

**Analysis of
Community Reported Deaths
in Chhattisgarh**

Report

Year 2017

Compiled by:

State Health Resource Centre, Chhattisgarh

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Executive Summary

Introduction: In the rural areas of Chhattisgarh, Village Health Sanitation and Nutrition Committees (VHSNCs) are mandated to record the deaths happening in the villages. Similarly, in the urban-slum area of Chhattisgarh, Mahila Aarogya Samitis (MAS) are mandated to record the deaths. The death registers also show the cause of death as reported at community level. The national guidelines on Community Processes brought out by National Health Mission (NHM) emphasise this role of above committees promoted by it. Chhattisgarh was one of the first states in the country to implement this aspect. This process was piloted between 2008 and 2010. It was replicated across the state from 2011-12. Compiled analytical reports are available from 2012 onwards. The urban component was added from 2015 onwards after establishment of community processes in urban areas under NHM.

Objective: One of the key purposes of keeping a register of deaths in VHSNC and MAS are to enable health monitoring. The death registers of VHSNCs and MAS are compiled and computerized into a database at the state level by SHRC. This is meant to allow analysis of deaths and causes recorded and reported by community.

The causes of the deaths analysed in this report are as reported by the communities. Therefore the definitions of causes may not match with the technical definitions defined in specific Guidelines of reproductive & child health, National disease-control programmes or the International Classification of Diseases (ICD-10). Despite this limitation, the information available through VHSNC and MAS registers is still useful for understand the approximate causes of a large share of deaths in the state. In order to adapt to the limited technical knowledge available at village level regarding diseases and their symptoms, the exercise focuses on common conditions with easily identifiable symptoms. E.g. community can easily identify a symptom like diarrhoea, fever, injury etc.

Number of deaths covered: For rural areas, this report analyses nearly 90927 deaths that were recorded by VHSNCs during the year 2017. The deaths covered in 2017 compilation constitute 60% of total no. of rural deaths expected according to Crude Death Rate of the state (as per AHS 2012-13).

Year wise comparison of rural death reporting percentage

| Deaths | Expected Rural Deaths | No. of reported deaths in 2012 | % | No. of reported deaths in 2013 | % | No. of reported deaths in 2014 | % | No. of reported deaths in 2015 | % | No. of reported deaths in 2016 | % | No. of reported deaths in 2017 | % |
|-----------------------------|-----------------------|--------------------------------|-----|--------------------------------|-----|--------------------------------|-----|--------------------------------|-----|--------------------------------|-----|--------------------------------|-----|
| Overall Deaths | 150981 | 39168 | 26% | 58556 | 39% | 74279 | 49% | 91147 | 60% | 107194 | 71% | 90927 | 60% |
| Neonatal Deaths | 16067 | 3391 | 21% | 4361 | 27% | 5194 | 32% | 5895 | 37% | 6300 | 39% | 5378 | 33% |
| 1-11 month age group Deaths | 6616 | 1133 | 17% | 1240 | 19% | 1909 | 29% | 2142 | 32% | 2626 | 40% | 1676 | 25% |
| 1-4 year age group Deaths | 8033 | 1159 | 14% | 1295 | 16% | 1701 | 21% | 1885 | 23% | 2061 | 26% | 1918 | 24% |
| Maternal Deaths | 1153 | 230 | 20% | 244 | 21% | 326 | 28% | 402 | 35% | 384 | 33% | 317 | 27% |
| Other groups | 119112 | 33255 | 28% | 51416 | 43% | 65149 | 55% | 80823 | 68% | 95823 | 80% | 81638 | 69% |

In the urban-slum area, this report analyses 9177 deaths that were recorded by MAS during the year 2017. This is an improvement from 2016. The deaths covered in 2017 compilation constitute 77% of total no. of deaths expected according to Crude Death Rate of the state (as per SRS 2015). The urban data pertains to slums of 19 cities with 1977237 slum population (according to Mitanin Database in 2015).

Year wise comparison of Urban-Slum death reporting percentage

| Deaths | Expected urban slum Deaths | No. of reported deaths in 2015 | % | No. of reported deaths in 2016 | % | No. of reported deaths in 2017 | % |
|-----------------------------|----------------------------|--------------------------------|------------|--------------------------------|------------|--------------------------------|------------|
| Overall Deaths | 11863 | 2764 | 23% | 8162 | 69% | 9177 | 77% |
| Neonatal Deaths | 830 | 525 | 63% | 743 | 89% | 703 | 85% |
| 1-11 month age group Deaths | 435 | 97 | 22% | 173 | 40% | 158 | 36% |
| 1-4 Year age group Deaths | 119 | 60 | 51% | 114 | 96% | 127 | 107% |
| Maternal Deaths | 96 | 14 | 15% | 26 | 27% | 35 | 36% |
| Other age groups | 10383 | 2068 | 20% | 7106 | 68% | 8154 | 79% |

Reported Causes of deaths: The analysis of causes shows the following as the common causes for reported deaths in different age categories:

A. Causes for deaths reported in different age categories in Rural Chhattisgarh

| S.N. | Reported Causes | 0 to28 days | 1-11 months | 1-4 yrs | 5 to 14 yrs | 15 to 49 yrs | 50 to 59 yrs | 60 to 69 yrs | Above 70 yrs | Total |
|--------------|--|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 1 | Accident | 39 | 51 | 261 | 530 | 3458 | 681 | 514 | 772 | 6306 |
| 2 | Convulsion | 159 | 61 | 126 | 90 | 233 | 41 | 55 | 57 | 822 |
| 3 | Fever/ Malaria | 81 | 118 | 213 | 259 | 502 | 139 | 190 | 425 | 1927 |
| 4 | Neonatal Jaundice | 188 | | | | | | | | 188 |
| 5 | Jaundice | | 64 | 119 | 181 | 851 | 197 | 137 | 163 | 1712 |
| 6 | Low Birth Weight | 711 | | | | | | | | 711 |
| 7 | Malnutrition | | 141 | 116 | 21 | 25 | 3 | 10 | 57 | 373 |
| 8 | Diarrhea | 53 | 81 | 113 | 91 | 218 | 78 | 91 | 180 | 905 |
| 9 | Pneumonia | 337 | 317 | 199 | 45 | 59 | 12 | 4 | 19 | 992 |
| 10 | T.B. | 4 | 4 | 15 | 19 | 797 | 376 | 356 | 364 | 1935 |
| 11 | Snake Bite | | 7 | 41 | 119 | 298 | 64 | 47 | 35 | 611 |
| 12 | Rabies | | | 4 | 16 | 19 | 18 | 9 | 10 | 76 |
| 13 | Birth Asphyxia | 926 | | | | | | | | 926 |
| 14 | Neonatal Sepsis | 433 | | | | | | | | 433 |
| 15 | Maternal causes | | | | | 272 | | | | 272 |
| 16 | Murder | | | | | 323 | 50 | 44 | 32 | 449 |
| 17 | Suicide | | | | | 2401 | 338 | 195 | 171 | 3105 |
| 18 | Cancer | 0 | 9 | 37 | 74 | 1513 | 958 | 879 | 843 | 4313 |
| 19 | HIV/AIDS | | | | 4 | 86 | 11 | 9 | 3 | 113 |
| 20 | Heart Disease/Stroke (Including CHD/Anomalies) | 74 | 139 | 139 | 203 | 3565 | 3313 | 5001 | 10462 | 22896 |
| 21 | Digestive Diseases | 95 | 53 | 114 | 179 | 1441 | 696 | 713 | 919 | 4210 |
| 22 | Genito-urinary Diseases | 8 | 4 | 2 | 3 | 41 | 14 | 29 | 50 | 151 |
| 23 | Diabetes | 7 | 0 | 7 | 25 | 594 | 555 | 777 | 1067 | 3032 |
| 24 | Sickle Cell Anemia | 6 | 8 | 30 | 112 | 265 | 34 | 25 | 26 | 506 |
| 25 | Others | 2257 | 619 | 382 | 583 | 5297 | 3150 | 5014 | 16661 | 33963 |
| Total | | 5378 | 1676 | 1918 | 2554 | 22258 | 10728 | 14099 | 32316 | 90927 |

The leading causes of preventable mortality (the ones that communities can recognise) up to age of sixty years can be assessed from this data. Their relative importance is also clear from the analysis.

- 0 to 28 days neonates, Newborn causes (Birth Asphyxia and Sepsis) are the leading causes of death.
- 1 to 11 month children, Pneumonia is the leading cause of death.
- 1 to 4 years children, Accident, Fever/Malaria and Pneumonia are the leading causes of death.
- 5 to 14 year age group, Accident, Fever/Malaria, heart disease and Jaundice are the leading causes of death.
- 15-49 years age group, Accidents, Suicides and Heart Disease/stroke are the leading causes of death.
- For 50-59 years age groups, Heart Disease/stroke, Cancer, Accident, Diabetes and Fever/Malaria are the leading causes of death. For deaths in 60-69 years and 70 years and above age groups, same set of causes dominate.

Geographical Pattern: Mortality in tribal districts has greater share of infectious diseases (malaria, diarrhea, pneumonia) but also of digestive diseases. Surprisingly, accidents are also a bigger contributor to mortality in tribal areas compared to non-tribal districts. Non-tribal districts record a big share of NCD deaths, presumably due to better identification (diagnosis) availability there. Causes like suicides are common to both types of geographies but South Bastar and Urban areas have higher rates.

B. Causes for deaths reported in different age categories in Urban-Slum areas of Chhattisgarh

| S.N. | Reported Causes | 0 to28 days | 1-11 months | 1-4 yrs | 5 to 14 yrs | 15 to 49 yrs | 50 to 59 yrs | 60 to 69 yrs | Above 70 yrs | Total |
|--------------|---|-------------|-------------|------------|-------------|--------------|--------------|--------------|--------------|-------------|
| 1 | Accident | 1 | 2 | 21 | 53 | 348 | 80 | 93 | 141 | 739 |
| 2 | Convulsions | 11 | 14 | 8 | 4 | 8 | 3 | 4 | 6 | 58 |
| 3 | Fever/ Malaria | 4 | 11 | 13 | 17 | 51 | 24 | 34 | 35 | 189 |
| 4 | Neonatal Jaundice | 15 | | | | | | | | 15 |
| 5 | Jaundice | | 3 | 7 | 7 | 80 | 14 | 17 | 10 | 138 |
| 6 | Low Birth Weight | 50 | | | | | | | | 50 |
| 7 | Malnutrition | | 11 | 5 | 1 | 1 | 0 | 0 | | 18 |
| 8 | Diarrhea | 1 | 5 | 10 | 6 | 24 | 7 | 7 | 15 | 75 |
| 9 | Pneumonia | 10 | 29 | 12 | 9 | 12 | 4 | 8 | 6 | 90 |
| 10 | Heart Disease/Stroke (including Congenital Heart Disease/Anomalies) | 10 | 31 | 22 | 6 | 426 | 440 | 478 | 497 | 1910 |
| 11 | Digestive Diseases | 4 | 4 | 6 | 9 | 166 | 75 | 54 | 54 | 372 |
| 12 | Genito-urinary Diseases | 0 | 0 | 0 | 0 | 0 | 0 | 2 | | 2 |
| 13 | Diabetes | 1 | 0 | 1 | 2 | 69 | 71 | 83 | 101 | 328 |
| 14 | HIV/AIDS | 0 | 0 | 0 | 1 | 40 | 7 | 1 | 3 | 52 |
| 15 | T.B. | 0 | 0 | 1 | 4 | 125 | 59 | 35 | 31 | 255 |
| 16 | Snake Bite | | 0 | 0 | 2 | 4 | 0 | 0 | 1 | 7 |
| 17 | Rabies | | | 0 | 1 | 7 | 2 | 1 | 3 | 14 |
| 18 | Birth Asphyxia | 131 | | | | | | | | 333 |
| 19 | Neonatal Sepsis | 38 | | | | | | | | 38 |
| 20 | Maternal causes | | | | | 15 | | | | 15 |
| 21 | Murder | | | | | 43 | 0 | 2 | 2 | 47 |
| 22 | Suicide | | | | | 386 | 47 | 20 | 16 | 469 |
| 23 | Sickle Cell Anemia | | | 0 | 6 | 33 | 1 | 1 | | 41 |
| 24 | Cancer | 1 | 0 | 2 | 12 | 195 | 118 | 101 | 76 | 505 |
| 25 | Others | 426 | 48 | 19 | 3126 | | | | | 3619 |
| Total | | 703 | 158 | 127 | 3266 | 2033 | 952 | 941 | 997 | 9177 |

In urban slum areas, Heart Disease/stroke, Neonatal conditions, Accidents, Suicide, Cancer and Diabetes are leading cause of death. Amongst infectious diseases, TB and Fever/Malaria are the leading cause of death in urban slums.

Year wise comparison of reported cause of rural deaths

Number

| S.N. | Reported Causes | No.of Deaths Reported in 2012 | No.of Deaths Reported in 2013 | No.of Deaths Reported in 2014 | No.of Deaths Reported in 2015 | No.of Deaths Reported in 2016 | No.of Deaths Reported in 2017 |
|--------------|---|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 1 | Heart Disease/Stroke (including Congenital Heart Disease/Anomalies) | | | | | 8233 | 22896 |
| 2 | Accident | 1854 | 2935 | 3722 | 5072 | 6521 | 6306 |
| 3 | Cancer | | | | | 4436 | 4313 |
| 4 | Digestive Diseases | | | | | 3585 | 4210 |
| 5 | Suicide | 1476 | 2063 | 2728 | 3363 | 3472 | 3105 |
| 6 | Diabetes | | | | | 3238 | 3032 |
| 7 | T.B. | 934 | 1376 | 1795 | 2183 | 2383 | 1935 |
| 8 | Fever/Malaria | 2467 | 2872 | 3962 | 4071 | 3531 | 1927 |
| 9 | Jaundice | 619 | 850 | 1429 | 1669 | 2079 | 1712 |
| 10 | Neonatal causes (Birth Asphyxia & Sepsis) | 1863 | 2619 | 3262 | 3617 | 3747 | 1359 |
| 11 | Pneumonia | 582 | 754 | 1199 | 1384 | 1873 | 992 |
| 12 | Diarrhea | 607 | 752 | 949 | 1197 | 1534 | 905 |
| 13 | Convulsions | 238 | 301 | 485 | 678 | 997 | 822 |
| 14 | Low Birth Weight | 235 | 474 | 715 | 998 | 1006 | 711 |
| 15 | Snake bite | 342 | 451 | 585 | 677 | 737 | 611 |
| 16 | Sickle Cell Anemia | | | | | 457 | 506 |
| 17 | Murder | 229 | 272 | 336 | 339 | 445 | 449 |
| 18 | Malnutrition | 109 | 216 | 331 | 442 | 672 | 373 |
| 19 | Maternal causes | 230 | 244 | 326 | 402 | 384 | 272 |
| 20 | Neonatal Jaundice | 109 | 147 | 213 | 178 | 263 | 188 |
| 21 | Genito-urinary Diseases | | | | | 76 | 151 |
| 22 | HIV/AIDS | | | | | 107 | 113 |
| 23 | Rabies | 72 | 106 | 118 | 142 | 119 | 76 |
| 24 | Others | 27202 | 42124 | 52124 | 64735 | 57299 | 33963 |
| Total | | 39168 | 58556 | 74279 | 91147 | 107194 | 90927 |

Year wise comparison of reported cause of rural deaths

Proportion

| S.N. | Reported Causes | % of Deaths Reported in 2012 | % of Deaths Reported in 2013 | % of Deaths Reported in 2014 | % of Deaths Reported in 2015 | % of Deaths Reported in 2016 | % of Deaths Reported in 2017 |
|--------------|---|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 1 | Heart Disease/Stroke (including Congenital Heart Disease/Anomalies) | | | | | 7.7% | 25.2% |
| 2 | Accident | 4.7% | 5.0% | 5.0% | 5.6% | 6.1% | 6.9% |
| 3 | Cancer | | | | | 4.1% | 4.7% |
| 4 | Digestive Diseases | | | | | 3.3% | 4.6% |
| 5 | Suicide | 3.8% | 3.5% | 3.7% | 3.7% | 3.2% | 3.4% |
| 6 | Diabetes | | | | | 3.0% | 3.3% |
| 7 | T.B. | 2.4% | 2.3% | 2.4% | 2.4% | 2.2% | 2.1% |
| 8 | Fever/Malaria | 6.3% | 4.9% | 5.3% | 4.5% | 3.3% | 2.1% |
| 9 | Jaundice | 1.6% | 1.5% | 1.9% | 1.8% | 1.9% | 1.9% |
| 10 | Neonatal causes (Birth Asphyxia & Sepsis) | 4.8% | 4.5% | 4.4% | 4.0% | 3.5% | 1.5% |
| 11 | Pneumonia | 1.5% | 1.3% | 1.6% | 1.5% | 1.7% | 1.1% |
| 12 | Diarrhea | 1.5% | 1.3% | 1.3% | 1.3% | 1.4% | 1.0% |
| 13 | Convulsions | 0.6% | 0.5% | 0.7% | 0.7% | 0.9% | 0.9% |
| 14 | Low Birth Weight | 0.6% | 0.8% | 1.0% | 1.1% | 0.9% | 0.8% |
| 15 | Snake bite | 0.9% | 0.8% | 0.8% | 0.7% | 0.7% | 0.7% |
| 16 | Sickle Cell Anemia | | | | | 0.4% | 0.6% |
| 17 | Murder | 0.6% | 0.5% | 0.5% | 0.4% | 0.4% | 0.5% |
| 18 | Malnutrition | 0.3% | 0.4% | 0.4% | 0.5% | 0.6% | 0.4% |
| 19 | Maternal causes | 0.6% | 0.4% | 0.4% | 0.4% | 0.4% | 0.3% |
| 20 | Neonatal Jaundice | 0.3% | 0.3% | 0.3% | 0.2% | 0.2% | 0.2% |
| 21 | Genito-urinary Diseases | | | | | 0.1% | 0.2% |
| 22 | HIV/AIDS | | | | | 0.1% | 0.1% |
| 23 | Rabies | 0.2% | 0.2% | 0.2% | 0.2% | 0.1% | 0.1% |
| 24 | Others | 69.4% | 71.9% | 70.2% | 71.0% | 53.5% | 37.4% |
| Total | | 100% | 100% | 100% | 100% | 100% | 100% |

There is a sharp increase in stroke/heart disease deaths but it reflects better recording of such causes. There is a trend of increase seen in deaths due to accidents. This report has unpacked it to understand this important set of deaths for public health planning.

VHSNC based system of recording deaths and causes and its compilation and analysis continue to be useful in providing a picture of mortality in rural and urban slum population of the state. Its replication in urban slums through MAS in 2015 seems to have reached maturity now, as reflected in the growing number of deaths reported.

The Trend of Fever, Pneumonia and Diarrhea Death

The trend of fever deaths over last 5 years amongst the 1-59 years age groups is given below. It also includes a trend for 88 tribal blocks, known to be malaria affected (mostly with reported API>5). It shows decline in mortality related to this cause and the decline from 2016 to 2017 is especially dramatic.

| Year | 1-59 yrs (All blocks) | 1-59 yrs (88 Tribal blocks with API>5) | 1-59 yrs(All blocks) | Tribal 88 blocks 1-59 years |
|------|------------------------------|--|----------------------|-----------------------------|
| | Fever-Malaria related deaths | Fever-Malaria related deaths | Total deaths | Total deaths |
| 2012 | 1714 | | 19545 | |
| 2013 | 1717 | 1293 | 23919 | 12679 |
| 2014 | 2226 | 1558 | 30273 | 15087 |
| 2015 | 2061 | 1499 | 34412 | 13695 |
| 2016 | 1738 | 1100 | 43425 | 12754 |
| 2017 | 1113 | 554 | 37458 | 13272 |

| Year | % of fever/malaria related deaths in 1-59 yrs total deaths | % of fever/malaria related deaths in 1-59 yrs deaths in 88 blocks |
|------|--|---|
| 2013 | 7.2% | 10.2% |
| 2014 | 7.4% | 10.3% |
| 2015 | 6.0% | 10.9% |
| 2016 | 4.0% | 8.6% |
| 2017 | 3.0% | 4.2% |

The trend of Pneumonia and Diarrhea related deaths over last 5 years amongst the 1-59 years age groups is given below. It shows the mortality related to these causes did not have a clear pattern of decline till 2016 and a significant decline is visible in 2017.

| Year | 0-59 yrs Total deaths | 0-59 yrs Pneumonia related deaths | % | 0-59 yrs Diarrhea related deaths | % |
|------|-----------------------|-----------------------------------|------|----------------------------------|------|
| 2012 | 24069 | 580 | 2.4% | 511 | 2.1% |
| 2013 | 29520 | 741 | 2.5% | 575 | 1.9% |
| 2014 | 37376 | 1176 | 3.1% | 685 | 1.8% |
| 2015 | 42449 | 1358 | 3.2% | 769 | 1.8% |
| 2016 | 52351 | 1833 | 3.5% | 1000 | 1.9% |
| 2017 | 44512 | 969 | 2.2% | 634 | 1.4% |

Chapter 1: Introduction

Introduction: As per Guidelines of NHM, Village Health Sanitation and Nutrition Committees (VHSNCs) are mandated to record the deaths happening in the villages. The purpose of keeping a register of deaths in VHSNC is to enable health monitoring and planning at village and higher levels. The Format of the Death Register used by VHSNCs is as follows:

| Death Register of VHSNC | | | | | | | | | | |
|--------------------------------|--------------------|---------------------------|-----|-------|-----|--------------|-----------|---------------|-----------------------------------|--------------------------|
| Month:.....Year..... | | | | | | | | | | |
| Sl. | Name of the person | Father's / Husband's name | Age | Caste | Sex | Village name | Panchayat | Date of death | Community Reported Cause of Death | Pregnant women (Yes/ No) |
| | | | | | | | | | | |
| | | | | | | | | | | |

For each death, VHSNC also tries to record the probable cause of death as reported by the community. It allows the community to keep a watch on the key causes of mortality in the village. The Death Register also gives them pointers on the issues which require action at various levels. Many of the actions require collective planning in the VHSNC. For example, the VHSNCs discuss in detail if they come across any Infant and Maternal deaths; deaths related to Fever/Malaria, Diarrhoea and TB. It allows them to assess the causes and remedies for the preventable causes of mortality in their village.

As a component of Community Based Monitoring, the records of deaths are used to carry out Community Audits of deaths.

Methodology: The death registers of VHSNCs are compiled and computerized into a database at the state level by SHRC. This is meant to allow analysis of deaths recorded by age, district and cause.

Regarding the causes of the deaths, it is very important to keep in mind that these are the causes as perceived and reported by the community in VHSNC meetings. Therefore the definitions may not match with the technical definitions laid out by the guidelines of Health ministry (MoHFW) or International Classification of Diseases (ICD-10). Despite the definitional issues, the information available through VHSNC registers is still useful in understanding the likely and approximate causes leading to a large share of the mortality in the state.

The proportion of the estimated deaths being reported through VHSNC Death Registers: The deaths analysed in the report are the ones recorded by VHSNCs in their death registers. The registers are compiled at the state level. There is a possibility that some of the information may not have got recorded or entered in state level computerisation.

The expected total rural deaths were estimated based on the population (as per 2011 Census) and the Crude Death Rate for rural area (as per AHS 2012-13) and for urban-slum (as per SRS 2015). As per the information compiled for 2017 (January to December), 90927 deaths have been documented.

In 2017, 60% of the total expected rural deaths have been collected and compiled through the VHSNC structure. The information thus is not based on any sampling process. This aspect also needs to be considered while interpreting the findings of this report. It also means that the number of deaths ascribed to any cause may be higher than the number reported here.

Similarly for deaths by age groups, the number of estimated deaths was calculated based on the Mortality figures given by AHS 2012-13. This report covers only 33% of the expected neonatal deaths, 25% of post-neonatal infant deaths and 24% of child deaths of the remaining age group up to 4 years for rural areas. Similarly it covers 27% of the likely total number of maternal deaths in rural areas. Since the expected death number is based on AHS figures collected for 2011, the decline in these mortality rates has not got incorporated, thus showing exaggerated number of expected deaths in the above categories.

Year wise Death Reporting Percentage

| Deaths | Expected Rural Deaths | No. of reported deaths in 2012 | % | No. of reported deaths in 2013 | % | No. of reported deaths in 2014 | % | No. of reported deaths in 2015 | % | No. of reported deaths in 2016 | % | No. of reported deaths in 2017 | % |
|-----------------------------|-----------------------|--------------------------------|-----|--------------------------------|-----|--------------------------------|-----|--------------------------------|-----|--------------------------------|-----|--------------------------------|-----|
| Overall Deaths | 150981 | 39168 | 26% | 58556 | 39% | 74279 | 49% | 91147 | 60% | 107194 | 71% | 90927 | 60% |
| Neonatal Deaths | 16067 | 3391 | 21% | 4361 | 27% | 5194 | 32% | 5895 | 37% | 6300 | 39% | 5378 | 33% |
| 1-11 month age group Deaths | 6616 | 1133 | 17% | 1240 | 19% | 1909 | 29% | 2142 | 32% | 2626 | 40% | 1676 | 25% |
| 1-4 year age group Deaths | 8033 | 1159 | 14% | 1295 | 16% | 1701 | 21% | 1885 | 23% | 2061 | 26% | 1918 | 24% |
| Maternal Deaths | 1153 | 230 | 20% | 244 | 21% | 326 | 28% | 402 | 35% | 384 | 33% | 317 | 27% |
| Other groups | 119112 | 33255 | 28% | 51416 | 43% | 65149 | 55% | 80823 | 68% | 95823 | 80% | 81638 | 69% |

A similar methodology is used for urban areas through recording of deaths by MAS which is explained in Chapter on analysis of urban-slum deaths.

Chapter 2: Analysis of Deaths suspected due to key infectious diseases (Malaria, Pneumonia, Diarrhea, TB) in rural Chhattisgarh

2.1 Fever or suspected-Malaria related Deaths:

VHSNCs have reported 1927 deaths during 2017 for which the cause is recorded as fever or malaria.

| S.N. | District | Rural Population (Census 2011) | Total reported deaths by VHSNC in 2017 | No.of Fever/Malaria death reported by VHSNC in 2016 | % | No.of Fever/Malaria death reported by VHSNC in 2017 | % |
|----------------------|-------------|--------------------------------|--|---|-------------|---|-------------|
| 1 | BIJAPUR | 225591 | 1203 | 212 | 17.1% | 128 | 10.6% |
| 2 | SUKMA | 221825 | 868 | 81 | 8.5% | 43 | 5.0% |
| 3 | BASTAR | 697934 | 2394 | 189 | 7.2% | 112 | 4.7% |
| 4 | DANTEWADA | 214830 | 1114 | 94 | 8.4% | 42 | 3.8% |
| 5 | RAIGARH | 1247346 | 5494 | 390 | 5.2% | 181 | 3.3% |
| 6 | KORIA | 453476 | 1160 | 155 | 10.0% | 38 | 3.3% |
| 7 | BALODABAZAR | 1138729 | 6046 | 265 | 3.9% | 191 | 3.2% |
| 8 | SURGUJA | 703294 | 2894 | 211 | 6.0% | 89 | 3.1% |
| 9 | BILASPUR | 1347093 | 4796 | 241 | 4.0% | 145 | 3.0% |
| 10 | BALRAMPUR | 695579 | 2403 | 266 | 6.7% | 70 | 2.9% |
| 11 | GARIYABAND | 556967 | 2378 | 117 | 3.7% | 59 | 2.5% |
| 12 | NARAYANPUR | 118087 | 448 | 14 | 3.3% | 10 | 2.2% |
| 13 | MUNGELI | 636162 | 2564 | 92 | 3.7% | 55 | 2.1% |
| 14 | JASHPUR | 776017 | 4122 | 122 | 2.8% | 87 | 2.1% |
| 15 | BEMETARA | 721077 | 3389 | 121 | 3.2% | 67 | 2.0% |
| 16 | KANKER | 671834 | 3086 | 66 | 1.9% | 52 | 1.7% |
| 17 | RAIPUR | 884237 | 4788 | 74 | 1.5% | 77 | 1.6% |
| 18 | DHAMTARI | 650045 | 4248 | 52 | 1.1% | 68 | 1.6% |
| 19 | JANJGIR | 1395433 | 7288 | 168 | 2.1% | 113 | 1.6% |
| 20 | KAWARDHA | 734894 | 3210 | 159 | 4.5% | 44 | 1.4% |
| 21 | MAHASAMUND | 912166 | 5439 | 101 | 1.6% | 67 | 1.2% |
| 22 | KONDAGAON | 520382 | 1485 | 52 | 2.6% | 17 | 1.1% |
| 23 | RAJNANDGAON | 1264980 | 6775 | 69 | 0.8% | 67 | 1.0% |
| 24 | KORBA | 760360 | 2324 | 114 | 3.5% | 20 | 0.9% |
| 25 | SURAJPUR | 717439 | 2926 | 51 | 1.3% | 25 | 0.9% |
| 26 | BALOD | 720697 | 4347 | 21 | 0.5% | 37 | 0.9% |
| 27 | DURG | 617184 | 3738 | 34 | 0.9% | 23 | 0.6% |
| State Average | | 19603658 | 90927 | 3531 | 3.3% | 1927 | 2.1% |

The deaths due to Fever or suspected-Malaria are spread across all age groups.

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|-------------|
| 1 | 0-28 days | 81 | 4% |
| 2 | 1-11 month | 118 | 6% |
| 3 | 1-4 year | 213 | 11% |
| 4 | 5-14 year | 259 | 13% |
| 5 | 15-49year | 502 | 26% |
| 6 | 50-59year | 139 | 7% |
| 7 | 60-69year | 190 | 10% |
| 8 | More than 70year | 425 | 22% |
| Total | | 1927 | 100% |

50% of the reported deaths due to Fever or suspected-Malaria are of male persons.

| Gender | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 963 | 50% |
| Female | 964 | 50% |
| Total | 1927 | 100% |

There is a seasonal trend in deaths with 43% of the Fever or suspected-Malaria related deaths happening in months July to October.

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| January | 113 | 6% |
| February | 71 | 4% |
| March | 125 | 6% |
| April | 152 | 8% |
| May | 222 | 12% |
| June | 144 | 7% |
| July | 215 | 11% |
| August | 219 | 11% |
| September | 217 | 11% |
| October | 187 | 10% |
| November | 162 | 8% |
| December | 100 | 5% |
| Total | 1927 | 100% |

The trend of fever deaths over last 5 years amongst the 1-59 years age groups is given below. It also includes a trend for 88 tribal blocks, known to be malaria affected (mostly with reported API>5).

| Year | 1-59 yrs(All blocks) | 1-59 yrs (Tribal 88 blocks) | 1-59 yrs | Tribal 88 blocks 1-59 years |
|------|------------------------------|------------------------------|--------------|-----------------------------|
| | Fever-Malaria related deaths | Fever-Malaria related deaths | Total deaths | Total deaths |
| 2012 | 1714 | | 19545 | |
| 2013 | 1717 | 1293 | 23919 | 12679 |
| 2014 | 2226 | 1558 | 30273 | 15087 |
| 2015 | 2061 | 1499 | 34412 | 13695 |
| 2016 | 1738 | 1100 | 43425 | 12754 |
| 2017 | 1113 | 554 | 37458 | 13272 |

It shows decline in mortality related to this cause and the decline from 2016 to 2017 is especially dramatic.

| Year | % of fever/malaria related deaths in 1-59 yrs total deaths | % of fever/malaria related deaths in 1-59 yrs deaths in 88 blocks |
|------|--|---|
| 2013 | 7.2% | 10.2% |
| 2014 | 7.4% | 10.3% |
| 2015 | 6.0% | 10.9% |
| 2016 | 4.0% | 8.6% |
| 2017 | 3.0% | 4.2% |

The trend of Pneumonia and Diarrhea related deaths over last 5 years amongst the 1-59 years age groups is given below. It shows the mortality related to these causes did not have a clear pattern of decline till 2016 and a significant decline is visible in 2017.

| Year | 0-59 yrs Total deaths | 0-59 yrs Pneumonia related deaths | % | 0-59 yrs Diarrhea related deaths | % |
|------|-----------------------|-----------------------------------|------|----------------------------------|------|
| 2012 | 24069 | 580 | 2.4% | 511 | 2.1% |
| 2013 | 29520 | 741 | 2.5% | 575 | 1.9% |
| 2014 | 37376 | 1176 | 3.1% | 685 | 1.8% |
| 2015 | 42449 | 1358 | 3.2% | 769 | 1.8% |
| 2016 | 52351 | 1833 | 3.5% | 1000 | 1.9% |
| 2017 | 44512 | 969 | 2.2% | 634 | 1.4% |

2.2 Deaths due to Pneumonia:

VHSNCs have reported 992 deaths during 2017 for which the cause is recorded as pneumonia.

| S.N. | District | Rural Population (Census 2011) | Total reported deaths by VHSNC | No.of Pneumonia deaths reported by VHSNC in 2016 | % | No.of Pneumonia deaths reported by VHSNC in 2017 | % |
|----------------------|-------------|--------------------------------|--------------------------------|--|-------------|--|-------------|
| 1 | BIJAPUR | 225591 | 1203 | 49 | 3.9% | 44 | 3.7% |
| 2 | DANTEWADA | 214830 | 1114 | 34 | 3.0% | 34 | 3.1% |
| 3 | KONDAGAON | 520382 | 1485 | 98 | 4.9% | 43 | 2.9% |
| 4 | SUKMA | 221825 | 868 | 51 | 5.4% | 23 | 2.6% |
| 5 | GARIYABAND | 556967 | 2378 | 86 | 2.7% | 55 | 2.3% |
| 6 | BASTAR | 697934 | 2394 | 85 | 3.3% | 45 | 1.9% |
| 7 | KAWARDHA | 734894 | 3210 | 108 | 3.0% | 58 | 1.8% |
| 8 | MUNGELI | 636162 | 2564 | 55 | 2.2% | 43 | 1.7% |
| 9 | BILASPUR | 1347093 | 4796 | 142 | 2.3% | 77 | 1.6% |
| 10 | BEMETARA | 721077 | 3389 | 69 | 1.8% | 52 | 1.5% |
| 11 | SURAJPUR | 717439 | 2926 | 74 | 2.0% | 41 | 1.4% |
| 12 | KANKER | 671834 | 3086 | 74 | 2.1% | 39 | 1.3% |
| 13 | RAIPUR | 884237 | 4788 | 52 | 1.1% | 57 | 1.2% |
| 14 | RAJNANDGAON | 1264980 | 6775 | 164 | 1.9% | 69 | 1.0% |
| 15 | BALODABAZAR | 1138729 | 6046 | 109 | 1.6% | 58 | 1.0% |
| 16 | BALRAMPUR | 695579 | 2403 | 92 | 2.3% | 20 | 0.8% |
| 17 | DURG | 617184 | 3738 | 34 | 0.9% | 31 | 0.8% |
| 18 | KORBA | 760360 | 2324 | 51 | 1.6% | 18 | 0.8% |
| 19 | SURGUJA | 703294 | 2894 | 63 | 1.8% | 20 | 0.7% |
| 20 | BALOD | 720697 | 4347 | 47 | 1.0% | 30 | 0.7% |
| 21 | MAHASAMUND | 912166 | 5439 | 55 | 0.8% | 33 | 0.6% |
| 22 | DHAMTARI | 650045 | 4248 | 62 | 1.3% | 25 | 0.6% |
| 23 | JANJGIR | 1395433 | 7288 | 81 | 1.0% | 38 | 0.5% |
| 24 | NARAYANPUR | 118087 | 448 | 12 | 2.9% | 2 | 0.4% |
| 25 | KORIA | 453476 | 1160 | 20 | 1.3% | 5 | 0.4% |
| 26 | JASHPUR | 776017 | 4122 | 47 | 1.1% | 16 | 0.4% |
| 27 | RAIGARH | 1247346 | 5494 | 59 | 0.8% | 16 | 0.3% |
| State Average | | 19603658 | 90927 | 1873 | 1.7% | 992 | 1.1% |

While most districts show substantial decline in pneumonia deaths from 2016 to 2017, the change in Bijapur, Dantewada and Gariaband is negligible.

86% deaths due to pneumonia are in under-5 years age group.

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|-------------|
| 1 | 0-28 days | 337 | 34% |
| 2 | 1-11 month | 317 | 32% |
| 3 | 1-4 year | 199 | 20% |
| 4 | 5-14 year | 45 | 5% |
| 5 | 15-49year | 59 | 6% |
| 6 | 50-59year | 12 | 1% |
| 7 | 60-69year | 4 | 0% |
| 8 | More than 70year | 19 | 2% |
| Total | | 992 | 100% |

54% of the deaths due to pneumonia are of male persons.

| Gender | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 532 | 54% |
| Female | 460 | 46% |
| Total | 992 | 100% |

41% of deaths due to pneumonia happened in colder season – October to January.

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| January | 92 | 9% |
| February | 80 | 8% |
| March | 52 | 5% |
| April | 55 | 6% |
| May | 94 | 9% |
| June | 63 | 6% |
| July | 75 | 8% |
| August | 80 | 8% |
| September | 87 | 9% |
| October | 126 | 13% |
| November | 99 | 10% |
| December | 89 | 9% |
| Total | 992 | 100% |

2.3 Deaths due to Diarrhea:

VHSNCs have reported 905 deaths during 2017 for which the cause is recorded as Diarrhoea.

| S.N. | District | Rural Population (Census 2011) | Total reported deaths by VHSNC | No.of Diarrhea death reported by VHSNC in 2016 | % | No.of Diarrhea death reported by VHSNC in 2017 | % |
|----------------------|-------------|--------------------------------|--------------------------------|--|-------------|--|-------------|
| 1 | SUKMA | 221825 | 868 | 27 | 2.8% | 27 | 3.1% |
| 2 | NARAYANPUR | 118087 | 448 | 7 | 1.7% | 12 | 2.7% |
| 3 | BASTAR | 697934 | 2394 | 88 | 3.4% | 61 | 2.5% |
| 4 | BALRAMPUR | 695579 | 2403 | 135 | 3.4% | 54 | 2.2% |
| 5 | BIJAPUR | 225591 | 1203 | 51 | 4.1% | 26 | 2.2% |
| 6 | KONDAGAON | 520382 | 1485 | 56 | 2.8% | 32 | 2.2% |
| 7 | SURGUJA | 703294 | 2894 | 74 | 2.1% | 55 | 1.9% |
| 8 | GARIYABAND | 556967 | 2378 | 50 | 1.6% | 38 | 1.6% |
| 9 | KAWARDHA | 734894 | 3210 | 68 | 1.9% | 50 | 1.6% |
| 10 | DANTEWADA | 214830 | 1114 | 24 | 2.1% | 17 | 1.5% |
| 11 | KORIA | 453476 | 1160 | 35 | 2.3% | 17 | 1.5% |
| 12 | KANKER | 671834 | 3086 | 41 | 1.2% | 37 | 1.2% |
| 13 | RAIGARH | 1247346 | 5494 | 203 | 2.7% | 64 | 1.2% |
| 14 | JASHPUR | 776017 | 4122 | 72 | 1.7% | 43 | 1.0% |
| 15 | BEMETARA | 721077 | 3389 | 48 | 1.3% | 27 | 0.8% |
| 16 | RAJNANDGAON | 1264980 | 6775 | 75 | 0.8% | 53 | 0.8% |
| 17 | MUNGELI | 636162 | 2564 | 32 | 1.3% | 20 | 0.8% |
| 18 | DHAMTARI | 650045 | 4248 | 21 | 0.4% | 33 | 0.8% |
| 19 | SURAJPUR | 717439 | 2926 | 66 | 1.7% | 21 | 0.7% |
| 20 | JANJGIR | 1395433 | 7288 | 62 | 0.8% | 50 | 0.7% |
| 21 | BILASPUR | 1347093 | 4796 | 50 | 0.8% | 31 | 0.6% |
| 22 | MAHASAMUND | 912166 | 5439 | 68 | 1.0% | 34 | 0.6% |
| 23 | BALODABAZAR | 1138729 | 6046 | 66 | 1.0% | 37 | 0.6% |
| 24 | KORBA | 760360 | 2324 | 23 | 0.7% | 13 | 0.6% |
| 25 | RAIPUR | 884237 | 4788 | 28 | 0.6% | 25 | 0.5% |
| 26 | DURG | 617184 | 3738 | 35 | 0.9% | 14 | 0.4% |
| 27 | BALOD | 720697 | 4347 | 29 | 0.6% | 14 | 0.3% |
| State Average | | 19603658 | 90927 | 1534 | 1.4% | 905 | 1.0% |

The reduction in diarrhea deaths in Sukma, Surguja, Kwardha and Narayanpur is not significant and overall death rate continues to be well above state average.

24% of these deaths are in 15-49 year age group. Deaths due to diarrhoea are also high in the 1 to 4 yrs age group.

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|-------------|
| 1 | 0-28 days | 53 | 6% |
| 2 | 1-11 month | 81 | 9% |
| 3 | 1-4 year | 113 | 12% |
| 4 | 5-14 year | 91 | 10% |
| 5 | 15-49year | 218 | 24% |
| 6 | 50-59year | 78 | 9% |
| 7 | 60-69year | 91 | 10% |
| 8 | More than 70year | 180 | 20% |
| Total | | 905 | 100% |

54% of the deaths due to Diarrhea are of male persons.

| Gender | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 492 | 54% |
| Female | 413 | 46% |
| Total | 905 | 100% |

The number of deaths per month is slightly higher in July.

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| January | 98 | 11% |
| February | 58 | 6% |
| March | 77 | 9% |
| April | 75 | 8% |
| May | 88 | 10% |
| June | 67 | 7% |
| July | 110 | 12% |
| August | 95 | 10% |
| September | 79 | 9% |
| October | 66 | 7% |
| November | 52 | 6% |
| December | 40 | 4% |
| Total | 905 | 100% |

2.4 Deaths due to TB:

VHSNCs have reported 1935 deaths during 2017 for which the cause is recorded as TB.

| S.N. | District | Rural Population (Census 2011) | Total reported deaths by VHSNC | No.of TB death reported by VHSNC in 2016 | % | No.of TB death reported by VHSNC in 2017 | % |
|----------------------|-------------|--------------------------------|--------------------------------|--|-------------|--|-------------|
| 1 | Sukma | 221825 | 868 | 68 | 7.2% | 63 | 7.3% |
| 2 | Bijapur | 225591 | 1203 | 86 | 6.9% | 68 | 5.7% |
| 3 | Narayanpur | 118087 | 448 | 33 | 7.9% | 22 | 4.9% |
| 4 | Bastar | 697934 | 2394 | 109 | 4.2% | 80 | 3.3% |
| 5 | Kanker | 671834 | 3086 | 89 | 2.5% | 102 | 3.3% |
| 6 | Kondagaon | 520382 | 1485 | 43 | 2.1% | 48 | 3.2% |
| 7 | Surajpur | 717439 | 2926 | 76 | 2.0% | 80 | 2.7% |
| 8 | Raigarh | 1247346 | 5494 | 247 | 3.3% | 149 | 2.7% |
| 9 | Dantewada | 214830 | 1114 | 48 | 4.3% | 30 | 2.7% |
| 10 | Korba | 760360 | 2324 | 80 | 2.5% | 62 | 2.7% |
| 11 | Gariyaband | 556967 | 2378 | 72 | 2.3% | 59 | 2.5% |
| 12 | Dhamtari | 650045 | 4248 | 111 | 2.3% | 102 | 2.4% |
| 13 | Bemetara | 721077 | 3389 | 83 | 2.2% | 78 | 2.3% |
| 14 | Jashpur | 776017 | 4122 | 89 | 2.0% | 94 | 2.3% |
| 15 | Koria | 453476 | 1160 | 25 | 1.6% | 26 | 2.2% |
| 16 | Kawardha | 734894 | 3210 | 69 | 1.9% | 71 | 2.2% |
| 17 | Balodabazar | 1138729 | 6046 | 166 | 2.4% | 130 | 2.2% |
| 18 | Balrampur | 695579 | 2403 | 91 | 2.3% | 48 | 2.0% |
| 19 | Mahasamund | 912166 | 5439 | 83 | 1.3% | 104 | 1.9% |
| 20 | Raipur | 884237 | 4788 | 102 | 2.1% | 77 | 1.6% |
| 21 | Bilaspur | 1347093 | 4796 | 98 | 1.6% | 75 | 1.6% |
| 22 | Rajnandgaon | 1264980 | 6775 | 177 | 2.0% | 103 | 1.5% |
| 23 | SURGUJA | 703294 | 2894 | 78 | 2.2% | 43 | 1.5% |
| 24 | Janjgir | 1395433 | 7288 | 89 | 1.1% | 96 | 1.3% |
| 25 | Durg | 617184 | 3738 | 54 | 1.4% | 44 | 1.2% |
| 26 | Balod | 720697 | 4347 | 72 | 1.6% | 51 | 1.2% |
| 27 | Mungeli | 636162 | 2564 | 45 | 1.8% | 30 | 1.2% |
| State Average | | 19603658 | 90927 | 2383 | 2.2% | 1935 | 2.1% |

41% of these deaths are in 15-49 year age group. Deaths due to TB are also high in the 50-59 year age group.

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|-------------|
| 1 | 0-28 days | 4 | 0% |
| 2 | 1-11 month | 4 | 0% |
| 3 | 1-4 year | 15 | 1% |
| 4 | 5-14 year | 19 | 1% |
| 5 | 15-49year | 797 | 41% |
| 6 | 50-59year | 376 | 19% |
| 7 | 60-69year | 356 | 18% |
| 8 | More than 70year | 364 | 19% |
| Total | | 1935 | 100% |

71% of the deaths due to TB are of male persons.

| Gender | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 1382 | 71% |
| Female | 553 | 29% |
| Total | 1935 | 100% |

The number of deaths per month is slightly high in April

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| January | 156 | 8% |
| February | 133 | 7% |
| March | 130 | 7% |
| April | 218 | 11% |
| May | 200 | 10% |
| June | 138 | 7% |
| July | 198 | 10% |
| August | 159 | 8% |
| September | 163 | 8% |
| October | 141 | 7% |
| November | 149 | 8% |
| December | 150 | 8% |
| Total | 1935 | 100% |

Chapter 3 : Analysis of Deaths due to Non-Communicable diseases in rural Chhattisgarh (Heart Disease/stroke, Cancer, Diabetes and Sickle Cell Anemia)

3.1 Deaths due to Heart Disease/stroke (including congenital heart disease & anomalies):

VHSNCs have reported 22896 deaths during 2017 for which the cause is recorded as Heart Disease/stroke (including congenital heart disease & anomalies).

| S.N. | District | Rural Population (Census 2011) | Total reported deaths by VHSNC | No.of deaths due to Heart disease/stroke (including CHD/Anomalies) reported by VHSNC in 2016 | % | No.of death due to Heart disease/stroke (including CHD/Anomalies) reported by VHSNC in 2017 | % |
|----------------------|-------------|--------------------------------|--------------------------------|--|-------------|---|--------------|
| 1 | DURG | 617184 | 3738 | 461 | 11.6% | 1360 | 36.4% |
| 2 | JANJGIR | 1395433 | 7288 | 888 | 11.1% | 2527 | 34.7% |
| 3 | KAWARDHA | 734894 | 3210 | 320 | 9.0% | 989 | 30.8% |
| 4 | RAJNANDGAON | 1264980 | 6775 | 811 | 9.2% | 1979 | 29.2% |
| 5 | RAIGARH | 1247346 | 5494 | 518 | 6.9% | 1578 | 28.7% |
| 6 | BALOD | 720697 | 4347 | 419 | 9.3% | 1235 | 28.4% |
| 7 | DHAMTARI | 650045 | 4248 | 569 | 11.9% | 1192 | 28.1% |
| 8 | BILASPUR | 1347093 | 4796 | 602 | 9.9% | 1325 | 27.6% |
| 9 | MUNGELI | 636162 | 2564 | 219 | 8.8% | 683 | 26.6% |
| 10 | KORBA | 760360 | 2324 | 360 | 11.2% | 603 | 25.9% |
| 11 | BEMETARA | 721077 | 3389 | 305 | 8.0% | 844 | 24.9% |
| 12 | RAIPUR | 884237 | 4788 | 367 | 7.5% | 1134 | 23.7% |
| 13 | SURAJPUR | 717439 | 2926 | 170 | 4.5% | 688 | 23.5% |
| 14 | BALODABAZAR | 1138729 | 6046 | 498 | 7.2% | 1411 | 23.3% |
| 15 | KANKER | 671834 | 3086 | 226 | 6.4% | 673 | 21.8% |
| 16 | JASHPUR | 776017 | 4122 | 122 | 2.8% | 874 | 21.2% |
| 17 | SURGUJA | 703294 | 2894 | 205 | 5.8% | 611 | 21.1% |
| 18 | BASTAR | 697934 | 2394 | 132 | 5.1% | 503 | 21.0% |
| 19 | BALRAMPUR | 695579 | 2403 | 265 | 6.7% | 489 | 20.3% |
| 20 | MAHASAMUND | 912166 | 5439 | 328 | 5.1% | 1085 | 19.9% |
| 21 | NARAYANPUR | 118087 | 448 | 26 | 6.2% | 79 | 17.6% |
| 22 | KORIA | 453476 | 1160 | 67 | 4.3% | 184 | 15.9% |
| 23 | KONDAGAON | 520382 | 1485 | 68 | 3.4% | 233 | 15.7% |
| 24 | GARIYABAND | 556967 | 2378 | 186 | 5.8% | 366 | 15.4% |
| 25 | BIJAPUR | 225591 | 1203 | 40 | 3.2% | 108 | 9.0% |
| 26 | SUKMA | 221825 | 868 | 34 | 3.6% | 75 | 8.6% |
| 27 | DANTEWADA | 214830 | 1114 | 27 | 2.4% | 68 | 6.1% |
| State Average | | 19603658 | 90927 | 8233 | 7.7% | 22896 | 25.2% |

Stroke/heart disease deaths in non-tribal areas are much higher, presumably due to better availability of diagnosis in urban areas.

16% of these deaths are in 15-59 year age group.

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|-------------|
| 1 | 0-28 days | 74 | 0% |
| 2 | 1-11 month | 139 | 1% |
| 3 | 1-4 year | 139 | 1% |
| 4 | 5-14 year | 203 | 1% |
| 5 | 15-49year | 3565 | 16% |
| 6 | 50-59year | 3313 | 14% |
| 7 | 60-69year | 5001 | 22% |
| 8 | More than 70year | 10462 | 46% |
| Total | | 22896 | 100% |

59% of the deaths are of male persons.

| Gender | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 13460 | 59% |
| Female | 9436 | 41% |
| Total | 22896 | 100% |

The number of deaths per month does not have a seasonal pattern. .

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| January | 2093 | 9% |
| February | 1599 | 7% |
| March | 1566 | 7% |
| April | 1681 | 7% |
| May | 2260 | 10% |
| June | 1643 | 7% |
| July | 2062 | 9% |
| August | 1937 | 8% |
| September | 1922 | 8% |
| October | 1768 | 8% |
| November | 2153 | 9% |
| December | 2212 | 10% |
| Total | 22896 | 100% |

3.2 Deaths due to Cancer:

VHSNCs have reported 4313 deaths during 2017 for which the cause is recorded as Cancer.

| S.N. | District | Rural Population (Census 2011) | Total reported deaths by VHSNC | No.of death due to Cancer reported by VHSNC in 2016 | % | No.of death due to Cancer reported by VHSNC in 2017 | % |
|----------------------|-------------|--------------------------------|--------------------------------|---|-------------|---|-------------|
| 1 | MUNGELI | 636162 | 2564 | 120 | 4.8% | 173 | 6.7% |
| 2 | BEMETARA | 721077 | 3389 | 210 | 5.5% | 227 | 6.7% |
| 3 | KAWARDHA | 734894 | 3210 | 196 | 5.5% | 195 | 6.1% |
| 4 | DURG | 617184 | 3738 | 238 | 6.0% | 214 | 5.7% |
| 5 | JANJGIR | 1395433 | 7288 | 398 | 5.0% | 405 | 5.6% |
| 6 | RAIGARH | 1247346 | 5494 | 334 | 4.5% | 301 | 5.5% |
| 7 | RAIPUR | 884237 | 4788 | 252 | 5.2% | 262 | 5.5% |
| 8 | SURAJPUR | 717439 | 2926 | 154 | 4.1% | 159 | 5.4% |
| 9 | RAJNANDGAON | 1264980 | 6775 | 371 | 4.2% | 344 | 5.1% |
| 10 | BILASPUR | 1347093 | 4796 | 261 | 4.3% | 241 | 5.0% |
| 11 | KORIA | 453476 | 1160 | 61 | 3.9% | 58 | 5.0% |
| 12 | DHAMTARI | 650045 | 4248 | 212 | 4.4% | 198 | 4.7% |
| 13 | SURGUJA | 703294 | 2894 | 138 | 3.9% | 134 | 4.6% |
| 14 | BALOD | 720697 | 4347 | 177 | 3.9% | 188 | 4.3% |
| 15 | BALODABAZAR | 1138729 | 6046 | 265 | 3.9% | 252 | 4.2% |
| 16 | MAHASAMUND | 912166 | 5439 | 228 | 3.5% | 222 | 4.1% |
| 17 | KORBA | 760360 | 2324 | 118 | 3.7% | 89 | 3.8% |
| 18 | BALRAMPUR | 695579 | 2403 | 128 | 3.2% | 92 | 3.8% |
| 19 | JASHPUR | 776017 | 4122 | 135 | 3.1% | 157 | 3.8% |
| 20 | BASTAR | 697934 | 2394 | 80 | 3.1% | 90 | 3.8% |
| 21 | KANKER | 671834 | 3086 | 123 | 3.5% | 116 | 3.8% |
| 22 | NARAYANPUR | 118087 | 448 | 14 | 3.3% | 16 | 3.6% |
| 23 | GARIYABAND | 556967 | 2378 | 124 | 3.9% | 72 | 3.0% |
| 24 | BIJAPUR | 225591 | 1203 | 24 | 1.9% | 33 | 2.7% |
| 25 | KONDAGAON | 520382 | 1485 | 50 | 2.5% | 37 | 2.5% |
| 26 | DANTEWADA | 214830 | 1114 | 10 | 0.9% | 22 | 2.0% |
| 27 | SUKMA | 221825 | 868 | 15 | 1.6% | 16 | 1.8% |
| State Average | | 19603658 | 90927 | 4436 | 4.1% | 4313 | 4.7% |

Cancer deaths in non-tribal areas are much higher, presumably due to better availability of diagnosis in urban areas.

35% of these deaths are in 15-59 year age group.

| S.N. | Age Category | No. of Death reported | Percentage |
|--------------|------------------|-----------------------|-------------|
| 1 | 0-28 days | 0 | 0.0% |
| 2 | 1-11 month | 9 | 0.2% |
| 3 | 1-4 year | 37 | 0.9% |
| 4 | 5-14 year | 74 | 1.7% |
| 5 | 15-49year | 1513 | 35% |
| 6 | 50-59year | 958 | 22% |
| 7 | 60-69year | 879 | 20% |
| 8 | More than 70year | 843 | 20% |
| Total | | 4313 | 100% |

48% of the deaths are of male persons.

| Gender | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 2074 | 48% |
| Female | 2239 | 52% |
| Total | 4313 | 100% |

The number of deaths per month does not have a seasonal pattern. .

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| January | 286 | 7% |
| February | 249 | 6% |
| March | 362 | 8% |
| April | 369 | 9% |
| May | 447 | 10% |
| June | 378 | 9% |
| July | 403 | 9% |
| August | 429 | 10% |
| September | 360 | 8% |
| October | 341 | 8% |
| November | 352 | 8% |
| December | 337 | 8% |
| Total | 4313 | 100% |

3.3 Deaths due to Diabetes:

VHSNCs have reported 3032 deaths during 2017 for which the cause is recorded as Diabetes.

| S.N. | District | Rural Population (Census 2011) | Total reported deaths by VHSNC | No.of death due to Diabetes reported by VHSNC in 2016 | % | No.of death due to Diabetes reported by VHSNC in 2017 | % |
|----------------------|-------------|--------------------------------|--------------------------------|---|-------------|---|-------------|
| 1 | NARAYANPUR | 118087 | 448 | 14 | 3.3% | 29 | 6.5% |
| 2 | MUNGELI | 636162 | 2564 | 138 | 5.6% | 159 | 6.2% |
| 3 | KANKER | 671834 | 3086 | 159 | 4.5% | 177 | 5.7% |
| 4 | DHAMTARI | 650045 | 4248 | 210 | 4.4% | 201 | 4.7% |
| 5 | DURG | 617184 | 3738 | 145 | 3.7% | 159 | 4.3% |
| 6 | JANJGIR | 1395433 | 7288 | 314 | 3.9% | 294 | 4.0% |
| 7 | BEMETARA | 721077 | 3389 | 103 | 2.7% | 124 | 3.7% |
| 8 | BALOD | 720697 | 4347 | 115 | 2.6% | 149 | 3.4% |
| 9 | SURGUJA | 703294 | 2894 | 94 | 2.7% | 98 | 3.4% |
| 10 | BILASPUR | 1347093 | 4796 | 190 | 3.1% | 162 | 3.4% |
| 11 | MAHASAMUND | 912166 | 5439 | 180 | 2.8% | 180 | 3.3% |
| 12 | KORIA | 453476 | 1160 | 46 | 3.0% | 38 | 3.3% |
| 13 | RAIPUR | 884237 | 4788 | 137 | 2.8% | 153 | 3.2% |
| 14 | BALODABAZAR | 1138729 | 6046 | 221 | 3.2% | 187 | 3.1% |
| 15 | SURAJPUR | 717439 | 2926 | 87 | 2.3% | 88 | 3.0% |
| 16 | RAJNANDGAON | 1264980 | 6775 | 299 | 3.4% | 199 | 2.9% |
| 17 | RAIGARH | 1247346 | 5494 | 233 | 3.1% | 153 | 2.8% |
| 18 | KORBA | 760360 | 2324 | 87 | 2.7% | 64 | 2.8% |
| 19 | BASTAR | 697934 | 2394 | 46 | 1.8% | 63 | 2.6% |
| 20 | KAWARDHA | 734894 | 3210 | 109 | 3.1% | 83 | 2.6% |
| 21 | JASHPUR | 776017 | 4122 | 89 | 2.0% | 92 | 2.2% |
| 22 | GARIYABAND | 556967 | 2378 | 70 | 2.2% | 53 | 2.2% |
| 23 | BALRAMPUR | 695579 | 2403 | 65 | 1.6% | 50 | 2.1% |
| 24 | KONDAGAON | 520382 | 1485 | 53 | 2.6% | 30 | 2.0% |
| 25 | BIJAPUR | 225591 | 1203 | 17 | 1.4% | 22 | 1.8% |
| 26 | DANTEWADA | 214830 | 1114 | 12 | 1.1% | 15 | 1.3% |
| 27 | SUKMA | 221825 | 868 | 5 | 0.5% | 10 | 1.2% |
| State Average | | 19603658 | 90927 | 3238 | 3.0% | 3032 | 3.3% |

Most tribal districts (with exception of Narayanpur) show less deaths due to diabetes compared to non-tribal districts.

61% of these deaths are in above age 59 groups.

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|-------------|
| 1 | 0-28 days | 7 | 0.2% |
| 2 | 1-11 month | 0 | 0.0% |
| 3 | 1-4 year | 7 | 0.2% |
| 4 | 5-14 year | 25 | 0.8% |
| 5 | 15-49year | 594 | 20% |
| 6 | 50-59year | 555 | 18% |
| 7 | 60-69year | 777 | 26% |
| 8 | More than 70year | 1067 | 35% |
| Total | | 3032 | 100% |

60% of the deaths are of male persons.

| Gender | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 1828 | 60% |
| Female | 1204 | 40% |
| Total | 3032 | 100% |

The number of deaths per month does not have a seasonal pattern. .

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| January | 242 | 8% |
| February | 213 | 7% |
| March | 206 | 7% |
| April | 227 | 7% |
| May | 299 | 10% |
| June | 217 | 7% |
| July | 309 | 10% |
| August | 309 | 10% |
| September | 265 | 9% |
| October | 251 | 8% |
| November | 256 | 8% |
| December | 238 | 8% |
| Total | 3032 | 100% |

3.4 Deaths due to Digestive Disease:

VHSNCs have reported 4210 deaths during 2017 for which the cause is recorded as Digestive disease.

| S.N. | District | Rural Population (Census 2011) | Total reported deaths by VHSNC | No.of deaths due to Digestive disease reported by VHSNC in 2016 | % | No.of deaths due to Digestive disease reported by VHSNC in 2017 | % |
|----------------------|-------------|--------------------------------|--------------------------------|---|-------------|---|-------------|
| 1 | NARAYANPUR | 118087 | 448 | 34 | 8.1% | 46 | 10.3% |
| 2 | KORIA | 453476 | 1160 | 137 | 8.8% | 104 | 9.0% |
| 3 | BALRAMPUR | 695579 | 2403 | 279 | 7.0% | 207 | 8.6% |
| 4 | BIJAPUR | 225591 | 1203 | 47 | 3.8% | 96 | 8.0% |
| 5 | DANTEWADA | 214830 | 1114 | 56 | 5.0% | 88 | 7.9% |
| 6 | KANKER | 671834 | 3086 | 157 | 4.5% | 233 | 7.6% |
| 7 | SURGUJA | 703294 | 2894 | 245 | 6.9% | 215 | 7.4% |
| 8 | SURAJPUR | 717439 | 2926 | 268 | 7.1% | 207 | 7.1% |
| 9 | BASTAR | 697934 | 2394 | 139 | 5.3% | 141 | 5.9% |
| 10 | KONDAGAON | 520382 | 1485 | 150 | 7.4% | 87 | 5.9% |
| 11 | KORBA | 760360 | 2324 | 145 | 4.5% | 122 | 5.2% |
| 12 | GARIYABAND | 556967 | 2378 | 67 | 2.1% | 120 | 5.0% |
| 13 | JASHPUR | 776017 | 4122 | 168 | 3.9% | 208 | 5.0% |
| 14 | RAIGARH | 1247346 | 5494 | 251 | 3.4% | 269 | 4.9% |
| 15 | BILASPUR | 1347093 | 4796 | 171 | 2.8% | 223 | 4.6% |
| 16 | DHAMTARI | 650045 | 4248 | 100 | 2.1% | 180 | 4.2% |
| 17 | BEMETARA | 721077 | 3389 | 82 | 2.1% | 133 | 3.9% |
| 18 | RAJNANDGAON | 1264980 | 6775 | 239 | 2.7% | 260 | 3.8% |
| 19 | SUKMA | 221825 | 868 | 41 | 4.3% | 33 | 3.8% |
| 20 | DURG | 617184 | 3738 | 76 | 1.9% | 141 | 3.8% |
| 21 | JANJGIR | 1395433 | 7288 | 152 | 1.9% | 260 | 3.6% |
| 22 | RAIPUR | 884237 | 4788 | 53 | 1.1% | 170 | 3.6% |
| 23 | MUNGELI | 636162 | 2564 | 71 | 2.9% | 88 | 3.4% |
| 24 | KAWARDHA | 734894 | 3210 | 132 | 3.7% | 110 | 3.4% |
| 25 | BALODABAZAR | 1138729 | 6046 | 148 | 2.2% | 192 | 3.2% |
| 26 | BALOD | 720697 | 4347 | 60 | 1.3% | 127 | 2.9% |
| 27 | MAHASAMUND | 912166 | 5439 | 117 | 1.8% | 150 | 2.8% |
| State Average | | 19603658 | 90927 | 3585 | 3.3% | 4210 | 4.6% |

Tribal areas show higher share of Digestive diseases in mortality.

34% of these deaths are in 15-49 year age group.

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|-------------|
| 1 | 0-28 days | 95 | 2% |
| 2 | 1-11 month | 53 | 1% |
| 3 | 1-4 year | 114 | 3% |
| 4 | 5-14 year | 179 | 4% |
| 5 | 15-49year | 1441 | 34% |
| 6 | 50-59year | 696 | 17% |
| 7 | 60-69year | 713 | 17% |
| 8 | More than 70year | 919 | 22% |
| Total | | 4210 | 100% |

61% of the deaths are of male persons.

| Gender | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 2553 | 61% |
| Female | 1657 | 39% |
| Total | 4210 | 100% |

The number of deaths are relatively higher during July to October.

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| January | 224 | 5% |
| February | 229 | 5% |
| March | 257 | 6% |
| April | 265 | 6% |
| May | 421 | 10% |
| June | 335 | 8% |
| July | 431 | 10% |
| August | 453 | 11% |
| September | 475 | 11% |
| October | 419 | 10% |
| November | 387 | 9% |
| December | 314 | 7% |
| Total | 4210 | 100% |

3.5 Deaths due to Sickle Cell Anemia:

VHSNCs have reported 506 deaths during 2017 for which the cause is recorded as Sickle Cell Anemia.

| S.N. | District | Rural Population (Census 2011) | Total reported deaths by VHSNC | No. of deaths due to Sickle Cell Anemia reported by VHSNC in 2016 | % | No. of deaths due to Sickle Cell Anemia reported by VHSNC in 2017 | % |
|----------------------|-------------|--------------------------------|--------------------------------|---|-------------|---|-------------|
| 1 | MAHASAMUND | 912166 | 5439 | 50 | 0.8% | 59 | 1.1% |
| 2 | RAIGARH | 1247346 | 5494 | 42 | 0.6% | 50 | 0.9% |
| 3 | RAIPUR | 884237 | 4788 | 27 | 0.6% | 40 | 0.8% |
| 4 | GARIYABAND | 556967 | 2378 | 17 | 0.5% | 19 | 0.8% |
| 5 | SURAJPUR | 717439 | 2926 | 15 | 0.4% | 23 | 0.8% |
| 6 | DURG | 617184 | 3738 | 19 | 0.5% | 28 | 0.7% |
| 7 | NARAYANPUR | 118087 | 448 | 2 | 0.5% | 3 | 0.7% |
| 8 | BASTAR | 697934 | 2394 | 10 | 0.4% | 15 | 0.6% |
| 9 | SURGUJA | 703294 | 2894 | 25 | 0.7% | 18 | 0.6% |
| 10 | BEMETARA | 721077 | 3389 | 4 | 0.1% | 21 | 0.6% |
| 11 | JANJGIR | 1395433 | 7288 | 27 | 0.3% | 41 | 0.6% |
| 12 | KANKER | 671834 | 3086 | 17 | 0.5% | 17 | 0.6% |
| 13 | DHAMTARI | 650045 | 4248 | 28 | 0.6% | 23 | 0.5% |
| 14 | KORBA | 760360 | 2324 | 11 | 0.3% | 12 | 0.5% |
| 15 | MUNGELI | 636162 | 2564 | 7 | 0.3% | 11 | 0.4% |
| 16 | BALRAMPUR | 695579 | 2403 | 14 | 0.4% | 10 | 0.4% |
| 17 | BIJAPUR | 225591 | 1203 | 1 | 0.1% | 5 | 0.4% |
| 18 | BALODABAZAR | 1138729 | 6046 | 21 | 0.3% | 25 | 0.4% |
| 19 | KAWARDHA | 734894 | 3210 | 18 | 0.5% | 13 | 0.4% |
| 20 | JASHPUR | 776017 | 4122 | 8 | 0.2% | 15 | 0.4% |
| 21 | RAJNANDGAON | 1264980 | 6775 | 40 | 0.5% | 22 | 0.3% |
| 22 | BALOD | 720697 | 4347 | 21 | 0.5% | 14 | 0.3% |
| 23 | BILASPUR | 1347093 | 4796 | 14 | 0.2% | 13 | 0.3% |
| 24 | DANTEWADA | 214830 | 1114 | 8 | 0.7% | 3 | 0.3% |
| 25 | KORIA | 453476 | 1160 | 1 | 0.1% | 3 | 0.3% |
| 26 | KONDAGAON | 520382 | 1485 | 7 | 0.3% | 3 | 0.2% |
| 27 | SUKMA | 221825 | 868 | 3 | 0.3% | 0 | 0.0% |
| State Average | | 19603658 | 90927 | 457 | 0.4% | 506 | 0.6% |

52% of these deaths are in 15-49 year age group.

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|-------------|
| 1 | 0-28 days | 6 | 1.2% |
| 2 | 1-11 month | 8 | 1.6% |
| 3 | 1-4 year | 30 | 6% |
| 4 | 5-14 year | 112 | 22% |
| 5 | 15-49year | 265 | 52% |
| 6 | 50-59year | 34 | 6.7% |
| 7 | 60-69year | 25 | 4.9% |
| 8 | More than 70year | 26 | 5.1% |
| Total | | 506 | 100% |

47% of the deaths are of male persons.

| Gender | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 240 | 47% |
| Female | 266 | 53% |
| Total | 506 | 100% |

The number of deaths are relatively higher during August and September.

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| January | 36 | 7% |
| February | 28 | 6% |
| March | 32 | 6% |
| April | 26 | 5% |
| May | 50 | 10% |
| June | 38 | 8% |
| July | 44 | 9% |
| August | 60 | 12% |
| September | 71 | 14% |
| October | 39 | 8% |
| November | 49 | 10% |
| December | 33 | 7% |
| Total | 506 | 100% |

Chapter 4: Analysis of other important causes of deaths in rural Chhattisgarh – Accidents, Suicides, Snake-bite and Rabies

4.1 Deaths due to Accident:

VHSNCs have reported 6306 deaths during 2017 for which the cause is recorded as accident.

| S.N. | District | Rural Population (Census 2011) | Total reported deaths by VHSNC | No.of Accident death reported by VHSNC in 2016 | % | No.of Accident death reported by VHSNC in 2017 | % |
|----------------------|-------------|--------------------------------|--------------------------------|--|-------------|--|-------------|
| 1 | Surajpur | 717439 | 2926 | 284 | 7.5% | 292 | 10.0% |
| 2 | Balrampur | 695579 | 2403 | 346 | 8.7% | 233 | 9.7% |
| 3 | SURGUJA | 703294 | 2894 | 288 | 8.1% | 278 | 9.6% |
| 4 | Bijapur | 225591 | 1203 | 100 | 8.0% | 112 | 9.3% |
| 5 | Koria | 453476 | 1160 | 123 | 7.9% | 107 | 9.2% |
| 6 | Sukma | 221825 | 868 | 47 | 5.0% | 78 | 9.0% |
| 7 | Kondagaon | 520382 | 1485 | 163 | 8.1% | 130 | 8.8% |
| 8 | Bastar | 697934 | 2394 | 149 | 5.7% | 208 | 8.7% |
| 9 | Jashpur | 776017 | 4122 | 299 | 6.9% | 358 | 8.7% |
| 10 | Dantewada | 214830 | 1114 | 69 | 6.1% | 96 | 8.6% |
| 11 | Korba | 760360 | 2324 | 223 | 6.9% | 184 | 7.9% |
| 12 | Raipur | 884237 | 4788 | 375 | 7.7% | 373 | 7.8% |
| 13 | Balodabazar | 1138729 | 6046 | 375 | 5.5% | 448 | 7.4% |
| 14 | Bilaspur | 1347093 | 4796 | 469 | 7.7% | 354 | 7.4% |
| 15 | Janjgir | 1395433 | 7288 | 490 | 6.1% | 505 | 6.9% |
| 16 | Narayanpur | 118087 | 448 | 24 | 5.7% | 31 | 6.9% |
| 17 | Mungeli | 636162 | 2564 | 151 | 6.1% | 170 | 6.6% |
| 18 | Durg | 617184 | 3738 | 227 | 5.7% | 234 | 6.3% |
| 19 | Kawardha | 734894 | 3210 | 184 | 5.2% | 200 | 6.2% |
| 20 | Kanker | 671834 | 3086 | 221 | 6.3% | 192 | 6.2% |
| 21 | Mahasamund | 912166 | 5439 | 307 | 4.7% | 321 | 5.9% |
| 22 | Raigarh | 1247346 | 5494 | 399 | 5.3% | 312 | 5.7% |
| 23 | Dhamtari | 650045 | 4248 | 226 | 4.7% | 238 | 5.6% |
| 24 | Rajnandgaon | 1264980 | 6775 | 438 | 5.0% | 352 | 5.2% |
| 25 | Bemetara | 721077 | 3389 | 229 | 6.0% | 176 | 5.2% |
| 26 | Balod | 720697 | 4347 | 190 | 4.2% | 223 | 5.1% |
| 27 | Gariyaband | 556967 | 2378 | 125 | 3.9% | 101 | 4.2% |
| State Average | | 19603658 | 90927 | 6521 | 6.1% | 6306 | 6.9% |

Surprisingly, tribal districts have a bigger part of accidents in their mortality. Most districts have growing trend of accidents. One reason for that is greater occurrence of drowning and fall related deaths in tribal districts.

Classification of Accidental deaths:

| S.N. | Type of Accidental Death | No.of Deaths | % |
|--------------|--------------------------------|--------------|-------------|
| 1 | Road Accidents | 3570 | 56.6% |
| 2 | Falling (from roof, trees etc) | 871 | 13.8% |
| 3 | Drowning | 620 | 9.8% |
| 4 | Electrocution | 384 | 6.1% |
| 5 | Burning | 441 | 7.0% |
| 6 | Other injury | 127 | 2.0% |
| 7 | Lightening | 115 | 1.8% |
| 8 | Animal bites | 105 | 1.7% |
| 9 | Buried | 66 | 1.0% |
| 10 | Suffocated | 6 | 0.1% |
| 11 | Flood | 1 | 0.0% |
| Total | | 6306 | 100% |

**District wise relative proportion of deaths due to different kind of Accidents
(Out of Accidental deaths reported by VHSNCs):**

| S.N. | District | % Death due to Road Accident | % Death due to Falling | % Death due to Drowning | % of Death due to Electrocutation | % Death due to Burning |
|--------------|-------------|------------------------------|------------------------|-------------------------|-----------------------------------|------------------------|
| 1 | Balod | 70% | 10% | 7% | 7% | 3% |
| 2 | Balodabazar | 60% | 11% | 11% | 7% | 6% |
| 3 | Balrampur | 48% | 17% | 15% | 4% | 3% |
| 4 | Bastar | 49% | 24% | 15% | 2% | 5% |
| 5 | Bemetara | 50% | 14% | 6% | 7% | 13% |
| 6 | Bijapur | 56% | 19% | 15% | 4% | 3% |
| 7 | Bilaspur | 55% | 11% | 9% | 3% | 15% |
| 8 | Dantewada | 38% | 19% | 21% | 6% | 9% |
| 9 | Dhamtari | 57% | 16% | 11% | 7% | 5% |
| 10 | Durg | 61% | 11% | 7% | 8% | 9% |
| 11 | Gariyaband | 45% | 14% | 11% | 13% | 14% |
| 12 | Janjgir | 62% | 12% | 7% | 7% | 6% |
| 13 | Jashpur | 56% | 13% | 14% | 5% | 4% |
| 14 | Kanker | 55% | 19% | 12% | 5% | 7% |
| 15 | Kawardha | 62% | 10% | 6% | 11% | 6% |
| 16 | Kondagaon | 58% | 14% | 10% | 3% | 5% |
| 17 | Korba | 55% | 10% | 13% | 6% | 7% |
| 18 | Koria | 56% | 16% | 8% | 3% | 6% |
| 19 | Mahasamund | 67% | 8% | 6% | 5% | 7% |
| 20 | Mungeli | 61% | 8% | 8% | 10% | 10% |
| 21 | Narayanpur | 23% | 32% | 29% | 3% | 3% |
| 22 | Raigarh | 56% | 13% | 12% | 8% | 4% |
| 23 | Raipur | 69% | 7% | 6% | 6% | 9% |
| 24 | Rajnandgaon | 58% | 14% | 6% | 7% | 10% |
| 25 | Sukma | 49% | 19% | 13% | 5% | 9% |
| 26 | Surajpur | 47% | 22% | 9% | 7% | 7% |
| 27 | Surguja | 41% | 25% | 12% | 5% | 5% |
| Total | | 57% | 14% | 10% | 6% | 7% |

District wise percentage of deaths due to specific kind of Accidents out of total deaths reported by VHSNCs:

| S.N. | District | % Death due to Road Accident | % Death due to Falling | % Death due to Drowning | % of Death due to Electrocutation | % Death due to Burning |
|--------------|-------------|------------------------------|------------------------|-------------------------|-----------------------------------|------------------------|
| 1 | Balod | 3.57% | 0.51% | 0.35% | 0.35% | 0.14% |
| 2 | Balodabazar | 4.42% | 0.79% | 0.79% | 0.51% | 0.46% |
| 3 | Balrampur | 4.62% | 1.66% | 1.50% | 0.42% | 0.33% |
| 4 | Bastar | 4.22% | 2.09% | 1.29% | 0.21% | 0.46% |
| 5 | Bemetara | 2.60% | 0.71% | 0.30% | 0.38% | 0.65% |
| 6 | Bijapur | 5.24% | 1.75% | 1.41% | 0.33% | 0.25% |
| 7 | Bilaspur | 4.07% | 0.83% | 0.69% | 0.19% | 1.13% |
| 8 | Dantewada | 3.23% | 1.62% | 1.80% | 0.54% | 0.81% |
| 9 | Dhamtari | 3.20% | 0.89% | 0.64% | 0.40% | 0.28% |
| 10 | Durg | 3.83% | 0.70% | 0.45% | 0.48% | 0.56% |
| 11 | Gariyaband | 1.89% | 0.59% | 0.46% | 0.55% | 0.59% |
| 12 | Janjgir | 4.28% | 0.84% | 0.49% | 0.45% | 0.38% |
| 13 | Jashpur | 4.88% | 1.14% | 1.24% | 0.44% | 0.39% |
| 14 | Kanker | 3.43% | 1.17% | 0.75% | 0.32% | 0.42% |
| 15 | Kawardha | 3.83% | 0.59% | 0.34% | 0.65% | 0.34% |
| 16 | Kondagaon | 5.05% | 1.21% | 0.88% | 0.27% | 0.40% |
| 17 | Korba | 4.35% | 0.77% | 0.99% | 0.47% | 0.56% |
| 18 | Koria | 5.17% | 1.47% | 0.78% | 0.26% | 0.52% |
| 19 | Mahasamund | 3.97% | 0.48% | 0.33% | 0.28% | 0.42% |
| 20 | Mungeli | 4.02% | 0.51% | 0.51% | 0.66% | 0.66% |
| 21 | Narayanpur | 1.56% | 2.23% | 2.01% | 0.22% | 0.22% |
| 22 | Raigarh | 3.20% | 0.73% | 0.66% | 0.47% | 0.22% |
| 23 | Raipur | 5.39% | 0.52% | 0.50% | 0.50% | 0.67% |
| 24 | Rajnandgaon | 3.00% | 0.74% | 0.32% | 0.35% | 0.52% |
| 25 | Sukma | 4.38% | 1.73% | 1.15% | 0.46% | 0.81% |
| 26 | Surajpur | 4.68% | 2.22% | 0.85% | 0.65% | 0.65% |
| 27 | Surguja | 3.94% | 2.42% | 1.11% | 0.45% | 0.48% |
| Total | | 3.93% | 0.96% | 0.68% | 0.42% | 0.49% |

55% of these deaths are in 15-49 year age group.

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|-------------|
| 1 | 0-28 days | 39 | 1% |
| 2 | 1-11 month | 51 | 1% |
| 3 | 1-4 year | 261 | 4% |
| 4 | 5-14 year | 530 | 8% |
| 5 | 15-49year | 3458 | 55% |
| 6 | 50-59year | 681 | 11% |
| 7 | 60-69year | 514 | 8% |
| 8 | More than 70year | 772 | 12% |
| Total | | 6306 | 100% |

70% of the deaths due to accident are of male persons.

| Gender | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 4443 | 70% |
| Female | 1863 | 30% |
| Total | 6306 | 100% |

The number of deaths per month does not have a seasonal pattern.

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| January | 466 | 7% |
| February | 400 | 6% |
| March | 448 | 7% |
| April | 563 | 9% |
| May | 697 | 11% |
| June | 594 | 9% |
| July | 588 | 9% |
| August | 528 | 8% |
| September | 561 | 9% |
| October | 502 | 8% |
| November | 469 | 7% |
| December | 490 | 8% |
| Total | 6306 | 100% |

4.2 Deaths due to suicide:

VHSNCs have reported 3105 deaths during 2017 for which the cause is recorded as suicide.

| S.N. | District | Rural Population (Census 2011) | Total reported deaths by VHSNC | No. of Suicide deaths reported by VHSNC in 2016 | % | No. of Suicide deaths reported by VHSNC in 2017 | % |
|----------------------|-------------|--------------------------------|--------------------------------|---|-------------|---|-------------|
| 1 | Dantewada | 214830 | 1114 | 46 | 4.1% | 63 | 5.7% |
| 2 | Kondagaon | 520382 | 1485 | 66 | 3.3% | 83 | 5.6% |
| 3 | Sukma | 221825 | 868 | 20 | 2.1% | 48 | 5.5% |
| 4 | Bijapur | 225591 | 1203 | 60 | 4.8% | 65 | 5.4% |
| 5 | Narayanpur | 118087 | 448 | 17 | 4.0% | 22 | 4.9% |
| 6 | Durg | 617184 | 3738 | 200 | 5.0% | 180 | 4.8% |
| 7 | Raipur | 884237 | 4788 | 249 | 5.1% | 217 | 4.5% |
| 8 | Dhamtari | 650045 | 4248 | 196 | 4.1% | 186 | 4.4% |
| 9 | Surajpur | 717439 | 2926 | 135 | 3.6% | 126 | 4.3% |
| 10 | Kanker | 671834 | 3086 | 145 | 4.1% | 127 | 4.1% |
| 11 | Koria | 453476 | 1160 | 41 | 2.6% | 43 | 3.7% |
| 12 | Balod | 720697 | 4347 | 118 | 2.6% | 155 | 3.6% |
| 13 | Surguja | 703294 | 2894 | 116 | 3.3% | 98 | 3.4% |
| 14 | Mahasamund | 912166 | 5439 | 201 | 3.1% | 183 | 3.4% |
| 15 | Bastar | 697934 | 2394 | 76 | 2.9% | 79 | 3.3% |
| 16 | Korba | 760360 | 2324 | 100 | 3.1% | 76 | 3.3% |
| 17 | Gariyaband | 556967 | 2378 | 94 | 2.9% | 75 | 3.2% |
| 18 | Bilaspur | 1347093 | 4796 | 206 | 3.4% | 145 | 3.0% |
| 19 | Raigarh | 1247346 | 5494 | 229 | 3.1% | 165 | 3.0% |
| 20 | Janjgir | 1395433 | 7288 | 223 | 2.8% | 210 | 2.9% |
| 21 | Balrampur | 695579 | 2403 | 110 | 2.8% | 69 | 2.9% |
| 22 | Rajnandgaon | 1264980 | 6775 | 231 | 2.6% | 193 | 2.8% |
| 23 | Balodabazar | 1138729 | 6046 | 228 | 3.3% | 172 | 2.8% |
| 24 | Kawardha | 734894 | 3210 | 78 | 2.2% | 86 | 2.7% |
| 25 | Jashpur | 776017 | 4122 | 129 | 3.0% | 99 | 2.4% |
| 26 | Mungeli | 636162 | 2564 | 51 | 2.1% | 61 | 2.4% |
| 27 | Bemetara | 721077 | 3389 | 107 | 2.8% | 79 | 2.3% |
| State Average | | 19603658 | 90927 | 3472 | 3.2% | 3105 | 3.4% |

Some tribal districts, especially the 5 districts in southern part of Bastar division show higher suicide rates and also with an increasing trend. The pattern is mixed as these districts are closely followed by urban districts like Raipur and Durg.

78% of these deaths are in 15-49 year age group. Deaths due to suicide are also high in the 50-59 year age group.

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|-------------|
| 1 | 15 to 25 years | 1062 | 34% |
| 2 | 26 to 35 years | 730 | 24% |
| 3 | 36 to 49 years | 609 | 20% |
| 4 | 50-59year | 338 | 11% |
| 5 | 60-69year | 195 | 6% |
| 6 | More than 70year | 171 | 6% |
| Total | | 3105 | 100% |

69% of the deaths due to suicide are of male persons. There is some reduction in suicides by women with age, 25 year onwards.

| S.N. | Age Category | Male | % | Female | % | Total |
|--------------|--------------------|-------------|------------|------------|------------|-------------|
| 1 | 15 to 25 years | 659 | 62% | 403 | 38% | 1062 |
| 2 | 26 to 35 years | 501 | 69% | 229 | 31% | 730 |
| 3 | 36 to 49 years | 450 | 74% | 159 | 26% | 609 |
| 4 | 50 to 59 years | 268 | 79% | 70 | 21% | 338 |
| 5 | 60 to 69 years | 147 | 75% | 48 | 25% | 195 |
| 6 | More than 70 years | 126 | 74% | 45 | 26% | 171 |
| Total | | 2151 | 69% | 954 | 31% | 3105 |

The number of deaths per month does not have a seasonal pattern.

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| January | 215 | 7% |
| February | 220 | 7% |
| March | 264 | 9% |
| April | 277 | 9% |
| May | 298 | 10% |
| June | 257 | 8% |
| July | 326 | 10% |
| August | 286 | 9% |
| September | 262 | 8% |
| October | 268 | 9% |
| November | 246 | 8% |
| December | 186 | 6% |
| Total | 3105 | 100% |

4.3 Deaths due to snake bite:

VHSNCs have reported 611 deaths during 2017 for which the cause is recorded as snake bite.

| S.N. | District | Rural Population (Census 2011) | Total reported deaths by VHSNC | No.of Deaths reported by VHSNC in 2016 | % | No.of Deaths reported by VHSNC in 2017 | % |
|----------------------|-------------|--------------------------------|--------------------------------|--|-------------|--|-------------|
| 1 | Sukma | 221825 | 868 | 12 | 1.3% | 18 | 2.1% |
| 2 | Dantewada | 214830 | 1114 | 25 | 2.2% | 22 | 2.0% |
| 3 | Bijapur | 225591 | 1203 | 26 | 2.1% | 22 | 1.8% |
| 4 | Balrampur | 695579 | 2403 | 66 | 1.7% | 43 | 1.8% |
| 5 | Koria | 453476 | 1160 | 18 | 1.2% | 17 | 1.5% |
| 6 | Narayanpur | 118087 | 448 | 6 | 1.4% | 6 | 1.3% |
| 7 | Kondagaon | 520382 | 1485 | 18 | 0.9% | 19 | 1.3% |
| 8 | Kanker | 671834 | 3086 | 37 | 1.1% | 33 | 1.1% |
| 9 | Mungeli | 636162 | 2564 | 13 | 0.5% | 25 | 1.0% |
| 10 | Bastar | 697934 | 2394 | 29 | 1.1% | 22 | 0.9% |
| 11 | Kawardha | 734894 | 3210 | 38 | 1.1% | 28 | 0.9% |
| 12 | Korba | 760360 | 2324 | 22 | 0.7% | 20 | 0.9% |
| 13 | Janjgir | 1395433 | 7288 | 55 | 0.7% | 61 | 0.8% |
| 14 | Surguja | 703294 | 2894 | 22 | 0.6% | 21 | 0.7% |
| 15 | Bilaspur | 1347093 | 4796 | 42 | 0.7% | 33 | 0.7% |
| 16 | Raigarh | 1247346 | 5494 | 64 | 0.9% | 35 | 0.6% |
| 17 | Gariyaband | 556967 | 2378 | 10 | 0.3% | 13 | 0.5% |
| 18 | Rajnandgaon | 1264980 | 6775 | 59 | 0.7% | 37 | 0.5% |
| 19 | Surajpur | 717439 | 2926 | 21 | 0.6% | 14 | 0.5% |
| 20 | Mahasamund | 912166 | 5439 | 30 | 0.5% | 26 | 0.5% |
| 21 | Jashpur | 776017 | 4122 | 36 | 0.8% | 18 | 0.4% |
| 22 | Bemetara | 721077 | 3389 | 17 | 0.4% | 14 | 0.4% |
| 23 | Raipur | 884237 | 4788 | 15 | 0.3% | 16 | 0.3% |
| 24 | Balodabazar | 1138729 | 6046 | 35 | 0.5% | 20 | 0.3% |
| 25 | Durg | 617184 | 3738 | 7 | 0.2% | 11 | 0.3% |
| 26 | Dhamtari | 650045 | 4248 | 11 | 0.2% | 10 | 0.2% |
| 27 | Balod | 720697 | 4347 | 3 | 0.1% | 7 | 0.2% |
| State Average | | 19603658 | 90927 | 737 | 0.7% | 611 | 0.7% |

49% of these deaths are in 15-49 year age group. Deaths due to snake bite are also high in the 5-14 year age group.

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|-------------|
| 1 | 0-28 days | 0 | 0% |
| 2 | 1-11 month | 7 | 1% |
| 3 | 1-4 year | 41 | 7% |
| 4 | 5-14 year | 119 | 19% |
| 5 | 15-49year | 298 | 49% |
| 6 | 50-59year | 64 | 10% |
| 7 | 60-69year | 47 | 8% |
| 8 | More than 70year | 35 | 6% |
| Total | | 611 | 100% |

49% of the deaths due to snake bite are of male persons.

| Gender | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 297 | 49% |
| Female | 314 | 51% |
| Total | 611 | 100% |

The number of deaths per month is slightly higher during June to August.

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| January | 13 | 2% |
| February | 4 | 1% |
| March | 16 | 3% |
| April | 30 | 5% |
| May | 53 | 9% |
| June | 134 | 22% |
| July | 117 | 19% |
| August | 103 | 17% |
| September | 56 | 9% |
| October | 62 | 10% |
| November | 16 | 3% |
| December | 7 | 1% |
| Total | 611 | 100% |

4.4 Deaths due to Rabies:

VHSNCs have reported 76 deaths during 2017 for which the cause is recorded as Rabies

| S.N. | District | Rural Population (Census 2011) | Total reported deaths by VHSNC | No.of Deaths reported by VHSNC in 2016 | % | No.of Deaths reported by VHSNC in 2017 | % |
|----------------------|-------------|--------------------------------|--------------------------------|--|-------------|--|-------------|
| 1 | Koria | 453476 | 1160 | 5 | 0.3% | 3 | 0.3% |
| 2 | Bastar | 697934 | 2394 | 3 | 0.1% | 6 | 0.3% |
| 3 | Jashpur | 776017 | 4122 | 8 | 0.2% | 10 | 0.2% |
| 4 | Kondagaon | 520382 | 1485 | 1 | 0.0% | 3 | 0.2% |
| 5 | Bijapur | 225591 | 1203 | 2 | 0.2% | 2 | 0.2% |
| 6 | Bilaspur | 1347093 | 4796 | 10 | 0.2% | 7 | 0.1% |
| 7 | Surguja | 703294 | 2894 | 10 | 0.3% | 4 | 0.1% |
| 8 | Korba | 760360 | 2324 | 10 | 0.3% | 3 | 0.1% |
| 9 | Durg | 617184 | 3738 | 2 | 0.1% | 4 | 0.1% |
| 10 | Kawardha | 734894 | 3210 | 7 | 0.2% | 3 | 0.1% |
| 11 | Rajnandgaon | 1264980 | 6775 | 5 | 0.1% | 5 | 0.1% |
| 12 | Mahasamund | 912166 | 5439 | 9 | 0.1% | 4 | 0.1% |
| 13 | Raigarh | 1247346 | 5494 | 6 | 0.1% | 4 | 0.1% |
| 14 | Surajpur | 717439 | 2926 | 2 | 0.1% | 2 | 0.1% |
| 15 | Bemetara | 721077 | 3389 | 4 | 0.1% | 2 | 0.1% |
| 16 | Janjgir | 1395433 | 7288 | 5 | 0.1% | 4 | 0.1% |
| 17 | Balodabazar | 1138729 | 6046 | 7 | 0.1% | 3 | 0.0% |
| 18 | Raipur | 884237 | 4788 | 1 | 0.0% | 2 | 0.0% |
| 19 | Balrampur | 695579 | 2403 | 7 | 0.2% | 1 | 0.0% |
| 20 | Mungeli | 636162 | 2564 | 7 | 0.3% | 1 | 0.0% |
| 21 | Kanker | 671834 | 3086 | 1 | 0.0% | 1 | 0.0% |
| 22 | Dhamtari | 650045 | 4248 | 2 | 0.0% | 1 | 0.0% |
| 23 | Balod | 720697 | 4347 | 0 | 0.0% | 1 | 0.0% |
| 24 | Dantewada | 214830 | 1114 | 2 | 0.2% | 0 | 0.0% |
| 25 | Gariyaband | 556967 | 2378 | 0 | 0.0% | 0 | 0.0% |
| 26 | Narayanpur | 118087 | 448 | 0 | 0.0% | 0 | 0.0% |
| 27 | Sukma | 221825 | 868 | 3 | 0.3% | 0 | 0.0% |
| State Average | | 19603658 | 90927 | 119 | 0.1% | 76 | 0.1% |

70% of these deaths are in 5-59 year age group.

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|-------------|
| 1 | 0-28 days | 0 | 0% |
| 2 | 1-11 month | 0 | 0% |
| 3 | 1-4 year | 4 | 5% |
| 4 | 5-14 year | 16 | 21% |
| 5 | 15-49year | 19 | 25% |
| 6 | 50-59year | 18 | 24% |
| 7 | 60-69year | 9 | 12% |
| 8 | More than 70year | 10 | 13% |
| Total | | 76 | 100% |

61% of the deaths due to Rabies are of male persons.

| Gender | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 46 | 61% |
| Female | 30 | 39% |
| Total | 76 | 100% |

The number of deaths per month is slightly higher during January, March and April.

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| January | 13 | 17% |
| February | 3 | 4% |
| March | 10 | 13% |
| April | 12 | 16% |
| May | 9 | 12% |
| June | 7 | 9% |
| July | 4 | 5% |
| August | 7 | 9% |
| September | 4 | 5% |
| October | 1 | 1% |
| November | 5 | 7% |
| December | 1 | 1% |
| Total | 76 | 100% |

Analysis for some other causes is available in Annexure - I

Chapter 5: Analysis of Under-5 Child Deaths in rural Chhattisgarh

5.1 District wise no. of Newborn Deaths (0 to 28 days) in 2017

The report covers 5378 of the total 16,273 estimated neonatal deaths in the rural areas of the state. Thus the overall reporting percentage for neonatal deaths is 33%. The reporting percentage is higher from districts like Mungeli, Sukma, Dantewada and is low from districts like Narayanpur, Jashpur, Kanker.

| S.N. | District | Rural Population (Census 2011) | Expected no. of Neonatal deaths | Total reported deaths by VHSNC in 2017 | No. of Neonatal Deaths Reported in 2016 | % | No. of Neonatal Deaths Reported in 2017 | % | Reporting % |
|----------------------|-------------|--------------------------------|---------------------------------|--|---|-------------|---|-------------|-------------|
| 1 | Mungeli | 636162 | 465 | 2564 | 223 | 9.0% | 227 | 8.9% | 49% |
| 2 | Sukma | 221825 | 179 | 868 | 66 | 7.0% | 76 | 8.8% | 43% |
| 3 | Dantewada | 214830 | 166 | 1114 | 53 | 4.7% | 93 | 8.3% | 56% |
| 4 | Koria | 453476 | 414 | 1160 | 112 | 7.2% | 92 | 7.9% | 22% |
| 5 | Balrampur | 695579 | 547 | 2403 | 280 | 7.1% | 185 | 7.7% | 34% |
| 6 | Gariyaband | 556967 | 582 | 2378 | 276 | 8.6% | 170 | 7.1% | 29% |
| 7 | Bemetara | 721077 | 468 | 3389 | 259 | 6.8% | 237 | 7.0% | 51% |
| 8 | Rajnandgaon | 1264980 | 1248 | 6775 | 545 | 6.2% | 460 | 6.8% | 37% |
| 9 | Raipur | 884237 | 958 | 4788 | 278 | 5.7% | 313 | 6.5% | 33% |
| 10 | Bilaspur | 1347093 | 949 | 4796 | 323 | 5.3% | 307 | 6.4% | 32% |
| 11 | Bijapur | 225591 | 168 | 1203 | 45 | 3.6% | 77 | 6.4% | 46% |
| 12 | Mahasamund | 912166 | 825 | 5439 | 347 | 5.3% | 348 | 6.4% | 42% |
| 13 | Bastar | 697934 | 398 | 2394 | 144 | 5.5% | 152 | 6.3% | 38% |
| 14 | Kondagaon | 520382 | 298 | 1485 | 122 | 6.0% | 93 | 6.3% | 31% |
| 15 | Durg | 617184 | 419 | 3738 | 189 | 4.8% | 228 | 6.1% | 54% |
| 16 | Surajpur | 717439 | 585 | 2926 | 249 | 6.6% | 178 | 6.1% | 30% |
| 17 | Kawardha | 734894 | 948 | 3210 | 234 | 6.6% | 194 | 6.0% | 20% |
| 18 | Korba | 760360 | 840 | 2324 | 209 | 6.5% | 136 | 5.9% | 16% |
| 19 | Raigarh | 1247346 | 1029 | 5494 | 437 | 5.9% | 312 | 5.7% | 30% |
| 20 | Balodabazar | 1138729 | 1147 | 6046 | 474 | 6.9% | 338 | 5.6% | 29% |
| 21 | Surguja | 703294 | 594 | 2894 | 188 | 5.3% | 156 | 5.4% | 26% |
| 22 | Janjgir | 1395433 | 996 | 7288 | 424 | 5.3% | 352 | 4.8% | 35% |
| 23 | Dhamtari | 650045 | 522 | 4248 | 228 | 4.8% | 192 | 4.5% | 37% |
| 24 | Balod | 720697 | 447 | 4347 | 224 | 5.0% | 181 | 4.2% | 40% |
| 25 | Kanker | 671834 | 379 | 3086 | 154 | 4.4% | 115 | 3.7% | 30% |
| 26 | Jashpur | 776017 | 637 | 4122 | 196 | 4.5% | 152 | 3.7% | 24% |
| 27 | Narayanpur | 118087 | 68 | 448 | 21 | 5.0% | 14 | 3.1% | 21% |
| State Average | | 19603658 | 16273 | 90927 | 6300 | 5.9% | 5378 | 5.9% | 33% |

The neonatal deaths recorded monthly are slightly higher during May and July.

| MONTH | No. of Deaths Reported | Percentage % |
|--------------|-------------------------------|---------------------|
| January | 427 | 8% |
| February | 337 | 6% |
| March | 405 | 8% |
| April | 432 | 8% |
| May | 539 | 10% |
| June | 433 | 8% |
| July | 512 | 10% |
| August | 487 | 9% |
| September | 421 | 8% |
| October | 437 | 8% |
| November | 490 | 9% |
| December | 458 | 9% |
| Total | 5378 | 100% |

59% of the neonatal deaths recorded were of male children.

| Gender | No. of Deaths reported | Percentage |
|---------------|-------------------------------|-------------------|
| Female | 2200 | 41% |
| Male | 3178 | 59% |
| Total | 5378 | 100% |

The causes for 31% of reported neonatal deaths are due to neonatal conditions (Birth Asphyxia & sepsis). Low Birth Weight and Pneumonia were also important causes of neonatal deaths.

| Reported Causes | No.of Deaths reported in 2017 | % in 2017 | % in 2016 | % in 2015 | % in 2014 | % in 2013 |
|------------------------------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|
| Accident | 39 | 0.70% | 1% | 1% | 0% | 0% |
| Convulsion | 159 | 3.00% | 4% | 3% | 3% | 2% |
| Fever | 81 | 1.50% | 2% | 2% | 3% | 2% |
| Neonatal Jaundice | 188 | 3.50% | 4% | 3% | 4% | 3% |
| Low Birth Weight | 711 | 13.20% | 16% | 17% | 14% | 11% |
| Diarrhea | 53 | 1.00% | 1% | 1% | 1% | 1% |
| Pneumonia | 337 | 6.30% | 8% | 7% | 7% | 8% |
| T.B. | 4 | 0.10% | 0% | 0% | 0% | 0% |
| Congenital Heart Disease/Anomalies | 74 | 1.40% | 1% | | | |
| Digestive Diseases | 95 | 1.80% | 3% | | | |
| Genito-urinary Diseases | 8 | 0.10% | 0% | | | |
| Neonatal Diabetes | 7 | 0.10% | 0% | | | |
| Sickle Cell Anemia | 6 | 0.10% | 0% | | | |
| Birth Asphyxia | 926 | 17.22% | 59% | 61% | 63% | 60% |
| Neonatal sepsis | 433 | 8.05% | | | | |
| Other | 2257 | 42% | 1% | 5% | 6% | 12% |
| Total | 5378 | 100% | 100% | 100% | 100% | 100% |

Reported symptoms of Neonatal sepsis:

| Reported Symptoms | No.of Deaths | % |
|-----------------------------------|--------------|-------------|
| <i>Pus on umbilicus</i> | 19 | 4.39% |
| <i>Distended abdomen</i> | 61 | 14.09% |
| <i>Hypothermia</i> | 12 | 2.77% |
| <i>Cry weak/stopped</i> | 22 | 5.08% |
| <i>Increased Respiratory Rate</i> | 61 | 14.09% |
| <i>Unconsciousness</i> | 39 | 9.01% |
| <i>Feeding less/stopped</i> | 219 | 50.58% |
| Total | 433 | 100% |

5.2 District wise no. of Post-Neonatal Infant Deaths (29 days to 11 months age group) in 2017

The report covers 1676 of the total 6,614 estimated deaths in the 1-11 month age group in rural areas of the state. Thus the overall reporting percentage for this set of deaths is 25%. The reporting percentage is higher from districts like Bijapur, Sukma, Kawardha and is low from districts like Narayanpur, Raigarh and Kanker.

| S.N. | District | Rural Population (Census 2011) | Expected no. of Neonatal deaths | Total reported deaths by VHSNC | No. of Post-Neonatal Deaths Reported in 2016 | % | No. of Post-Neonatal Deaths Reported in 2017 | % | Reporting % |
|----------------------|-------------|--------------------------------|---------------------------------|--------------------------------|--|-------------|--|-------------|-------------|
| 1 | Bijapur | 225591 | 87 | 1203 | 74 | 6.0% | 49 | 4.1% | 57% |
| 2 | Sukma | 221825 | 92 | 868 | 63 | 6.6% | 35 | 4.0% | 38% |
| 3 | Kawardha | 734894 | 361 | 3210 | 118 | 3.3% | 101 | 3.1% | 28% |
| 4 | Dantewada | 214830 | 86 | 1114 | 32 | 2.9% | 34 | 3.1% | 40% |
| 5 | Kondagaon | 520382 | 154 | 1485 | 66 | 3.3% | 45 | 3.0% | 29% |
| 6 | Balrampur | 695579 | 434 | 2403 | 156 | 3.9% | 68 | 2.8% | 16% |
| 7 | Bastar | 697934 | 206 | 2394 | 102 | 3.9% | 61 | 2.5% | 30% |
| 8 | Gariyaband | 556967 | 123 | 2378 | 98 | 3.1% | 58 | 2.4% | 47% |
| 9 | Surguja | 703294 | 471 | 2894 | 108 | 3.1% | 70 | 2.4% | 15% |
| 10 | Bilaspur | 1347093 | 402 | 4796 | 196 | 3.2% | 106 | 2.2% | 26% |
| 11 | Mungeli | 636162 | 197 | 2564 | 60 | 2.4% | 56 | 2.2% | 28% |
| 12 | Raipur | 884237 | 202 | 4788 | 71 | 1.5% | 100 | 2.1% | 50% |
| 13 | Bemetara | 721077 | 226 | 3389 | 102 | 2.7% | 70 | 2.1% | 31% |
| 14 | Jashpur | 776017 | 372 | 4122 | 101 | 2.3% | 74 | 1.8% | 20% |
| 15 | Surajpur | 717439 | 464 | 2926 | 132 | 3.5% | 51 | 1.7% | 11% |
| 16 | Durg | 617184 | 202 | 3738 | 67 | 1.7% | 65 | 1.7% | 32% |
| 17 | Balodabazar | 1138729 | 241 | 6046 | 160 | 2.3% | 103 | 1.7% | 43% |
| 18 | Dhamtari | 650045 | 169 | 4248 | 63 | 1.3% | 70 | 1.6% | 41% |
| 19 | Koria | 453476 | 176 | 1160 | 58 | 3.7% | 19 | 1.6% | 11% |
| 20 | Rajnandgaon | 1264980 | 384 | 6775 | 204 | 2.3% | 109 | 1.6% | 28% |
| 21 | Korba | 760360 | 229 | 2324 | 83 | 2.6% | 32 | 1.4% | 14% |
| 22 | Mahasamund | 912166 | 423 | 5439 | 111 | 1.7% | 71 | 1.3% | 17% |
| 23 | Janjgir | 1395433 | 410 | 7288 | 157 | 2.0% | 92 | 1.3% | 22% |
| 24 | Balod | 720697 | 216 | 4347 | 47 | 1.0% | 48 | 1.1% | 22% |
| 25 | Kanker | 671834 | 267 | 3086 | 55 | 1.6% | 31 | 1.0% | 12% |
| 26 | Raigarh | 1247346 | 433 | 5494 | 125 | 1.7% | 54 | 1.0% | 12% |
| 27 | Narayanpur | 118087 | 35 | 448 | 17 | 4.0% | 4 | 0.9% | 11% |
| State Average | | 19603658 | 6614 | 90927 | 2626 | 2.4% | 1676 | 1.8% | 25% |

The post-neonatal infant deaths recorded monthly are slightly higher during May and October.

| Month | No.of Death Reported | % |
|--------------|-----------------------------|-------------|
| January | 145 | 9% |
| February | 124 | 7% |
| March | 128 | 8% |
| April | 158 | 9% |
| May | 181 | 11% |
| June | 117 | 7% |
| July | 135 | 8% |
| August | 123 | 7% |
| September | 114 | 7% |
| October | 166 | 10% |
| November | 145 | 9% |
| December | 140 | 8% |
| Total | 1676 | 100% |

51% of the post-neonatal deaths recorded were of male children.

| Gender | No.of Death Reported | % |
|---------------|-----------------------------|-------------|
| Male | 863 | 51% |
| Female | 813 | 49% |
| Total | 1676 | 100% |

Information regarding the specific cause of death has been recorded by VHSNCs. Pneumonia, Malnutrition and Congenital Heart Disease/Anomalies were the most common causes of deaths. Fever/Malaria, Diarrhoea and convulsion were also important causes.

| Reported Causes | No.of Deaths reported in 2017 | % in 2017 | % in 2016 | % in 2015 | % in 2014 | % in 2013 |
|------------------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|
| Accident | 51 | 3% | 4% | 5% | 1% | 4% |
| Convulsion | 61 | 4% | 5% | 3% | 2% | 2% |
| Fever/Malaria | 118 | 7% | 9% | 10% | 13% | 16% |
| Childhood Jaundice | 64 | 4% | 4% | 3% | 4% | 5% |
| Malnutrition | 141 | 8% | 15% | 8% | 10% | 8% |
| Pneumonia | 317 | 19% | 35% | 30% | 28% | 20% |
| Snake bite | 7 | 0% | 0% | 0% | 0% | 0% |
| Diarrhea | 81 | 5% | 7% | 6% | 6% | 8% |
| T.B. | 4 | 0% | 0% | 0% | 0% | 1% |
| Congenital Heart Disease/Anomalies | 139 | 8% | 10% | | | |
| Digestive Diseases | 53 | 3% | 5% | | | |
| Genito-urinary Diseases | 4 | 0% | 0% | | | |
| Diabetes | 0 | 0% | 0% | | | |
| Sickle Cell Anemia | 8 | 0% | 0% | | | |
| Cancer | 9 | 1% | 0% | | | |
| Other | 619 | 37% | 4% | 35% | 35% | 35% |
| Total | 1676 | 100% | 100% | 100% | 100% | 100% |

5.3 District wise no. of Child Deaths (1 to 4 years) in 2017

The report covers 1918 of the total 8,032 estimated deaths in the 1-4 year age group (older than 1 year and yet to complete 5 years age) in rural areas of the state. Thus the overall reporting percentage for this set of deaths is 24%. The reporting percentage is higher from districts like Narayanpur, Balrampur, Sukma and is low from districts like Raigarh, Kanker, Balod.

| S.N. | District | Rural Population (Census 2011) | Expected no. of Neonatal deaths | Total reported deaths by VHSNC in 2017 | No. of Child Deaths Reported in 2016 | % | No. of Child Deaths Reported in 2017 | % | Reporting % |
|----------------------|-------------|--------------------------------|---------------------------------|--|--------------------------------------|-------------|--------------------------------------|-------------|-------------|
| 1 | Narayanpur | 118087 | 38 | 448 | 17 | 4.0% | 20 | 4.5% | 53% |
| 2 | Balrampur | 695579 | 773 | 2403 | 182 | 4.6% | 106 | 4.4% | 14% |
| 3 | Sukma | 221825 | 115 | 868 | 46 | 4.8% | 34 | 3.9% | 29% |
| 4 | Bijapur | 225591 | 97 | 1203 | 53 | 4.3% | 47 | 3.9% | 48% |
| 5 | Bastar | 697934 | 191 | 2394 | 74 | 2.8% | 92 | 3.8% | 48% |
| 6 | Dantewada | 214830 | 102 | 1114 | 51 | 4.5% | 42 | 3.8% | 41% |
| 7 | Bemetara | 721077 | 162 | 3389 | 75 | 2.0% | 100 | 3.0% | 62% |
| 8 | Korba | 760360 | 191 | 2324 | 87 | 2.7% | 64 | 2.8% | 34% |
| 9 | Surguja | 703294 | 880 | 2894 | 82 | 2.3% | 74 | 2.6% | 8% |
| 10 | Mungeli | 636162 | 286 | 2564 | 67 | 2.7% | 63 | 2.5% | 22% |
| 11 | Koria | 453476 | 186 | 1160 | 31 | 2.0% | 28 | 2.4% | 15% |
| 12 | Kawardha | 734894 | 361 | 3210 | 147 | 4.1% | 77 | 2.4% | 21% |
| 13 | Durg | 617184 | 159 | 3738 | 45 | 1.1% | 88 | 2.4% | 55% |
| 14 | Bilaspur | 1347093 | 548 | 4796 | 127 | 2.1% | 111 | 2.3% | 20% |
| 15 | Gariyaband | 556967 | 199 | 2378 | 54 | 1.7% | 53 | 2.2% | 27% |
| 16 | Kondagaon | 520382 | 154 | 1485 | 69 | 3.4% | 33 | 2.2% | 21% |
| 17 | Surajpur | 717439 | 847 | 2926 | 64 | 1.7% | 65 | 2.2% | 8% |
| 18 | Raipur | 884237 | 353 | 4788 | 63 | 1.3% | 98 | 2.0% | 28% |
| 19 | Jashpur | 776017 | 531 | 4122 | 63 | 1.4% | 75 | 1.8% | 14% |
| 20 | Janjgir | 1395433 | 352 | 7288 | 93 | 1.2% | 128 | 1.8% | 36% |
| 21 | Mahasamund | 912166 | 233 | 5439 | 91 | 1.4% | 92 | 1.7% | 40% |
| 22 | Balodabazar | 1138729 | 362 | 6046 | 121 | 1.8% | 101 | 1.7% | 28% |
| 23 | Rajnandgaon | 1264980 | 288 | 6775 | 140 | 1.6% | 104 | 1.5% | 36% |
| 24 | Dhamtari | 650045 | 127 | 4248 | 34 | 0.7% | 60 | 1.4% | 47% |
| 25 | Balod | 720697 | 139 | 4347 | 43 | 1.0% | 56 | 1.3% | 40% |
| 26 | Kanker | 671834 | 239 | 3086 | 39 | 1.1% | 39 | 1.3% | 16% |
| 27 | Raigarh | 1247346 | 379 | 5494 | 103 | 1.4% | 68 | 1.2% | 18% |
| State Average | | 19603658 | 8032 | 90927 | 2061 | 1.9% | 1918 | 2.1% | 24% |

The 1-4 year age group deaths recorded monthly are slightly higher during July to October.

| Month | No.of Death Reported | % |
|--------------|-----------------------------|-------------|
| January | 135 | 7% |
| February | 110 | 6% |
| March | 137 | 7% |
| April | 143 | 7% |
| May | 188 | 10% |
| June | 146 | 8% |
| July | 199 | 10% |
| August | 198 | 10% |
| September | 198 | 10% |
| October | 203 | 11% |
| November | 152 | 8% |
| December | 109 | 6% |
| Total | 1918 | 100% |

53% of the 1-4 year age group deaths recorded were of male children.

| Gender | No.of Death Reported | % |
|---------------|-----------------------------|-------------|
| Male | 1014 | 53% |
| Female | 904 | 47% |
| Total | 1918 | 100% |

Accidents were the most common cause. Fever/Malaria and Pneumonia were also important causes.

| Reported Causes | No.of Deaths reported in 2017 | % in 2017 | % in 2016 | % in 2015 | % in 2014 | % in 2013 |
|------------------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|
| Accident | 261 | 14% | 14% | 12% | 10% | 12% |
| Convulsion | 126 | 7% | 7% | 5% | 3% | 4% |
| Fever/Malaria | 213 | 11% | 17% | 17% | 21% | 20% |
| Jaundice | 119 | 6% | 8% | 6% | 6% | 6% |
| Malnutrition | 116 | 6% | 10% | 6% | 5% | 5% |
| Pneumonia | 199 | 10% | 13% | 10% | 10% | 7% |
| Snake bite | 41 | 2% | 2% | 1% | 2% | 2% |
| Diarrhea | 113 | 6% | 8% | 7% | 6% | 5% |
| T.B. | 15 | 1% | 0% | 1% | 1% | 1% |
| Rabies | 4 | 0% | 0% | 1% | 1% | 1% |
| Congenital Heart Disease/Anomalies | 139 | 7% | 8% | | | |
| Digestive Diseases | 114 | 6% | 7% | | | |
| Genito-urinary Diseases | 2 | 0% | 0% | | | |
| Diabetes | 7 | 0% | 0% | | | |
| Sickle Cell Anemia | 30 | 2% | 2% | | | |
| Cancer | 37 | 2% | 1% | | | |
| Other | 382 | 20% | 2% | 35% | 35% | 37% |
| Total | 1918 | 100% | 100% | 100% | 100% | 100% |

Analysis of age groups older than 5 yrs age is available in Annexure - II

Chapter 6: Analysis of Maternal Deaths in rural Chhattisgarh

District wise no. of Maternal (14-49 yrs) Deaths reported:

VHSNCs have reported 317 deaths during 2017 for which the cause is recorded as maternal death.

| S.N. | District | Rural Population (Census 2011) | Total reported deaths by VHSNC | No.of Maternal Death reported by VHSNC in 2016 | % | No.of Maternal Death reported by VHSNC in 2017 | % |
|----------------------|-------------|--------------------------------|--------------------------------|--|-------------|--|-------------|
| 1 | Sukma | 221825 | 868 | 7 | 0.7% | 8 | 0.9% |
| 2 | Mungeli | 636162 | 2564 | 17 | 0.7% | 20 | 0.8% |
| 3 | Balrampur | 695579 | 2403 | 27 | 0.7% | 18 | 0.7% |
| 4 | Kondagaon | 520382 | 1485 | 14 | 0.7% | 8 | 0.5% |
| 5 | Raipur | 884237 | 4788 | 18 | 0.4% | 25 | 0.5% |
| 6 | Dhamtari | 650045 | 4248 | 6 | 0.1% | 22 | 0.5% |
| 7 | Gariyaband | 556967 | 2378 | 24 | 0.8% | 12 | 0.5% |
| 8 | Bilaspur | 1347093 | 4796 | 21 | 0.3% | 23 | 0.5% |
| 9 | Koria | 453476 | 1160 | 5 | 0.3% | 5 | 0.4% |
| 10 | Mahasamund | 912166 | 5439 | 22 | 0.3% | 23 | 0.4% |
| 11 | Janjgir | 1395433 | 7288 | 29 | 0.4% | 25 | 0.3% |
| 12 | Kawardha | 734894 | 3210 | 17 | 0.5% | 11 | 0.3% |
| 13 | Bijapur | 225591 | 1203 | 5 | 0.4% | 4 | 0.3% |
| 14 | Surajpur | 717439 | 2926 | 10 | 0.3% | 9 | 0.3% |
| 15 | Balodabazar | 1138729 | 6046 | 33 | 0.5% | 18 | 0.3% |
| 16 | Raigarh | 1247346 | 5494 | 19 | 0.3% | 16 | 0.3% |
| 17 | Rajnandgaon | 1264980 | 6775 | 25 | 0.3% | 19 | 0.3% |
| 18 | Durg | 617184 | 3738 | 6 | 0.2% | 9 | 0.2% |
| 19 | Balod | 720697 | 4347 | 8 | 0.2% | 10 | 0.2% |
| 20 | Narayanpur | 118087 | 448 | 1 | 0.2% | 1 | 0.2% |
| 21 | Bastar | 697934 | 2394 | 13 | 0.5% | 5 | 0.2% |
| 22 | Dantewada | 214830 | 1114 | 5 | 0.4% | 2 | 0.2% |
| 23 | Bemetara | 721077 | 3389 | 6 | 0.2% | 6 | 0.2% |
| 24 | Jashpur | 776017 | 4122 | 13 | 0.3% | 7 | 0.2% |
| 25 | Surguja | 703294 | 2894 | 15 | 0.4% | 4 | 0.1% |
| 26 | Kanker | 671834 | 3086 | 5 | 0.1% | 4 | 0.1% |
| 27 | Korba | 760360 | 2324 | 13 | 0.4% | 3 | 0.1% |
| State Average | | 19603658 | 90927 | 384 | 0.4% | 317 | 0.3% |

Month wise no. of Maternal Deaths reported:

The number of deaths per month is slightly higher during May to September.

| Month | No.of Death Reported | Percentage |
|--------------|-----------------------------|-------------------|
| January | 17 | 5% |
| February | 12 | 4% |
| March | 21 | 7% |
| April | 24 | 8% |
| May | 46 | 15% |
| June | 24 | 8% |
| July | 36 | 11% |
| August | 38 | 12% |
| September | 31 | 10% |
| October | 28 | 9% |
| November | 22 | 7% |
| December | 18 | 6% |
| Total | 317 | 100% |

Cause wise no. of Maternal death in 2017

| S.N. | Reported Causes | No. of Deaths | % |
|-------------|------------------------|----------------------|-------------|
| 1 | Maternal causes | 272 | 86% |
| 2 | Accidents | 7 | 2% |
| 3 | Convulsion | 16 | 5% |
| 4 | Fever/ Malaria | 6 | 2% |
| 5 | Malnutrition | 1 | 0% |
| 6 | Diarrhea | 2 | 1% |
| 7 | Pneumonia | 1 | 0% |
| 8 | Jaundice | 2 | 1% |
| 9 | Heart Disease | 5 | 2% |
| 10 | Digestive Disease | 1 | 0% |
| 11 | Snake bite | 1 | 0% |
| 12 | Sickle Cell Disease | 3 | 1% |
| | Total | 317 | 100% |

Chapter 7 : District wise variation of cause of deaths in rural **Chhattisgarh**

The Table below gives the proportion of deaths suspected due to 17 specific causes for each district. It helps to assess the proportion of preventable premature deaths for districts. Bijapur, Sukma, Dantewada, Koriya and Balrampur have relatively high proportion of deaths due to preventable causes. The pattern shows that districts in Bastar and Surguja divisions along with Kwardha have more deaths due to preventable causes. The pattern also shows that in such reasons, communicable diseases like Malaria, Diarrhea, Pneumonia are most important contributors.

On the other hand, Balod, Durg, Rajnandgaon, Mahasmond, Dhamtari and Janjgir districts have lower proportion of deaths due to preventable causes. Most of the districts in Raipur and Durg division followed by Bilaspur division have relatively less deaths due to preventable causes.

| S.N. | District | Total reported deaths by VHSNC | % of Fever/ Malaria deaths | % of Pneumonia deaths | % of Diarrhea deaths | % of Jaundice deaths | % of TB deaths | % of Accident deaths | % of Suicide deaths | % of Murder deaths | % of Snake Bite deaths | % of Doge Bite deaths | % of Maternal deaths | % of Neonatal causes deaths | % of Malnutrition deaths | % of Convulsion deaths | % of Old age & other deaths |
|----------------------|-------------|--------------------------------|----------------------------|-----------------------|----------------------|----------------------|----------------|----------------------|---------------------|--------------------|------------------------|-----------------------|----------------------|-----------------------------|--------------------------|------------------------|-----------------------------|
| 1 | BIJAPUR | 1203 | 10.6% | 3.7% | 2.2% | 4.6% | 5.7% | 9.3% | 5.4% | 2.0% | 1.8% | 0.2% | 0.3% | 6.4% | 1.0% | 0.6% | 26% |
| 2 | SUKMA | 868 | 5.0% | 2.6% | 3.1% | 1.0% | 7.3% | 9.0% | 5.5% | 1.5% | 2.1% | 0.0% | 0.9% | 8.8% | 2.1% | 2.3% | 35% |
| 3 | BASTAR | 2394 | 4.7% | 1.9% | 2.5% | 2.6% | 3.3% | 8.7% | 3.3% | 0.7% | 0.9% | 0.3% | 0.2% | 6.3% | 1.9% | 1.3% | 28% |
| 4 | DANTEWADA | 1114 | 3.8% | 3.1% | 1.5% | 2.5% | 2.7% | 8.6% | 5.7% | 0.9% | 2.0% | 0.0% | 0.2% | 8.3% | 2.2% | 0.7% | 40% |
| 5 | RAIGARH | 5494 | 3.3% | 0.3% | 1.2% | 1.9% | 2.7% | 5.7% | 3.0% | 0.5% | 0.6% | 0.1% | 0.3% | 5.7% | 2.1% | 1.2% | 31% |
| 6 | KORIA | 1160 | 3.3% | 0.4% | 1.5% | 1.1% | 2.2% | 9.2% | 3.7% | 0.5% | 1.5% | 0.3% | 0.4% | 7.9% | 2.1% | 1.3% | 33% |
| 7 | BALODABAZAR | 6046 | 3.2% | 1.0% | 0.6% | 2.6% | 2.2% | 7.4% | 2.8% | 0.1% | 0.3% | 0.0% | 0.3% | 5.6% | 1.8% | 0.7% | 39% |
| 8 | SURGUJA | 2894 | 3.1% | 0.7% | 1.9% | 1.9% | 1.5% | 9.6% | 3.4% | 1.2% | 0.7% | 0.1% | 0.1% | 5.4% | 1.8% | 0.3% | 32% |
| 9 | BILASPUR | 4796 | 3.0% | 1.6% | 0.6% | 1.8% | 1.6% | 7.4% | 3.0% | 0.5% | 0.7% | 0.1% | 0.5% | 6.4% | 2.1% | 1.1% | 30% |
| 10 | BALRAMPUR | 2403 | 2.9% | 0.8% | 2.2% | 2.7% | 2.0% | 9.7% | 2.9% | 0.9% | 1.8% | 0.0% | 0.7% | 7.7% | 2.5% | 0.7% | 27% |
| 11 | GARIYABAND | 2378 | 2.5% | 2.3% | 1.6% | 2.7% | 2.5% | 4.2% | 3.2% | 0.3% | 0.5% | 0.0% | 0.5% | 7.1% | 3.4% | 0.6% | 45% |
| 12 | NARAYANPUR | 448 | 2.2% | 0.4% | 2.7% | 2.5% | 4.9% | 6.9% | 4.9% | 2.0% | 1.3% | 0.0% | 0.2% | 3.1% | 3.1% | 1.8% | 25% |
| 13 | MUNGELI | 2564 | 2.1% | 1.7% | 0.8% | 2.6% | 1.2% | 6.6% | 2.4% | 0.3% | 1.0% | 0.0% | 0.8% | 8.9% | 2.3% | 1.7% | 27% |
| 14 | JASHPUR | 4122 | 2.1% | 0.4% | 1.0% | 1.6% | 2.3% | 8.7% | 2.4% | 0.7% | 0.4% | 0.2% | 0.2% | 3.7% | 2.3% | 0.5% | 42% |
| 15 | BEMETARA | 3389 | 2.0% | 1.5% | 0.8% | 2.8% | 2.3% | 5.2% | 2.3% | 0.8% | 0.4% | 0.1% | 0.2% | 7.0% | 2.0% | 0.8% | 33% |
| 16 | KANKER | 3086 | 1.7% | 1.3% | 1.2% | 2.2% | 3.3% | 6.2% | 4.1% | 0.3% | 1.1% | 0.0% | 0.1% | 3.7% | 0.9% | 0.7% | 34% |
| 17 | RAIPUR | 4788 | 1.6% | 1.2% | 0.5% | 1.6% | 1.6% | 7.8% | 4.5% | 0.6% | 0.3% | 0.0% | 0.5% | 6.5% | 1.2% | 1.0% | 35% |
| 18 | DHAMTARI | 4248 | 1.6% | 0.6% | 0.8% | 2.1% | 2.4% | 5.6% | 4.4% | 0.3% | 0.2% | 0.0% | 0.5% | 4.5% | 1.2% | 0.5% | 34% |
| 19 | JANJGIR | 7288 | 1.6% | 0.5% | 0.7% | 2.2% | 1.3% | 6.9% | 2.9% | 0.3% | 0.8% | 0.1% | 0.3% | 4.8% | 1.4% | 0.9% | 28% |
| 20 | KAWARDHA | 3210 | 1.4% | 1.8% | 1.6% | 2.1% | 2.2% | 6.2% | 2.7% | 0.5% | 0.9% | 0.1% | 0.3% | 6.0% | 1.9% | 1.9% | 28% |
| 21 | MAHASAMUND | 5439 | 1.2% | 0.6% | 0.6% | 1.4% | 1.9% | 5.9% | 3.4% | 0.1% | 0.5% | 0.1% | 0.4% | 6.4% | 1.7% | 0.6% | 45% |
| 22 | KONDAGAON | 1485 | 1.1% | 2.9% | 2.2% | 2.4% | 3.2% | 8.8% | 5.6% | 0.8% | 1.3% | 0.2% | 0.5% | 6.3% | 2.2% | 1.8% | 36% |
| 23 | RAJNANDGAON | 6775 | 1.0% | 1.0% | 0.8% | 2.1% | 1.5% | 5.2% | 2.8% | 0.3% | 0.5% | 0.1% | 0.3% | 6.8% | 2.4% | 1.1% | 35% |
| 24 | KORBA | 2324 | 0.9% | 0.8% | 0.6% | 1.7% | 2.7% | 7.9% | 3.3% | 0.7% | 0.9% | 0.1% | 0.1% | 5.9% | 2.6% | 1.4% | 34% |
| 25 | SURAJPUR | 2926 | 0.9% | 1.4% | 0.7% | 2.0% | 2.7% | 10.0% | 4.3% | 0.8% | 0.5% | 0.1% | 0.3% | 6.1% | 2.5% | 0.3% | 30% |
| 26 | BALOD | 4347 | 0.9% | 0.7% | 0.3% | 1.8% | 1.2% | 5.1% | 3.6% | 0.2% | 0.2% | 0.0% | 0.2% | 4.2% | 1.0% | 0.2% | 41% |
| 27 | DURG | 3738 | 0.6% | 0.8% | 0.4% | 2.0% | 1.2% | 6.3% | 4.8% | 0.2% | 0.3% | 0.1% | 0.2% | 6.1% | 1.1% | 0.9% | 24% |
| State Average | | 90927 | 2.1% | 1.1% | 1.0% | 2.1% | 2.1% | 6.9% | 3.4% | 0.5% | 0.7% | 0.1% | 0.3% | 5.9% | 1.8% | 0.9% | 34% |

Chapter 8 : Analysis of Urban-Slum Deaths in Chhattisgarh

Mahila Aarogya Samitis (MAS) i.e. Women's Health Committees are formed at each Mitanin's Urban-Slum area in 19 city of Chhattisgarh under the National Urban Health Mission (NUHM). The objectives of MAS is to Monitor the Health, Nutrition and Sanitation of the ward, Available the information of Govt. Schemes to community, To build-up a local level work plan through the participation of community, To help the more poor and remotest family, To help for access the health services and To improve the participation on Health, Nutrition and Sanitation related issues.

MAS are mandated to record the deaths happening in their area. One of the key purposes of keeping a register of deaths in MAS is to enable health monitoring. The death registers of MAS are compiled and computerized into a database at the state level by SHRC.

The causes of the deaths analysed in this report are as perceived and reported by the communities in MAS meetings. Therefore the definitions may not match with the technical definitions. Despite this issue, the information available through MAS registers is still useful for understand the likely and approximate causes of a large share of deaths in the state.

This report analyses nearly 9177 Urban-Slum deaths that were recorded by MAS during the year 2017. The deaths covered in 2017 compilation constitute 77% of total no. of deaths expected according to Crude Death Rate of the state (SRS 2015). The urban data pertains to slums of 19 cities with 1977237 slum population (according to Mitanin Database).

MAS based system of recording deaths and causes and its compilation and analysis is a new step. Soon, it will mature and be more useful in providing a clearer picture of mortality in urban-slum parts the state.

| Deaths | Expected urban slum Deaths | No.of reported deaths in 2015 | % | No.of reported deaths in 2016 | % | No.of reported deaths in 2017 | % |
|-----------------------------|-----------------------------------|--------------------------------------|------------|--------------------------------------|------------|--------------------------------------|------------|
| Overall Deaths | 11863 | 2764 | 23% | 8162 | 69% | 9177 | 77% |
| Neonatal Deaths | 830 | 525 | 63% | 743 | 89% | 703 | 85% |
| 1-11 month age group Deaths | 435 | 97 | 22% | 173 | 40% | 158 | 36% |
| 1-4 Year age group Deaths | 119 | 60 | 51% | 114 | 96% | 127 | 107% |
| Maternal Deaths | 96 | 14 | 15% | 26 | 27% | 35 | 36% |
| Other age groups | 10383 | 2068 | 20% | 7106 | 68% | 8154 | 79% |

Urban-slum city wise no. of deaths reported

| S.N. | Name of City | Expected no. of deaths | No. of Deaths Reported in 2015 | % | No. of Deaths Reported in 2016 | % | No. of Deaths Reported in 2017 | % |
|--------------|--------------|------------------------|--------------------------------|------------|--------------------------------|------------|--------------------------------|------------|
| 1 | Ambikapur | 291 | 58 | 20% | 75 | 26% | 115 | 40% |
| 2 | Bhatapara | 206 | 57 | 28% | 206 | 100% | 185 | 90% |
| 3 | Bhillai | 1593 | 178 | 11% | 733 | 46% | 765 | 48% |
| 4 | Bilaspur | 1194 | 193 | 16% | 697 | 58% | 936 | 78% |
| 5 | Birgaon | 286 | 28 | 10% | 132 | 46% | 196 | 69% |
| 6 | Charoda | 362 | 140 | 39% | 358 | 99% | 336 | 93% |
| 7 | Chirmiri | 382 | 97 | 25% | 290 | 76% | 250 | 66% |
| 8 | Dhamtari | 401 | 150 | 37% | 435 | 109% | 380 | 95% |
| 9 | Durg | 760 | 155 | 20% | 840 | 110% | 883 | 116% |
| 10 | Jagdarpur | 334 | 50 | 15% | 190 | 57% | 295 | 88% |
| 11 | Janjgir | 80 | 74 | 93% | 154 | 193% | 167 | 210% |
| 12 | Kanker | 75 | 47 | 63% | 162 | 217% | 160 | 214% |
| 13 | Kawardha | 67 | 48 | 72% | 150 | 226% | 125 | 188% |
| 14 | Korba | 1454 | 160 | 11% | 501 | 34% | 681 | 47% |
| 15 | Mahasamund | 255 | 71 | 28% | 160 | 63% | 129 | 51% |
| 16 | Mungeli | 161 | 51 | 32% | 94 | 58% | 118 | 73% |
| 17 | Raigarh | 540 | 141 | 26% | 545 | 101% | 493 | 91% |
| 18 | Raipur | 2788 | 942 | 34% | 1930 | 69% | 2300 | 82% |
| 19 | Rajnandgaon | 636 | 124 | 19% | 510 | 80% | 663 | 104% |
| TOTAL | | 11863 | 2764 | 23% | 8162 | 69% | 9177 | 77% |

The analysis of causes recorded by MAS shows the following as the common causes for majority of deaths in different age categories:

Table: Causes for deaths reported in different age categories

| S.N. | Reported Causes | 0 to28 days | 1-11 months | 1-4 yrs | 5 to 14 yrs | 15 to 49 yrs | 50 to 59 yrs | 60 to 69 yrs | Above 70 yrs | Total |
|--------------|---|-------------|-------------|------------|-------------|--------------|--------------|--------------|--------------|-------------|
| 1 | Accident | 1 | 2 | 21 | 53 | 348 | 80 | 93 | 141 | 739 |
| 2 | Convulsions | 11 | 14 | 8 | 4 | 8 | 3 | 4 | 6 | 58 |
| 3 | Fever/ Malaria | 4 | 11 | 13 | 17 | 51 | 24 | 34 | 35 | 189 |
| 4 | Neonatal Jaundice | 15 | | | | | | | | 15 |
| 5 | Jaundice | | 3 | 7 | 7 | 80 | 14 | 17 | 10 | 138 |
| 6 | Low Birth Weight | 50 | | | | | | | | 50 |
| 7 | Malnutrition | | 11 | 5 | 1 | 1 | 0 | 0 | | 18 |
| 8 | Diarrhea | 1 | 5 | 10 | 6 | 24 | 7 | 7 | 15 | 75 |
| 9 | Pneumonia | 10 | 29 | 12 | 9 | 12 | 4 | 8 | 6 | 90 |
| 10 | Heart Disease/Stroke (including Congenital Heart Disease/Anomalies) | 10 | 31 | 22 | 6 | 426 | 440 | 478 | 497 | 1910 |
| 11 | Digestive Diseases | 4 | 4 | 6 | 9 | 166 | 75 | 54 | 54 | 372 |
| 12 | Genito-urinary Diseases | 0 | 0 | 0 | 0 | 0 | 0 | 2 | | 2 |
| 13 | Diabetes | 1 | 0 | 1 | 2 | 69 | 71 | 83 | 101 | 328 |
| 14 | HIV/AIDS | 0 | 0 | 0 | 1 | 40 | 7 | 1 | 3 | 52 |
| 15 | T.B. | 0 | 0 | 1 | 4 | 125 | 59 | 35 | 31 | 255 |
| 16 | Snake Bite | | 0 | 0 | 2 | 4 | 0 | 0 | 1 | 7 |
| 17 | Rabies | | | 0 | 1 | 7 | 2 | 1 | 3 | 14 |
| 18 | Birth Asphyxia | 131 | | | | | | | | 333 |
| 19 | Neonatal Sepsis | 38 | | | | | | | | 38 |
| 20 | Maternal causes | | | | | 15 | | | | 15 |
| 21 | Murder | | | | | 43 | 0 | 2 | 2 | 47 |
| 22 | Suicide | | | | | 386 | 47 | 20 | 16 | 469 |
| 23 | Sickle Cell Anemia | | | 0 | 6 | 33 | 1 | 1 | | 41 |
| 24 | Cancer | 1 | 0 | 2 | 12 | 195 | 118 | 101 | 76 | 505 |
| 25 | Others | 426 | 48 | 19 | 3126 | | | | | 3619 |
| Total | | 703 | 158 | 127 | 3266 | 2033 | 952 | 941 | 997 | 9177 |

In urban slum areas, Heart Disease/stroke, Neonatal conditions, Accidents, Suicide, Cancer and Diabetes are leading cause of deaths. Amongst infectious diseases, TB and Fever/Malaria are the leading cause of death in urban slums.

Classification of causes of Neonatal Deaths (below age of 28 days):

703 Neonatal deaths were reported by MAS. An attempt has been made to further unpack this category by causes. For this purpose, a sample of 277 deaths was drawn and details available regarding the specific primary cause of death were coded. It shows the following picture:

| Reported Cause | No.of Deaths | % |
|------------------------------------|--------------|----------------|
| Accident | 1 | 0.15% |
| Convulsion | 11 | 1.65% |
| Fever | 4 | 0.60% |
| Neonatal Jaundice | 15 | 2.26% |
| Low Birth Weight | 50 | 7.52% |
| Diarrhoea | 1 | 0.15% |
| Pneumonia | 10 | 1.50% |
| T.B. | 0 | 0.00% |
| Congenital Heart Disease/Anomalies | 10 | 1.50% |
| Digestive Diseases | 4 | 0.60% |
| Genito-urinary Diseases | 0 | 0.00% |
| Neonatal Diabetes | 1 | 0.15% |
| Sickle Cell Anemia | 0 | 0.00% |
| Neonatal Cancer | 1 | 0.15% |
| Birth Asphyxia | 131 | 19.70% |
| Neonatal sepsis | 38 | 5.71% |
| Other | 426 | 64.06% |
| Total | 665 | 100.00% |

18% deaths due birth asphyxia, is the most common cause of neonatal deaths. Premature births and Low birth weight are also important causes of neonatal deaths.

| Reported Symptoms | No.of Deaths | % |
|----------------------|--------------|----------------|
| Pus on umbilicus | 2 | 5.26% |
| Distended abdomen | 5 | 13.16% |
| Hypothermia | 3 | 7.89% |
| Cry weak/stopped | 0 | 0.00% |
| Increased RR | 8 | 21.05% |
| Unconsciousness | 14 | 36.84% |
| Feeding less/stopped | 6 | 15.79% |
| Total | 38 | 100.00% |

| Year | 0-59 yrs Total deaths | 0-59 yrs Fever/Malaria | % | Total Fever/Malaria in 19 city | Total Fever/Malaria in 5 city | % | 0-59 yrs Pneumonia | % | 0-59 yrs Diarrhea | % |
|-------------|--------------------------------------|-----------------------------------|----------|---|--|----------|-------------------------------|----------|------------------------------|----------|
| 2015 | 2067 | 100 | 4.8% | 149 | 28 | 1.4% | 67 | 3.2% | 32 | 1.5% |
| 2016 | 7092 | 97 | 1.4% | 156 | 34 | 0.5% | 59 | 0.8% | 61 | 0.9% |
| 2017 | 7239 | 120 | 1.7% | 189 | 46 | 0.6% | 76 | 1.0% | 53 | 0.7% |

Chapter 9 : Conclusion

This analysis shows that compiling death Registers of VHSNCs and MAS is a useful tool to identify approximate causes of mortality. It helps in identifying the key public health problems on which the efforts need to be focused.

Most common reported causes of deaths by age groups: The below analysis of causes recorded shows the following situation in Chhattisgarh:

A. Causes for deaths reported in different age categories in Rural Chhattisgarh

| S.N. | Reported Causes | 0 to28 days | 1-11 months | 1-4 yrs | 5 to 14 yrs | 15 to 49 yrs | 50 to 59 yrs | 60 to 69 yrs | Above 70 yrs | Total |
|--------------|--|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 1 | Accident | 39 | 51 | 261 | 530 | 3458 | 681 | 514 | 772 | 6306 |
| 2 | Convulsion | 159 | 61 | 126 | 90 | 233 | 41 | 55 | 57 | 822 |
| 3 | Fever/ Malaria | 81 | 118 | 213 | 259 | 502 | 139 | 190 | 425 | 1927 |
| 4 | Neonatal Jaundice | 188 | | | | | | | | 188 |
| 5 | Jaundice | | 64 | 119 | 181 | 851 | 197 | 137 | 163 | 1712 |
| 6 | Low Birth Weight | 711 | | | | | | | | 711 |
| 7 | Malnutrition | | 141 | 116 | 21 | 25 | 3 | 10 | 57 | 373 |
| 8 | Diarrhea | 53 | 81 | 113 | 91 | 218 | 78 | 91 | 180 | 905 |
| 9 | Pneumonia | 337 | 317 | 199 | 45 | 59 | 12 | 4 | 19 | 992 |
| 10 | T.B. | 4 | 4 | 15 | 19 | 797 | 376 | 356 | 364 | 1935 |
| 11 | Snake Bite | | 7 | 41 | 119 | 298 | 64 | 47 | 35 | 611 |
| 12 | Rabies | | | 4 | 16 | 19 | 18 | 9 | 10 | 76 |
| 13 | Birth Asphyxia | 926 | | | | | | | | 926 |
| 14 | Neonatal Sepsis | 433 | | | | | | | | 433 |
| 15 | Maternal causes | | | | | 272 | | | | 272 |
| 16 | Murder | | | | | 323 | 50 | 44 | 32 | 449 |
| 17 | Suicide | | | | | 2401 | 338 | 195 | 171 | 3105 |
| 18 | Cancer | 0 | 9 | 37 | 74 | 1513 | 958 | 879 | 843 | 4313 |
| 19 | HIV/AIDS | | | | 4 | 86 | 11 | 9 | 3 | 113 |
| 20 | Heart Disease/Stroke (Including CHD/Anomalies) | 74 | 139 | 139 | 203 | 3565 | 3313 | 5001 | 10462 | 22896 |
| 21 | Digestive Diseases | 95 | 53 | 114 | 179 | 1441 | 696 | 713 | 919 | 4210 |
| 22 | Genito-urinary Diseases | 8 | 4 | 2 | 3 | 41 | 14 | 29 | 50 | 151 |
| 23 | Diabetes | 7 | 0 | 7 | 25 | 594 | 555 | 777 | 1067 | 3032 |
| 24 | Sickle Cell Anemia | 6 | 8 | 30 | 112 | 265 | 34 | 25 | 26 | 506 |
| 25 | Others | 2257 | 619 | 382 | 583 | 5297 | 3150 | 5014 | 16661 | 33963 |
| Total | | 5378 | 1676 | 1918 | 2554 | 22258 | 10728 | 14099 | 32316 | 90927 |

The following table gives the proportion of a cause for each age-group. The important causes for each age have been shaded. Overall Stroke, Accidents, Pneumonia and Malaria emerge as most important causes for deaths below age of 60.

| S.N. | Reported Causes | 0 to28 days | 1-11 months | 1-4 yrs | 5 to 14 yrs | 15 to 49 yrs | 50 to 59 yrs | 60 to 69 yrs | Above 70 yrs | Total |
|--------------|--|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|-------------|
| 1 | Accident | 0.7% | 3.0% | 13.6% | 20.8% | 15.5% | 6.3% | 3.6% | 2.4% | 6.9% |
| 2 | Convulsions | 3.0% | 3.6% | 6.6% | 3.5% | 1.0% | 0.4% | 0.4% | 0.2% | 0.9% |
| 3 | Fever/ Malaria | 1.5% | 7.0% | 11.1% | 10.1% | 2.3% | 1.3% | 1.3% | 1.3% | 2.1% |
| 4 | Neonatal Jaundice | 3.5% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.2% |
| 5 | Jaundice | 0.0% | 3.8% | 6.2% | 7.1% | 3.8% | 1.8% | 1.0% | 0.5% | 1.9% |
| 6 | Low Birth Weight | 13.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.8% |
| 7 | Malnutrition | 0.0% | 8.4% | 6.0% | 0.8% | 0.1% | 0.0% | 0.1% | 0.2% | 0.4% |
| 8 | Diarrhoea | 1.0% | 4.8% | 5.9% | 3.6% | 1.0% | 0.7% | 0.6% | 0.6% | 1.0% |
| 9 | Pneumonia | 6.3% | 18.9% | 10.4% | 1.8% | 0.3% | 0.1% | 0.0% | 0.1% | 1.1% |
| 10 | T.B. | 0.1% | 0.2% | 0.8% | 0.7% | 3.6% | 3.5% | 2.5% | 1.1% | 2.1% |
| 11 | Snake Bite | 0.0% | 0.4% | 2.1% | 4.7% | 1.3% | 0.6% | 0.3% | 0.1% | 0.7% |
| 12 | Rabies | 0.0% | 0.0% | 0.2% | 0.6% | 0.1% | 0.2% | 0.1% | 0.0% | 0.1% |
| 13 | Birth Asphyxia | 17.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 1.8% |
| 14 | Neonatal Sepsis | 8.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.5% |
| 15 | Maternal causes | 0.0% | 0.0% | 0.0% | 0.0% | 1.2% | 0.0% | 0.0% | 0.0% | 0.3% |
| 16 | Murder | 0.0% | 0.0% | 0.0% | 0.0% | 1.5% | 0.5% | 0.3% | 0.1% | 0.5% |
| 17 | Suicide | 0.0% | 0.0% | 0.0% | 0.0% | 10.8% | 3.2% | 1.4% | 0.5% | 3.4% |
| 18 | Cancer | 0.0% | 0.5% | 1.9% | 2.9% | 6.8% | 8.9% | 6.2% | 2.6% | 4.7% |
| 19 | HIV/AIDS | 0.0% | 0.0% | 0.0% | 0.2% | 0.4% | 0.1% | 0.1% | 0.0% | 0.1% |
| 20 | Heart Disease/Stroke (Including CHD/Anomalies) | 1.4% | 8.3% | 7.2% | 7.9% | 16.0% | 30.9% | 35.5% | 32.4% | 25.2% |
| 21 | Digestive Diseases | 1.8% | 3.2% | 5.9% | 7.0% | 6.5% | 6.5% | 5.1% | 2.8% | 4.6% |
| 22 | Genito-urinary Diseases | 0.1% | 0.2% | 0.1% | 0.1% | 0.2% | 0.1% | 0.2% | 0.2% | 0.2% |
| 23 | Diabetes | 0.1% | 0.0% | 0.4% | 1.0% | 2.7% | 5.2% | 5.5% | 3.3% | 3.3% |
| 24 | Sickel Cell Anemia | 0.1% | 0.5% | 1.6% | 4.4% | 1.2% | 0.3% | 0.2% | 0.1% | 0.6% |
| 25 | Others | 42.0% | 36.9% | 19.9% | 22.8% | 23.8% | 29.4% | 35.6% | 51.6% | 37.4% |
| Total | | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |

- 0 to 28 days neonates, Newborn causes (Birth Asphyxia and Sepsis) are the leading causes of death.
- 1 to 11 month children, Pneumonia is the leading cause of death.
- 1 to 4 years children, Accident, Fever/Malaria and Pneumonia are the leading causes of death.
- 5 to 14 year age group, Accident, Fever/Malaria, heart disease and Jaundice are the leading causes of death.

- 15-49 years age group, Accidents, Suicides and Heart Disease/stroke are the leading causes of death.
- For 50-59 years age groups, Heart Disease/stroke, Cancer, Accident, Diabetes and Fever/Malaria are the leading causes of death. For deaths in 60-69 years and 70 years and above age groups, same set of causes dominate.

B. Causes for deaths reported in different age categories in Urban-Slum areas of Chhattisgarh

| S.N. | Reported Causes | 0 to28 days | 1-11 months | 1-4 yrs | 5 to 14 yrs | 15 to 49 yrs | 50 to 59 yrs | 60 to 69 yrs | Above 70 yrs | Total |
|--------------|---|-------------|-------------|------------|-------------|--------------|--------------|--------------|--------------|-------------|
| 1 | Accident | 1 | 2 | 21 | 53 | 348 | 80 | 93 | 141 | 739 |
| 2 | Convulsions | 11 | 14 | 8 | 4 | 8 | 3 | 4 | 6 | 58 |
| 3 | Fever/ Malaria | 4 | 11 | 13 | 17 | 51 | 24 | 34 | 35 | 189 |
| 4 | Neonatal Jaundice | 15 | | | | | | | | 15 |
| 5 | Jaundice | | 3 | 7 | 7 | 80 | 14 | 17 | 10 | 138 |
| 6 | Low Birth Weight | 50 | | | | | | | | 50 |
| 7 | Malnutrition | | 11 | 5 | 1 | 1 | 0 | 0 | | 18 |
| 8 | Diarrhea | 1 | 5 | 10 | 6 | 24 | 7 | 7 | 15 | 75 |
| 9 | Pneumonia | 10 | 29 | 12 | 9 | 12 | 4 | 8 | 6 | 90 |
| 10 | Heart Disease/Stroke (including Congenital Heart Disease/Anomalies) | 10 | 31 | 22 | 6 | 426 | 440 | 478 | 497 | 1910 |
| 11 | Digestive Diseases | 4 | 4 | 6 | 9 | 166 | 75 | 54 | 54 | 372 |
| 12 | Genito-urinary Diseases | 0 | 0 | 0 | 0 | 0 | 0 | 2 | | 2 |
| 13 | Diabetes | 1 | 0 | 1 | 2 | 69 | 71 | 83 | 101 | 328 |
| 14 | HIV/AIDS | 0 | 0 | 0 | 1 | 40 | 7 | 1 | 3 | 52 |
| 15 | T.B. | 0 | 0 | 1 | 4 | 125 | 59 | 35 | 31 | 255 |
| 16 | Snake Bite | | 0 | 0 | 2 | 4 | 0 | 0 | 1 | 7 |
| 17 | Rabies | | | 0 | 1 | 7 | 2 | 1 | 3 | 14 |
| 18 | Birth Asphyxia | 131 | | | | | | | | 333 |
| 19 | Neonatal Sepsis | 38 | | | | | | | | 38 |
| 20 | Maternal causes | | | | | 15 | | | | 15 |
| 21 | Murder | | | | | 43 | 0 | 2 | 2 | 47 |
| 22 | Suicide | | | | | 386 | 47 | 20 | 16 | 469 |
| 23 | Sickle Cell Anemia | | | 0 | 6 | 33 | 1 | 1 | | 41 |
| 24 | Cancer | 1 | 0 | 2 | 12 | 195 | 118 | 101 | 76 | 505 |
| 25 | Others | 426 | 48 | 19 | | | 3126 | | | 3619 |
| Total | | 703 | 158 | 127 | 3266 | 2033 | 952 | 941 | 997 | 9177 |

In urban slum areas, Heart Disease/stroke, Neonatal conditions, Accidents, Suicide, Cancer and Diabetes are leading cause of death. Amongst infectious diseases, TB and Fever/Malaria are the leading cause of death in urban slums.

| S.N. | Reported Causes | 0 to28 days | 1-11 months | 1-4 yrs | 5 to 14 years | 15 to 49 years | 50 to 59 yrs | 60 to 69 yrs | Above 70 years | Total |
|--------------|---|-------------|-------------|-------------|---------------|----------------|--------------|--------------|----------------|-------------|
| 1 | Accident | 0.1% | 1.3% | 16.5% | 1.6% | 17.1% | 8.4% | 9.9% | 14.1% | 8.1% |
| 2 | Convulsions | 1.6% | 8.9% | 6.3% | 0.1% | 0.4% | 0.3% | 0.4% | 0.6% | 0.6% |
| 3 | Fever/ Malaria | 0.6% | 7.0% | 10.2% | 0.5% | 2.5% | 2.5% | 3.6% | 3.5% | 2.1% |
| 4 | Neonatal Jaundice | 2.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.2% |
| 5 | Jaundice | 0.0% | 1.9% | 5.5% | 0.2% | 3.9% | 1.5% | 1.8% | 1.0% | 1.5% |
| 6 | Low Birth Weight | 7.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.5% |
| 7 | Malnutrition | 0.0% | 7.0% | 3.9% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.2% |
| 8 | Diarrhoea | 0.1% | 3.2% | 7.9% | 0.2% | 1.2% | 0.7% | 0.7% | 1.5% | 0.8% |
| 9 | Pneumonia | 1.4% | 18.4% | 9.4% | 0.3% | 0.6% | 0.4% | 0.9% | 0.6% | 1.0% |
| 10 | Heart Disease/Stroke (including Congenital Heart Disease/Anomalies) | 1.4% | 19.6% | 17.3% | 0.2% | 21.0% | 46.2% | 50.8% | 49.8% | 20.8% |
| 11 | Digestive Diseases | 0.6% | 2.5% | 4.7% | 0.3% | 8.2% | 7.9% | 5.7% | 5.4% | 4.1% |
| 12 | Genito-urinary Diseases | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.2% | 0.0% | 0.0% |
| 13 | Diabetes | 0.1% | 0.0% | 0.8% | 0.1% | 3.4% | 7.5% | 8.8% | 10.1% | 3.6% |
| 14 | HIV/AIDS | 0.0% | 0.0% | 0.0% | 0.0% | 2.0% | 0.7% | 0.1% | 0.3% | 0.6% |
| 15 | T.B. | 0.0% | 0.0% | 0.8% | 0.1% | 6.1% | 6.2% | 3.7% | 3.1% | 2.8% |
| 16 | Snake Bite | 0.0% | 0.0% | 0.0% | 0.1% | 0.2% | 0.0% | 0.0% | 0.1% | 0.1% |
| 17 | Rabies | 0.0% | 0.0% | 0.0% | 0.0% | 0.3% | 0.2% | 0.1% | 0.3% | 0.2% |
| 18 | Birth Asphyxia | 18.6% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 1.4% |
| 19 | Neonatal Sepsis | 5.4% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.4% |
| 20 | Maternal causes | 0.0% | 0.0% | 0.0% | 0.0% | 0.7% | 0.0% | 0.0% | 0.0% | 0.2% |
| 21 | Murder | 0.0% | 0.0% | 0.0% | 0.0% | 2.1% | 0.0% | 0.2% | 0.2% | 0.5% |
| 22 | Suicide | 0.0% | 0.0% | 0.0% | 0.0% | 19.0% | 4.9% | 2.1% | 1.6% | 5.1% |
| 23 | Sickel Cell Anemia | 0.0% | 0.0% | 0.0% | 0.2% | 1.6% | 0.1% | 0.1% | 0.0% | 0.4% |
| 24 | Cancer | 0.1% | 0.0% | 1.6% | 0.4% | 9.6% | 12.4% | 10.7% | 7.6% | 5.5% |
| 25 | Others | 60.6% | 30.4% | 15.0% | 95.7% | 0.0% | 0.0% | 0.0% | 0.0% | 39.4% |
| Total | | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |

Annexure – I

Table No.1 District wise no. of Deaths reported as Jaundice (including Neonatal Jaundice):

VHSNCs have reported 1900 deaths during 2017 for which the cause is recorded as jaundice.

| S.N. | District | No.of Death reported | Death Reporting % |
|--------------|-------------|----------------------|-------------------|
| 1 | Balod | 80 | 4% |
| 2 | Balodabazar | 158 | 8% |
| 3 | Balrampur | 64 | 3% |
| 4 | Bastar | 63 | 3% |
| 5 | Bemetara | 95 | 5% |
| 6 | Bijapur | 55 | 3% |
| 7 | Bilaspur | 86 | 5% |
| 8 | Dantewada | 28 | 1% |
| 9 | Dhamtari | 90 | 5% |
| 10 | Durg | 73 | 4% |
| 11 | Gariyaband | 65 | 3% |
| 12 | Janjgir | 159 | 8% |
| 13 | Jashpur | 64 | 3% |
| 14 | Kanker | 68 | 4% |
| 15 | Kawardha | 67 | 4% |
| 16 | Kondagaon | 35 | 2% |
| 17 | Korba | 39 | 2% |
| 18 | Koria | 13 | 1% |
| 19 | Mahasamund | 77 | 4% |
| 20 | Mungeli | 66 | 3% |
| 21 | Narayanpur | 11 | 1% |
| 22 | Raigarh | 103 | 5% |
| 23 | Raipur | 78 | 4% |
| 24 | Rajnandgaon | 140 | 7% |
| 25 | Sukma | 9 | 0% |
| 26 | Surajpur | 59 | 3% |
| 27 | Surguja | 55 | 3% |
| TOTAL | | 1900 | 100% |

Table No.2 Age wise no. of Deaths reported as Jaundice (including Neonatal Jaundice):

45% of these deaths are in 15-49 year age group. Deaths due to neonatal jaundice are also large in number.

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|-------------|
| 1 | 0-28 days | 188 | 10% |
| 2 | 1-11 month | 64 | 3% |
| 3 | 1-4 year | 119 | 6% |
| 4 | 5-14 year | 181 | 10% |
| 5 | 15-49year | 851 | 45% |
| 6 | 50-59year | 197 | 10% |
| 7 | 60-69year | 137 | 7% |
| 8 | More than 70year | 163 | 9% |
| Total | | 1900 | 100% |

Table No.3 Gender wise no. of Deaths reported as Jaundice (including Neonatal Jaundice):

59% of the deaths due to jaundice are of males.

| Gender | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 1115 | 59% |
| Female | 785 | 41% |
| Total | 1900 | 100% |

Table No.4 Month wise no. of Deaths reported as Jaundice (including Neonatal Jaundice):

The number of deaths per month is slightly higher during July to November.

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| January | 105 | 6% |
| February | 95 | 5% |
| March | 107 | 6% |
| April | 156 | 8% |
| May | 164 | 9% |
| June | 129 | 7% |
| July | 186 | 10% |
| August | 213 | 11% |
| September | 207 | 11% |
| October | 197 | 10% |
| November | 209 | 11% |
| December | 132 | 7% |
| Total | 1900 | 100% |

Table No.5 District wise no. of Deaths reported as Malnutrition and Low Birth Weight:

VHSNCs have reported 1084 deaths during 2017 for which the cause is recorded as malnutrition.

| S.N. | District | No.of Death reported | Death Reporting % |
|--------------|-------------|----------------------|-------------------|
| 1 | Balod | 26 | 2% |
| 2 | Balodabazar | 61 | 6% |
| 3 | Balrampur | 50 | 5% |
| 4 | Bastar | 44 | 4% |
| 5 | Bemetara | 46 | 4% |
| 6 | Bijapur | 13 | 1% |
| 7 | Bilaspur | 67 | 6% |
| 8 | Dantewada | 15 | 1% |
| 9 | Dhamtari | 38 | 4% |
| 10 | Durg | 27 | 2% |
| 11 | Gariyaband | 26 | 2% |
| 12 | Janjgir | 49 | 5% |
| 13 | Jashpur | 49 | 5% |
| 14 | Kanker | 35 | 3% |
| 15 | Kawardha | 45 | 4% |
| 16 | Kondagaon | 33 | 3% |
| 17 | Korba | 23 | 2% |
| 18 | Koria | 15 | 1% |
| 19 | Mahasamund | 89 | 8% |
| 20 | Mungeli | 36 | 3% |
| 21 | Narayanpur | 16 | 1% |
| 22 | Raigarh | 73 | 7% |
| 23 | Raipur | 57 | 5% |
| 24 | Rajnandgaon | 85 | 8% |
| 25 | Sukma | 14 | 1% |
| 26 | Surajpur | 32 | 3% |
| 27 | Surguja | 20 | 2% |
| TOTAL | | 1084 | 100% |

Table No.6 Age wise no. of Deaths reported as Malnutrition and Low Birth Weight:

The deaths due to low birth weights are concentrated amongst newborn as 66% of these deaths are in 0-28 days age group. Deaths due to malnutrition are high in the 1month-1 year age group.

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|-------------|
| 1 | 0-28 days | 711 | 66% |
| 2 | 1-11 month | 141 | 13% |
| 3 | 1-4 year | 116 | 11% |
| 4 | 5-14 year | 21 | 2% |
| 5 | 15-49year | 25 | 2% |
| 6 | 50-59year | 3 | 0% |
| 7 | 60-69year | 10 | 1% |
| 8 | More than 70year | 57 | 5% |
| Total | | 1084 | 100% |

Table No.7 Gender wise no. of Deaths reported as Malnutrition and Low Birth Weight:

53% of the deaths due to low birth weight and malnutrition are male.

| Gender | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 578 | 53% |
| Female | 506 | 47% |
| Total | 1084 | 100% |

Table No.8 Month wise no. of Deaths reported as Malnutrition and Low Birth Weight:

The number of deaths per month is slightly higher in January.

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| January | 172 | 16% |
| February | 86 | 8% |
| March | 82 | 8% |
| April | 71 | 7% |
| May | 111 | 10% |
| June | 85 | 8% |
| July | 67 | 6% |
| August | 89 | 8% |
| September | 55 | 5% |
| October | 78 | 7% |
| November | 87 | 8% |
| December | 101 | 9% |
| Total | 1084 | 100% |

Table No.9 District wise no. of Deaths reported as Murder:

VHSNCs have reported 449 deaths during 2017 for which the cause is recorded as murder.

| S.N. | District | No.of Death reported | Death Reporting % |
|--------------|-------------|----------------------|-------------------|
| 1 | Balod | 10 | 2% |
| 2 | Balodabazar | 9 | 2% |
| 3 | Balrampur | 22 | 5% |
| 4 | Bastar | 17 | 4% |
| 5 | Bemetara | 26 | 6% |
| 6 | Bijapur | 24 | 5% |
| 7 | Bilaspur | 24 | 5% |
| 8 | Dantewada | 10 | 2% |
| 9 | Dhamtari | 13 | 3% |
| 10 | Durg | 8 | 2% |
| 11 | Gariyaband | 7 | 2% |
| 12 | Janjgir | 20 | 4% |
| 13 | Jashpur | 29 | 6% |
| 14 | Kanker | 10 | 2% |
| 15 | Kawardha | 16 | 4% |
| 16 | Kondagaon | 12 | 3% |
| 17 | Korba | 17 | 4% |
| 18 | Koria | 6 | 1% |
| 19 | Mahasamund | 6 | 1% |
| 20 | Mungeli | 8 | 2% |
| 21 | Narayanpur | 9 | 2% |
| 22 | Raigarh | 26 | 6% |
| 23 | Raipur | 28 | 6% |
| 24 | Rajnandgaon | 20 | 4% |
| 25 | Sukma | 13 | 3% |
| 26 | Surajpur | 23 | 5% |
| 27 | Surguja | 36 | 8% |
| TOTAL | | 449 | 100% |

Table No.10 Age wise no. of Deaths reported as Murder:

72% of these deaths are in 15-49 year age group. Deaths due to murder are also high in the 50-59 year age group.

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|-------------|
| 1 | 15-49year | 323 | 72% |
| 2 | 50-59year | 50 | 11% |
| 3 | 60-69year | 44 | 10% |
| 4 | More than 70year | 32 | 7% |
| Total | | 449 | 100% |

Table No.11 Gender wise no. of Deaths reported as Murder:

63% of the deaths due to murder are of male persons.

| Gender | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 285 | 63% |
| Female | 164 | 37% |
| Total | 449 | 100% |

Table No.12 Month wise no. of Deaths reported as Murder:

The number of deaths per month is slightly higher during May and July.

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| January | 26 | 6% |
| February | 24 | 5% |
| March | 36 | 8% |
| April | 36 | 8% |
| May | 69 | 15% |
| June | 38 | 8% |
| July | 55 | 12% |
| August | 38 | 8% |
| September | 42 | 9% |
| October | 35 | 8% |
| November | 24 | 5% |
| December | 26 | 6% |
| Total | 449 | 100% |

3.6 Deaths due to HIV-AIDS:

VHSNCs have reported 113 deaths during 2017 for which the cause is recorded as HIV-AIDS

| S.N. | District | No.of Death reported | Death Reporting % |
|--------------|-----------------|-----------------------------|--------------------------|
| 1 | Balod | 3 | 1% |
| 2 | Balodabazar | 10 | 2% |
| 3 | Balrampur | 2 | 0% |
| 4 | Bastar | 10 | 2% |
| 5 | Bemetara | 7 | 1% |
| 6 | Bijapur | 0 | 0% |
| 7 | Bilaspur | 11 | 2% |
| 8 | Dantewada | 1 | 0% |
| 9 | Dhamtari | 1 | 0% |
| 10 | Durg | 4 | 1% |
| 11 | Gariyaband | 1 | 0% |
| 12 | Janjgir | 4 | 1% |
| 13 | Jashpur | 0 | 0% |
| 14 | Kanker | 2 | 0% |
| 15 | Kawardha | 9 | 2% |
| 16 | Kondagaon | 0 | 0% |
| 17 | Korba | 0 | 0% |
| 18 | Koria | 0 | 0% |
| 19 | Mahasamund | 9 | 2% |
| 20 | Mungeli | 0 | 0% |
| 21 | Narayanpur | 0 | 0% |
| 22 | Raigarh | 3 | 1% |
| 23 | Raipur | 19 | 4% |
| 24 | Rajnandgaon | 13 | 3% |
| 25 | Sukma | 0 | 0% |
| 26 | Surajpur | 2 | 0% |
| 27 | Surguja | 2 | 0% |
| TOTAL | | 113 | 22% |

17% of these deaths are in 15-49 year age group.

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|------------|
| 1 | 0-28 days | 0 | 0.0% |
| 2 | 1-11 month | 0 | 0.0% |
| 3 | 1-4 year | 0 | 0% |
| 4 | 5-14 year | 4 | 1% |
| 5 | 15-49year | 86 | 17% |
| 6 | 50-59year | 11 | 2.2% |
| 7 | 60-69year | 9 | 1.8% |
| 8 | More than 70year | 3 | 0.6% |
| Total | | 113 | 22% |

65% of the deaths are of male persons.

| Category | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 73 | 65% |
| Female | 40 | 35% |
| Total | 113 | 100% |

The number of deaths per month does not have a seasonal pattern.

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|------------|
| January | 5 | 1% |
| February | 8 | 2% |
| March | 6 | 1% |
| April | 6 | 1% |
| May | 17 | 3% |
| June | 7 | 1% |
| July | 8 | 2% |
| August | 8 | 2% |
| September | 18 | 4% |
| October | 16 | 3% |
| November | 7 | 1% |
| December | 7 | 1% |
| Total | 113 | 22% |

3.7 Deaths due to Genito-Urinary Disease:

VHSNCs have reported 151 deaths during 2017 for which the cause is recorded as Genito-urinary disease

| S.N. | District | No.of Death reported | Death Reporting % |
|--------------|-----------------|-----------------------------|--------------------------|
| 1 | Balod | 6 | 1% |
| 2 | Balodabazar | 0 | 0% |
| 3 | Balrampur | 16 | 3% |
| 4 | Bastar | 10 | 2% |
| 5 | Bemetara | 4 | 1% |
| 6 | Bijapur | 4 | 1% |
| 7 | Bilaspur | 13 | 3% |
| 8 | Dantewada | 2 | 0% |
| 9 | Dhamtari | 2 | 0% |
| 10 | Durg | 4 | 1% |
| 11 | Gariyaband | 5 | 1% |
| 12 | Janjgir | 4 | 1% |
| 13 | Jashpur | 6 | 1% |
| 14 | Kanker | 10 | 2% |
| 15 | Kawardha | 5 | 1% |
| 16 | Kondagaon | 5 | 1% |
| 17 | Korba | 9 | 2% |
| 18 | Koria | 1 | 0% |
| 19 | Mahasamund | 1 | 0% |
| 20 | Mungeli | 4 | 1% |
| 21 | Narayanpur | 1 | 0% |
| 22 | Raigarh | 4 | 1% |
| 23 | Raipur | 4 | 1% |
| 24 | Rajnandgaon | 20 | 4% |
| 25 | Sukma | 0 | 0% |
| 26 | Surajpur | 5 | 1% |
| 27 | Surguja | 6 | 1% |
| TOTAL | | 151 | 30% |

8% of these deaths are in 15-49 year age group

| S.N. | Age Category | No.of Death reported | Percentage |
|--------------|------------------|----------------------|------------|
| 1 | 0-28 days | 8 | 1.6% |
| 2 | 1-11 month | 4 | 0.8% |
| 3 | 1-4 year | 2 | 0% |
| 4 | 5-14 year | 3 | 1% |
| 5 | 15-49year | 41 | 8% |
| 6 | 50-59year | 14 | 2.8% |
| 7 | 60-69year | 29 | 5.7% |
| 8 | More than 70year | 50 | 9.9% |
| Total | | 151 | 30% |

66% of the deaths are of male persons.

| Category | No.of Death Reported | Percentage |
|--------------|----------------------|-------------|
| Male | 100 | 66% |
| Female | 51 | 34% |
| Total | 151 | 100% |

The number of deaths per month does not have a seasonal pattern.

| Month | No.of Death Reported | Percentage |
|--------------|----------------------|------------|
| January | 14 | 3% |
| February | 23 | 5% |
| March | 4 | 1% |
| April | 2 | 0% |
| May | 9 | 2% |
| June | 8 | 2% |
| July | 18 | 4% |
| August | 16 | 3% |
| September | 10 | 2% |
| October | 21 | 4% |
| November | 9 | 2% |
| December | 17 | 3% |
| Total | 151 | 30% |

Annexure – II

Table No.13 District wise no. of Deaths in 5 to 14 years age group in 2017

The report covers 2554 deaths in the 5-14 year age group in rural areas of the state.

| S.N. | District | No.of Death reported | % |
|--------------|-------------|----------------------|-------------|
| 1 | Balod | 62 | 2% |
| 2 | Balodabazar | 202 | 8% |
| 3 | Balrampur | 131 | 5% |
| 4 | Bastar | 86 | 3% |
| 5 | Bemetara | 78 | 3% |
| 6 | Bijapur | 82 | 3% |
| 7 | Bilaspur | 128 | 5% |
| 8 | Dantewada | 54 | 2% |
| 9 | Dhamtari | 76 | 3% |
| 10 | Durg | 74 | 3% |
| 11 | Gariyaband | 66 | 3% |
| 12 | Janjgir | 176 | 7% |
| 13 | Jashpur | 108 | 4% |
| 14 | Kanker | 80 | 3% |
| 15 | Kawardha | 115 | 5% |
| 16 | Kondagaon | 49 | 2% |
| 17 | Korba | 76 | 3% |
| 18 | Koria | 54 | 2% |
| 19 | Mahasamund | 91 | 4% |
| 20 | Mungeli | 93 | 4% |
| 21 | Narayanpur | 23 | 1% |
| 22 | Raigarh | 130 | 5% |
| 23 | Raipur | 97 | 4% |
| 24 | Rajnandgaon | 166 | 6% |
| 25 | Sarguja | 105 | 4% |
| 26 | Sukma | 27 | 1% |
| 27 | Surajpur | 123 | 5% |
| Total | | 2554 | 100% |

Table No.14 Month wise no. of Deaths in 5 to 14 years age group in 2017

The 5-14 year age group deaths recorded monthly are higher during July to September.

| Month | No.of Death Reported | % |
|--------------|-----------------------------|-------------|
| January | 140 | 5% |
| February | 130 | 5% |
| March | 131 | 5% |
| April | 214 | 8% |
| May | 227 | 9% |
| June | 255 | 10% |
| July | 307 | 12% |
| August | 273 | 11% |
| September | 282 | 11% |
| October | 225 | 9% |
| November | 225 | 9% |
| December | 144 | 6% |
| Total | 2554 | 100% |

Table No.15 Gender wise no. of Deaths in 5 to 14 years age group in 2017

54% of the 5-14 year age group deaths recorded were of male children.

| Gender | No.of Death Reported | % |
|---------------|-----------------------------|-------------|
| Male | 1379 | 54% |
| Female | 1175 | 46% |
| Total | 2554 | 100% |

Table No.16 Cause wise no. of Deaths in 5 to 14 years age group in 2017

Still, for 1971, 5-14 year age group deaths clear information regarding the cause of death has been recorded by VHSNCs. For these deaths, Accident and Fever/Malaria was the most common cause, Jaundice were also causes. Deaths with Fever/Malaria are decreases and Accident is increases from last 4 years.

| Reported Causes | No.of Deaths reported in 2017 | % in 2017 | % in 2016 | % in 2015 | % in 2014 | % in 2013 |
|--|--------------------------------------|------------------|------------------|------------------|------------------|------------------|
| Accident | 530 | 21% | 18% | 15% | 12% | 14% |
| Convulsion | 90 | 4% | 3% | 2% | 2% | 1% |
| Fever/Malaria | 259 | 10% | 12% | 14% | 16% | 17% |
| Jaundice | 181 | 7% | 7% | 6% | 7% | 6% |
| Malnutrition | 21 | 1% | 1% | 1% | 1% | 1% |
| Pneumonia | 45 | 2% | 2% | 2% | 2% | 1% |
| Snake bite | 119 | 5% | 4% | 5% | 5% | 4% |
| Diarrhea | 91 | 4% | 4% | 3% | 4% | 3% |
| T.B. | 19 | 1% | 1% | 1% | 1% | 1% |
| Rabies | 16 | 1% | 1% | 1% | 1% | 2% |
| Heart Disease/stroke (including CHD/Anomalies) | 203 | 8% | 3% | | | |
| Digestive Disease | 179 | 7% | 5% | | | |
| Genito-urinary disease | 3 | 0% | 0% | | | |
| Diabetes | 25 | 1% | 1% | | | |
| Cancer | 74 | 3% | 3% | | | |
| Sickle Cell Anemia | 112 | 4% | 2% | | | |
| HIV/AIDS | 4 | 0% | 0% | | | |
| Other | 583 | 23% | 33% | 49% | 49% | 50% |
| Total | 2554 | 100% | 100% | 100% | 100% | 100% |

Table No.17 District wise no. of Deaths in 15 to 49 years age group in 2017

The report covers 22258 deaths in the 15-49 year age group in rural areas of the state.

| S.N. | District | No.of Death reported | % |
|--------------|-------------|----------------------|-------------|
| 1 | Balod | 856 | 4% |
| 2 | Balodabazar | 1346 | 6% |
| 3 | Balrampur | 642 | 3% |
| 4 | Bastar | 682 | 3% |
| 5 | Bemetara | 728 | 3% |
| 6 | Bijapur | 458 | 2% |
| 7 | Bilaspur | 1211 | 5% |
| 8 | Dantewada | 390 | 2% |
| 9 | Dhamtari | 1034 | 5% |
| 10 | Durg | 921 | 4% |
| 11 | Gariyaband | 546 | 2% |
| 12 | Janjgir | 1695 | 8% |
| 13 | Jashpur | 915 | 4% |
| 14 | Kanker | 917 | 4% |
| 15 | Kawardha | 785 | 4% |
| 16 | Kondagaon | 445 | 2% |
| 17 | Korba | 625 | 3% |
| 18 | Koria | 311 | 1% |
| 19 | Mahasamund | 1140 | 5% |
| 20 | Mungeli | 638 | 3% |
| 21 | Narayanpur | 168 | 1% |
| 22 | Raigarh | 1235 | 6% |
| 23 | Raipur | 1320 | 6% |
| 24 | Rajnandgaon | 1644 | 7% |
| 25 | Sarguja | 290 | 1% |
| 26 | Sukma | 673 | 3% |
| 27 | Surajpur | 642 | 3% |
| TOTAL | | 22258 | 100% |

Table No.18 Month wise no. of Deaths in 15 to 49 years age group in 2017

The 15-49 year age group deaths recorded monthly are slightly higher during May to September.

| Month | No.of Death Reported | % |
|--------------|-----------------------------|-------------|
| January | 1486 | 7% |
| February | 1362 | 6% |
| March | 1560 | 7% |
| April | 1718 | 8% |
| May | 2278 | 10% |
| June | 1837 | 8% |
| July | 2276 | 10% |
| August | 2203 | 10% |
| September | 2159 | 10% |
| October | 2042 | 9% |
| November | 1806 | 8% |
| December | 1531 | 7% |
| Total | 22258 | 100% |

Table No.19 Gender wise no. of Deaths in 15 to 49 years age group in 2017

63% of the 15-49 year age group deaths recorded were of male persons.

| Gender | No.of Death Reported | % |
|---------------|-----------------------------|-------------|
| Male | 13945 | 63% |
| Female | 8313 | 37% |
| Total | 22258 | 100% |

Table No.20 Cause wise no. of Deaths in 15 to 49 years age group in 2017

Still, for 16961 deaths in this age group, clear information regarding the cause of death has been recorded by VHSNCs. For these deaths, Accidents, Suicides, Heart disease and Cancer

were the common causes of deaths. TB, Jaundice and Fever/Malaria were causes. Deaths with Fever/Malaria is slightly decreases from last 4 years.

| Reported Causes | No.of Deaths reported in 2017 | % in 2017 | % in 2016 | % in 2015 | % in 2014 | % in 2013 |
|------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|
| Accident | 3458 | 16% | 13% | 14% | 13% | 12% |
| Convulsion | 233 | 1% | 1% | 1% | 1% | 1% |
| Fever/Malaria | 502 | 2% | 3% | 5% | 6% | 6% |
| Jaundice | 851 | 4% | 4% | 4% | 4% | 3% |
| Malnutrition | 25 | 0% | 0% | 0% | 0% | 0% |
| Murder | 323 | 1% | 1% | 1% | 1% | 1% |
| Pneumonia | 59 | 0% | 0% | 0% | 0% | 0% |
| Snake bite | 298 | 1% | 2% | 2% | 2% | 2% |
| Diarrhea | 218 | 1% | 1% | 1% | 1% | 2% |
| T.B. | 797 | 4% | 4% | 5% | 4% | 4% |
| Suicide | 2401 | 11% | 10% | 13% | 12% | 11% |
| Rabies | 19 | 0% | 0% | 0% | 0% | 0% |
| Maternal cause | 272 | 1% | 1% | 2% | 2% | 2% |
| Heart Disease/stroke | 3565 | 16% | 8% | | | |
| Cancer | 1513 | 7% | 6% | | | |
| Digestive Disease | 1441 | 6% | 4% | | | |
| Diabetes | 594 | 3% | 2% | | | |
| Sickle Cell Anemia | 265 | 1% | 1% | | | |
| HIV/AIDS | 86 | 0% | 0% | | | |
| Genito-urinary disease | 41 | 0% | 0% | | | |
| Other | 5297 | 24% | 37% | 52% | 54% | 56% |
| Total | 22258 | 100% | 100% | 100% | 100% | 100% |

Table No.21 District wise no. of Deaths in 50 to 59 years age group in 2017

The report covers 10728 deaths in the 50-59 year age group in rural areas of the state.

| S.N. | District | No.of Death reported | % |
|--------------|-------------|----------------------|-------------|
| 1 | Balod | 531 | 5% |
| 2 | Balodabazar | 777 | 7% |
| 3 | Balrampur | 260 | 2% |
| 4 | Bastar | 302 | 3% |
| 5 | Bemetara | 385 | 4% |
| 6 | Bijapur | 151 | 1% |
| 7 | Bilaspur | 544 | 5% |
| 8 | Dantewada | 105 | 1% |
| 9 | Dhamtari | 578 | 5% |
| 10 | Durg | 466 | 4% |
| 11 | Gariyaband | 238 | 2% |
| 12 | Janjgir | 919 | 9% |
| 13 | Jashpur | 476 | 4% |
| 14 | Kanker | 394 | 4% |
| 15 | Kawardha | 331 | 3% |
| 16 | Kondagaon | 163 | 2% |
| 17 | Korba | 287 | 3% |
| 18 | Koria | 136 | 1% |
| 19 | Mahasamund | 525 | 5% |
| 20 | Mungeli | 253 | 2% |
| 21 | Narayanpur | 75 | 1% |
| 22 | Raigarh | 597 | 6% |
| 23 | Raipur | 582 | 5% |
| 24 | Rajnandgaon | 852 | 8% |
| 25 | Sarguja | 360 | 3% |
| 26 | Sukma | 79 | 1% |
| 27 | Surajpur | 362 | 3% |
| Total | | 10728 | 100% |

Table No.22 Month wise no. of Deaths in 50 to 59 years age group in 2017

The 50-59 year age group deaths recorded monthly are slightly higher in July.

| Month | No.of Death Reported | % |
|--------------|-----------------------------|-------------|
| January | 876 | 8% |
| February | 684 | 6% |
| March | 726 | 7% |
| April | 838 | 8% |
| May | 1001 | 9% |
| June | 893 | 8% |
| July | 1065 | 10% |
| August | 1012 | 9% |
| September | 968 | 9% |
| October | 869 | 8% |
| November | 919 | 9% |
| December | 876 | 8% |
| Total | 10728 | 100% |

Table No.23 Gender wise no. of Deaths in 50 to 59 years age group in 2017

64% of the 50-59 year age group deaths recorded were of male persons.

| Gender | No.of Death Reported | % |
|---------------|-----------------------------|-------------|
| Male | 6852 | 64% |
| Female | 3876 | 36% |
| Total | 10728 | 100% |

Table No.24 Cause wise no. of Deaths in 50 to 59 years age group in 2017

Still, for 7578 deaths in this age group, clear information regarding the cause of death has been recorded by VHSNCs. For these deaths, Heart disease, Cancer and Diabetes are most common cause of death. Accidents, Suicides and TB were causes. Deaths with Fever/Malaria are decreases from last 4 years.

| Reported Causes | No.of Deaths reported in 2017 | % in 2017 | % in 2016 | % in 2015 | % in 2014 | % in 2013 |
|------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|
| Accident | 681 | 6% | 6% | 6% | 5% | 5% |
| Convulsion | 41 | 0% | 0% | 0% | 0% | 0% |
| Fever/Malaria | 139 | 1% | 2% | 4% | 5% | 4% |
| Jaundice | 197 | 2% | 2% | 2% | 2% | 1% |
| Malnutrition | 3 | 0% | 0% | 0% | 0% | 0% |
| Murder | 50 | 0% | 1% | 1% | 1% | 0% |
| Pneumonia | 12 | 0% | 0% | 0% | 0% | 0% |
| Snake bite | 64 | 1% | 1% | 1% | 1% | 1% |
| Diarrhea | 78 | 1% | 1% | 1% | 1% | 1% |
| T.B. | 376 | 4% | 4% | 5% | 4% | 5% |
| Suicide | 338 | 3% | 3% | 4% | 3% | 4% |
| Rabies | 18 | 0% | 0% | 0% | 0% | 0% |
| Heart Disease/stroke | 3313 | 31% | 12% | | | |
| Cancer | 958 | 9% | 8% | | | |
| Diabetes | 555 | 5% | 6% | | | |
| Digestive Disease | 696 | 6% | 4% | | | |
| Sickle Cell Anemia | 34 | 0% | 0% | | | |
| Genito-urinary disease | 14 | 0% | 0% | | | |
| HIV/AIDS | 11 | 0% | 0% | | | |
| Other | 3150 | 29% | 50% | 76% | 78% | 79% |
| Total | 10728 | 100% | 100% | 100% | 100% | 100% |

Table No.25 District wise no. of Deaths in 60 to 69 years age group in 2017

The report covers 14099 deaths in the 60-69 year age group in rural areas of the state.

| S.N. | District | No.of Death reported | % |
|--------------|-----------------|-----------------------------|-------------|
| 1 | Balod | 745 | 5% |
| 2 | Balodabazar | 895 | 6% |
| 3 | Balrampur | 334 | 2% |
| 4 | Bastar | 393 | 3% |
| 5 | Bemetara | 573 | 4% |
| 6 | Bijapur | 180 | 1% |
| 7 | Bilaspur | 785 | 6% |
| 8 | Dantewada | 73 | 1% |
| 9 | Dhamtari | 714 | 5% |
| 10 | Durg | 681 | 5% |
| 11 | Gariyaband | 278 | 2% |
| 12 | Janjgir | 1288 | 9% |
| 13 | Jashpur | 559 | 4% |
| 14 | Kanker | 512 | 4% |
| 15 | Kawardha | 542 | 4% |
| 16 | Kondagaon | 194 | 1% |
| 17 | Korba | 397 | 3% |
| 18 | Koria | 157 | 1% |
| 19 | Mahasamund | 636 | 5% |
| 20 | Mungeli | 388 | 3% |
| 21 | Narayanpur | 65 | 0% |
| 22 | Raigarh | 1003 | 7% |
| 23 | Raipur | 675 | 5% |
| 24 | Rajnandgaon | 1038 | 7% |
| 25 | Sarguja | 450 | 3% |
| 26 | Sukma | 101 | 1% |
| 27 | Surajpur | 444 | 3% |
| TOTAL | | 14099 | 100% |

Table No.26 Month wise no. of Deaths in 60 to 69 years age group in 2017

The 60-69 year age group deaths recorded monthly are slightly higher during May and July.

| Month | No.of Death Reported | % |
|--------------|-----------------------------|-------------|
| January | 1139 | 8% |
| February | 913 | 6% |
| March | 987 | 7% |
| April | 1096 | 8% |
| May | 1431 | 10% |
| June | 1159 | 8% |
| July | 1394 | 10% |
| August | 1234 | 9% |
| September | 1178 | 8% |
| October | 1134 | 8% |
| November | 1246 | 9% |
| December | 1189 | 8% |
| Total | 14099 | 100% |

Table No.27 Gender wise no. of Deaths in 60 to 69 years age group in 2017

58% of the 60-69 year age group deaths recorded were of male persons.

| Gender | No.of Death Reported | % |
|---------------|-----------------------------|-------------|
| Male | 8174 | 58% |
| Female | 5925 | 42% |
| Total | 14099 | 100% |

Table No.28 Cause wise no. of Deaths in 60 to 69 years age group in 2017

Still, for 9085 deaths in this age group, clear information regarding the cause of death has been recorded by VHSNCs. For these deaths, Heart disease, Cancer and Diabetes are most common cause of death. Accident, Fever/Malaria and TB were also causes. Deaths with Fever/Malaria are decreases and Accident slightly increases from last 4 years.

| Reported Causes | No.of Deaths reported in 2017 | % in 2017 | % in 2016 | % in 2015 | % in 2014 | % in 2013 |
|------------------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|
| Accident | 514 | 4% | 4% | 3% | 2% | 2% |
| Convulsion | 55 | 0% | 0% | 0% | 0% | 0% |
| Fever/Malaria | 190 | 1% | 3% | 4% | 5% | 4% |
| Jaundice | 137 | 1% | 1% | 1% | 1% | 1% |
| Malnutrition | 10 | 0% | 0% | 0% | 0% | 0% |
| Murder | 44 | 0% | 0% | 0% | 0% | 0% |
| Pneumonia | 4 | 0% | 0% | 0% | 0% | 0% |
| Snake bite | 47 | 0% | 0% | 0% | 0% | 0% |
| Diarrhea | 91 | 1% | 1% | 1% | 1% | 1% |
| T.B. | 356 | 3% | 3% | 3% | 3% | 2% |
| Suicide | 195 | 1% | 1% | 2% | 1% | 1% |
| Rabies | 9 | 0% | 0% | 0% | 0% | 0% |
| Heart Disease/stroke | 5001 | 35% | 11% | | | |
| Cancer | 879 | 6% | 6% | | | |
| Diabetes | 777 | 6% | 5% | | | |
| Digestive Disease | 713 | 5% | 4% | | | |
| Sickle Cell Anemia | 25 | 0% | 0% | | | |
| HIV/AIDS | 9 | 0% | 0% | | | |
| Genito-urinary disease | 29 | 0% | 0% | | | |
| Other | 5014 | 36% | 61% | 84% | 86% | 89% |
| Total | 14099 | 100% | 100% | 100% | 100% | 100% |

Table No.29 District wise no. of Deaths in above 70 years age group in 2017

The report covers 32316 deaths in the more than 70 year age group in rural areas of the state.

| S.N. | District | No.of Death reported | % |
|--------------|-------------|----------------------|-------------|
| 1 | Balod | 1453 | 4% |
| 2 | Balodabazar | 1775 | 5% |
| 3 | Balrampur | 834 | 3% |
| 4 | Bastar | 764 | 2% |
| 5 | Bemetara | 1259 | 4% |
| 6 | Bijapur | 180 | 1% |
| 7 | Bilaspur | 1868 | 6% |
| 8 | Dantewada | 76 | 0% |
| 9 | Dhamtari | 1620 | 5% |
| 10 | Durg | 1909 | 6% |
| 11 | Gariyaband | 438 | 1% |
| 12 | Janjgir | 3598 | 11% |
| 13 | Jashpur | 1263 | 4% |
| 14 | Kanker | 1026 | 3% |
| 15 | Kawardha | 1358 | 4% |
| 16 | Kondagaon | 320 | 1% |
| 17 | Korba | 636 | 2% |
| 18 | Koria | 347 | 1% |
| 19 | Mahasamund | 1530 | 5% |
| 20 | Mungeli | 1135 | 4% |
| 21 | Narayanpur | 120 | 0% |
| 22 | Raigarh | 2582 | 8% |
| 23 | Raipur | 1420 | 4% |
| 24 | Rajnandgaon | 2271 | 7% |
| 25 | Sarguja | 1162 | 4% |
| 26 | Sukma | 120 | 0% |
| 27 | Surajpur | 1251 | 4% |
| TOTAL | | 32316 | 100% |

Table No.30 Month wise no. of Deaths in above 70 years age group in 2017

Deaths recorded monthly for this age group are slightly higher in May.

| Month | No.of Death reported | % |
|--------------|-----------------------------|-------------|
| January | 2857 | 9% |
| February | 2184 | 7% |
| March | 2225 | 7% |
| April | 2426 | 8% |
| May | 3406 | 11% |
| June | 2271 | 7% |
| July | 2832 | 9% |
| August | 2845 | 9% |
| September | 2708 | 8% |
| October | 2376 | 7% |
| November | 2985 | 9% |
| December | 3202 | 10% |
| Total | 32316 | 100% |

Table No.31 Gender wise no. of Deaths in above 70 years age group in 2017

57% of the More than 70 year age group deaths recorded were of male persons.

| Gender | No.of Death reported | % |
|---------------|-----------------------------|-------------|
| Male | 18343 | 57% |
| Female | 13973 | 43% |
| Total | 32316 | 100% |

Table No.32 Cause wise no. of Deaths in above 70 years age group in 2017

Still, for 15655 deaths in this age group, clear information regarding the cause of death has been recorded by VHSNCs. For these deaths, Heart disease, Diabetes and Fever/Malaria are most common cause of death. Accidents and Cancer were also causes. Deaths with Fever/Malaria is slightly decreases and Accident is slightly increases from last 4 years.

| Reported Causes | No.of Deaths reported in 2017 | % in 2017 | % in 2016 | % in 2015 | % in 2014 | % in 2013 |
|------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|
| Accident | 772 | 2% | 2% | 1% | 1% | 1% |
| Convulsion | 57 | 0% | 0% | 0% | 0% | 0% |
| Fever/Malaria | 425 | 1% | 3% | 3% | 3% | 2% |
| Jaundice | 163 | 1% | 0% | 0% | 0% | 0% |
| Malnutrition | 57 | 0% | 0% | 0% | 0% | 0% |
| Murder | 32 | 0% | 0% | 0% | 0% | 0% |
| Pneumonia | 19 | 0% | 0% | 0% | 0% | 0% |
| Snake bite | 35 | 0% | 0% | 0% | 0% | 0% |
| Diarrhea | 180 | 1% | 1% | 1% | 1% | 0% |
| T.B. | 364 | 1% | 1% | 1% | 1% | 1% |
| Suicide | 171 | 1% | 0% | 1% | 1% | 0% |
| Rabies | 10 | 0% | 0% | 0% | 0% | 0% |
| Heart Disease/stroke | 10462 | 32% | 6% | | | |
| Diabetes | 1067 | 3% | 3% | | | |
| Digestive Disease | 919 | 3% | 2% | | | |
| Cancer | 843 | 3% | 2% | | | |
| Genito-urinary disease | 50 | 0% | 0% | | | |
| Sickle Cell Anemia | 26 | 0% | 0% | | | |
| HIV/AIDS | 3 | 0% | 0% | | | |
| Other | 16661 | 52% | 78% | 92% | 93% | 95% |
| Total | 32316 | 100% | 100% | 100% | 100% | 100% |

Table No.33 District wise no. of reported deaths in all age group in 2017

| S.N. | District | No.of Death Reported in 2013 | No.of Death Reported in 2014 | No.of Death Reported in 2015 | No.of Death Reported in 2016 | No.of Death Reported in 2017 |
|--------------|-------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 1 | BALOD | 2623 | 3801 | 4218 | 4482 | 4347 |
| 2 | BALODABAZAR | 4970 | 5626 | 5663 | 6878 | 6046 |
| 3 | BALRAMPUR | 2293 | 2414 | 3372 | 3969 | 2403 |
| 4 | BASTAR | 2264 | 2155 | 2938 | 2608 | 2394 |
| 5 | BEMETARA | 1853 | 2587 | 3201 | 3820 | 3389 |
| 6 | BIJAPUR | 571 | 835 | 1094 | 1243 | 1203 |
| 7 | BILASPUR | 2631 | 3095 | 4797 | 6085 | 4796 |
| 8 | DANTEWADA | 488 | 2998 | 751 | 1122 | 1114 |
| 9 | DHAMTARI | 3120 | 3228 | 4000 | 4792 | 4248 |
| 10 | DURG | 2076 | 2761 | 3567 | 3965 | 3738 |
| 11 | GARIYABAND | 1736 | 1968 | 2627 | 3199 | 2378 |
| 12 | JANJGIR | 3490 | 4959 | 6799 | 7977 | 7288 |
| 13 | JASHPUR | 2792 | 3480 | 4221 | 4351 | 4122 |
| 14 | KANKER | 2495 | 2610 | 3233 | 3513 | 3086 |
| 15 | KAWARDHA | 2109 | 2507 | 2634 | 3552 | 3210 |
| 16 | KONDAGAON | 1694 | 1694 | 2133 | 2019 | 1485 |
| 17 | KORBA | 1835 | 1569 | 2655 | 3228 | 2324 |
| 18 | KORIA | 867 | 876 | 1315 | 1550 | 1160 |
| 19 | MAHASAMUND | 2275 | 3396 | 4661 | 6488 | 5439 |
| 20 | MUNGELI | 809 | 1773 | 2552 | 2481 | 2564 |
| 21 | NARAYANPUR | 277 | 304 | 409 | 420 | 448 |
| 22 | RAIGARH | 3219 | 4702 | 6348 | 7465 | 5494 |
| 23 | RAIPUR | 2337 | 3214 | 4244 | 4879 | 4788 |
| 24 | RAJNANDGAON | 4142 | 6116 | 6545 | 8838 | 6775 |
| 25 | SUKMA | 475 | 629 | 846 | 949 | 868 |
| 26 | SURAJPUR | 2497 | 2743 | 3419 | 3784 | 2926 |
| 27 | SURGUJA | 2618 | 2239 | 2905 | 3537 | 2894 |
| Total | | 58556 | 74279 | 91147 | 107194 | 90927 |

Table No.34 Month wise no. of reported deaths in all age group in 2017

The no. of deaths reported monthly is higher in May.

| Month | No.of Death Reported | Percentage |
|--------------|-----------------------------|-------------------|
| January | 7719 | 8% |
| February | 5939 | 7% |
| March | 6371 | 7% |
| April | 6892 | 8% |
| May | 8851 | 10% |
| June | 6957 | 8% |
| July | 8216 | 9% |
| August | 8490 | 9% |
| September | 8056 | 9% |
| October | 7720 | 8% |
| November | 7986 | 9% |
| December | 7730 | 9% |
| Total | 90927 | 100% |

Table No.35 Gender wise no. of reported deaths in all age group in 2017

59% of the total deaths reported are of male persons.

| Gender | No.of Death Reported | Percentage |
|---------------|-----------------------------|-------------------|
| Male | 35738 | 59% |
| Female | 24484 | 41% |
| Total | 60222 | 100% |

Table No.36 Year & cause wise no. of reported deaths in all age group from 2012 to 2017

Other than the deaths attributed to old age, unknown or miscellaneous causes, Heart Disease, Accident and Cancer is the biggest killer in the state. It is followed by Fever/Malaria, Suicide, Diabetes and Neonatal deaths in terms of common causes of rural deaths recorded by VHSNCs.

| S.N. | Reported Causes | No.of Deaths Reported in 2012 | No.of Deaths Reported in 2013 | No.of Deaths Reported in 2014 | No.of Deaths Reported in 2015 | No.of Deaths Reported in 2016 | No.of Deaths Reported in 2017 |
|--------------|---|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 1 | Heart Disease/Stroke (including Congenital Heart Disease/Anomalies) | | | | | 8233 | 22896 |
| 2 | Accident | 1854 | 2935 | 3722 | 5072 | 6521 | 6306 |
| 3 | Cancer | | | | | 4436 | 4313 |
| 5 | Digestive Diseases | | | | | 3585 | 4210 |
| 7 | Suicide | 1476 | 2063 | 2728 | 3363 | 3472 | 3105 |
| 8 | Diabetes | | | | | 3238 | 3032 |
| 9 | T.B. | 934 | 1376 | 1795 | 2183 | 2383 | 1935 |
| 6 | Fever/Malaria | 2467 | 2872 | 3962 | 4071 | 3531 | 1927 |
| 10 | Jaundice | 619 | 850 | 1429 | 1669 | 2079 | 1712 |
| 4 | Neonatal causes | 1863 | 2619 | 3262 | 3617 | 3747 | 1646 |
| 11 | Pneumonia | 582 | 754 | 1199 | 1384 | 1873 | 992 |
| 12 | Diarrhea | 607 | 752 | 949 | 1197 | 1534 | 905 |
| 14 | Convulsions | 238 | 301 | 485 | 678 | 997 | 822 |
| 13 | Low Birth Weight | 235 | 474 | 715 | 998 | 1006 | 711 |
| 15 | Snake bite | 342 | 451 | 585 | 677 | 737 | 611 |
| 17 | Sickle Cell Anemia | | | | | 457 | 506 |
| 18 | Murder | 229 | 272 | 336 | 339 | 445 | 449 |
| 16 | Malnutrition | 109 | 216 | 331 | 442 | 672 | 373 |
| 19 | Maternal causes | 230 | 244 | 326 | 402 | 384 | 272 |
| 20 | Neonatal Jaundice | 109 | 147 | 213 | 178 | 263 | 188 |
| 23 | Genito-urinary Diseases | | | | | 76 | 151 |
| 22 | HIV/AIDS | | | | | 107 | 113 |
| 21 | Rabies | 72 | 106 | 118 | 142 | 119 | 76 |
| 24 | Others | 27202 | 42124 | 52124 | 64735 | 57299 | 33676 |
| Total | | 39168 | 58556 | 74279 | 91147 | 107194 | 90927 |

| S.N. | Reported Causes | % of Deaths Reported in 2012 | % of Deaths Reported in 2013 | % of Deaths Reported in 2014 | % of Deaths Reported in 2015 | % of Deaths Reported in 2016 | % of Deaths Reported in 2017 |
|--------------|---|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 1 | Heart Disease/Stroke (including Congenital Heart Disease/Anomalies) | | | | | 7.7% | 25.2% |
| 2 | Accident | 4.7% | 5.0% | 5.0% | 5.6% | 6.1% | 6.9% |
| 3 | Cancer | | | | | 4.1% | 4.7% |
| 5 | Digestive Diseases | | | | | 3.3% | 4.6% |
| 7 | Suicide | 3.8% | 3.5% | 3.7% | 3.7% | 3.2% | 3.4% |
| 8 | Diabetes | | | | | 3.0% | 3.3% |
| 9 | T.B. | 2.4% | 2.3% | 2.4% | 2.4% | 2.2% | 2.1% |
| 6 | Fever/Malaria | 6.3% | 4.9% | 5.3% | 4.5% | 3.3% | 2.1% |
| 10 | Jaundice | 1.6% | 1.5% | 1.9% | 1.8% | 1.9% | 1.9% |
| 4 | Neonatal causes | 4.8% | 4.5% | 4.4% | 4.0% | 3.5% | 1.8% |
| 11 | Pneumonia | 1.5% | 1.3% | 1.6% | 1.5% | 1.7% | 1.1% |
| 12 | Diarrhea | 1.5% | 1.3% | 1.3% | 1.3% | 1.4% | 1.0% |
| 14 | Convulsions | 0.6% | 0.5% | 0.7% | 0.7% | 0.9% | 0.9% |
| 13 | Low Birth Weight | 0.6% | 0.8% | 1.0% | 1.1% | 0.9% | 0.8% |
| 15 | Snake bite | 0.9% | 0.8% | 0.8% | 0.7% | 0.7% | 0.7% |
| 17 | Sickle Cell Anemia | | | | | 0.4% | 0.6% |
| 18 | Murder | 0.6% | 0.5% | 0.5% | 0.4% | 0.4% | 0.5% |
| 16 | Malnutrition | 0.3% | 0.4% | 0.4% | 0.5% | 0.6% | 0.4% |
| 19 | Maternal causes | 0.6% | 0.4% | 0.4% | 0.4% | 0.4% | 0.3% |
| 20 | Neonatal Jaundice | 0.3% | 0.3% | 0.3% | 0.2% | 0.2% | 0.2% |
| 23 | Genito-urinary Diseases | | | | | 0.1% | 0.2% |
| 22 | HIV/AIDS | | | | | 0.1% | 0.1% |
| 21 | Rabies | 0.2% | 0.2% | 0.2% | 0.2% | 0.1% | 0.1% |
| 24 | Others | 69.4% | 71.9% | 70.2% | 71.0% | 53.5% | 37.0% |
| Total | | 100% | 100% | 100% | 100% | 100% | 100% |