
**3.3.2** Table 3.2B shows the variation in causes of infant mortality (age below 1 year) as a proportion of total infant deaths in EAG states & Assam and Other states. Infant deaths accounts for about 7.2% proportion of the total deaths in EAG states & Assam and 2.4% proportion in the other states. Proportion of death from Prematurity & low birth weight being the top cause of death, accounts for 32.2% in EAG states & Assam as compared to 30.7% in Other States. Mortality due to diarrhoeal diseases (4.4%) is higher in proportion in EAG states & Assam as compared to Other States (2.4%). Congenital anomalies cause more deaths in the Other States (7.3%) vis-a-vis those in the EAG states and Assam (4.1%). Contribution in female deaths (14.6%) due to pneumonia is higher in Other States than male deaths (11.9%). The deaths due to birth asphyxia & birth trauma are more pre-dominant among male than female in EAG States & Assam. Top 10 Causes of Deaths during 2020-2022 for children below 1 year for EAG States & Assam and for Other States are given in Chart 24 and Chart 25 respectively.

**Table 3.2B: Top 10 Causes of Death for age group below 1 year  
in EAG States & Assam and Other States: 2020-2022**

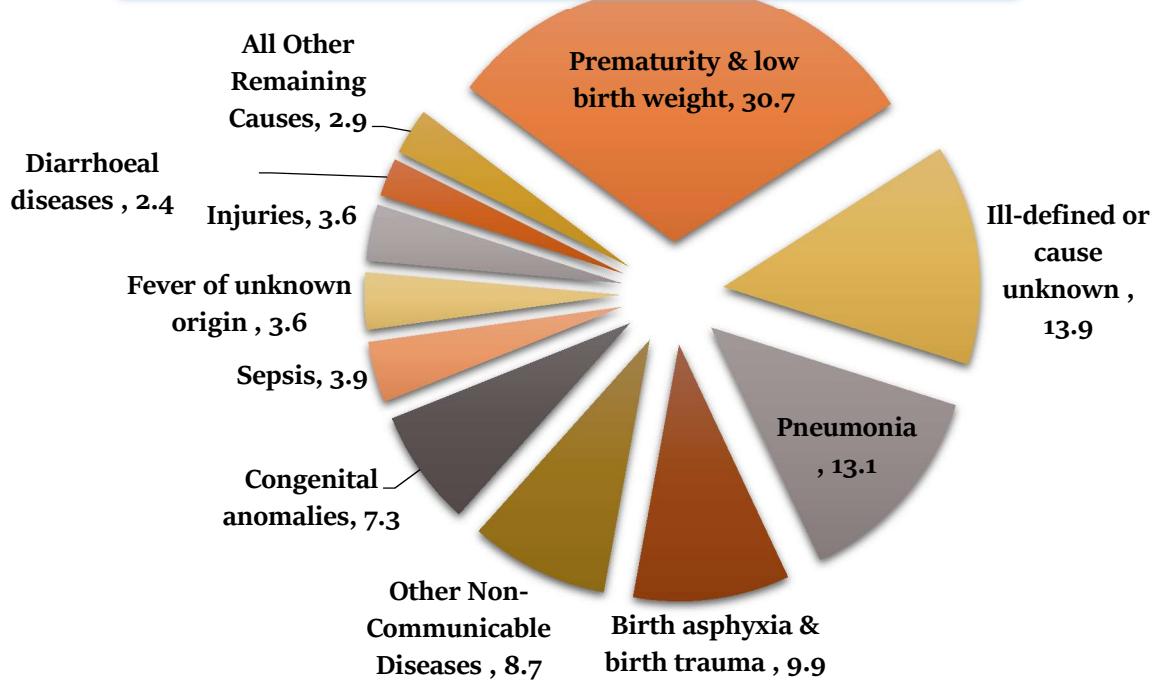
Cause of Death	% Proportion of death		
	Male	Female	Person
<b>EAG States and Assam</b>			
Prematurity & low birth weight	31.1	33.7	32.2
Pneumonia	18.6	17.5	18.2
Birth asphyxia & birth trauma	11.2	9.4	10.4
Other Non-Communicable Diseases	7.0	7.5	7.2
Diarrhoeal diseases	4.3	4.6	4.4
Sepsis	4.6	3.9	4.3
Congenital anomalies	4.3	3.9	4.1
Fever of unknown origin	3.5	4.7	4.0
Injuries	2.5	2.2	2.4
Ill-defined or cause unknown	10.7	9.1	10.0
All Other Remaining Causes	2.2	3.6	2.8
<b>Other States</b>			
Prematurity & low birth weight	31.9	29.2	30.7
Pneumonia	11.9	14.6	13.1
Birth asphyxia & birth trauma	10.5	9.0	9.9
Other Non-Communicable Diseases	8.5	9.0	8.7
Congenital anomalies	8.0	6.5	7.3
Sepsis	4.2	3.5	3.9
Fever of unknown origin	3.0	4.4	3.6
Injuries	4.0	3.0	3.6
Diarrhoeal diseases	2.0	2.9	2.4
Ill-defined or cause unknown	13.5	14.4	13.9
All Other Remaining Causes	2.4	3.6	2.9

Note: Ill-defined or cause unknown constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 24 - Top 10 causes of death in EAG & Assam States for age group below 1 year, 2020-2022 (in %)**



**Chart 25 - Top 10 causes of death in Other States for age group below 1 year, 2020-2022 (in %)**



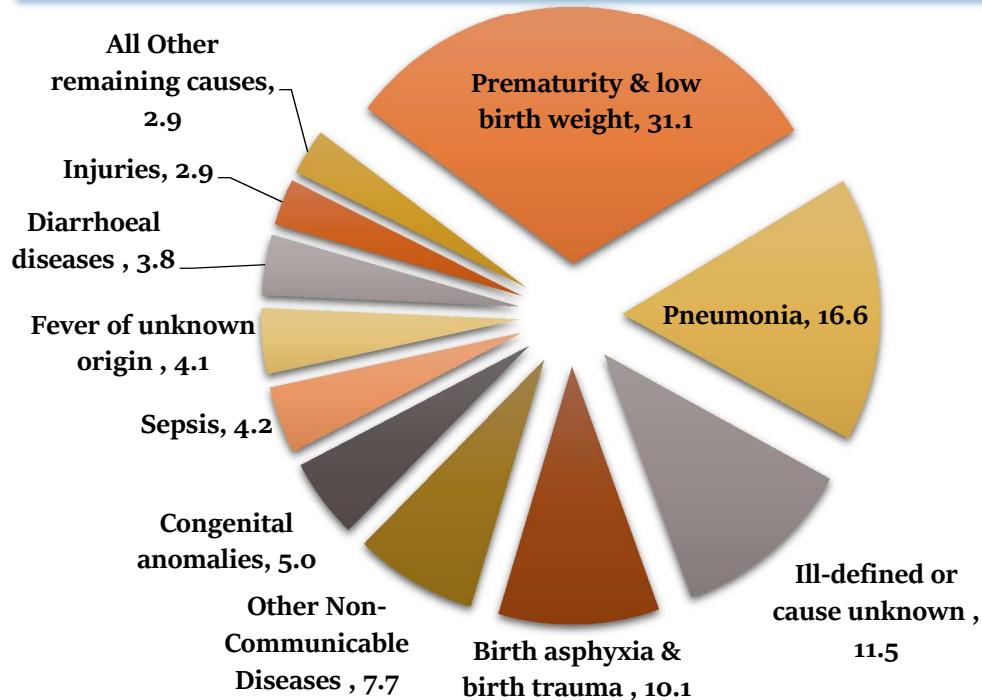
**3.3.3** Table 3.2C shows the major causes of death for age group below 1 year by rural and urban areas in the country. About 4.4 percentage proportion of the total deaths in rural areas and 2.6% proportion of deaths in the urban areas pertain to infants. The top causes of death are common in rural as well as urban areas, with their relative varying ranking. Prematurity & low birth weight, pneumonia, birth asphyxia & birth trauma, other non-communicable diseases and congenital anomalies clubbed together account for more than 70 percent of infant deaths in rural and urban areas. The incidence of female deaths (5.7%) due to congenital anomalies in urban areas is higher as compared to rural areas (4.8%). Variation is observed between male and female deaths due to prematurity & low birth weight in both rural and urban areas. The top 10 causes of deaths during 2020-2022 for children below 1 year for urban and rural areas are given in Chart 26 and Chart 27 respectively.

**Table 3.2C: Top 10 Causes of Death for age group below 1 year  
in Rural & Urban areas: 2020-2022**

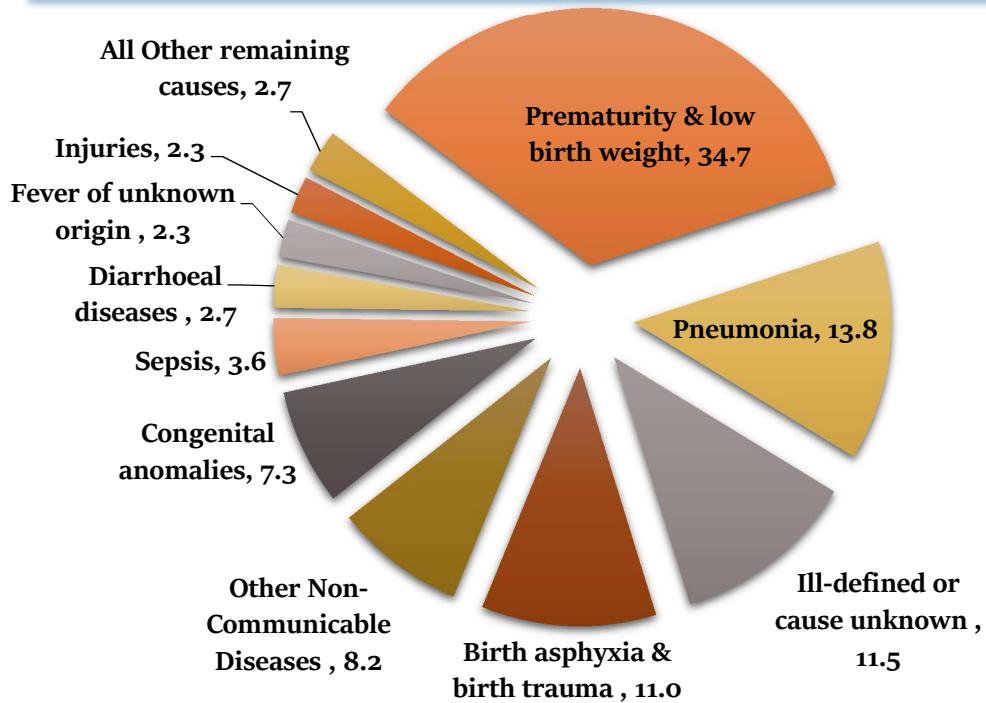
Cause of Death	% Proportion of death		
	Male	Female	Person
<b>Rural</b>			
Prematurity & low birth weight	30.7	31.6	31.1
Pneumonia	17.0	16.2	16.6
Birth asphyxia & birth trauma	10.8	9.1	10.1
Other Non-Communicable Diseases	7.6	7.9	7.7
Congenital anomalies	5.2	4.8	5.0
Sepsis	4.5	3.9	4.2
Fever of unknown origin	3.6	4.8	4.1
Diarrhoeal diseases	3.5	4.1	3.8
Injuries	3.1	2.7	2.9
Ill-defined or cause unknown	11.8	11.2	11.5
All Other remaining causes	2.2	3.7	2.9
<b>Urban</b>			
Prematurity & low birth weight	35.2	33.9	34.7
Pneumonia	10.9	17.5	13.8
Birth asphyxia & birth trauma	11.7	10.0	11.0
Other Non-Communicable Diseases	7.5	9.0	8.2
Congenital anomalies	8.5	5.7	7.3
Sepsis	4.2	2.8	3.6
Diarrhoeal diseases	2.8	2.6	2.7
Fever of unknown origin	1.8	3.1	2.3
Injuries	3.0	1.5	2.3
Ill-defined or cause unknown	11.7	11.3	11.5
All Other remaining causes	2.8	2.6	2.7

Note: Ill-defined or cause unknown constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 26 - Top 10 causes of death in Rural area for age group below 1 year, 2020-2022 (in %)**



**Chart 27 - Top 10 causes of death in Urban area for age group below 1 year, 2020-2022 (in %)**



3.4.1 Table 3.3A presents the top ten causes of death for child mortality at ages 1-4 years during the period 2020-2022. Injuries is the leading cause of death accounting for 21.2 percentage

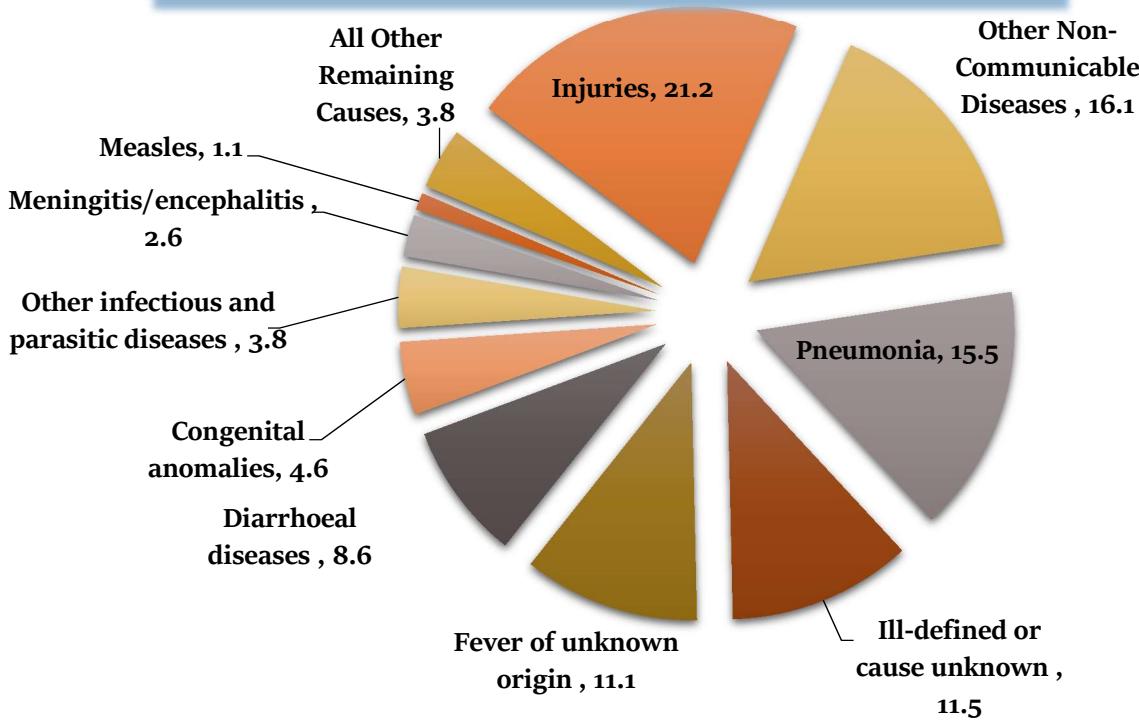
proportion of deaths in age group 1-4 years followed by other Non-communicable diseases (16.1%). Proportion of female deaths (5.6%) due to congenital anomalies is higher than male deaths (3.7%). The incidence of deaths due to Meningitis/encephalitis in female (3.0%) is higher than of males (2.3%). The top 10 causes of deaths during 2020-2022 for children between age group 1-4 years is given in Chart 28.

**Table 3.3A: Top 10 Causes of Death for age group 1- 4 years in India: 2020-2022**

Cause of Death	% Proportion of death		
	Male	Female	Person
Injuries	21.7	20.6	21.2
Other Non-Communicable Diseases	17.1	15.0	16.1
Pneumonia	14.6	16.6	15.5
Fever of unknown origin	11.7	10.3	11.1
Diarrhoeal diseases	9.4	7.6	8.6
Congenital anomalies	3.7	5.6	4.6
Other infectious and parasitic diseases	4.0	3.7	3.8
Meningitis/encephalitis	2.3	3.0	2.6
Measles	0.6	1.7	1.1
Ill-defined or cause unknown	10.3	13.0	11.5
All Other Remaining Causes	4.6	3.0	3.8

Note: Ill-defined or cause unknown constitutes instances where could not be properly diagnosed so has been categorised last among the top 10 leading cause group

**Chart 28 - Distribution of % proportion of deaths for age group 1-4 year in India, 2020-2022 (in %)**



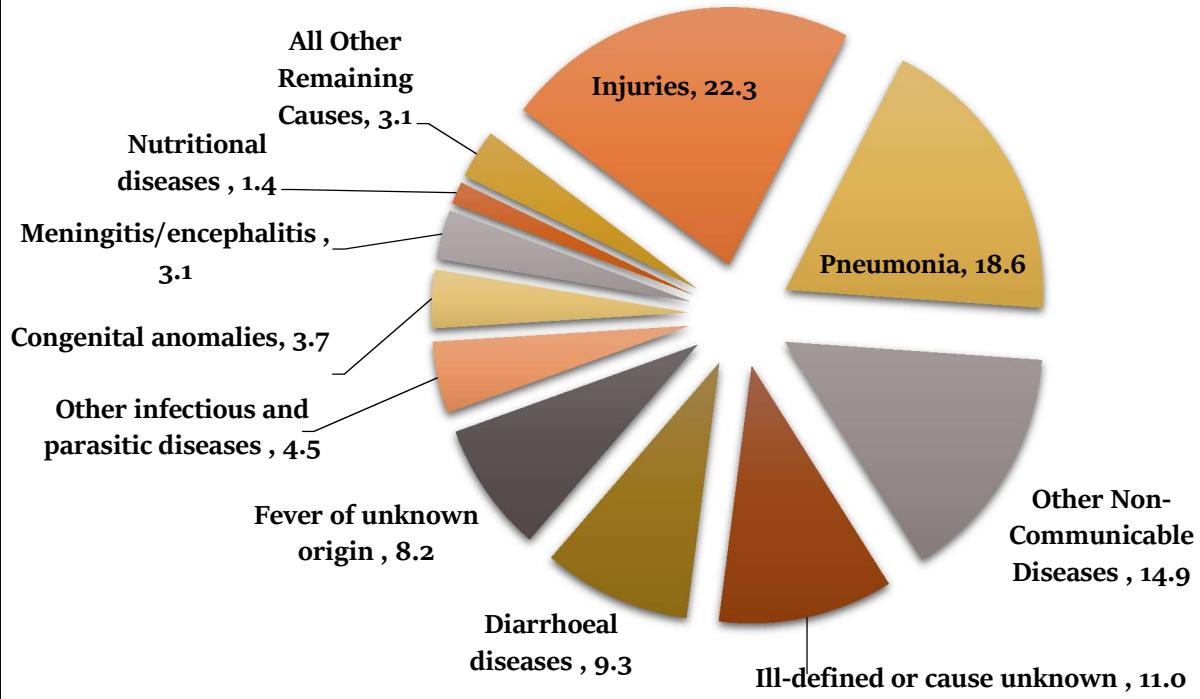
3.4.2 Table 3.3B shows the top 10 causes of child mortality at ages 1-4 years as a proportion of total deaths by EAG states & Assam and Other states. The leading causes of deaths remains the same in both the category of states except for nutritional diseases in EAG states & Assam Prematurity & low birth weight in Other States. Other than the mortality from other non-communicable diseases, which is significant in both the groups, pneumonia, diarrhoeal diseases and other infectious & parasitic diseases are more acutely prevalent in EAG states & Assam as compared to the Other States. The proportion of male deaths due to diarrhoeal diseases is higher than that in females in both the group of states. The proportion of female deaths (15.6%) due to other non-communicable diseases is more than that of male deaths (14.3%) in EAG States & Assam. The top 10 causes of deaths during 2020-2022 for children between age group 1-4 years for EAG States & Assam and Other States are given in Chart 29 and Chart 30, respectively.

**Table 3.3B: Top 10 Causes of Death for age group 1- 4 year  
in EAG states & Assam and Other states: 2020-2022**

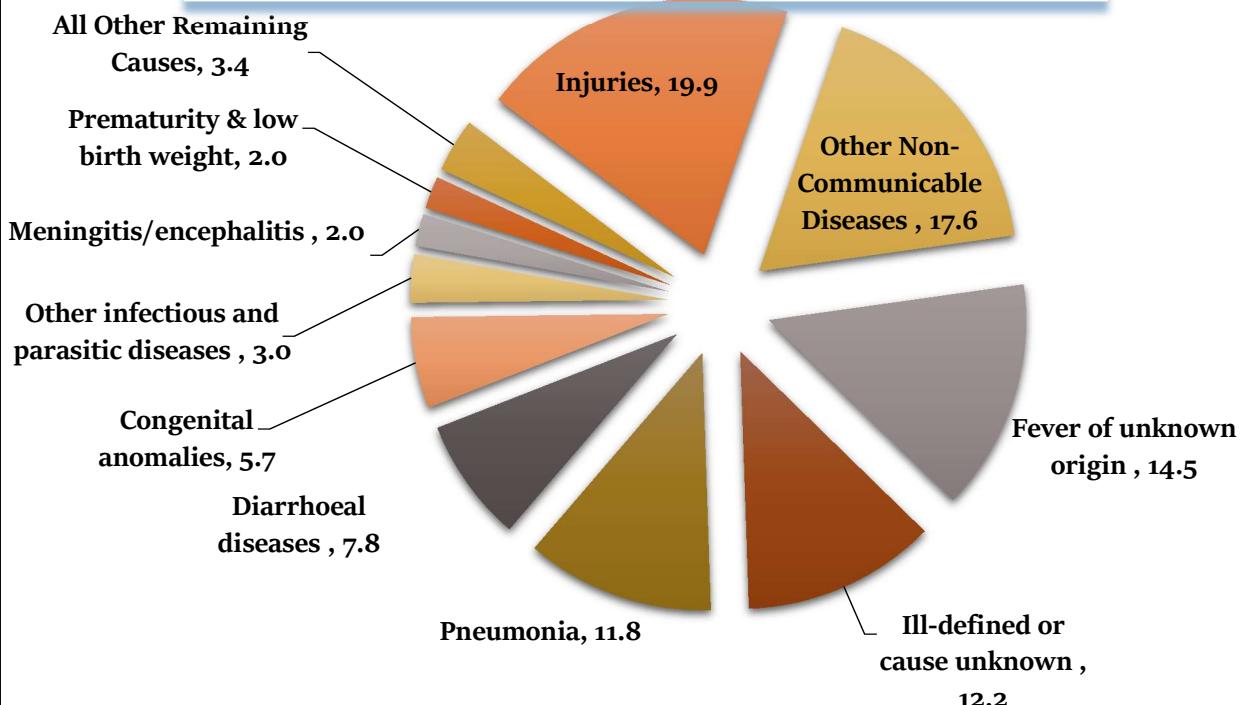
Cause of Death	% Proportion of death		
	Male	Female	Person
<b>EAG States and Assam</b>			
Injuries	22.5	22.0	22.3
Pneumonia	19.8	17.3	18.6
Other Non-Communicable Diseases	14.3	15.6	14.9
Diarrhoeal diseases	9.9	8.7	9.3
Fever of unknown origin	8.8	7.5	8.2
Other infectious and parasitic diseases	4.4	4.6	4.5
Congenital anomalies	3.8	3.5	3.7
Meningitis/encephalitis	2.2	4.0	3.1
Nutritional diseases	2.2	0.6	1.4
Ill-defined or cause unknown	9.3	12.7	11.0
All Other Remaining Causes	2.7	3.5	3.1
<b>Other States</b>			
Injuries	20.8	18.8	19.9
Other Non-Communicable Diseases	20.2	14.1	17.6
Fever of unknown origin	14.9	14.1	14.5
Pneumonia	8.9	15.6	11.8
Diarrhoeal diseases	8.9	6.3	7.8
Congenital anomalies	3.6	8.6	5.7
Other infectious and parasitic diseases	3.6	2.3	3.0
Meningitis/encephalitis	2.4	1.6	2.0
Prematurity & low birth weight	2.4	1.6	2.0
Ill-defined or cause unknown	11.3	13.3	12.2
All Other Remaining Causes	3.0	3.9	3.4

Note: Ill-defined or cause unknown constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 29 - Top 10 causes of death in EAG States & Assam for age group 1-4 year, 2020-2022 (in %)**



**Chart 30 - Top 10 causes of death in Other States for age group 1-4 year, 2020-2022 (in %)**



**3.4.3** Table 3.3C represents the top ten causes of death in age group 1-4 years by rural and urban areas in the country. About 0.5% proportion of the total deaths in rural areas and 0.3% in urban

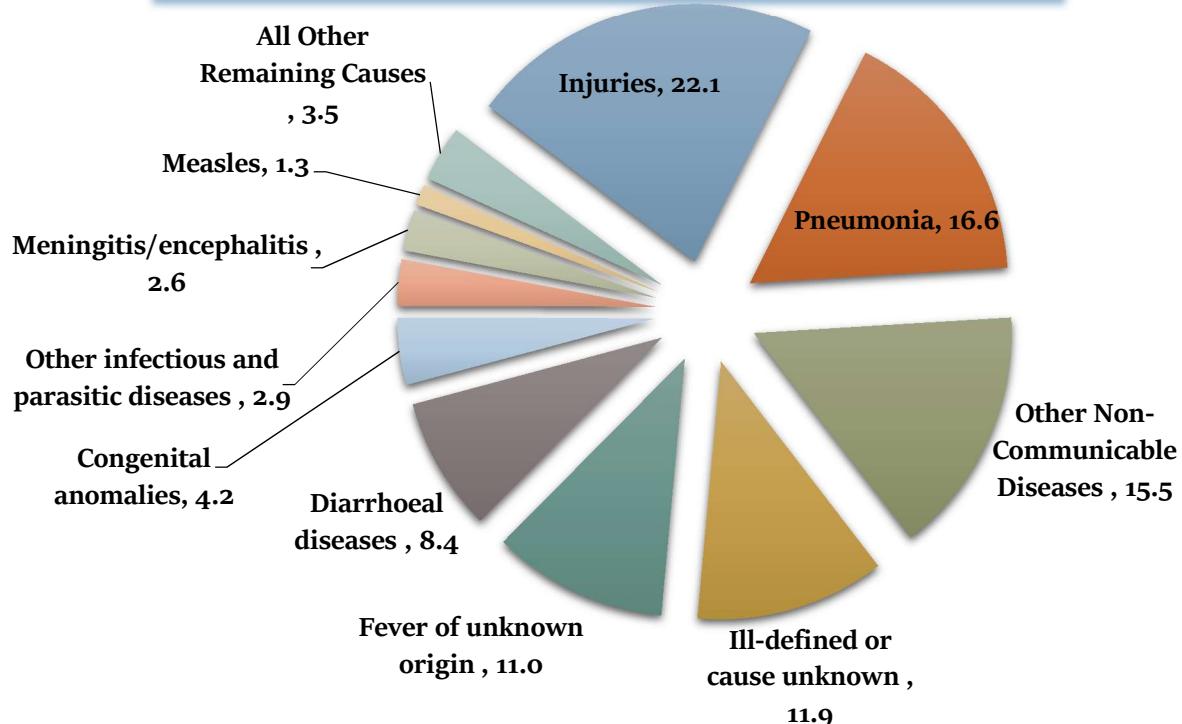
areas are of children in the age group 1-4. The leading causes of deaths remains the same in both Rural as well as Urban areas except for Measles in rural areas and Prematurity & low birth weight in urban areas. Share of deaths due to pneumonia in rural is 16.6% whereas, proportion of death in urban areas is 9.6%. Deaths due to pneumonia is more prevalent in females in both the groups. In urban area, female deaths (15.6%) due to pneumonia is more severe than male deaths (5.1%). The top 10 causes of deaths during 2020-2022 for children between age group 1-4 years for Urban and Rural areas are given in Chart 31 and Chart 32, respectively.

**Table 3.3C: Top 10 Causes of Death for age group 1- 4 years  
in Rural & Urban areas: 2020-2022**

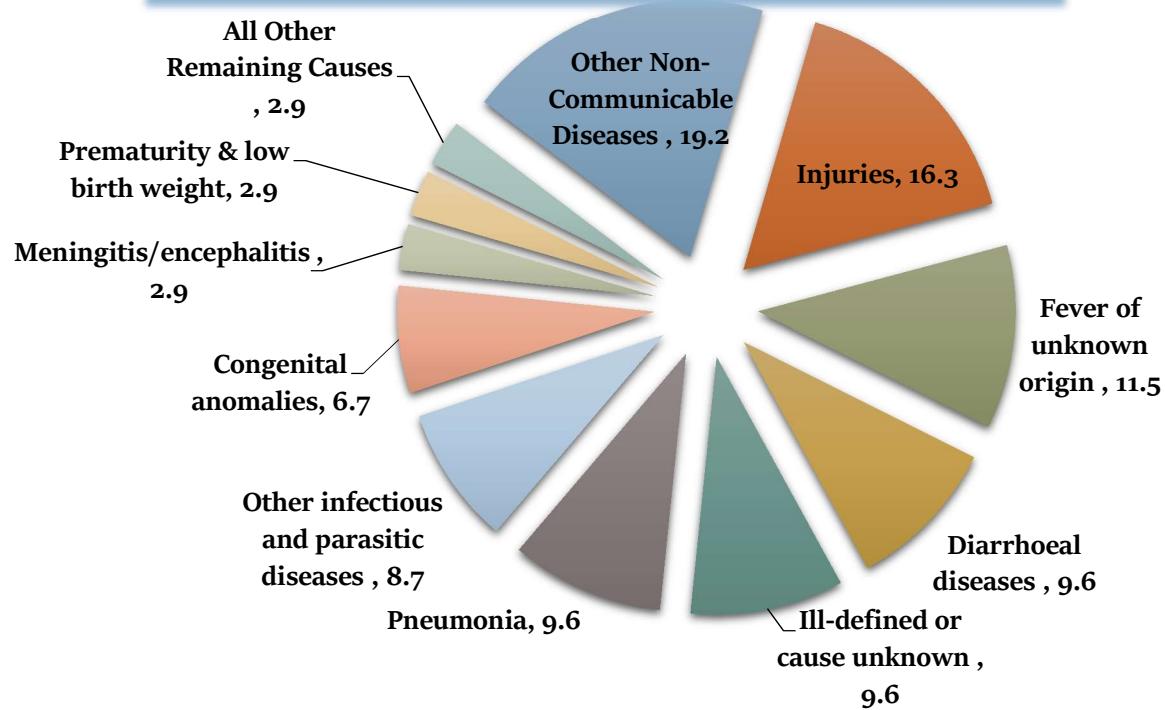
Cause of Death	% Proportion of death		
	Male	Female	Person
<b>Rural</b>			
Injuries	22.7	21.5	22.1
Pneumonia	16.5	16.8	16.6
Other Non-Communicable Diseases	16.2	14.8	15.5
Fever of unknown origin	12.4	9.4	11.0
Diarrhoeal diseases	8.9	7.8	8.4
Congenital anomalies	3.8	4.7	4.2
Other infectious and parasitic diseases	2.4	3.5	2.9
Meningitis/encephalitis	1.7	3.5	2.6
Measles	0.7	2.0	1.3
Ill-defined or cause unknown	10.7	13.3	11.9
All Other Remaining Causes	4.1	2.7	3.5
<b>Urban</b>			
Other Non-Communicable Diseases	22.0	15.6	19.2
Injuries	16.9	15.6	16.3
Fever of unknown origin	8.5	15.6	11.5
Diarrhoeal diseases	11.9	6.7	9.6
Pneumonia	5.1	15.6	9.6
Other infectious and parasitic diseases	11.9	4.4	8.7
Congenital anomalies	3.4	11.1	6.7
Meningitis/encephalitis	5.1	0.0	2.9
Prematurity & low birth weight	5.1	0.0	2.9
Ill-defined or cause unknown	8.5	11.1	9.6
All Other Remaining Causes	1.7	4.4	2.9

Note: Ill-defined or cause unknown constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 31 - Top 10 causes of death in Rural areas for age group 1-4 year, 2020-2022 (in %)**



**Chart 32 - Top 10 causes of death in Urban areas for age group 1-4 year, 2020-2022 (in %)**



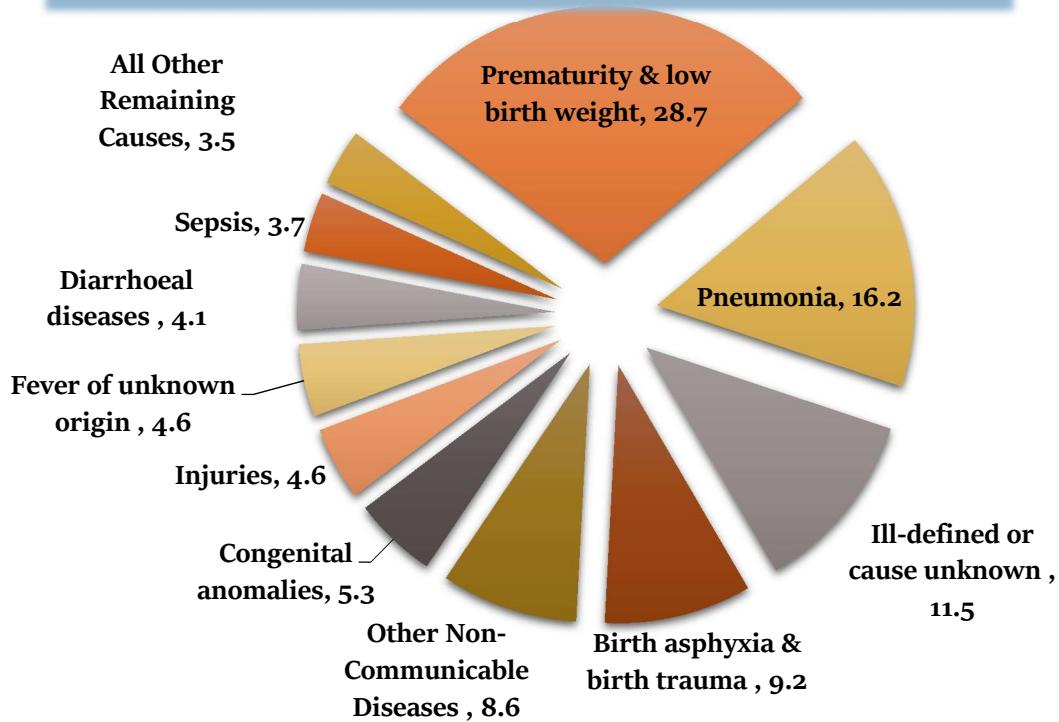
**3.5.1** Table 3.4A shows the top ten causes of deaths in age group 0-4 years. Nearly 4.4% proportion of total sample deaths in the country occurred among children in the age group 0-4 years. Prematurity & low birth weight is the predominant cause of deaths among this age group causing 28.7% proportion of deaths with slight difference of 0.2% point between male and female. Pneumonia which is second leading cause of death (16.2%) which is quite low in comparison to proportion of deaths due to prematurity and low birth weight (28.7%). Proportion of deaths of females (5.1%) due to fever of unknown origin is more than proportion of male deaths (4.1%). The top 10 causes of deaths during 2020-2022 for children between age group 0-4 years is given in Chart 33.

**Table 3.4A: Top 10 Causes of Death for age group 0-4 year  
in India: 2020-2022**

Cause of Death	% Proportion of death		
	Male	Female	Person
Prematurity & low birth weight	28.6	28.8	28.7
Pneumonia	16.0	16.4	16.2
Birth asphyxia & birth trauma	10.0	8.3	9.2
Other Non-Communicable Diseases	8.5	8.8	8.6
Congenital anomalies	5.5	5.0	5.3
Injuries	4.8	4.4	4.6
Fever of unknown origin	4.1	5.1	4.6
Diarrhoeal diseases	4.0	4.3	4.1
Sepsis	4.0	3.4	3.7
Ill-defined or cause unknown	11.6	11.4	11.5
All Other Remaining Causes	3.0	4.3	3.5

Note: Ill-defined or cause unknown constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 33 - Distribution of % proportion of deaths for age group 0-4 year in India, 2020-2022 (in %)**



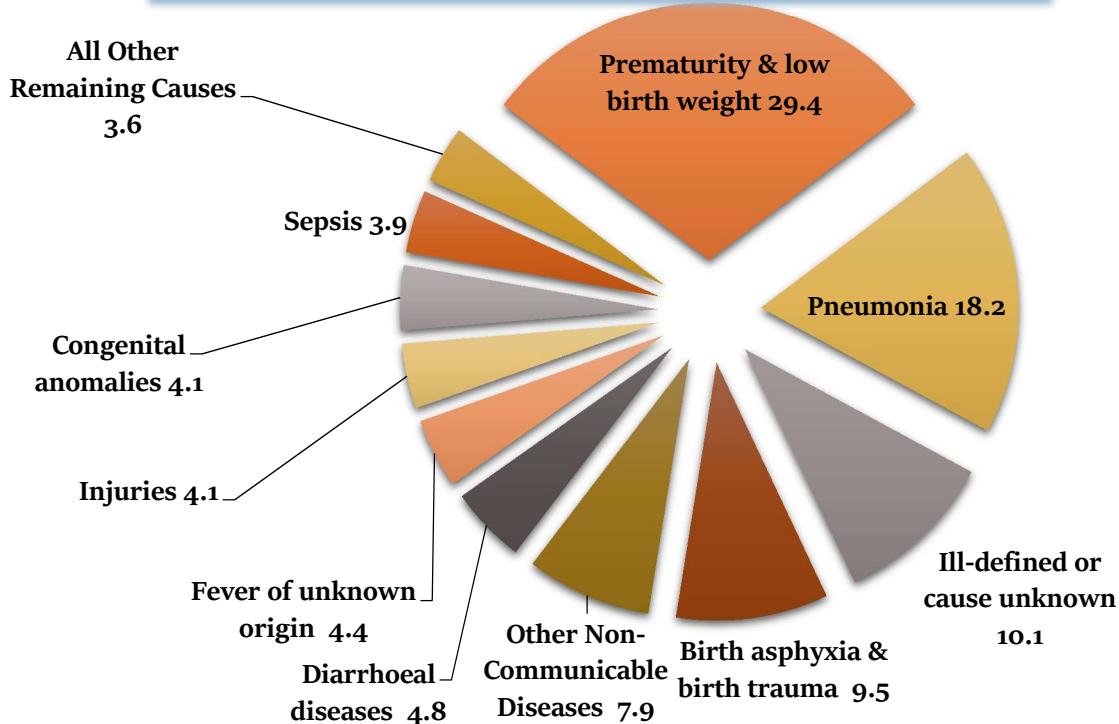
3.5.2 Table 3.4B shows the variation in causes of child mortality at ages 0-4 years as a proportion of deaths by EAG states & Assam and Other states. The share of this age group in the total deaths for the EAG states & Assam and Other states is 7.9% and 2.7% respectively. The leading cause of death remains the same in both the category. However, their relative ranking of causes of deaths varies. Other than the mortality from prematurity & low birth weight, which is significant in both groups, pneumonia and birth asphyxia & birth trauma are more acutely prevalent in EAG states & Assam than in the Other States. Proportion of female deaths due to prematurity & low birth weight is more than that of proportion of deaths of males in EAG states & Assam. The proportion of female deaths due to fever of unknown origin is higher than male deaths in both EAG states & Assam as well as Other states. The top 10 causes of deaths during 2020-2022 for children between age group 0-4 years in EAG States & Assam and Other States are given in Chart 34 and Chart 35, respectively.

**Table 3.4B: Top 10 Causes of Death for age group 0-4 year  
in EAG States & Assam and Other States: 2020-2022**

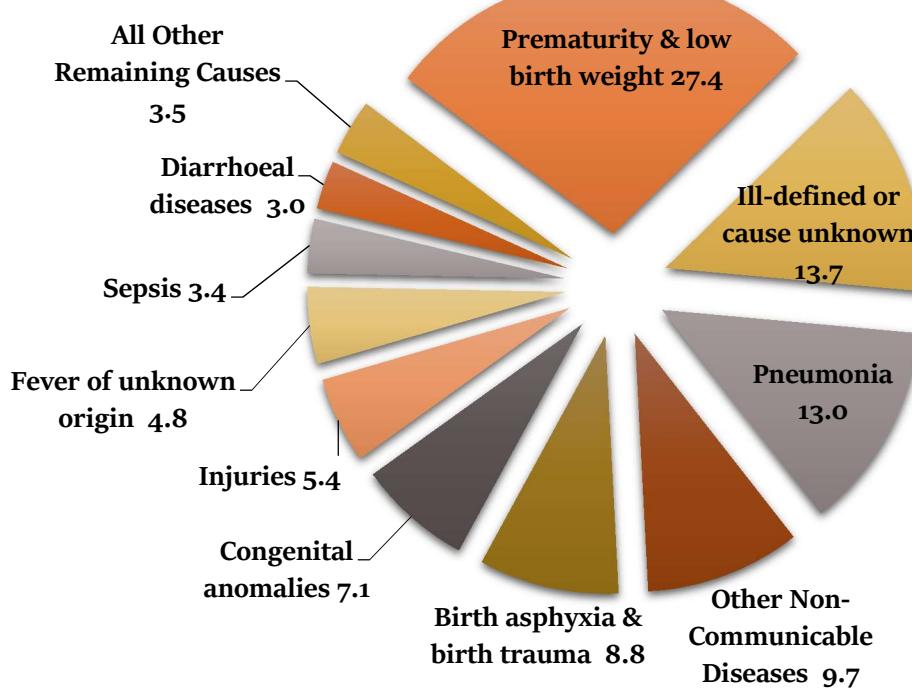
Cause of Death	% Proportion of death		
	Male	Female	Person
<b>EAG States and Assam</b>			
Prematurity & low birth weight	28.6	30.5	29.4
Pneumonia	18.7	17.5	18.2
Birth asphyxia & birth trauma	10.3	8.5	9.5
Other Non-Communicable Diseases	7.6	8.3	7.9
Diarrhoeal diseases	4.7	5.0	4.8
Fever of unknown origin	3.9	5.0	4.4
Injuries	4.1	4.1	4.1
Congenital anomalies	4.2	3.8	4.1
Sepsis	4.2	3.5	3.9
Ill-defined or cause unknown	10.6	9.5	10.1
All Other Remaining Causes	3.0	4.4	3.6
<b>Other States</b>			
Prematurity & low birth weight	28.5	26.1	27.4
Pneumonia	11.6	14.7	13.0
Other Non-Communicable Diseases	9.9	9.5	9.7
Birth asphyxia & birth trauma	9.4	8.0	8.8
Congenital anomalies	7.5	6.7	7.1
Injuries	5.9	4.7	5.4
Fever of unknown origin	4.4	5.4	4.8
Sepsis	3.7	3.1	3.4
Diarrhoeal diseases	2.8	3.4	3.0
Ill-defined or cause unknown	13.3	14.3	13.7
All Other Remaining Causes	3.1	4.0	3.5

Note: Ill-defined or cause unknown constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 34 - Top 10 causes of death in EAG States & Assam for age group 0-4 year, 2020-2022 (in %)**



**Chart 35 - Top 10 causes of death in Other States for age group 0-4 year, 2020-2022 (in %)**



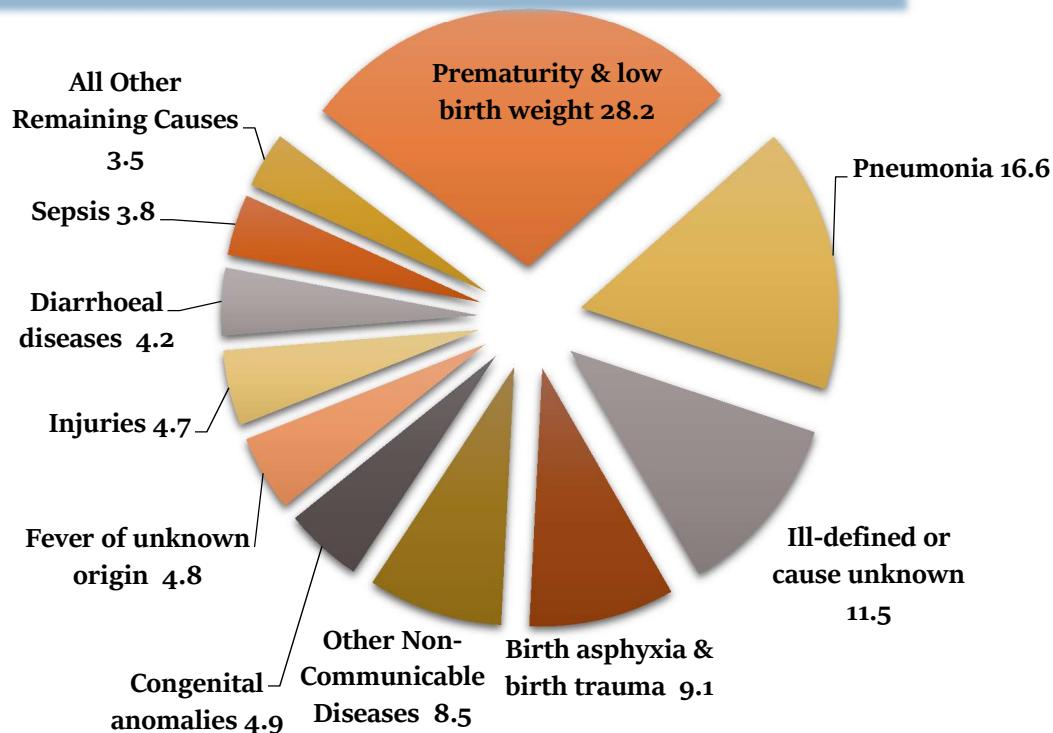
**3.5.3** Table 3.4C shows the top ten causes of death at ages 0-4 years by rural and urban areas in the country. About 4.9% proportion of total sample deaths in the rural areas and 2.9% in the urban areas are of children in the age group 0 to 4 years. The overall pattern of leading causes of death is broadly similar in both Rural areas and Urban areas. The incidence of deaths due to fever of unknown origin and other non-communicable diseases is more prevalent in female than male in both rural and urban areas. Whereas, reverse scenario can be observed in case of Birth asphyxia & birth trauma, congenital anomalies, sepsis and injuries. Top 10 Causes of Deaths during 2020-2022 for children between age group 0-4 years in Urban and Rural areas are given in Chart 36 and Chart 37, respectively.

**Table 3.4C: Top 10 Causes of Death for age group 0-4 year  
in Rural & Urban Areas: 2020-2022**

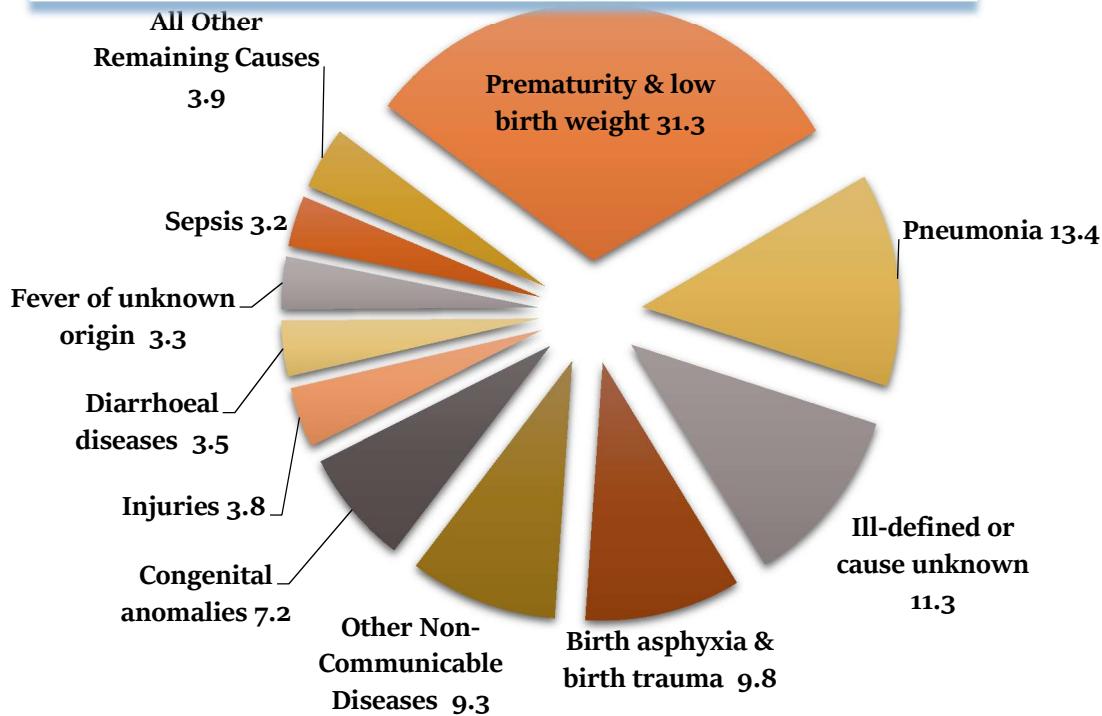
Cause of Death	% Proportion of deaths		
	Male	Female	Person
<b>Rural</b>			
Prematurity & low birth weight	28.0	28.5	28.2
Pneumonia	17.0	16.2	16.6
Birth asphyxia & birth trauma	9.9	8.2	9.1
Other Non-Communicable Diseases	8.4	8.6	8.5
Congenital anomalies	5.1	4.8	4.9
Fever of unknown origin	4.4	5.3	4.8
Injuries	4.9	4.6	4.7
Diarrhoeal diseases	4.0	4.5	4.2
Sepsis	4.1	3.5	3.8
Ill-defined or cause unknown	11.7	11.4	11.5
All Other Remaining Causes	2.8	4.4	3.5
<b>Urban</b>			
Prematurity & low birth weight	32.0	30.3	31.3
Pneumonia	10.4	17.2	13.4
Birth asphyxia & birth trauma	10.4	9.0	9.8
Other Non-Communicable Diseases	9.0	9.7	9.3
Congenital anomalies	8.0	6.2	7.2
Injuries	4.4	3.0	3.8
Diarrhoeal diseases	3.7	3.2	3.5
Fever of unknown origin	2.5	4.4	3.3
Sepsis	3.7	2.5	3.2
Ill-defined or cause unknown	11.3	11.3	11.3
All Other Remaining Causes	4.4	3.2	3.9

Note: Ill-defined or cause unknown constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 36 - Top 10 causes of death in Rural areas for age group 0-4 year, 2020-2022 (in %)**



**Chart 37 - Top 10 causes of death in Urban areas for age group 0-4 year, 2020-2022 (in %)**

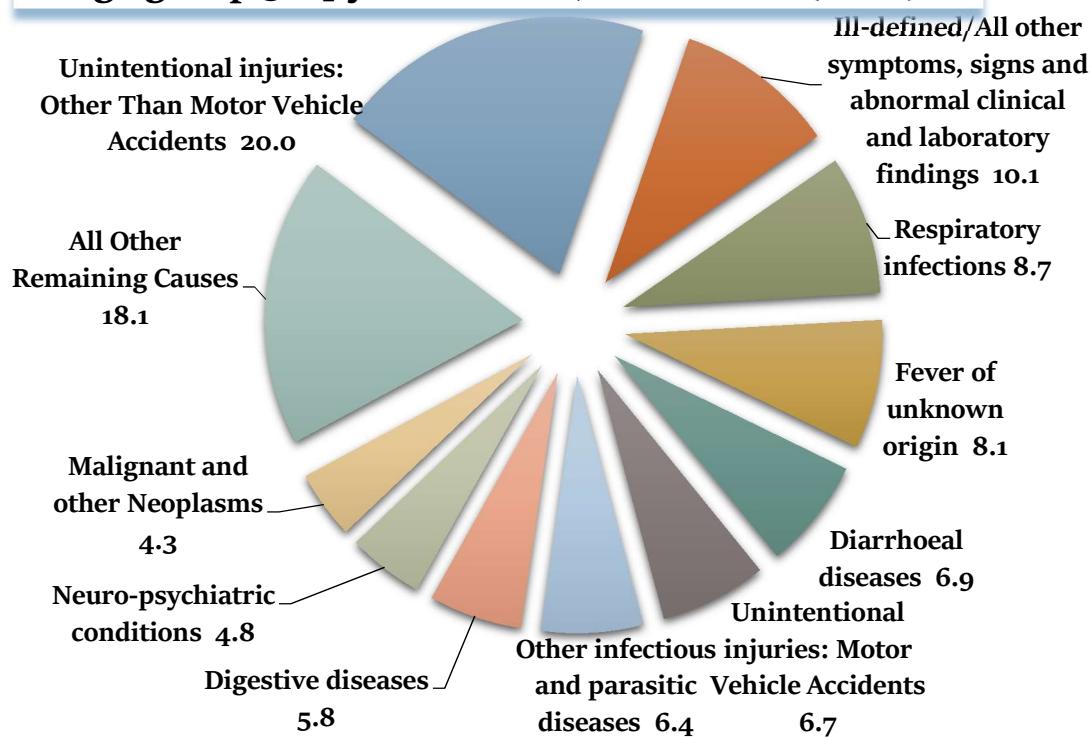


**3.6.1** Table 3.5A shows the leading causes of death at ages 5-14, which is generally regarded as a period of lower mortality than that at ages 0-4 years. The overall contribution of this age group to the total deaths is 0.9%, with 0.8% of male deaths and 1.0% of female deaths. The leading cause of deaths is unintentional injuries: other than Motor Vehicle Accidents contributes 20.0% of total proportion of deaths in age group 5-14 years. Respiratory infections (8.7%), Fever of unknown origin (8.1%), Diarrhoeal diseases (6.9%) and Unintentional injuries: Motor Vehicle Accidents (6.7%) are other prominent causes of death. Female have higher proportion of death from Diarrhoeal diseases, digestive diseases, other infectious and parasitic diseases and neuro-psychiatric conditions. On the contrary, males have a higher proportion of deaths from unintentional injuries: Other Than Motor Vehicle Accidents, respiratory infections, fever of unknown origin and unintentional injuries: motor vehicle accidents. The top 10 causes of deaths during 2020-2022 for children between age group 5-14 years is given in Chart 38.

**Table 3.5A-Top 10 Causes of Death for age group 5-14 years  
in India: 2020-2022**

Cause of Death	% Proportion of deaths		
	Male	Female	Person
Unintentional injuries: Other Than Motor Vehicle Accidents	23.6	15.8	20.0
Respiratory infections	9.1	8.4	8.7
Fever of unknown origin	8.1	8.0	8.1
Diarrhoeal diseases	5.6	8.5	6.9
Unintentional injuries: Motor Vehicle Accidents	8.9	4.1	6.7
Other infectious and parasitic diseases	5.5	7.6	6.4
Digestive diseases	4.9	6.9	5.8
Neuro-psychiatric conditions	4.7	4.9	4.8
Malignant and other Neoplasms	4.3	4.3	4.3
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	9.9	10.4	10.1
All Other Remaining Causes	15.6	21.1	18.1

**Chart 38 - Distribution of % proportion of deaths for age group 5-14 year in India, 2020-2022 (in %)**

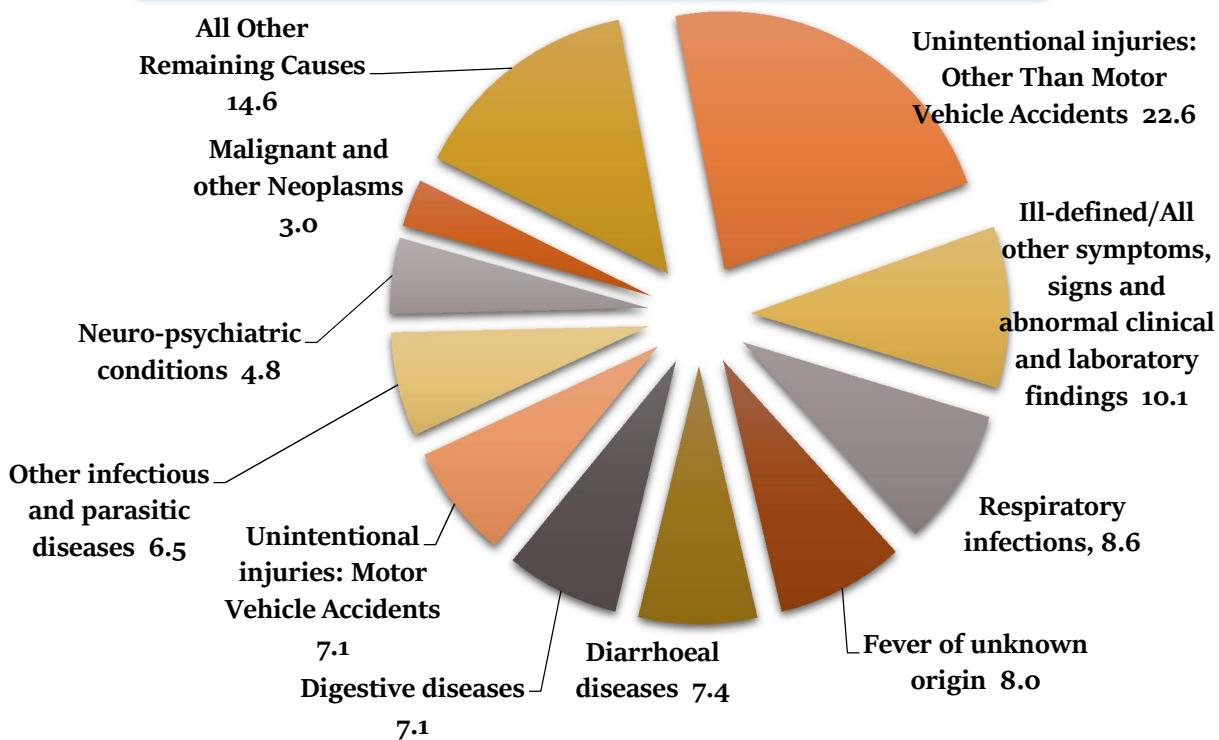


**3.6.2** Table 3.5B shows the variation in causes of mortality at ages 5-14 as a proportion of deaths by EAG States & Assam and Other States. Nearly, 1.3% and 0.7% of the total deaths in the EAG states & Assam and Other states occur in this age group respectively. The overall pattern of the leading causes of death is similar in both categories with varying relative ranking except digestive diseases in EAG states & Assam and Intentional injuries: suicide in Other states. Deaths due to unintentional injuries: other than motor vehicle accidents and unintentional injuries: motor vehicle accidents as causes of deaths dominate among males than females in both the category of states. The top 10 causes of deaths during 2020-2022 for children between age group 5-14 years in EAG States & Assam and Other States are given in Chart 39 and Chart 40, respectively.

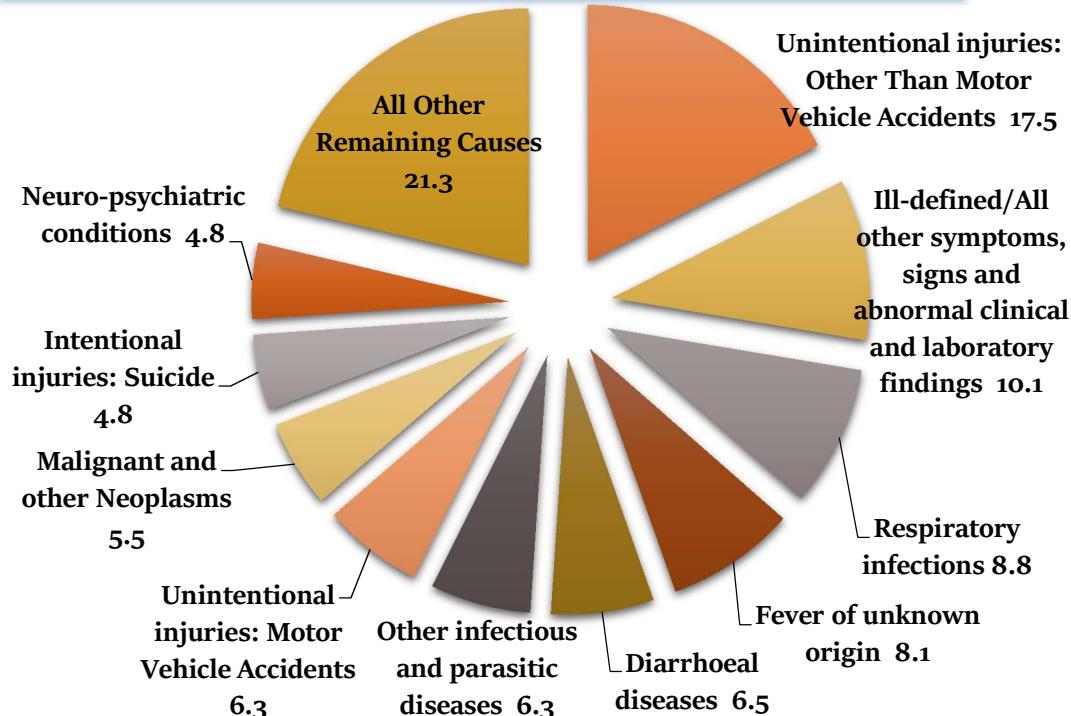
**Table 3.5B: Top 10 Causes of Death for age group 5-14 years  
in EAG States & Assam and Other States: 2020-2022**

Cause of Death	% Proportion of deaths		
	Male	Female	Person
<b>EAG States and Assam</b>			
Unintentional injuries: Other Than Motor Vehicle Accidents	24.7	20.1	22.6
Respiratory infections	8.8	8.4	8.6
Fever of unknown origin	8.5	7.5	8.0
Diarrhoeal diseases	4.9	10.4	7.4
Digestive diseases	7.4	6.8	7.1
Unintentional injuries: Motor Vehicle Accidents	10.2	3.6	7.1
Other infectious and parasitic diseases	5.2	8.1	6.5
Neuro-psychiatric conditions	4.9	4.5	4.8
Malignant and other Neoplasms	3.3	2.6	3.0
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	10.7	9.4	10.1
All Other Remaining Causes	11.3	18.5	14.6
<b>Other States</b>			
Unintentional injuries: Other Than Motor Vehicle Accidents	22.5	11.7	17.5
Respiratory infections	9.3	8.3	8.8
Fever of unknown origin	7.8	8.6	8.1
Diarrhoeal diseases	6.2	6.7	6.5
Other infectious and parasitic diseases	5.7	7.1	6.3
Unintentional injuries: Motor Vehicle Accidents	7.8	4.6	6.3
Malignant and other Neoplasms	5.2	5.8	5.5
Intentional injuries: Suicide	3.9	5.8	4.8
Neuro-psychiatric conditions	4.4	5.2	4.8
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	9.0	11.3	10.1
All Other Remaining Causes	18.3	24.8	21.3

**Chart 39 - Top 10 causes of death in EAG States & Assam for age group 5-14 year, 2020-2022 (in %)**



**Chart 40 - Top 10 causes of death in Other States for age group 5-14 year, 2020-2022 (in %)**

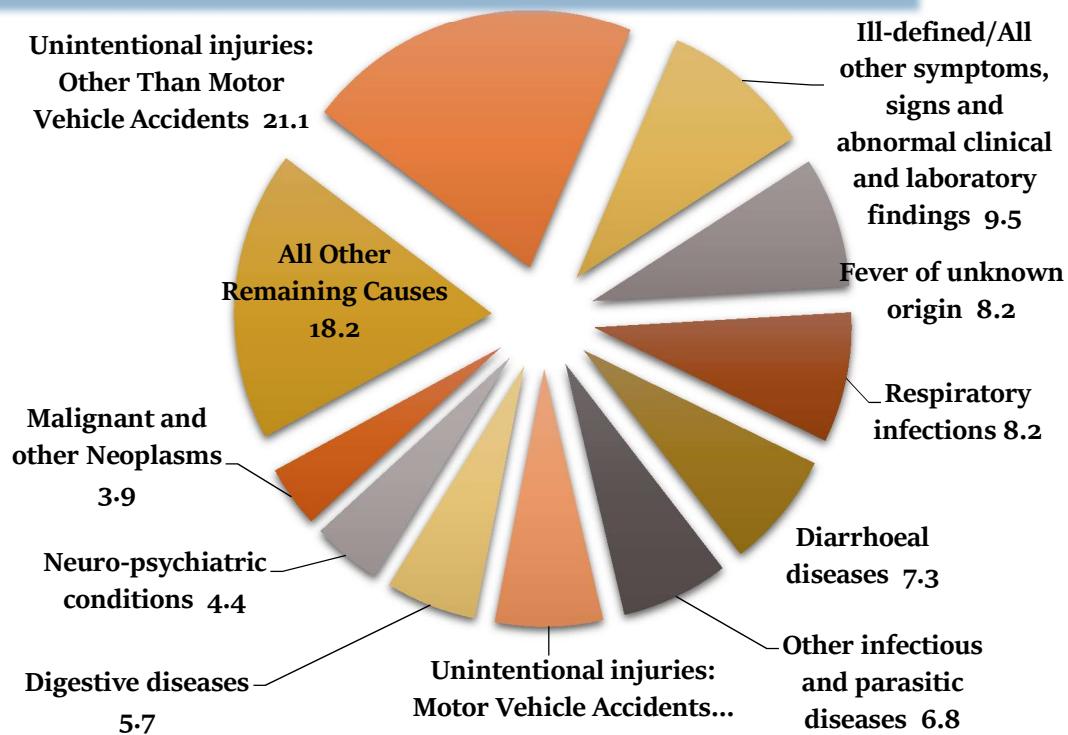


**3.6.3** Table 3.5C shows the results for rural and urban areas in the country for age group 5-14 years. The leading causes of deaths are common with varying degrees of proportions. The proportion of deaths due to respiratory infections in rural areas are about 8.2% of the total deaths of age group 5-14 years, compared to 11.3% in urban areas. Deaths from neuro-psychiatric conditions account for 6.5% of the deaths in urban area vis-à-vis 4.4% in rural area. The top 10 causes of deaths for age group 5-14 years in Rural & Urban areas for the year 2020-2022 is in Chart 41 and Chart 42, respectively.

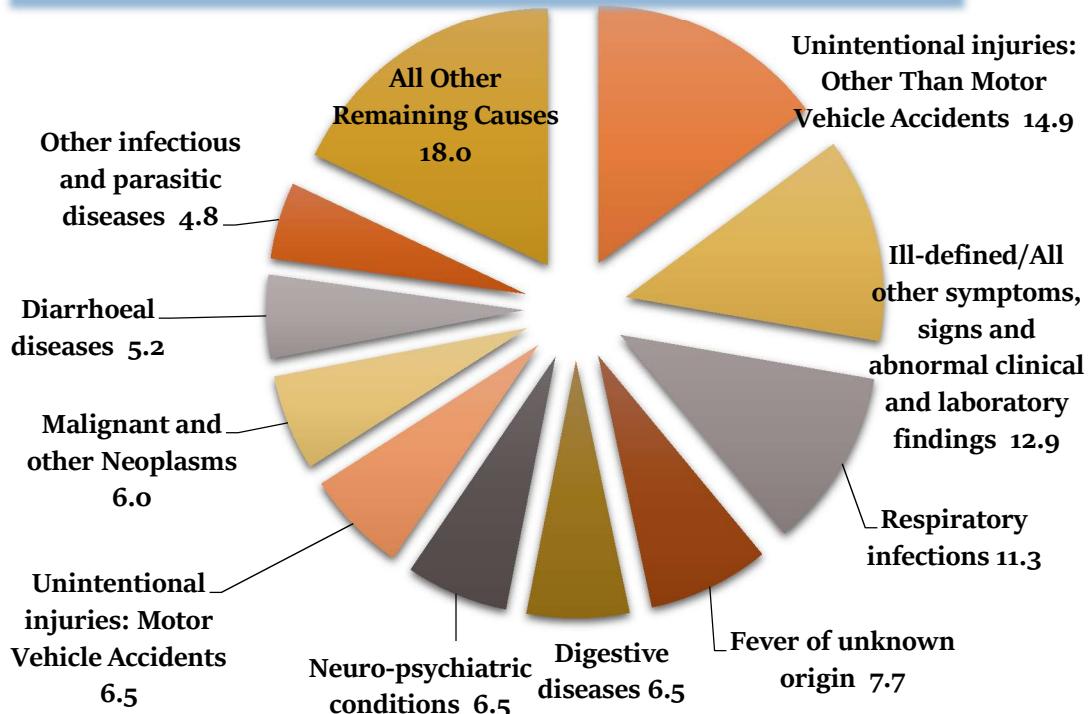
**Table 3.5C: Top 10 Causes of Death for age group 5-14 years  
in Rural & Urban areas: 2020-2022**

Cause of Death	% Proportion of deaths		
	Male	Female	Person
<b>Rural area</b>			
Unintentional injuries: Other Than Motor Vehicle Accidents	24.1	17.4	21.1
Fever of unknown origin	8.0	8.4	8.2
Respiratory infections	8.6	7.6	8.2
Diarrhoeal diseases	5.3	9.8	7.3
Other infectious and parasitic diseases	5.9	7.8	6.8
Unintentional injuries: Motor Vehicle Accidents	9.1	3.9	6.8
Digestive diseases	5.1	6.5	5.7
Neuro-psychiatric conditions	4.0	4.9	4.4
Malignant and other Neoplasms	4.6	2.9	3.9
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	9.6	9.4	9.5
All Other Remaining Causes	15.7	21.3	18.2
<b>Urban area</b>			
Unintentional injuries: Other Than Motor Vehicle Accidents	20.8	8.9	14.9
Respiratory infections	11.2	11.4	11.3
Fever of unknown origin	8.8	6.5	7.7
Digestive diseases	4.0	8.9	6.5
Neuro-psychiatric conditions	8.0	4.9	6.5
Unintentional injuries: Motor Vehicle Accidents	8.0	4.9	6.5
Malignant and other Neoplasms	2.4	9.8	6.0
Diarrhoeal diseases	7.2	3.3	5.2
Other infectious and parasitic diseases	3.2	6.5	4.8
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	11.2	14.6	12.9
All Other Remaining Causes	15.4	20.7	18.0

**Chart 41 - Top 10 causes of death in Rural Areas for age group 5-14 year, 2020-2022 (in %)**



**Chart 42 - Top 10 causes of death in Urban Areas for age group 5-14 year, 2020-2022 (in %)**



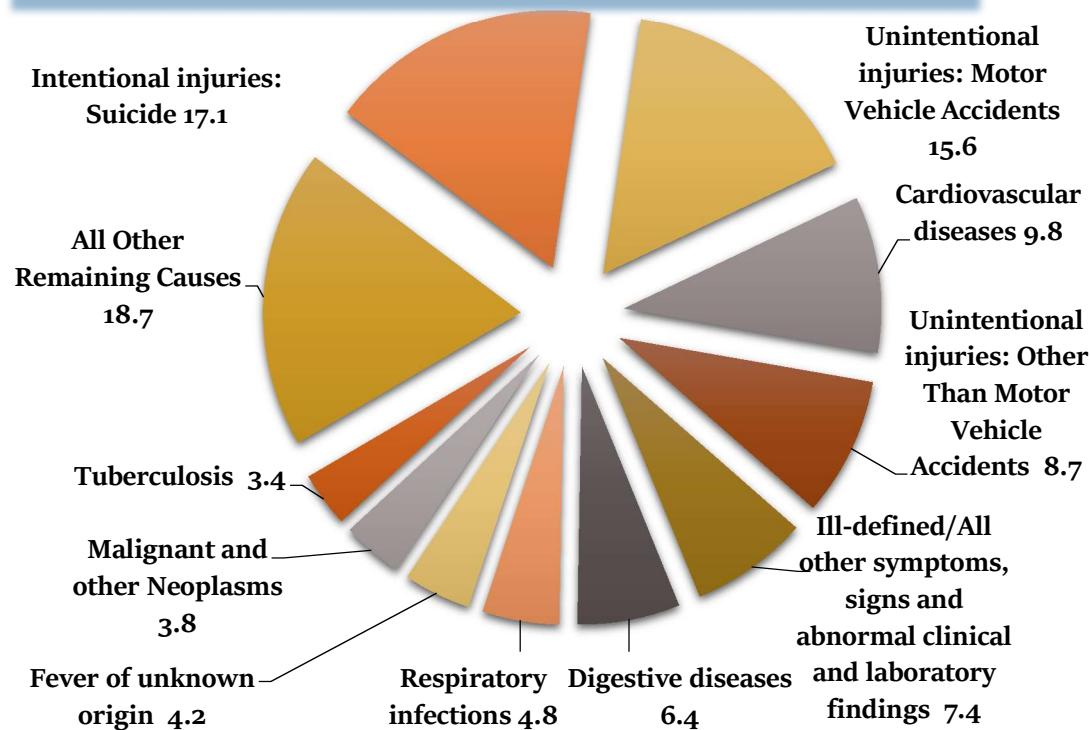
**3.7.1** Table 3.6A shows top ten causes of deaths in age group 15-29 years. About 5.0% of total proportion of deaths occur in age group 15-29 years, accounting for 5.1% proportion of male and 4.8% of female deaths. Approximately, 41 percent of proportion of deaths in this age group are dominated by non-medical causes such as unintentional injuries: motor vehicle accidents, intentional injuries: suicide and unintentional injuries: other than motor vehicle accidents. The proportion of female deaths (18.2%) due to intentional injuries: suicide is higher than male deaths (16.3%). The top 10 causes of deaths during 2020-2022 for age group 15-29 years is given in Chart 43.

**Table 3.6A: Top 10 Causes of Death for age group 15-29 years  
in India: 2020-2022**

Cause of Death	% Proportion of deaths		
	Male	Female	Person
Intentional injuries: Suicide	16.3	18.2	17.1
Unintentional injuries: Motor Vehicle Accidents	22.2	5.6	15.6
Cardiovascular diseases	9.6	10.0	9.8
Unintentional injuries: Other Than Motor Vehicle Accidents	10.4	6.1	8.7
Digestive diseases	6.5	6.4	6.4
Respiratory infections	4.1	6.0	4.8
Fever of unknown origin	3.5	5.3	4.2
Malignant and other Neoplasms	3.4	4.5	3.8
Tuberculosis	2.5	4.8	3.4
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	7.4	7.5	7.4
All Other Remaining Causes	14.1	25.7	18.7

Note: Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings, constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 43 - Distribution of % proportion of deaths for age group 15-29 year in India, 2020-2022 (in %)**



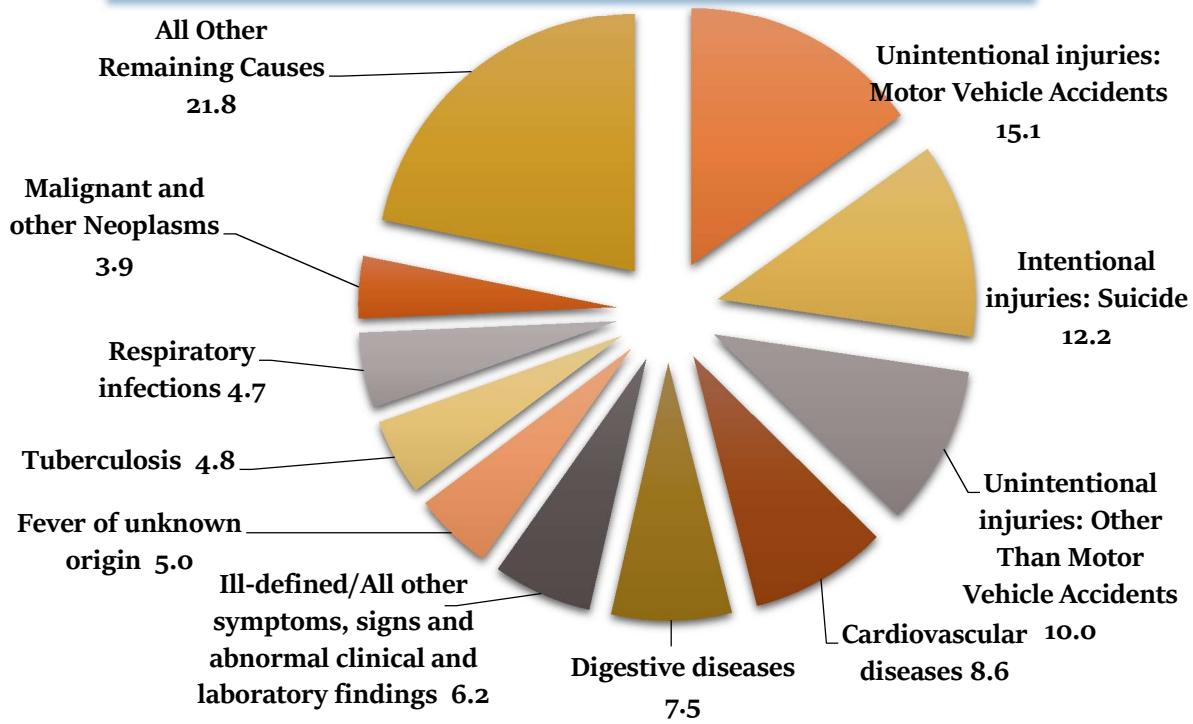
**3.7.2** Table 3.6B shows the pattern of top ten causes of death in age 15-29 years in EAG States & Assam and Other States. Overall pattern of deaths in EAG States & Assam and Other States is relatively similar with varying ranking except for Tuberculosis in EAG States & Assam and Neuro-psychiatric conditions in other states. Share of total deaths in EAG states and Assam due to suicide account for 12.2% which is significantly less than share of deaths due to suicide in other states (20.9%). The proportion of male death is more due to Unintentional injuries: Motor Vehicle Accidents and Unintentional injuries: Other Than Motor Vehicle Accidents in comparison of proportion of death in females. The top 10 causes of deaths during 2020-22 for age group 15-29 years in rural and urban area are given in Chart 44 and Chart 45, respectively.

**Table 3.6B: Top 10 Causes of Death for age group 15-29 years  
in EAG States & Assam and Other States: 2020-2022**

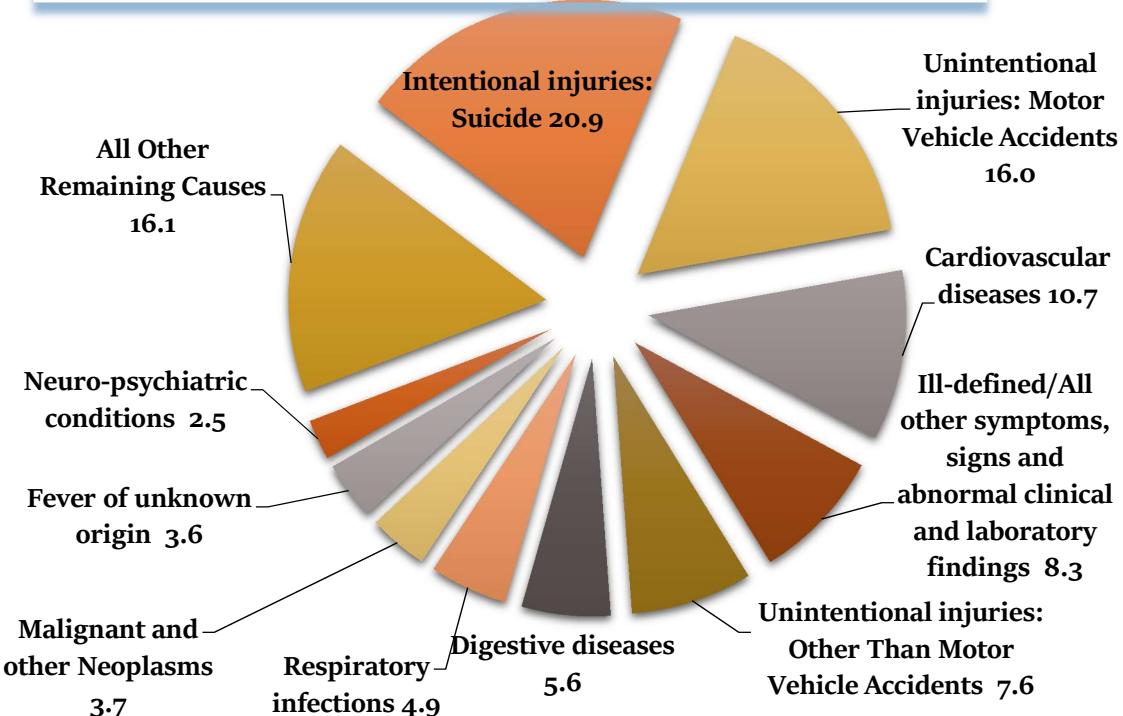
Cause of Death	% Proportion of deaths		
	Male	Female	Person
<b>EAG States and Assam</b>			
Unintentional injuries: Motor Vehicle Accidents	23.0	4.9	15.1
Intentional injuries: Suicide	12.3	12.2	12.2
Unintentional injuries: Other Than Motor Vehicle Accidents	11.9	7.7	10.0
Cardiovascular diseases	8.7	8.6	8.6
Digestive diseases	6.8	8.6	7.5
Fever of unknown origin	4.3	5.9	5.0
Tuberculosis	3.6	6.3	4.8
Respiratory infections	4.0	5.7	4.7
Malignant and other Neoplasms	3.9	4.0	3.9
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	5.9	6.6	6.2
All Other Remaining Causes	15.7	29.7	21.8
<b>Other States</b>			
Intentional injuries: Suicide	19.2	23.8	20.9
Unintentional injuries: Motor Vehicle Accidents	21.7	6.2	16.0
Cardiovascular diseases	10.3	11.5	10.7
Unintentional injuries: Other Than Motor Vehicle Accidents	9.3	4.7	7.6
Digestive diseases	6.3	4.4	5.6
Respiratory infections	4.1	6.2	4.9
Malignant and other Neoplasms	3.1	4.9	3.7
Fever of unknown origin	3.0	4.7	3.6
Neuro-psychiatric conditions	2.4	2.7	2.5
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	8.4	8.2	8.3
All Other Remaining Causes	12.3	22.7	16.1

Note: Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 44 - Top 10 causes of death in EAG States & Assam for age group 15-29 year, 2020-2022 (in %)**



**Chart 45 - Top 10 causes of death in Other States for age group 15-29 year, 2020-2022 (in %)**



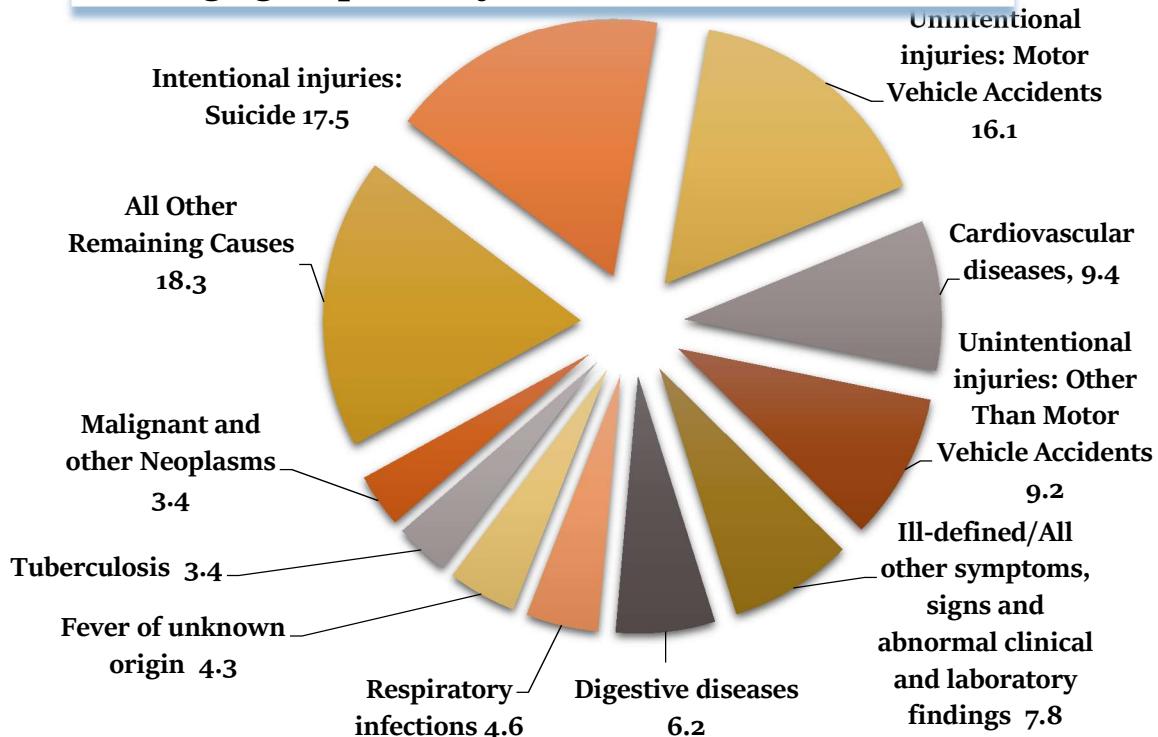
**3.7.3** Table 3.6C shows the top ten causes of death by rural and urban in country for age group 15-29 years for 2020-2022. Overall top ten causes of death in both categories can be observed as similar with relative varying ranking. Proportion of male deaths due to unintentional injuries: motor vehicle accidents are more dominant than female deaths in both rural and urban area. Cardiovascular diseases are more prevalent in urban area (11.4%) than rural area (9.4%). The top 10 causes of deaths during 2020-2022 for age group 15-29 years in rural and urban area are given in Chart 46 and Chart 47, respectively.

**Table 3.6C: Top 10 Causes of Death for age group 15-29 years  
in Rural & Urban Areas: 2020-2022**

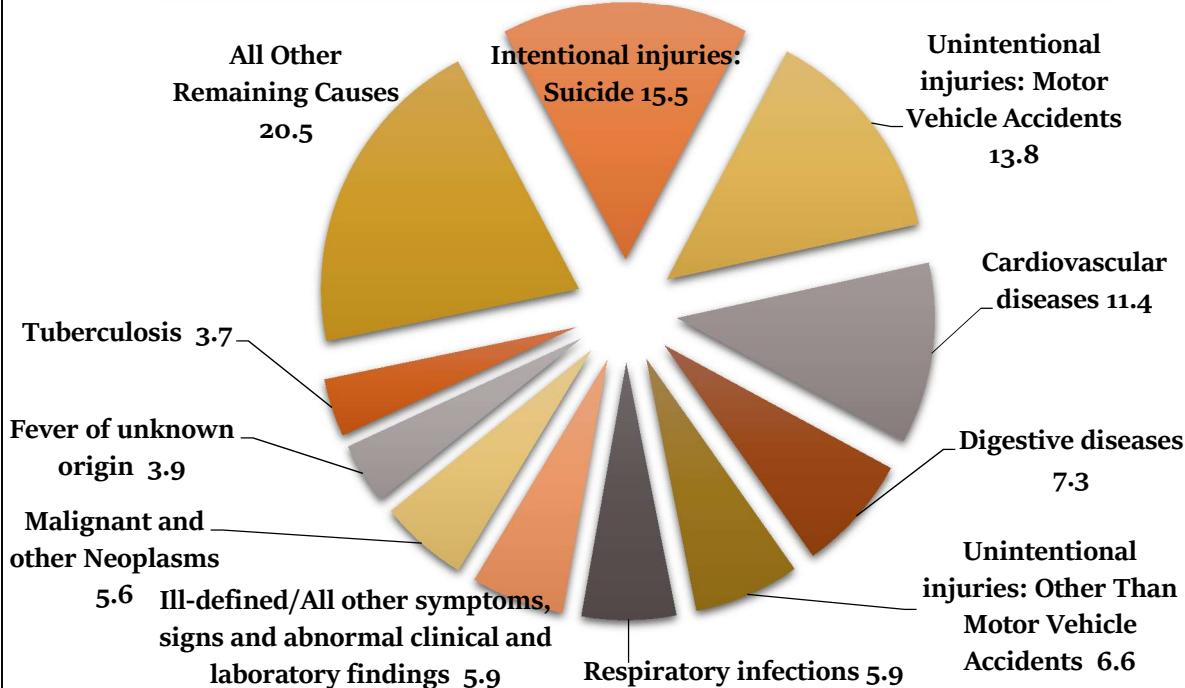
Cause of Death	% Proportion of deaths		
	Male	Female	Person
<b>Rural</b>			
Intentional injuries: Suicide	16.9	18.3	17.5
Unintentional injuries: Motor Vehicle Accidents	22.9	5.8	16.1
Cardiovascular diseases	9.4	9.5	9.4
Unintentional injuries: Other Than Motor Vehicle Accidents	10.9	6.6	9.2
Digestive diseases	5.9	6.7	6.2
Respiratory infections	3.8	5.6	4.6
Fever of unknown origin	3.6	5.4	4.3
Tuberculosis	2.4	4.9	3.4
Malignant and other Neoplasms	2.8	4.2	3.4
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	7.7	7.9	7.8
All Other Remaining Causes	13.7	25.1	18.3
<b>Urban</b>			
Intentional injuries: Suicide	14.2	17.6	15.5
Unintentional injuries: Motor Vehicle Accidents	19.4	4.6	13.8
Cardiovascular diseases	10.7	12.5	11.4
Digestive diseases	8.6	5.1	7.3
Unintentional injuries: Other Than Motor Vehicle Accidents	8.3	3.9	6.6
Respiratory infections	5.0	7.4	5.9
Malignant and other Neoplasms	5.5	5.6	5.6
Fever of unknown origin	3.3	4.8	3.9
Tuberculosis	3.2	4.4	3.7
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	6.1	5.5	5.9
All Other Remaining Causes	15.6	28.6	20.5

Note: Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 46 - Top 10 causes of death in Rural Areas for age group 15-29 year, 2020-2022 (in %)**



**Chart 47 - Top 10 causes of death in Urban Areas for age group 15-29 year, 2020-2022 (in %)**



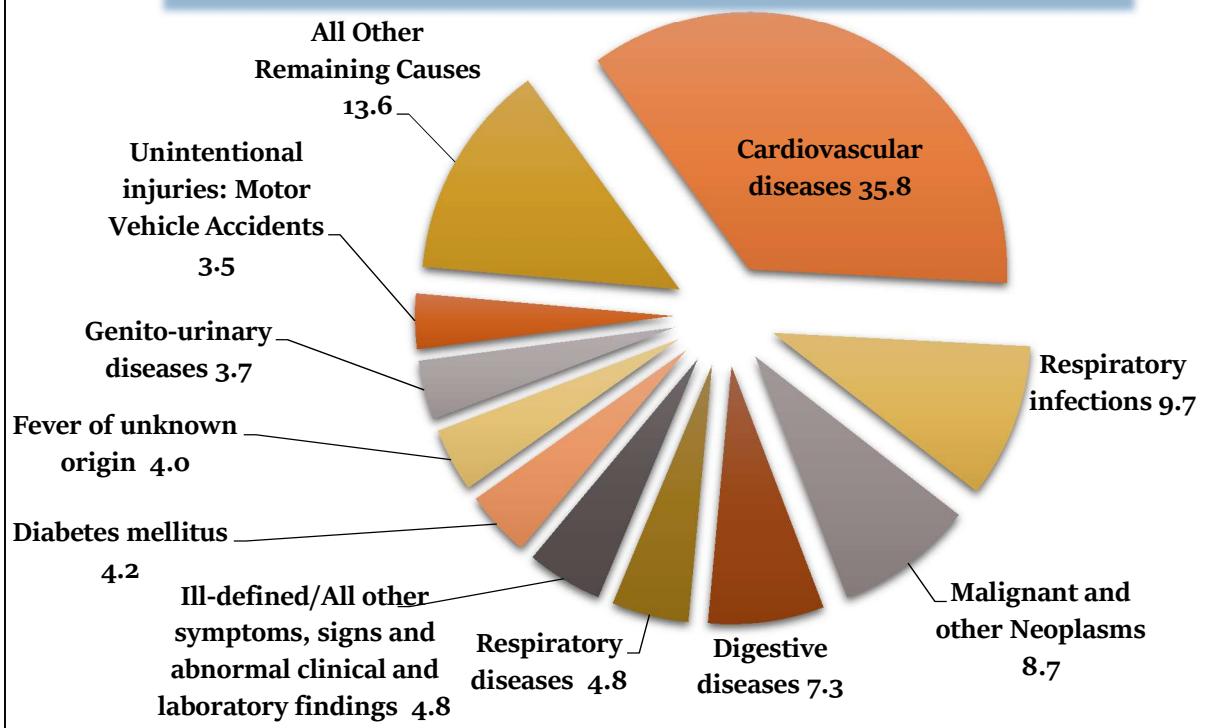
**3.8.1** Table 3.7A shows the top ten causes of death among adults in the age group 30-69 in country. Mortality rates rises sharply during the ages 30-69. The leading causes of death in this age group are cardiovascular diseases (35.8%), respiratory infections (9.7%), malignant and other neoplasms (8.7%), digestive diseases (7.3%), and respiratory diseases (4.8%). There are a notable higher proportion of female deaths 12.2% and 4.5% due to malignant and neoplasms and respiratory diseases than among males 7.2% and 3.5% respectively. Whereas, contribution of male deaths (5.7%) due to unintentional injuries: motor vehicle accidents are higher than female deaths (2.3%). The top 10 causes of deaths during 2020-2022 for age group 30-69 years is in Chart 48.

**Table 3.7A -Top 10 causes of death for age group 30-69 years  
in India: 2020-2022**

Cause of Death	% Proportion of deaths		
	Male	Female	Person
Cardiovascular diseases	34.2	31.2	35.8
Respiratory infections	9.2	10.1	9.7
Malignant and other Neoplasms	7.2	12.2	8.7
Digestive diseases	10.2	4.9	7.3
Respiratory diseases	3.5	4.5	4.8
Diabetes mellitus	3.1	4.3	4.2
Fever of unknown origin	3.2	4.6	4.0
Genito-urinary diseases	3.8	4.0	3.7
Unintentional injuries: Motor Vehicle Accidents	5.7	2.3	3.5
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	4.3	4.9	4.8
All Other Remaining Causes	15.5	16.8	13.6

Note: Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 48 - Distribution of % proportion of deaths for age group 30-69 year in India, 2020-2022 (in %)**



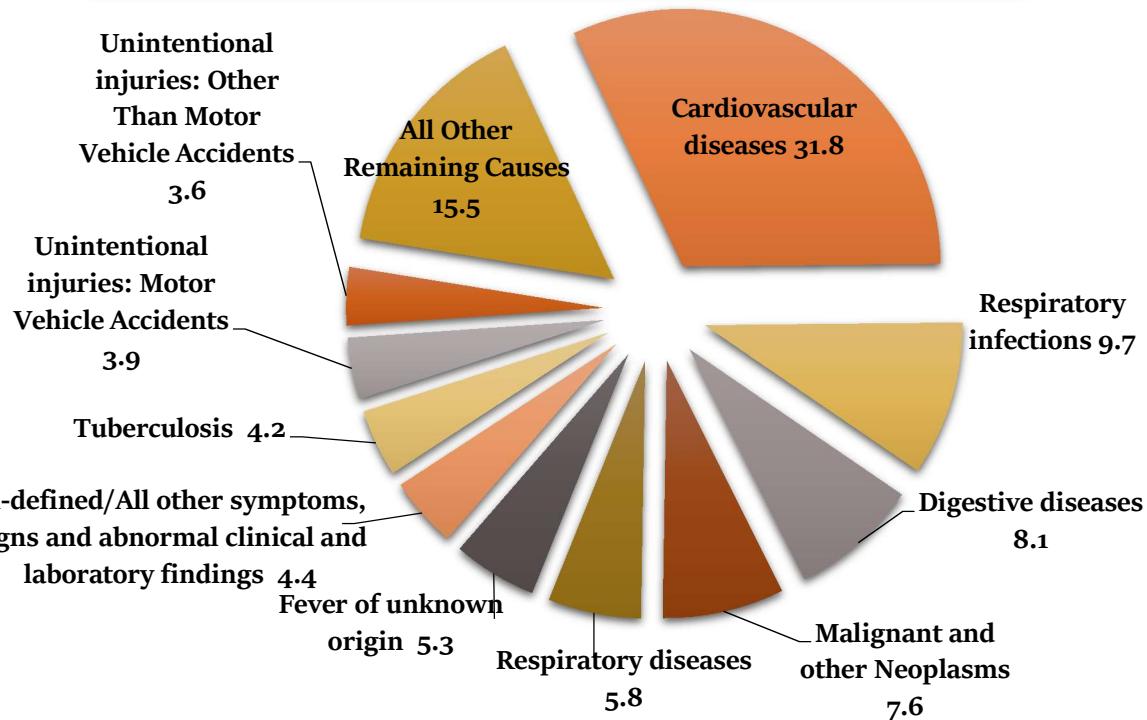
**3.8.2** Table 3.7B shows the pattern of deaths at ages 30-69 in EAG States & Assam and Other States. The leading causes of death are common in both the category except from Tuberculosis in EAG states & Assam and Genito-urinary diseases in other states. Cardiovascular disease which is the leading cause of death is widely prevalent in Other States (37.8%) as compared to EAG States & Assam (31.8%). Deaths due to malignant & neoplasms constitute a higher proportion in female than males in both categories. The top 10 causes of deaths during 2020-2022 for age group 30-69 years in EAG States & Assam and Other States are given in Chart 49 and Chart 50, respectively.

**Table 3.7B -Top 10 causes of death for age group 30-69 years  
in EAG states & Assam and Other states: 2020-2022**

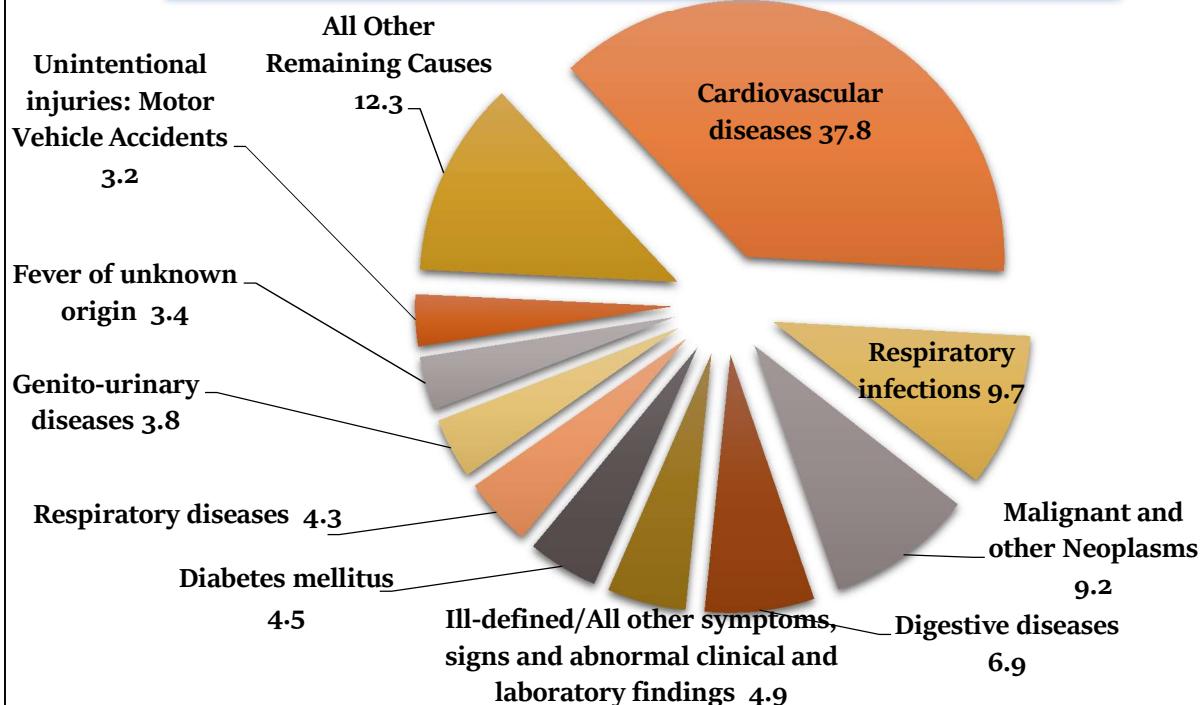
Cause of Death	% Proportion of deaths		
	Male	Female	Person
<b>EAG and Assam</b>			
Cardiovascular diseases	30.4	28.5	31.8
Respiratory infections	9.1	10.1	9.7
Digestive diseases	10.6	6.6	8.1
Malignant and other Neoplasms	6.8	10.0	7.6
Respiratory diseases	4.4	5.0	5.8
Fever of unknown origin	4.2	5.7	5.3
Tuberculosis	4.7	3.9	4.2
Unintentional injuries: Motor Vehicle Accidents	6.4	2.4	3.9
Unintentional injuries: Other Than Motor Vehicle Accidents	4.4	4.0	3.6
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	3.7	4.7	4.4
All Other Remaining Causes	15.2	19.1	15.5
<b>Other States</b>			
Cardiovascular diseases	36.0	32.6	37.8
Respiratory infections	9.3	10.2	9.7
Malignant and other Neoplasms	7.4	13.4	9.2
Digestive diseases	10.1	4.0	6.9
Diabetes mellitus	3.3	4.5	4.5
Respiratory diseases	3.1	4.2	4.3
Genito-urinary diseases	3.8	4.3	3.8
Fever of unknown origin	2.7	4.1	3.4
Unintentional injuries: Motor Vehicle Accidents	5.3	2.3	3.2
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	4.6	5.1	4.9
All Other Remaining Causes	14.5	15.3	12.3

Note: Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 49 - Top 10 causes of death in EAG States & Assam for age group 30-69 year, 2020-2022 (in %)**



**Chart 50 - Top 10 causes of death in Other States for age group 30-69 year, 2020-2022 (in %)**



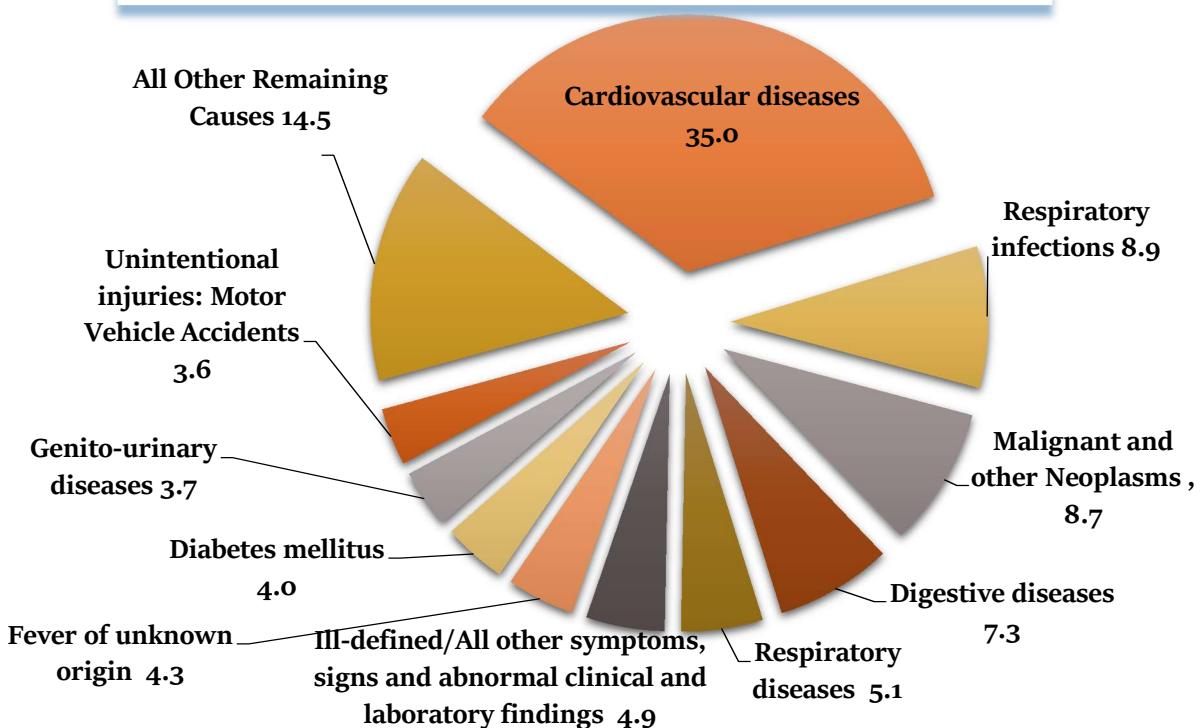
**3.8.3** Table 3.7C shows the top ten causes of death by rural and urban in country for age group 30-69 years. Overall top ten causes of death in both categories can be observed as similar with relative varying rankings. Deaths due to cardiovascular diseases and digestive diseases are more prevalent in male than female in both rural and urban areas. Whereas, reverse scenario can be observed in case of malignant and other neoplasms, respiratory infections , respiratory diseases and Diabetes mellitus where proportion of female deaths are higher than that of male deaths. The top 10 causes of deaths during 2020-2022 for age group 30-69 years in rural and urban area are given in Chart 51 and Chart 52, respectively.

**Table 3.7.C -Top 10 causes of death for age group 30-69 years  
in Rural and Urban Area: 2020-2022**

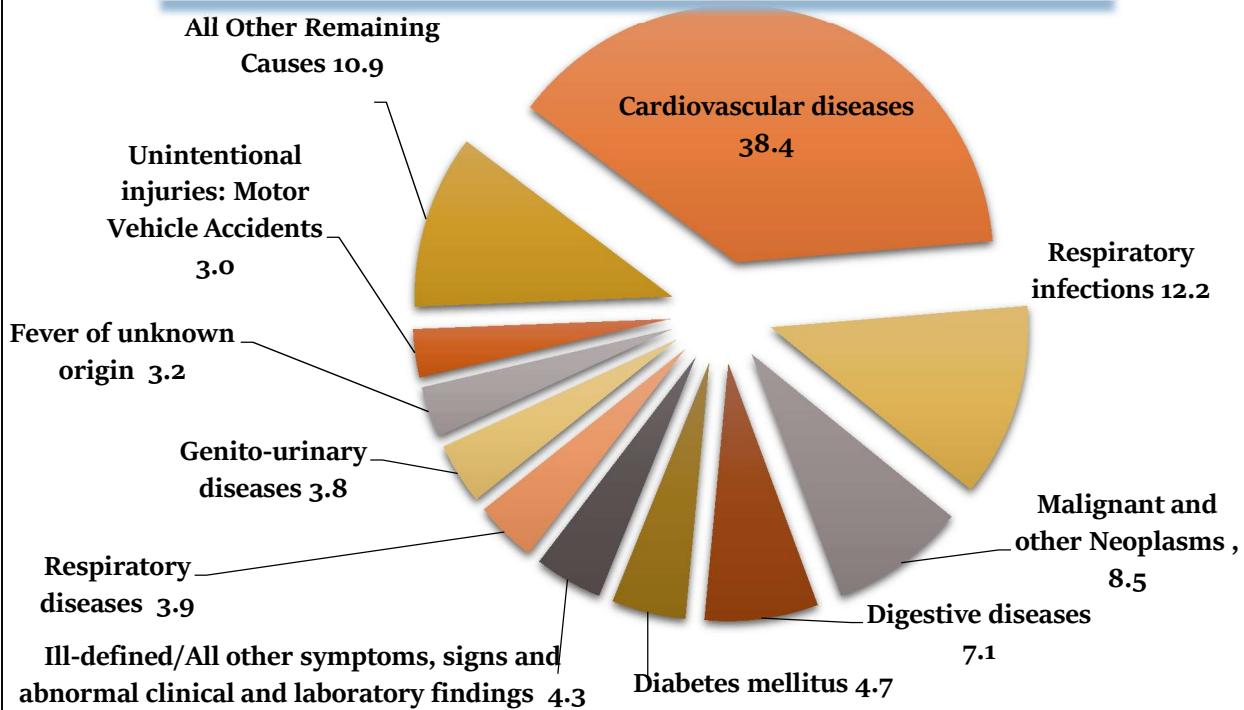
Cause of Death	% Proportion of deaths		
	Male	Female	Person
<b>Rural</b>			
Cardiovascular diseases	33.4	30.5	35.0
Respiratory infections	8.5	9.3	8.9
Malignant and other Neoplasms	7.2	12.5	8.7
Digestive diseases	10.2	4.9	7.3
Respiratory diseases	3.7	4.7	5.1
Fever of unknown origin	3.4	4.8	4.3
Diabetes mellitus	3.1	4.1	4.0
Genito-urinary diseases	3.8	4.0	3.7
Unintentional injuries: Motor Vehicle Accidents	5.9	2.4	3.6
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	4.5	5.0	4.9
All Other Remaining Causes	16.5	17.8	14.5
<b>Urban</b>			
Cardiovascular diseases	36.6	33.1	38.4
Respiratory infections	11.4	12.5	12.2
Malignant and other Neoplasms	7.3	11.6	8.5
Digestive diseases	10.4	5.1	7.1
Diabetes mellitus	3.3	5.0	4.7
Respiratory diseases	3.0	3.6	3.9
Genito-urinary diseases	4.0	4.2	3.8
Fever of unknown origin	2.6	4.1	3.2
Unintentional injuries: Motor Vehicle Accidents	5.2	1.9	3.0
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	3.7	4.9	4.3
All Other Remaining Causes	12.6	14.0	10.9

Note: Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings constitutes instances where cause could not be properly diagnosed so has been categorised last among the top 10 leading cause group.

**Chart 51 - Top 10 causes of death in Rural Areas for age group 30-69 year, 2020-2022 (in %)**



**Chart 52 - Top 10 causes of death in Urban Areas for age group 30-69 year, 2020-2022 (in %)**



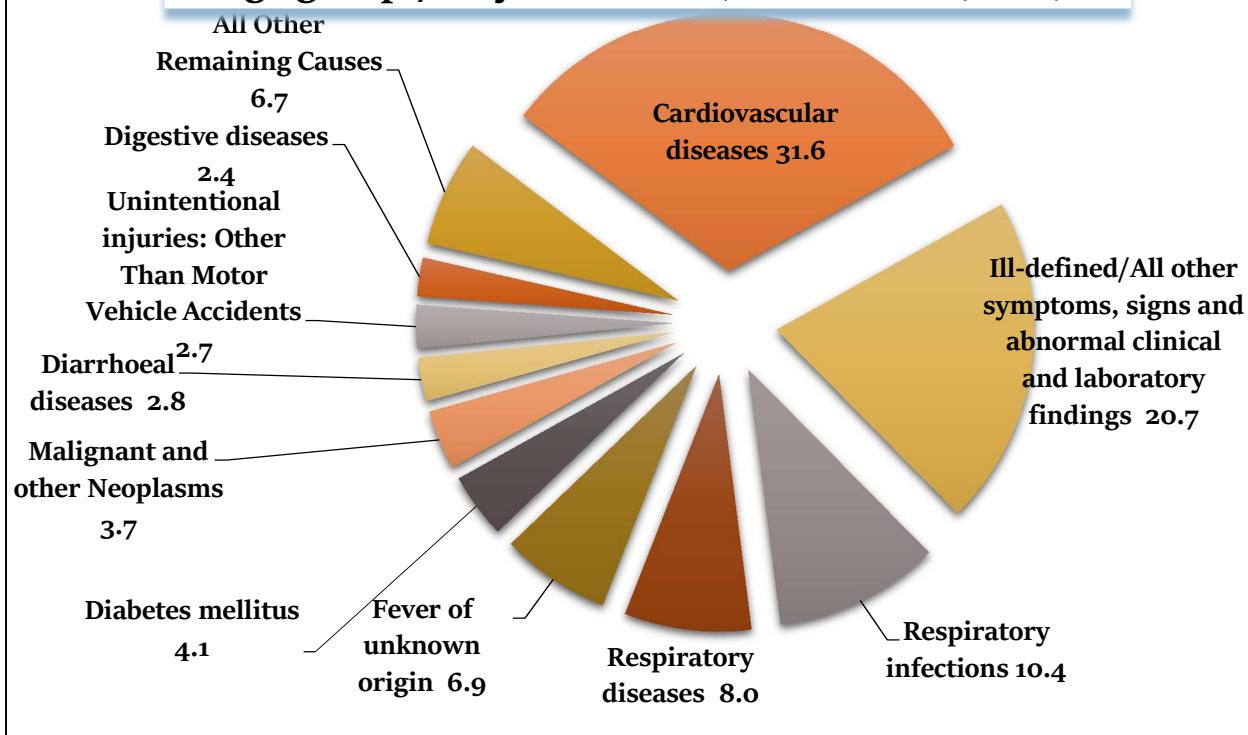
**3.9.1** Table 3.8A reviews the causes of death in the country at ages 70 years and above. About 41.0 percentage proportion of total deaths is occurring in age group 70 years and above with 36.8% and 47.1% share of male and female, respectively. The leading cause of deaths in this age group is cardiovascular diseases with maximum share of 31.6% followed by respiratory infections 10.4%. Contribution of female deaths is higher in fever of unknown origin, Diabetes mellitus, diarrhoeal diseases and Unintentional injuries: Other Than Motor Vehicle Accidents than male deaths. The top 10 causes of deaths during 2020-2022 for age group 70+ is given in Chart 53.

**Table 3.8.A -Top 10 causes of death for age group 70 years and above  
in India: 2020-2022**

Cause of Death	% Proportion of deaths		
	Male	Female	Person
Cardiovascular diseases	33.8	29.3	31.6
Respiratory infections	10.4	10.3	10.4
Respiratory diseases	8.3	7.6	8.0
Fever of unknown origin	6.3	7.6	6.9
Diabetes mellitus	3.9	4.3	4.1
Malignant and other Neoplasms	4.2	3.3	3.7
Diarrhoeal diseases	2.3	3.2	2.8
Unintentional injuries: Other Than Motor Vehicle Accidents	2.3	3.2	2.7
Digestive diseases	2.9	1.9	2.4
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	18.0	23.7	20.7
All Other Remaining Causes	7.7	5.6	6.7

Note: Ill-defined/All other Symptoms, Signs and Abnormal Clinical and Laboratory Findings Not Elsewhere Classified (NEC) (R00-R99) was not properly diagnosed so it may not be considered as second leading cause group.

**Chart 53 - Distribution of % proportion of deaths for age group 70+ year in India, 2020-2022 (in %)**



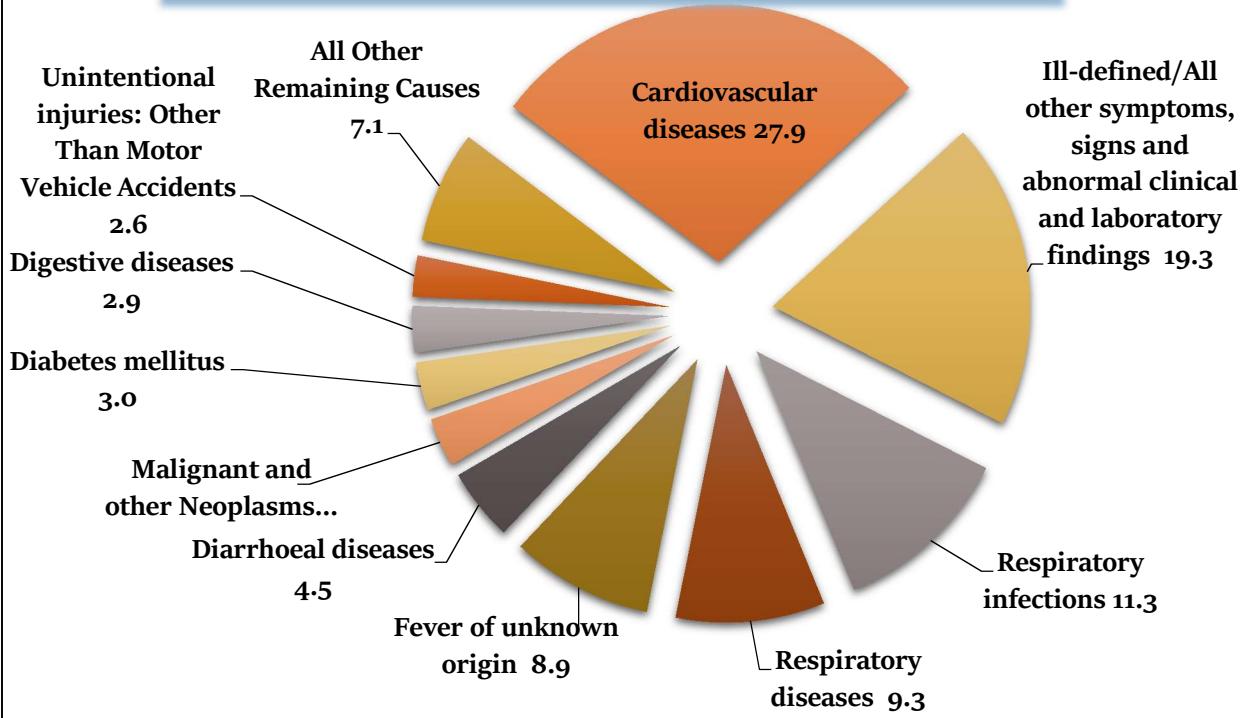
**3.9.2** Table 3.8B shows the pattern of causes of death in EAG states & Assam and Other states. The overall pattern of top ten causes of death in both categories is same except Diarrhoeal diseases in EAG states & Assam and Genito-urinary diseases in Other States with varying ranking. Cardiovascular disease is the leading cause of deaths in both the category with maximum share in Other States (33.4%) as compared to EAG states & Assam (27.9%). Proportion of deaths due to fever of unknown origin is quite higher in EAG states & Assam (8.9%) as compared to Other States (5.9%). The top 10 causes of deaths during 2020-2022 for age group 70+ in EAG & Assam and other States are given in Chart 54 and Chart 55, respectively.

**Table 3.8.B -Top 10 causes of death for age group 70 years and above  
in EAG States & Assam and Other States: 2020-2022**

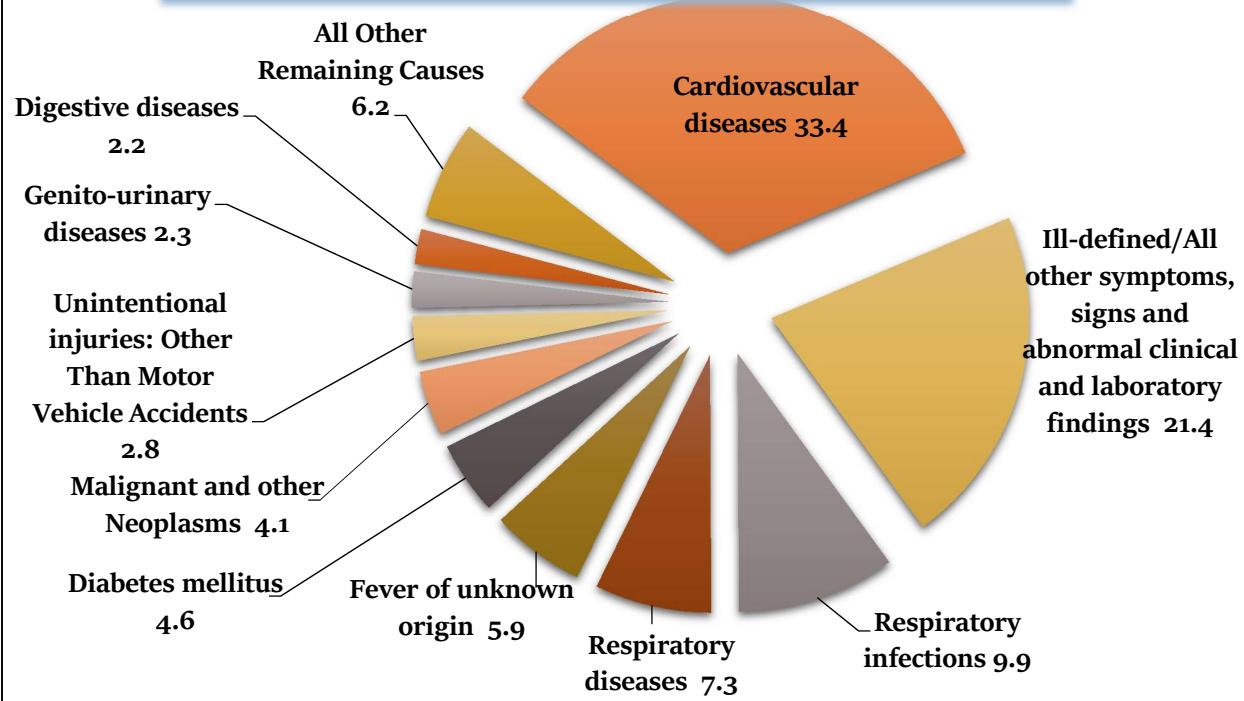
Cause of Death	% Proportion of deaths		
	Male	Female	Person
<b>EAG States and Assam</b>			
Cardiovascular diseases	29.9	25.6	27.9
Respiratory infections	10.8	12.0	11.3
Respiratory diseases	9.7	8.9	9.3
Fever of unknown origin	7.9	10.1	8.9
Diarrhoeal diseases	3.9	5.3	4.5
Malignant and other Neoplasms	3.4	2.7	3.1
Diabetes mellitus	3.2	2.8	3.0
Digestive diseases	3.0	2.8	2.9
Unintentional injuries: Other Than Motor Vehicle Accidents	2.3	3.0	2.6
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	18.0	20.8	19.3
All Other Remaining Causes	7.9	6.0	7.1
<b>Other States</b>			
Cardiovascular diseases	35.7	30.9	33.4
Respiratory infections	10.2	9.6	9.9
Respiratory diseases	7.7	7.0	7.3
Fever of unknown origin	5.4	6.5	5.9
Diabetes mellitus	4.2	5.0	4.6
Malignant and other Neoplasms	4.5	3.5	4.1
Unintentional injuries: Other Than Motor Vehicle Accidents	2.3	3.3	2.8
Genito-urinary diseases	2.8	1.7	2.3
Digestive diseases	2.8	1.6	2.2
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	18.1	24.9	21.4
All Other Remaining Causes	6.4	6.0	6.2

Note: Ill-defined/All other Symptoms, Signs and Abnormal Clinical and Laboratory Findings Not Elsewhere Classified (NEC) (R00-R99) was not properly diagnosed so it may not be considered as second leading cause group.

**Chart 54 - Top 10 causes of death in EAG States & Assam for age group 70+ year, 2020-2022 (in %)**



**Chart 55 - Top 10 causes of death in Other for age group 70+ year, 2020-2022 (in %)**



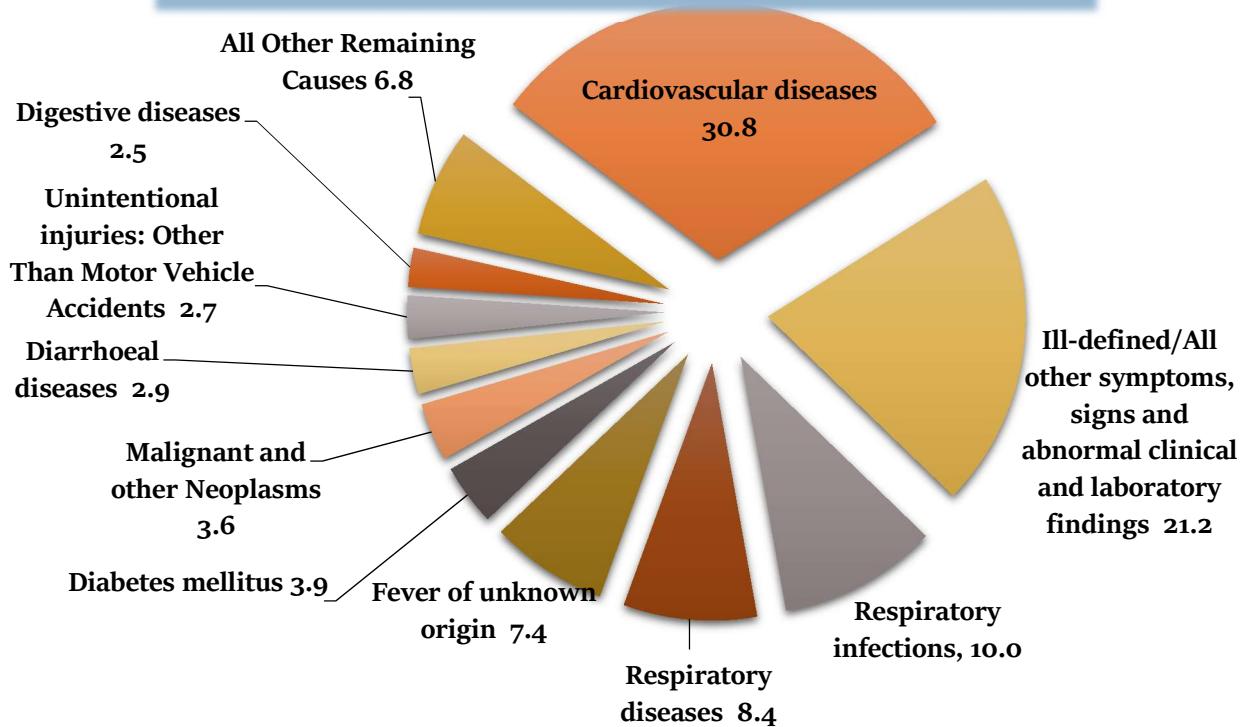
**3.9.3** Table 3.8C shows the pattern of causes of death in Rural and Urban areas. The overall pattern of top ten causes of death in both categories is same except Diarrhoeal diseases in rural area and Genito-urinary diseases in urban area. Cardiovascular disease is the leading cause of deaths in both the category with the maximum share in urban (34.6%) as compared to rural (30.8%). Proportion of deaths due to respiratory diseases is comparatively higher in Rural area (8.4%) than in Urban area (6.5%). Share of male deaths due to malignant and neoplasms in rural area (3.6%) is lower than that of urban area (4.1%). The top 10 causes of deaths during 2020-2022 for age group 70+ in rural and urban area are given in Chart 56 and Chart 57, respectively.

**Table 3.8.C -Top 10 causes of death for age group 70 years and above  
in Rural and Urban Area: 2020-2022**

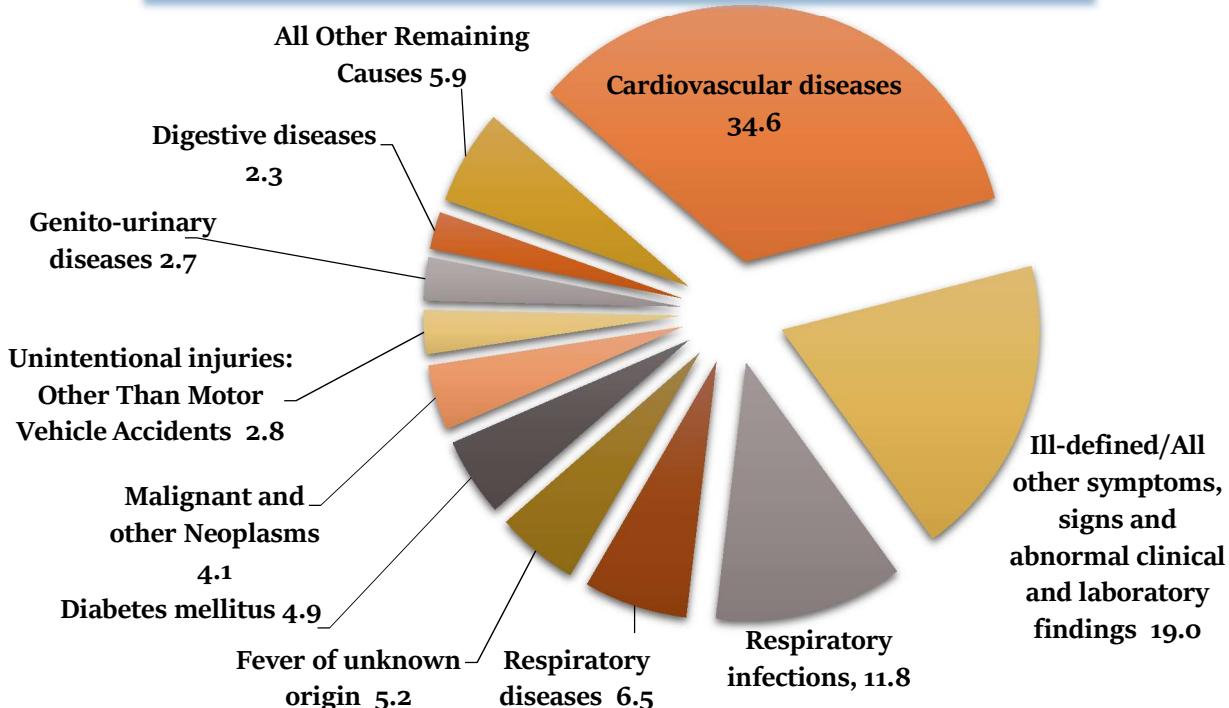
Cause of Death	% Proportion of deaths		
	Male	Female	Person
<b>Rural</b>			
Cardiovascular diseases	32.7	28.6	30.8
Respiratory infections	9.8	10.1	10.0
Respiratory diseases	8.9	7.8	8.4
Fever of unknown origin	6.7	8.1	7.4
Diabetes mellitus	3.7	4.1	3.9
Malignant and other Neoplasms	4.1	3.1	3.6
Diarrhoeal diseases	2.5	3.4	2.9
Unintentional injuries: Other Than Motor Vehicle Accidents	2.3	3.2	2.7
Digestive diseases	3.0	1.9	2.5
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	18.6	24.0	21.2
All Other Remaining Causes	7.7	5.7	6.8
<b>Urban</b>			
Cardiovascular diseases	37.4	31.6	34.6
Respiratory infections	12.4	11.2	11.8
Respiratory diseases	6.5	6.6	6.5
Fever of unknown origin	4.6	5.8	5.2
Diabetes mellitus	4.6	5.2	4.9
Malignant and other Neoplasms	4.4	3.8	4.1
Unintentional injuries: Other Than Motor Vehicle Accidents	2.3	3.3	2.8
Genito-urinary diseases	3.3	2.1	2.7
Digestive diseases	2.6	2.1	2.3
Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	15.9	22.5	19.0
All Other Remaining Causes	5.9	6.0	5.9

Note: Ill-defined/All other Symptoms, Signs and Abnormal Clinical and Laboratory Findings Not Elsewhere Classified (NEC) (R00-R99) was not properly diagnosed so it may not be considered as second leading cause group.

**Chart 56 - Top 10 causes of death in Rural Areas for age group 70+ year, 2020-2022 (in %)**



**Chart 57 - Top 10 causes of death in Urban Areas for age group 70+ year, 2020-2022 (in %)**



## CHAPTER 4

### DEATHS DUE TO SPECIFIC MEDICAL CAUSES

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**4.1** This chapter present the statistics relating to percentage proportion of death attributed to specific medical causes for the year 2020-22. The list of specific medical cases includes: Cardiovascular diseases, Malignant and other Neoplasms, Diabetes mellitus, Tuberculosis, Malaria, Maternal conditions and HIV/AIDS. The results have been prepared gender wise, Residence and EAG States & Assam and other States, separately for all age groups and for middle age group i.e 30-69.

**4.2** Table 4.1 shows the proportion of total deaths from specific medical causes for all ages and for adults in middle age (30-69 years) by gender. Cardiovascular disease is the leading cause among these seven conditions, causing about 30.9 percentage proportion of total deaths and 35.8 percentage proportion of deaths in middle age 30-69 years. The second leading cause of deaths, malignant and other neoplasms contributes with 6.0% in all ages and 8.7% in middle age 30-69 years. Proportion of deaths due to diabetes mellitus is similar among female in middle age 30-69 (4.3%) to female of all ages (4.3%). It may be seen that tuberculosis as a cause of death is more prevalent in age 30-69 years with share of 3.0%. The proportion of female deaths due to malaria is similar to males in the age 30-69 years.

**Table 4.1 – Percentage Proportion of deaths from specific medical causes  
in India: 2020-2022**

Cause of Death	Male	Female	Person
<b>All Ages</b>			
Cardiovascular diseases	32.4	28.9	30.9
Malignant and other Neoplasms	5.7	6.4	6.0
Diabetes mellitus	3.3	4.3	3.7
Tuberculosis	2.7	2.0	2.4
Malaria	0.1	0.1	0.1
Maternal conditions	-	0.5	-
HIV/AIDS	0.1	0.1	0.1
<b>Ages 30 – 69</b>			
Cardiovascular diseases	34.2	31.2	35.8
Malignant and other Neoplasms	7.2	12.2	8.7
Diabetes mellitus	3.1	4.3	4.2
Tuberculosis	3.4	3.0	3.0
Malaria	0.1	0.1	0.1
Maternal conditions	-	0.8	-
HIV/AIDS	0.2	0.3	0.2

**4.3** Table 4.2 highlights the distribution of deaths due to seven specific medical causes in EAG States & Assam and Other States. The proportion of deaths due to cardiovascular diseases is higher in other States as compared to EAG States & Assam in both all age groups and for age 30-69. The proportion of deaths due to Malaria in EAG states & Assam is twice of its value for other states, for all ages. Whereas for middle age 30-69 years, the proportion of deaths due to HIV/AIDS in Other States is higher than EAG States & Assam.

**Table 4.2 – Percentage Proportion of deaths from specific medical causes in EAG States & Assam and Other States: 2020-2022**

Cause of Death	EAG States & Assam			Other States		
	Male	Female	Person	Male	Female	Person
<b>All Ages</b>						
Cardiovascular diseases	27.3	24.1	26.0	35.0	31.4	33.5
Malignant and other Neoplasms	4.9	5.2	5.0	6.1	7.0	6.5
Diabetes mellitus	2.7	3.1	2.8	3.7	4.9	4.2
Tuberculosis	3.5	2.7	3.2	2.2	1.6	1.9
Malaria	0.2	0.2	0.2	0.1	0.1	0.1
Maternal conditions	-	0.8	-	-	0.3	-
HIV/AIDS	0.1	0.1	0.1	0.1	0.1	0.1
<b>Ages 30 – 69</b>						
Cardiovascular diseases	30.4	28.5	31.8	36.0	32.6	37.8
Malignant and other Neoplasms	6.8	10.0	7.6	7.4	13.4	9.2
Diabetes mellitus	2.7	3.9	3.5	3.3	4.5	4.5
Tuberculosis	4.7	3.9	4.2	2.7	2.5	2.4
Malaria	0.3	0.2	0.2	0.1	0.1	0.1
Maternal conditions	-	1.2	-	-	0.6	-
HIV/AIDS	0.2	0.1	0.1	0.2	0.4	0.2

**4.4** Table 4.3 shows the distribution of proportion of deaths due to seven specific medical causes in rural and urban area for period of 2020-2022. Share of deaths due to cardiovascular diseases is higher among the middle age group 30-69 years as compared to all ages in both rural and urban area. The proportion of deaths due to HIV/AIDS in middle age group 30-69 years is lower for urban area than its share in rural areas.

**Table 4.3 – Percentage Proportion of deaths from specific medical causes  
in Rural & Urban Areas: 2020-2022**

Cause of Death	Rural (in %)			Urban (in %)		
	Male	Female	Person	Male	Female	Person
<b>All Ages</b>						
Cardiovascular diseases	31.2	28.1	29.9	36.3	31.6	34.4
Malignant and other Neoplasms	5.6	6.3	5.9	6.0	6.8	6.4
Diabetes mellitus	3.2	4.0	3.5	3.8	5.3	4.4
Tuberculosis	2.8	2.1	2.5	2.2	1.6	2.0
Malaria	0.1	0.1	0.1	0.1	0.1	0.1
Maternal conditions	-	0.5	-	-	0.5	-
HIV/AIDS	0.1	0.1	0.1	0.1	0.1	0.1
<b>Ages 30 – 69</b>						
Cardiovascular diseases	33.4	30.5	35.0	36.6	33.1	38.4
Malignant and other Neoplasms	7.2	12.5	8.7	7.3	11.6	8.5
Diabetes mellitus	3.1	4.1	4.0	3.3	5.0	4.7
Tuberculosis	3.5	3.2	3.2	2.9	2.2	2.4
Malaria	0.1	0.1	0.1	0.1	0.1	0.1
Maternal conditions	-	0.8	-	-	0.8	-
HIV/AIDS	0.3	0.4	0.2	0.1	0.1	0.1

## CHAPTER 5

### Region-wise Top 10 Causes of Death

**5.1** This chapter present the statistics on region-wise top ten causes of death for the year 2020-22. In this regard, the country has been divided into six regions which are as below:

- i. North region includes Chandigarh, Delhi, Haryana, Himachal Pradesh, Jammu & Kashmir, Punjab and Uttarakhand
- ii. North-East region includes Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura
- iii. East region includes Bihar, Jharkhand, Odisha and West Bengal
- iv. Central region includes Chhattisgarh, Madhya Pradesh, Rajasthan and Uttar Pradesh
- v. West region includes Dadra & Nagar Haveli, Daman & Diu, Goa, Gujarat and Maharashtra
- vi. South region includes Andhra Pradesh, Andaman & Nicobar Islands, Karnataka, Kerala, Lakshadweep, Puducherry, Tamil Nadu and Telangana

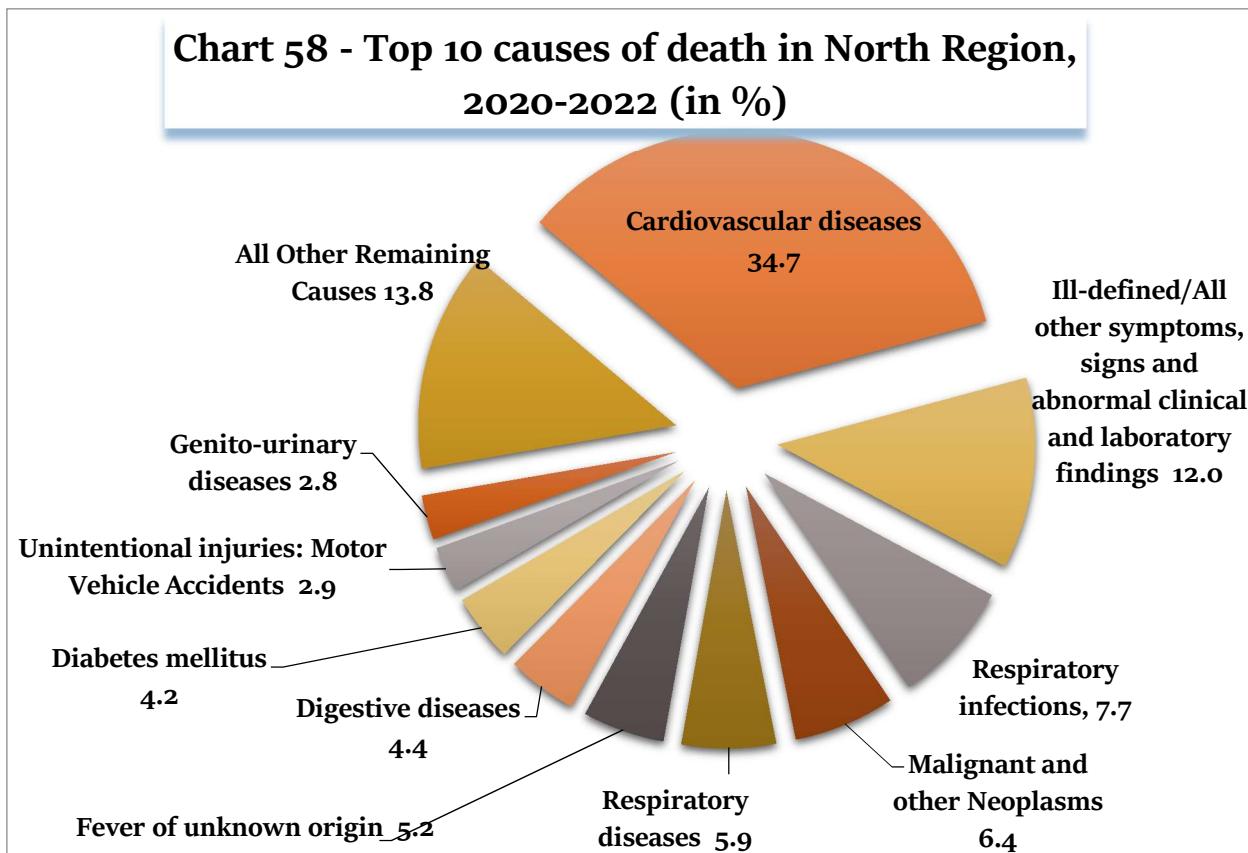
Further, the distribution of deaths percentage proportion by Age and Gender in all the above-mentioned regions is also presented for the year 2020-2022.

**5.2.1** Table 5.1A shows the top 10 causes of death in the North region of the country for period of 2020-2022. The leading cause of deaths, which is cardiovascular diseases contributes 34.7 percentage proportion of total deaths in north region followed by Respiratory infections (7.7%). The proportion of female deaths due to Respiratory infections (8.2%), Malignant & other neoplasm (6.5%), Respiratory diseases (6.1%), Fever of unknown origin (6.2%) and Diabetes mellitus (5.6%) is higher as compared to male deaths. The share of male deaths is higher than female deaths due to Digestive diseases (5.5%), Unintentional injuries: Motor Vehicle Accidents (3.8%) and Genito-urinary diseases (2.8%) as compared to female deaths in north region.

**Table - 5.1A: Top 10 Causes of Death in North region: 2020-2022**

Rank	Cause of Death	% Proportion of Deaths		
		Male	Female	Person
1	Cardiovascular diseases	36.2	32.4	34.7
2	Respiratory infections	7.4	8.2	7.7
3	Malignant and other Neoplasms	6.3	6.5	6.4
4	Respiratory diseases	5.8	6.1	5.9
5	Fever of unknown origin	4.5	6.2	5.2
6	Digestive diseases	5.5	2.9	4.4
7	Diabetes mellitus	3.3	5.6	4.2
8	Unintentional injuries: Motor Vehicle Accidents	3.8	1.4	2.9
9	Genito-urinary diseases	3.1	2.4	2.8
10	Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	10.2	14.7	12.0
	All Other Remaining Causes	13.9	13.6	13.8

Note: Symptoms, Signs and Abnormal Clinical and Laboratory Findings Not Elsewhere Classified (NEC) (R00-R99) was not properly diagnosed so it may not be considered as second leading cause group.



**5.2.2** Table 5.1B shows the top 10 causes of death in North-East region of the country for period of 2020-2022. The leading cause of deaths, which is cardiovascular diseases contributes 28.2 percentage proportion of total death in North-East region followed by digestive diseases (9.9%)

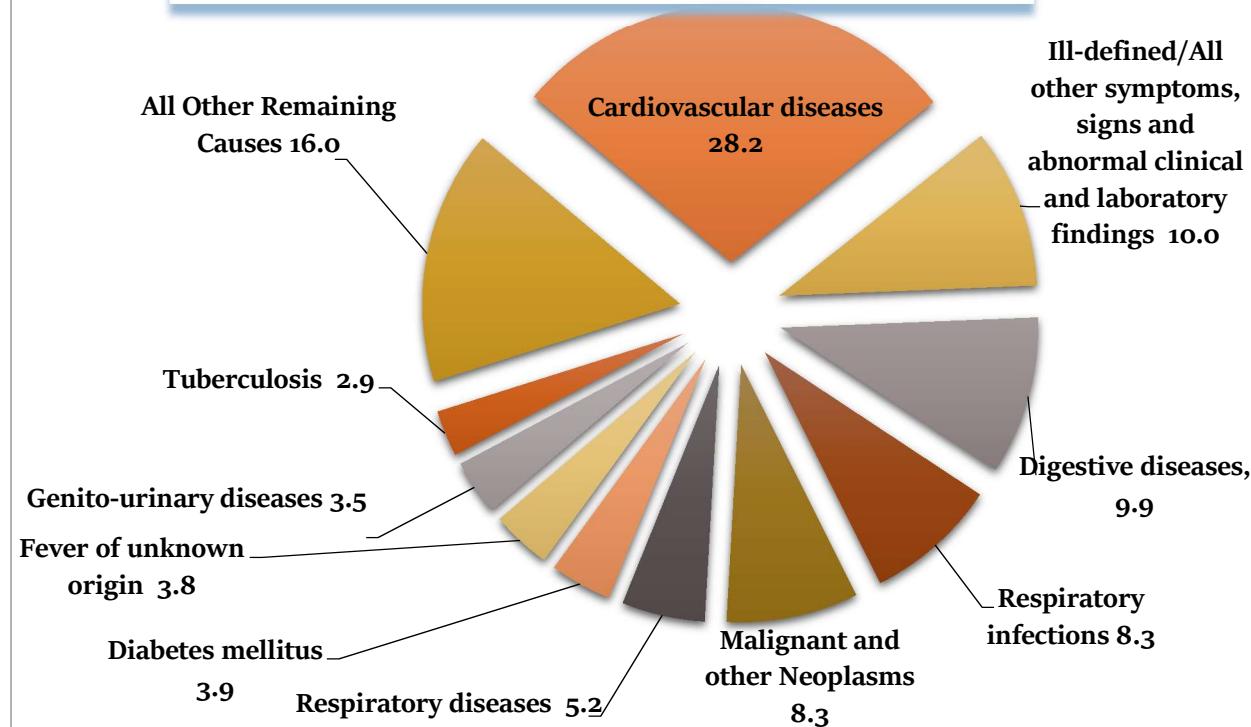
where proportion of male deaths (12.2%) is higher than female deaths (6.1%). The proportion of female deaths (9.2%) due to Respiratory infections is higher as compared to male deaths (7.8%).

**Table - 5.1B: Top 10 Causes of Death in North-East region: 2020-2022**

Rank	Cause of Death	% Proportion of Deaths		
		Male	Female	Person
1	Cardiovascular diseases	28.8	27.2	28.2
2	Digestive diseases	12.2	6.1	9.9
3	Respiratory infections	7.8	9.2	8.3
4	Malignant and other Neoplasms	8.2	8.4	8.3
5	Respiratory diseases	5.0	5.6	5.2
6	Diabetes mellitus	3.8	3.9	3.9
7	Fever of unknown origin	3.2	4.6	3.8
8	Genito-urinary diseases	3.3	3.8	3.5
9	Tuberculosis	3.1	2.5	2.9
10	Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	8.7	12.2	10.0
	All Other Remaining Causes	15.7	16.4	16.0

Note: Ill-defined/All other Symptoms, Signs and Abnormal Clinical and Laboratory Findings Not Elsewhere Classified (NEC) (R00-R99) was not properly diagnoses so it may not be considered as second leading cause group.

**Chart 59 - Top 10 causes of death in North-East Region, 2020-2022 (in %)**



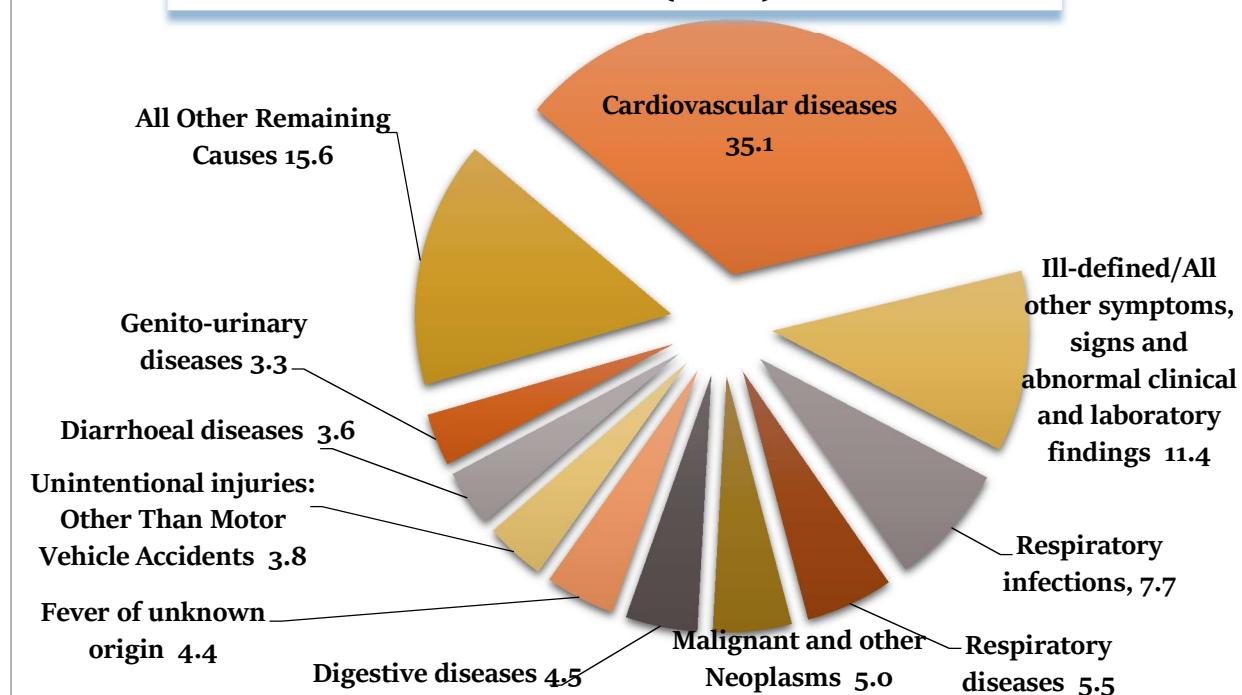
**5.2.3** Table 5.1C shows the top 10 causes of deaths in East region of the country for period of 2020-2022. The leading cause of deaths, which is cardiovascular diseases contributes 35.1 percentage proportion of total deaths in east region followed by Respiratory infections (7.7%). For Respiratory diseases, Malignant & other neoplasm, Fever of unknown origin and Diarrhoeal diseases, proportion of female deaths is higher than male deaths.

**Table - 5.1C: Top 10 Causes of Death in East region: 2020-2022**

Rank	Cause of Death	% Proportion of Deaths		
		Male	Female	Person
1	Cardiovascular diseases	36.0	34.0	35.1
2	Respiratory infections	7.7	7.7	7.7
3	Respiratory diseases	5.2	5.9	5.5
4	Malignant and other Neoplasms	4.8	5.2	5.0
5	Digestive diseases	5.1	3.8	4.5
6	Fever of unknown origin	3.9	5.1	4.4
7	Unintentional injuries: Other Than Motor Vehicle Accidents	4.0	3.6	3.8
8	Diarrhoeal diseases	3.1	4.2	3.6
9	Genito-urinary diseases	3.6	2.9	3.3
10	Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	10.3	12.8	11.4
	All Other Remaining Causes	16.2	14.8	15.6

Note: Symptoms, Signs and Abnormal Clinical and Laboratory Findings Not Elsewhere Classified (NEC) (R00-R99) was not properly diagnoses so it may not be considered as second leading cause group.

**Chart 6o - Top 10 causes of death in East Region, 2020-2022 (in %)**

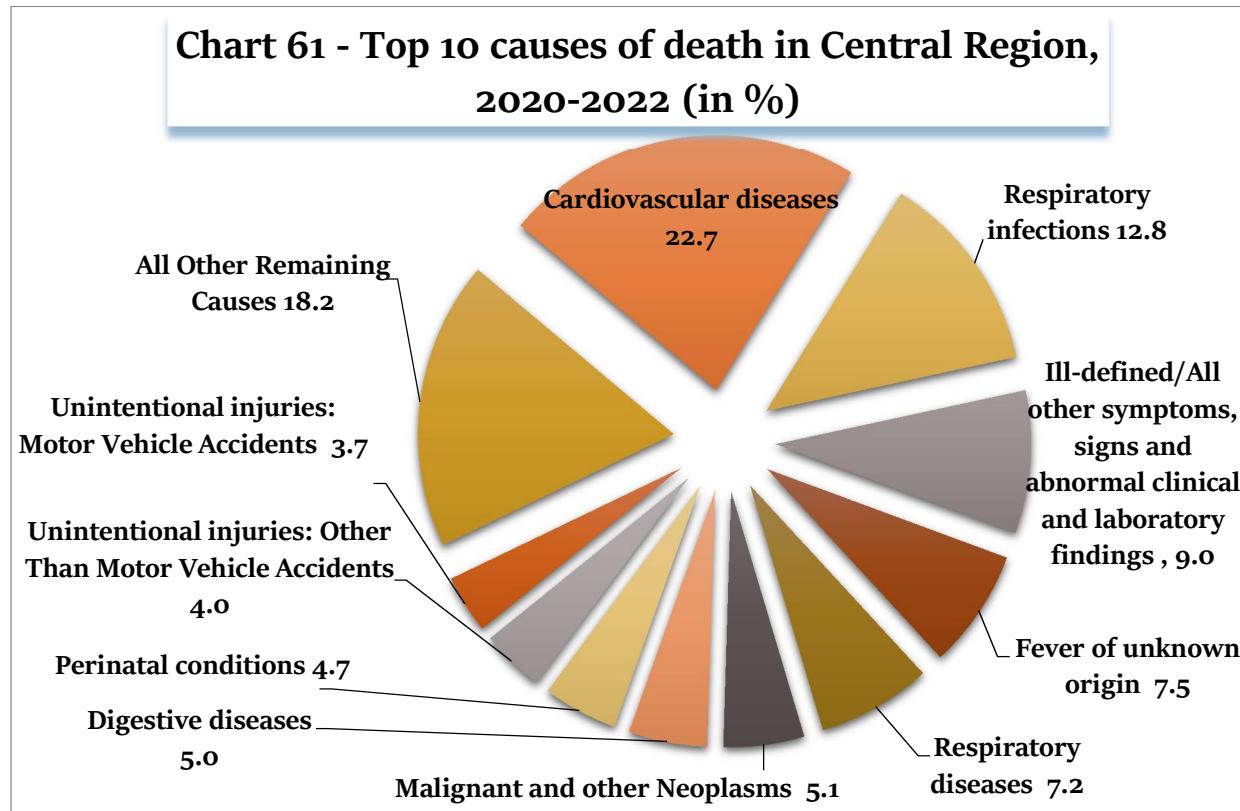


**5.2.4** Table 5.1D shows the top 10 causes of death in Central region of the country for period of 2020-2022. The leading cause of deaths, which is cardiovascular diseases contributes 22.7 percentage proportion of total deaths in central region followed by respiratory infections (12.8%) where contribution of female deaths (13.9%) is higher than male deaths (12.0%).

**Table - 5.1D: Top 10 Causes of Death in Central Region: 2020-2022**

Rank	Cause of Death	% Proportion of Deaths		
		Male	Female	Person
1	Cardiovascular diseases	24.4	20.3	22.7
2	Respiratory infections	12.0	13.9	12.8
3	Fever of unknown origin	6.6	8.9	7.5
4	Respiratory diseases	7.2	7.3	7.2
5	Malignant and other Neoplasms	5.0	5.2	5.1
6	Digestive diseases	5.7	3.9	5.0
7	Perinatal conditions	4.5	5.0	4.7
8	Unintentional injuries: Other Than Motor Vehicle Accidents	4.2	3.8	4.0
9	Unintentional injuries: Motor Vehicle Accidents	5.2	1.5	3.7
10	Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	7.7	10.9	9.0
	All Other Remaining Causes	17.5	19.4	18.2

Note: Ill-defined/All other symptoms, Signs and Abnormal Clinical and Laboratory Findings Not Elsewhere Classified (NEC) (R00-R99) was not properly diagnoses so it may not be considered as second leading cause group.



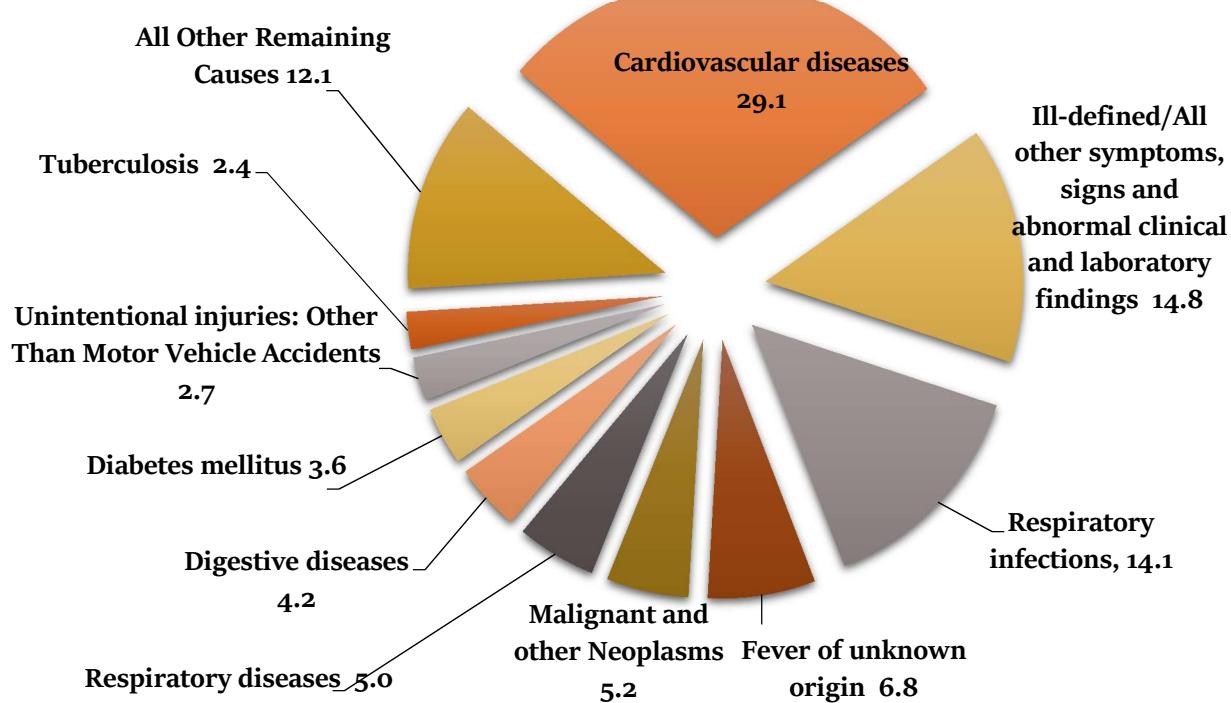
**5.2.5** Table 5.1E shows the top 10 causes of deaths in West region of the country for period of 2020-2022. The leading cause of deaths, which is cardiovascular diseases contributes, 29.1 percentage proportion of total deaths in West region followed by Respiratory infections (14.1%) where contribution of female deaths (14.4%) is higher than male deaths (13.9%).

**Table - 5.1E: Top 10 Causes of Death in West Region: 2020-2022**

Rank	Cause of Death	% Proportion of Deaths		
		Male	Female	Person
1	Cardiovascular diseases	30.8	26.7	29.1
2	Respiratory infections	13.9	14.4	14.1
3	Fever of unknown origin	5.5	8.6	6.8
4	Malignant and other Neoplasms	5.0	5.5	5.2
5	Respiratory diseases	4.8	5.3	5.0
6	Digestive diseases	5.7	2.0	4.2
7	Diabetes mellitus	3.5	3.9	3.6
8	Unintentional injuries: Other Than Motor Vehicle Accidents	2.8	2.7	2.7
9	Tuberculosis	2.6	2.0	2.4
10	Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	12.7	17.9	14.8
	All Other Remaining Causes	12.8	11.1	12.1

Note: Symptoms, Signs and Abnormal Clinical and Laboratory Findings Not Elsewhere Classified (NEC) (R00-R99) was not properly diagnoses so it may not be considered as second leading cause group.

**Chart 62 - Top 10 causes of death in West Region, 2020-2022 (in %)**



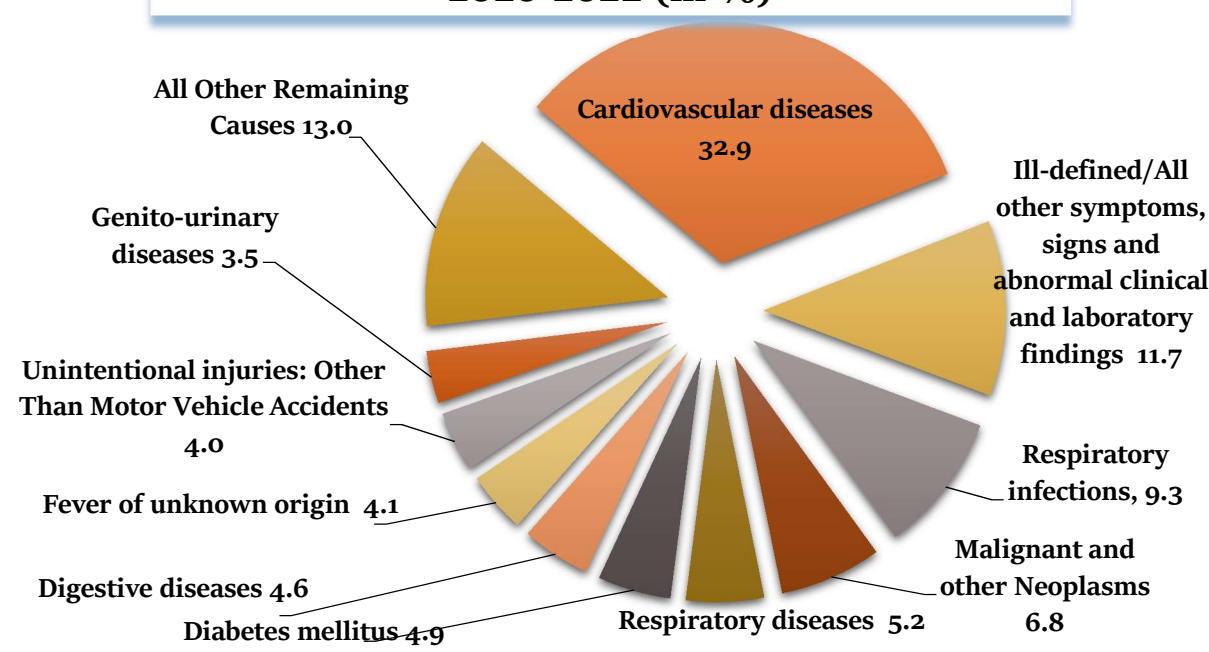
**5.2.6** Table 5.1F shows the top 10 causes of death in South region of the country for period of 2020-2022. The leading cause of deaths, which is cardiovascular diseases contributes, 32.9 percentage proportion of total death in south region followed by respiratory infections (9.3%) where contribution of female deaths (9.5%) is approximately similar to male deaths (9.2%). The proportion of female deaths due to Malignant & other Neoplasms (7.9%), respiratory diseases (5.8%) and Diabetes Mellitus (5.8%) is higher when compared with proportion of male deaths due to Malignant & other Neoplasms (6.1%), Diabetes Mellitus (4.2%) and respiratory diseases (4.8%).

**Table - 5.1F: Top 10 Causes of Death by Age and Gender in South Region: 2020-2022**

Rank	Cause of Death	% Proportion of Deaths		
		Male	Female	Person
1	Cardiovascular diseases	34.7	30.3	32.9
2	Respiratory infections	9.2	9.5	9.3
3	Malignant and other Neoplasms	6.1	7.9	6.8
4	Respiratory diseases	4.8	5.8	5.2
5	Diabetes mellitus	4.2	5.8	4.9
6	Digestive diseases	6.2	2.4	4.6
7	Fever of unknown origin	3.6	4.8	4.1
8	Unintentional injuries: Other Than Motor Vehicle Accidents	4.0	4.1	4.0
9	Genito-urinary diseases	3.9	2.9	3.5
10	Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	8.9	15.6	11.7
	All Other Remaining Causes	14.4	11.0	13.0

Note: Symptoms, Signs and Abnormal Clinical and Laboratory Findings Not Elsewhere Classified (NEC) (R00-R99) was not properly diagnoses so it may not be considered as second leading cause group.

**Chart 63 - Top 10 causes of death in South Region, 2020-2022 (in %)**

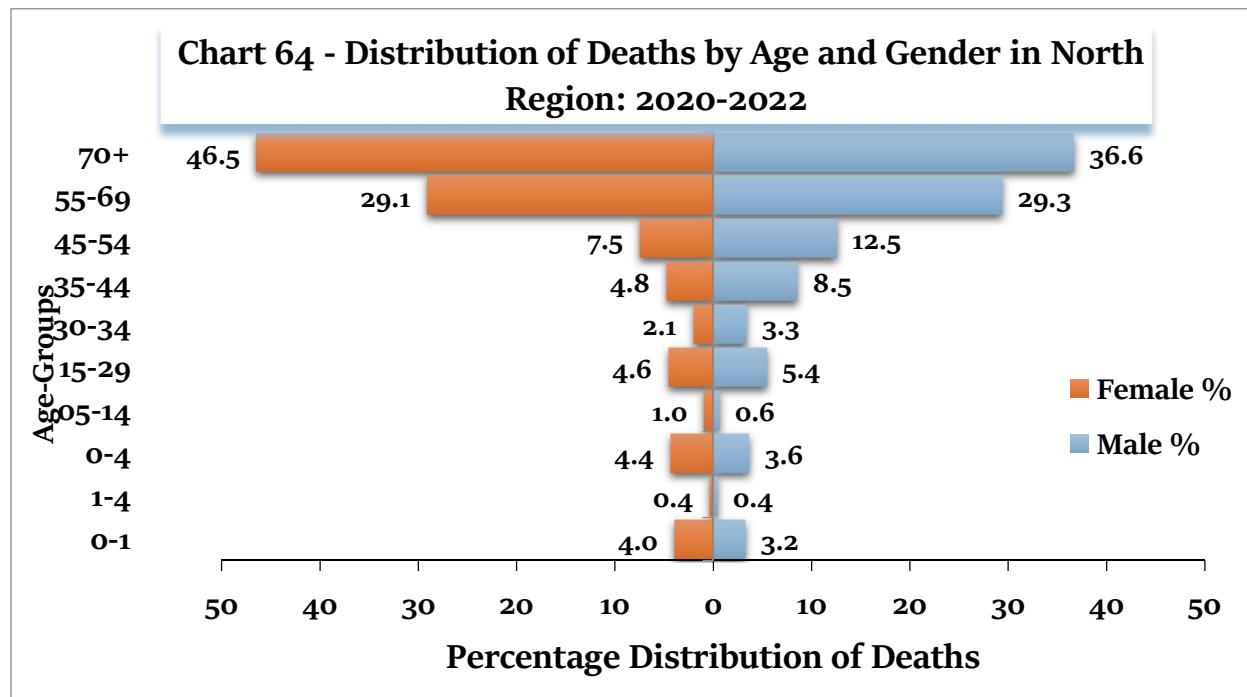


**5.3.1** Table 5.2A shows distribution of deaths in different age groups in north region for year 2020-2022. Share of deaths of age group 70+ years to total deaths is higher as rate of mortality is increasing with age. Moreover, proportion of female death (46.5%) in old age (70+ years) is higher than male deaths (36.6%). Proportion of male death (3.6%) in infant is lower than proportion of female deaths (4.4%), the proportion of deaths of female in age group 1-4 years (0.4%) is equal to the proportion of male deaths (0.4%).

**Table - 5.2A: Distribution of Deaths by Age and Gender in North Region: 2020-2022**

Age- Group	Male	Male %	Female	Female %	Person	Person %
0-1	442	3.2	366	4.0	808	3.5
1-4	58	0.4	37	0.4	95	0.4
0-4	500	3.6	403	4.4	903	3.9
05-14	83	0.6	91	1.0	174	0.8
15-29	746	5.4	425	4.6	1171	5.1
30-34	458	3.3	190	2.1	648	2.8
35-44	1169	8.5	441	4.8	1610	7.0
45-54	1723	12.5	692	7.5	2415	10.5
55-69	4033	29.3	2682	29.1	6715	29.3
70+	5036	36.6	4282	46.5	9318	40.6

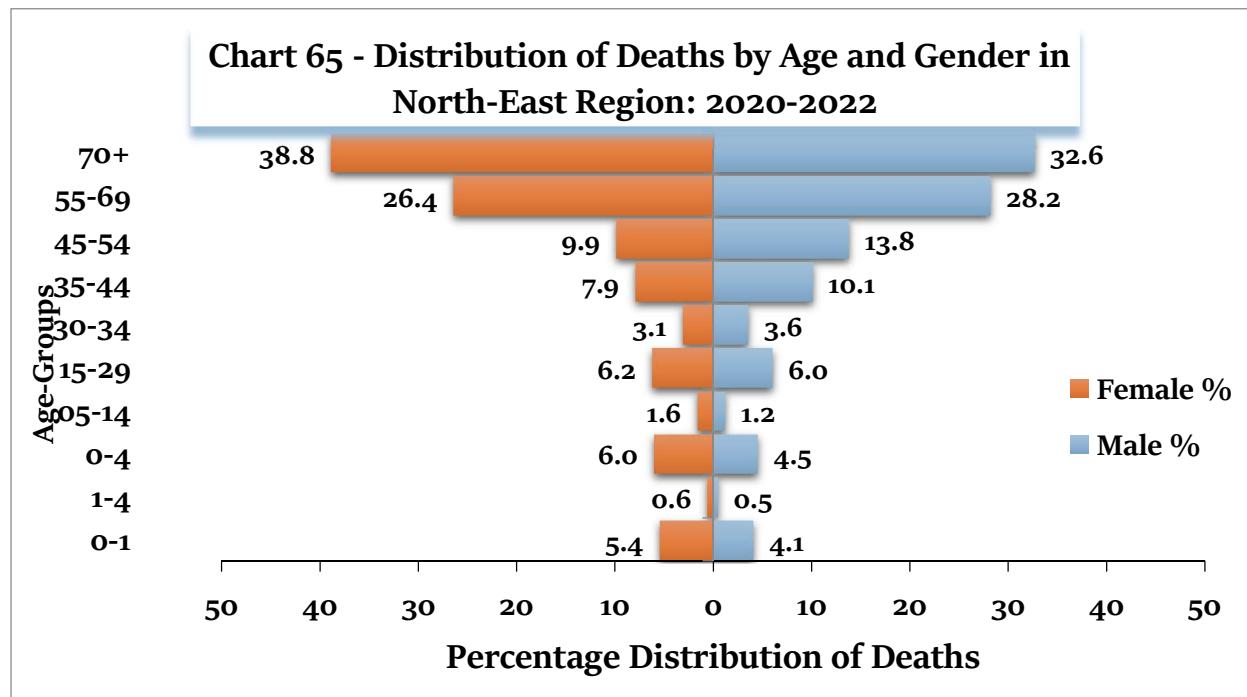
Note: North region includes Chandigarh, Delhi, Haryana, Himachal Pradesh, Jammu & Kashmir, Punjab and Uttarakhand



**5.3.2** Table 5.2B shows distribution of deaths in different age group in north-east region for year 2020-2022. The share of deaths of age group 70+ years to total deaths is higher. Also, proportion of female death (38.8%) in old age (70+ years) is higher than male deaths (32.6%). Contribution of female deaths (6.0%) in infant is more than that of male deaths (4.5%), whereas the deaths of male in age groups 30-34 years (3.6%), 35-44 years (10.1%), 45-54 years (13.8%) and 55-69 years (28.2%) are higher than female deaths.

**Table - 5.2B: Distribution of Deaths by Age and Gender in North –East region: 2020-2022**

Age-Group	Male	Male %	Female	Female %	Person	Person %
0-1	267	4.1	218	5.4	485	4.6
1-4	31	0.5	25	0.6	56	0.5
0-4	298	4.5	243	6.0	541	5.1
05-14	77	1.2	65	1.6	142	1.3
15-29	396	6.0	249	6.2	645	6.1
30-34	234	3.6	125	3.1	359	3.4
35-44	661	10.1	318	7.9	979	9.3
45-54	903	13.8	396	9.9	1299	12.3
55-69	1845	28.2	1062	26.4	2907	27.5
70+	2137	32.6	1561	38.8	3698	35.0

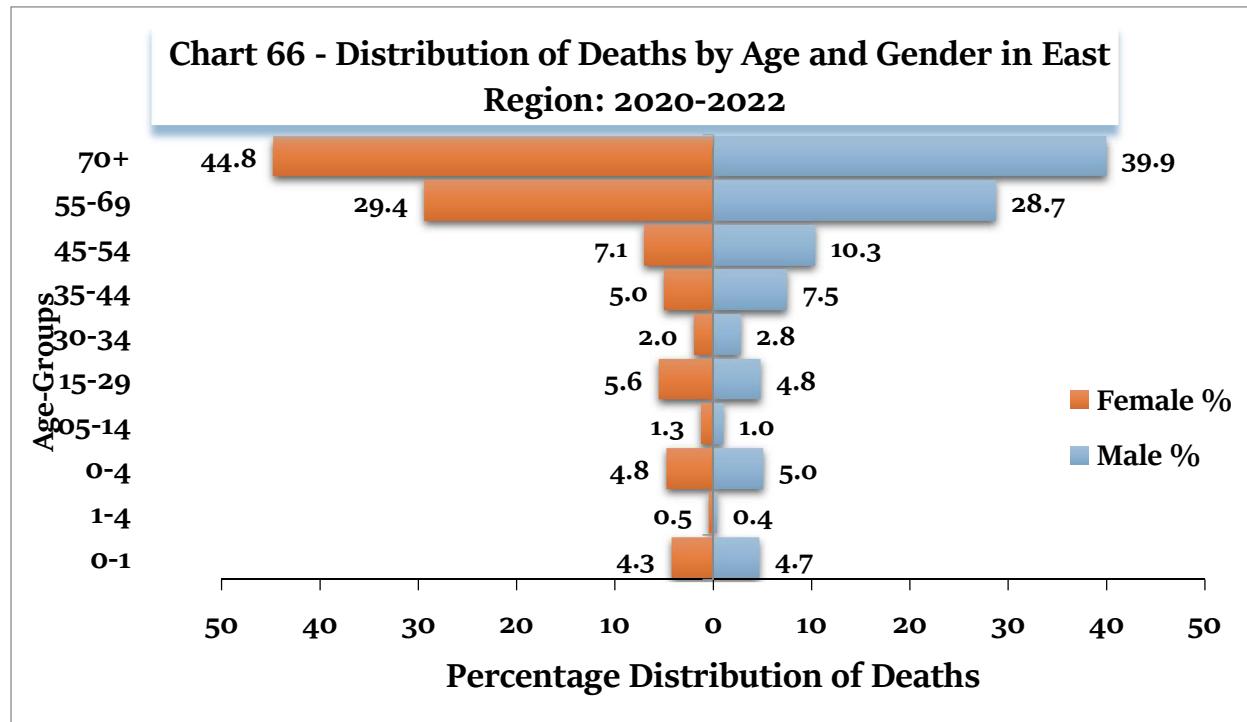


**5.3.3.** Table 5.2C shows distribution of deaths in different age group in east region for year 2020-2022. The share of deaths of age group 70+ years to total deaths is higher. Also, proportion of female death (44.8%) in old age (70+ years) is higher than male deaths (39.9%). Proportion of male death (5.0%) in infant is marginally higher than proportion of female deaths (4.8%). It is

observed that there is staggering difference in proportion of deaths between female deaths (7.1%) and male deaths (10.3%) in age group 45-54 years.

**Table - 5.2C: Distribution of Deaths by Age and Gender in East Region: 2020-22**

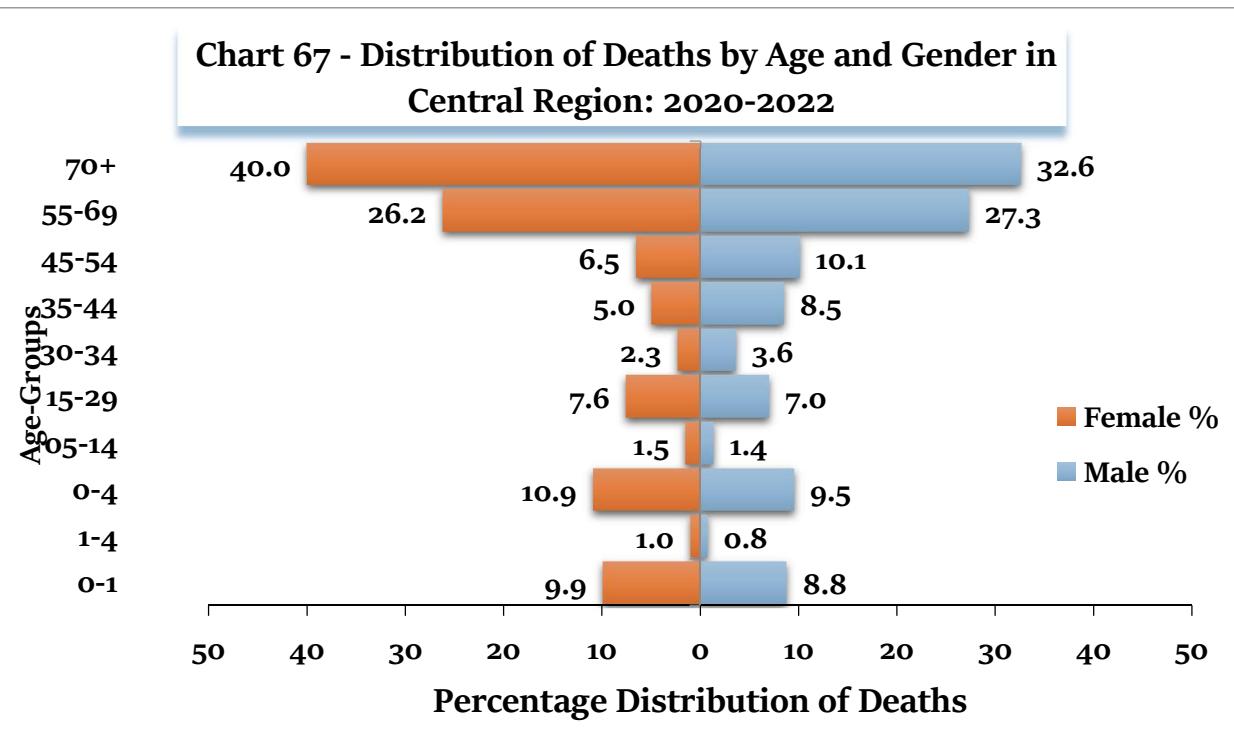
Class Interval	Male	Male %	Female	Female %	Person	Person %
0-1	715	4.7	500	4.3	1215	4.5
1-4	59	0.4	61	0.5	120	0.4
0-4	774	5.0	561	4.8	1335	4.9
05-14	157	1.0	151	1.3	308	1.1
15-29	736	4.8	653	5.6	1389	5.1
30-34	422	2.8	234	2.0	656	2.4
35-44	1145	7.5	586	5.0	1731	6.4
45-54	1586	10.3	828	7.1	2414	8.9
55-69	4395	28.7	3434	29.4	7829	29.0
70+	6120	39.9	5230	44.8	11350	42.0



**5.3.4** Table 5.2D shows distribution of deaths in different age group in Central region for year 2020-2022. The proportion of female death (40.0%) in old age (70+ years) is higher than male deaths (32.6%). Proportion of male death in the age groups 35-44 years (8.5%) and 45-54 years (10.1%) is quite higher than proportion of female deaths in the corresponding age groups.

**Table - 5.2D: Distribution of Deaths by Age and Gender in Central region: 2020-2022**

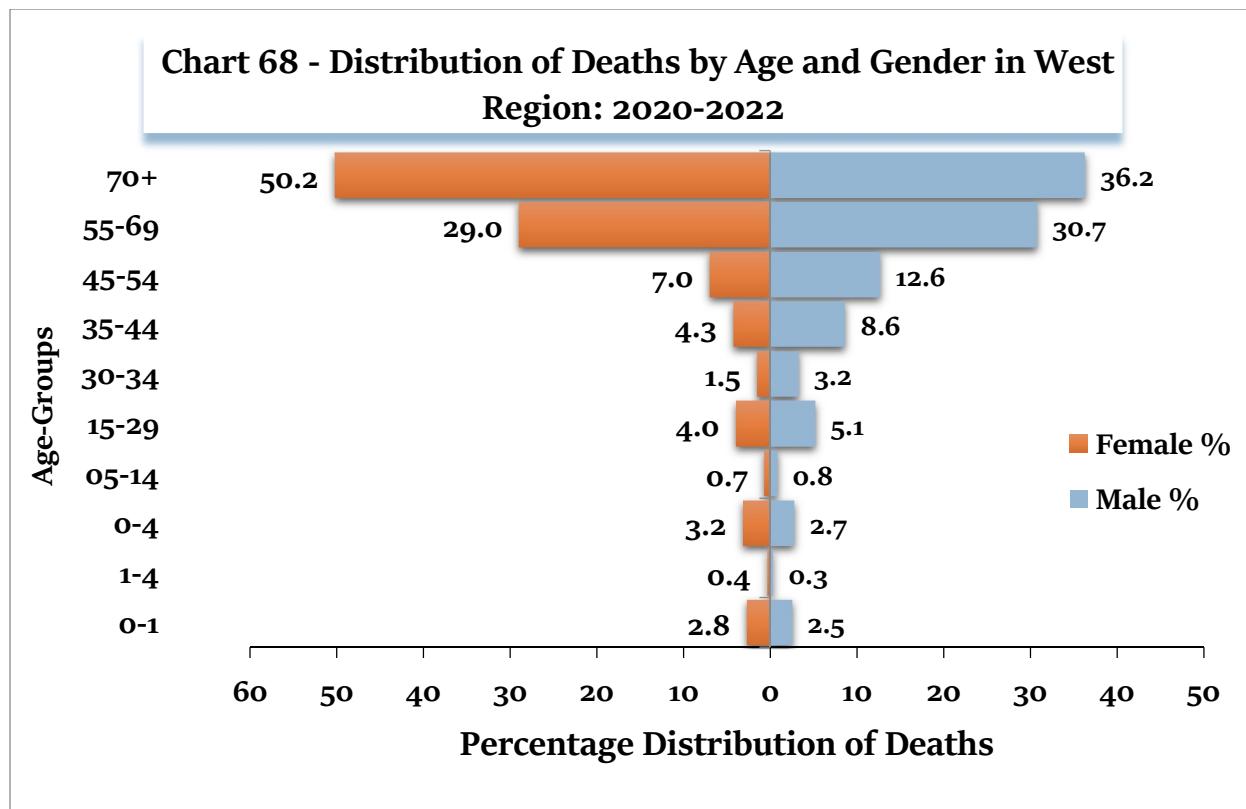
Age-Group	Male	Male %	Female	Female %	Person	Person %
0-1	1365	8.8	1074	9.9	2439	9.2
1-4	118	0.8	109	1.0	227	0.9
0-4	1483	9.5	1183	10.9	2666	10.1
05-14	212	1.4	165	1.5	377	1.4
15-29	1091	7.0	819	7.6	1910	7.2
30-34	560	3.6	249	2.3	809	3.1
35-44	1326	8.5	537	5.0	1863	7.1
45-54	1572	10.1	708	6.5	2280	8.6
55-69	4255	27.3	2838	26.2	7093	26.9
70+	5071	32.6	4330	40.0	9401	35.6



**5.3.5** Table 5.2E shows distribution of deaths in different age group in Western region for year 2020-2022. The proportion of female deaths (50.2%) in old age (70+ years) is higher than male deaths (36.2%). Proportion of female deaths (3.2%) in infant is higher than that of proportion of male deaths (2.7%). Proportion of male death in the age groups 35-44 years (8.6%) and 45-54 years (12.6%) is quite higher than proportion of female deaths in the corresponding age groups.

**Table - 5.2E: Distribution of Deaths by Age and Gender in West Region: 2020-2022**

Age-Group	Male	Male %	Female	Female %	Person	Person %
0-1	315	2.5	241	2.8	556	2.6
1-4	36	0.3	35	0.4	71	0.3
0-4	351	2.7	276	3.2	627	2.9
05-14	98	0.8	65	0.7	163	0.8
15-29	659	5.1	353	4.0	1012	4.7
30-34	415	3.2	135	1.5	550	2.6
35-44	1097	8.6	373	4.3	1470	6.8
45-54	1614	12.6	614	7.0	2228	10.3
55-69	3927	30.7	2534	29.0	6461	30.0
70+	4636	36.2	4391	50.2	9027	41.9

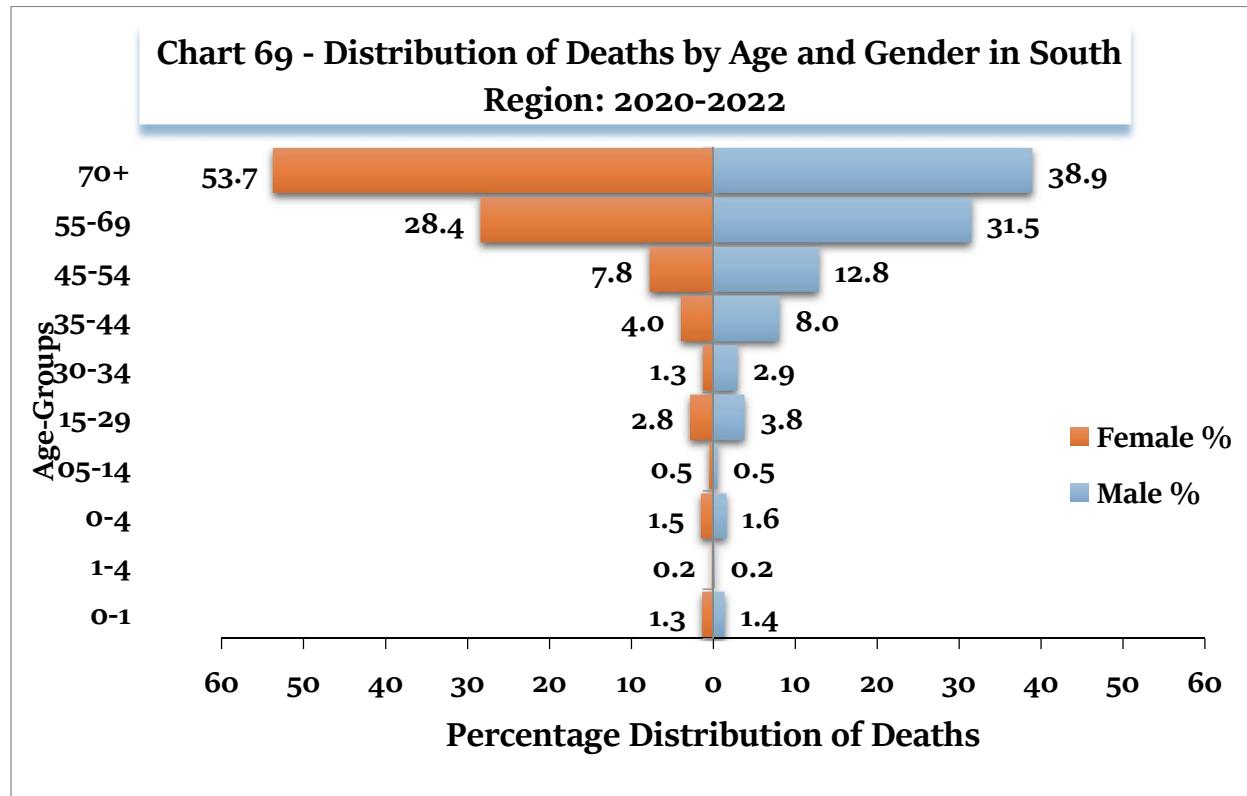


**5.3.6** Table 5.2F shows distribution of deaths in different age group in South region for year 2020-2022. The share of female deaths of age group 70+ years is higher than all other female age-groups. Proportion of male deaths (1.6%) in infant deaths is marginally higher than female deaths (1.5%). Proportion of male death in the age groups 15-29 years (3.8%), 30-34 years (2.9%), 35-44

years (8.0%) and 45-54 years (12.8%) is quite higher than proportion of female deaths in the corresponding age groups.

**Table - 5.2F: Distribution of Deaths by Age and Gender in South Region: 2020-2022**

Age-Group	Male	Male %	Female	Female %	Person	Person %
0-1	344	1.4	240	1.3	584	1.4
1-4	48	0.2	34	0.2	82	0.2
0-4	392	1.6	274	1.5	666	1.6
05-14	124	0.5	97	0.5	221	0.5
15-29	955	3.8	507	2.8	1462	3.4
30-34	723	2.9	226	1.3	949	2.2
35-44	2010	8.0	713	4.0	2723	6.3
45-54	3212	12.8	1401	7.8	4613	10.7
55-69	7868	31.5	5095	28.4	12963	30.2
70+	9727	38.9	9631	53.7	19358	45.1



**ANNEXURE - I**

**Neonatal Classification (Deaths in Age 0- 28 Days)**

<b>Main Group</b>	<b>Sub-Group</b>	<b>Disease</b>	<b>ICD 10 Range</b>
Communicable, perinatal and nutritional conditions	Neonatal infection	Neonatal pneumonia	A37, H65-H68, H70, H71, J00-J22, J32, J36, J85, J86, P23, U04
		Sepsis	A20-A28, A32, A38, A40-A44, A46, A48, A49, A68-A70, A74, A75, A77-A79, B95, B96, H10, H60, I30, I32-I133, I39-I41, K65, K67, K81, L00-L04, L08, M00-M01, M60, M86, N10, N30, N34, N41, N49, N61, P35-P39
		Meningitis/encephalitis	A39, A81-A89, G00-G09
	Other communicable Diseases	Diarrhoeal diseases	A00-A09
		Tetanus	A33-A35
		Poliomyelitis	A80, B91
		Measles	B01, B05
		Malaria	B50-B54
		Other infectious and parasitic diseases	A15-A19, A30-A31, A36, A50-A67, A71, A90-A99, B00, B02-B04, B06-B09, B15-B27, B30, B33-B49, B55-B60, B64-B83, B85-B90, B92, B94, B97, B99, J65, K04, K05, K61, N70-N74, R75, U00, Y95
	Perinatal conditions	Fever of unknown origin	R50
		Prematurity & low birth weight	P01, P05, P07, P22, P25-P28, P52, P61, P77, R04
		Birth asphyxia & birth trauma	P00, P02, P03, P10-P15, P20, P21, P24, P29, P50, P90, P91
	Other conditions	Congenital anomalies	G10-G99, Q00-Q99
		Nutritional diseases	D50-D53, E00-E02, E40-E46, E50-E56, E59-E61, E63, E64, X53-X54,
Non-Communicable Diseases	Other Non-Communicable Diseases	Other Non-Communicable Diseases	C00-C97, D01-D48, D55-D89, E03-E35, E65-E90, F00-F99, H00-H06, H11-H59, H61-H62, H69, H72-H95, I00-I28, I31, I34-I38, I42-I99, J30, J31, J33-J35, J37-J47, J60, J64, J66-J70, J80-J82, J84, J90-J99, K00-K03, K06-K60, K62-K63, K70-K80, K82-K93, L05, L10-L99, M02-M54, M61-M85, M87-M99, N00-N08, N11-N29, N31-N33, N35-N40, N42-N48, N50-N51, N60, N62-N64, N75-N99, P04, P08, P51, P53-P60, P70-P72, P74-P76, P78, P80-P83, P92-P94, R00, R01, R03, R05, R06, R11-R23, R26, R27, R29-R36, R39-R49, R55, R56, R59, R63, R70-R74, R76-R77, R80-R82, R84-R87, R90, R91
Injuries	Injuries	Injuries	S00-S99, T00-98, V01-V99, W00-W99, X00-X52, X57-X99, Y00-Y91, Y97-Y98
Ill-defined conditions	Ill-defined or cause unknown	Ill-defined or cause unknown	P96, R02, R07, R09, R10, R25, R51-R54, R57-R58, R60-R62, R64, R68, R69, R78, R79, R83, R89, R92-R99

**ANNEXURE - II**

**Child Classification (Deaths in age 1–59 months)**

<b>Main Group</b>	<b>Sub-Group</b>	<b>Disease</b>	<b>ICD 10 Range</b>
Communicable, perinatal and nutritional conditions	Early Childhood infections	Pneumonia	A37, H65-H68, H70, H71, J00-J22, J32, J36, J85, J86, P23, U04
		Acute bacterial sepsis & severe infections	A20-A28, A32, A38, A40-A44, A46, A48, A49, A68-A70, A74, A75, A77-A79, B95, B96, H10, H60, I30, I32, I33, I39-I41, K65, K67, K81, L00-L04, L08, MOO-M01, M60, M86, N10, N30, N34, N41, N49, N61, P36, P38
		Meningitis/encephalitis	A39, A81-A89, G00-G09,
	Other communicable Diseases	Diarrhoeal diseases	A00-A09
		Tuberculosis	A15-A19, B90, J65
		Tetanus	A33-A35
		Poliomyelitis	A80, B91
		Measles	B01, B05
		HIV/AIDS	B20-B24, R75
		Malaria	B50-B54
		Other infectious and parasitic diseases	A30, A31, A36, A50-A67, A71, A90-A99, B00, B02-B04, B06-B09, B15-B19, B25-827, B30, B33-B49, B55-B60, B64-B83,B85-B89, B92, B94, B97, B99, K02, K04, K05, K61, N70-N74, P35, P37, P39, U00, Y95
	Perinatal conditions	Fever of unknown origin	R50
		Prematurity & low birth weight	P01, P05, P07, P22, P25-P28, P52, P61, P77
	Other conditions	Birth asphyxia & birth trauma	P00, P02, P03, P10-P15, P20, P21, P24, P29, P50, P90, P91
		Nutritional diseases	D50-D53, E00-E02, E40-E46, E50-E56, E59-E61, E63, E64, X53-X54
		Congenital anomalies	Q00-Q07, Q10-18, Q20-Q28, Q30-Q45, Q50-56, Q60-Q87, Q89-Q93, Q95, Q96-Q99
Non- Communicable Diseases	Other Non- Communicable Diseases	Other Non-Communicable Diseases	C00-C97, D01-D48, D55-D89, E03-E35, E65-E90, F00-F99,G10-G99, H00-H06, H11-H59, H61-H62, H69, H72-H95, I00-I28, I31, I34-I38, I42-I99, J30, J31, J33-J35, J37-J47, J60, J64, J66-J70, J80-J82, J84, J90-J99, K00-K01, K03, K06-K60, K62-K63, K70-K80, K82-K93, L05, L10-L99, M02-M54, M61-M85, M87-M99, N00-N08, N11-N29, N31-N33, N35-N40, N42-N48, N50-N51, N60, N62-N64, N75-N99, P04, P08, P51, P53-P60, P70-P72, P74-P76, P78, P80-P83, P92-P94, R00, R01, R03-R05, R06, R11-R23, R26, R27, R29-R49, R55-R56, R59, R63, R70-R74, R76-R77, R80-R82, R84-R87, R90-R91
Injuries	Injuries	Injuries	S00-S99, T00-T98, V01-V99, W00-W99, X00-X52, X57-X99, Y00-Y91, Y97-Y98
Ill-defined conditions	Ill-defined or cause unknown	Ill-defined or cause unknown	P96, R02, R07, R09, R25, R51-R54, R57-R58, R60-R62, R64, R68, R69, R78, R79, R83, R89, R92-R99

**ANNEXURE-III**

**Adult classification (Deaths in age 5 year and above)**

<b>Main Group</b>	<b>Disease</b>	<b>ICD 10 Range</b>
<b>Communicable, maternal, perinatal and nutritional conditions</b>	Tuberculosis	A15-A19, B90, J65
	HIV/AIDS	B20-B24, C46, D84, R75
	Diarrhoeal diseases	A00-A09
	Malaria	B50-B54
	Selected tropical diseases	A30, A71, A90-A99, B55-B58, B60-B83, B92
	Respiratory infections	H65-H68, H70-H71, J00-J22, J32, J36, J85-J86, P23, U04
	Acute bacterial sepsis & severe infections	A20-A28, A32, A38, A40-A49, A68, A70, A74-A79, B95-B96, H10, H60, I30, I32-I33, I39-I41, K02, K04-K05 ,K61, K65, K67, K81, L00-L04, L08, M00-M01, M60, M86, N10, N30, N34, N41, N49, N61, P36-P39, U80-U89
	Other infectious and parasitic diseases	A31, A33, A35-A37, A39, A50-A67, A69, A80-A89, B00, B01-B09, B15-B17, B19, B25-B49, B59, B85-B89, B91, B94, B97-B99, G00-G09, N70-N74, P35, Y95
	Maternal conditions	O00-O99, A34, F53
	Perinatal conditions	P00-P22, P24-P29, P50-P96, R95, R96**
	Nutritional deficiencies	D50-D53, D64, E00-E02, E40-E46, E50-E64, X53-X54
	Fever of unknown origin	R50
<b>Non-Communicable diseases</b>	Malignant and other Neoplasms	C00-C45, C47-C97, D00-D48, N60, N62-N64, N87, R59
	Diabetes mellitus	E10-E14
	Neruo-psychiatric conditions	F00-F09, F11-F52, F54-F99, G10-G44, G47-G80, G90-G99, R26-R29, R40-R49, R56, R90
	Cardiovascular diseases	G45-G46, G81-G83, I00-I28, I31, I34-I38, I42-I84, I86-I99, R00-R01, R03, R55, R96**
	Respiratory diseases	J30-J31, J33-J35, J37-J64, J66-J84, J90-J99, R04-R06, R84, R91
	Digestive diseases	B18, F10, I85, K20-K60, K62-K63, K66, K70-K80, K82-K93, R10-R19, R63, R85, X45, Y15, Y90, Y91
	Genito-urinary diseases	N00-N08, N11-N29, N31-N33, N35-N40, N42-N48, N50-N51, N75-N86, N88-N99, R30-R39, R80, R82, R86, R87
	Congenital anomalies	Q00-Q99
	Other Non-Communicable Diseases	D55-D63, D65-D83, D86-D89, E03-E07, E15-E16, E20-E35, E65-E90, H00-H06, H11-H59, H61-H62, H69, H72-H95, K00-K01, K03, K06-K14, L05, L10-L99, M02-M54, M61-M85, M87-M99, R20-R23, R70-R74, R76-R77, R81
<b>Injuries</b>	Unintentional injuries: Motor Vehicle Accidents	V01-V89
	Unintentional injuries: Other Than Motor Vehicle Accidents	V90-V98, W00-W99, X00-X44, X46-X52, X57-X59, Y40-Y89
	Intentional injuries: Suicide	X60-X84

	Intentional injuries: Other Than Suicide	X85-Y09, Y35, Y36
	Injuries of Undetermined Intent	Y10-Y14, Y16-Y34, Y96-Y98
<b>Symptoms, signs and Ill-defined conditions</b>	Ill-defined/All other symptoms, signs and abnormal clinical and laboratory findings	R02, R07-R09, R25, R51-R54, R57-R58, R60-R62, R64-R69, R78-R79, R83, R89, R92-R94, R96**, R98-R99

**Note:** \*\* R96 - Sudden deaths are in 'Perinatal conditions' (when age<1 year), in 'cardiovascular diseases' (when age>30 year) and else in 'ill-defined conditions'

**ANNEXURE-IV****List of Network partner Institutes**

S.No	Network Partner Institutes
1	All India Institute of Medical Sciences (AIIMS), New Delhi
2	All India Institute of Medical Sciences (AIIMS), Jammu
3	Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh
4	Christian Medical College (CMC), Ludhiana, Punjab
5	All India Institute of Medical Sciences (AIIMS), Jodhpur, Rajasthan
6	All India Institute of Medical Sciences (AIIMS), Rishikesh, Uttarakhand
7	Uttar Pradesh University of Medical Sciences, Saifai, Uttar Pradesh
8	Banaras Hindu University (BHU), Varanasi, Uttar Pradesh
9	All India Institute of Medical Sciences (AIIMS), Patna, Bihar
10	Assam Medical College, Dibrugarh, Assam
11	B. J Medical College, Ahmedabad, Gujarat
12	All India Institute of Medical Sciences (AIIMS), Bhopal, Madhya Pradesh
13	Sri Ramachandra Institute of Higher Education, Chennai, Tamil Nadu
14	Jawaharlal Institute of Postgraduate Medical Education & Research (JIPMER), Puducherry
15	Agartala Government Medical College, Agartala, Tripura
16	B.J. Government Medical College, Pune, Maharashtra
17	All India Institute of Medical Sciences (AIIMS), Nagpur, Maharashtra
18	All India Institute of Medical Sciences (AIIMS), Bhubaneswar, Odisha
19	All India Institute of Medical Sciences (AIIMS), Raipur, Chhattisgarh
20	Kasturba Medical College (KMC), Mangaluru, Karnataka
21	Gandhi Medical College, Secunderabad, Telangana
22	Sri Venkateswara Medical College, Tirupati, Andhra Pradesh
23	Government Medical College, Thrissur, Kerala
24	Burdwan Medical College, Purba Bardhaman, West Bengal
25	North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences, Shillong, Meghalaya
26	Rajendra Institute of Medical Sciences, Ranchi, Jharkhand
27	Dr. Radhakrishnan GMC, Hamirpur, Himachal Pradesh

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