

# **What Do People Die Of in Chhattisgarh?**

**An Analysis of Community Reported Deaths during Year 2018  
in Chhattisgarh**

**Draft Report**

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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 record 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 under it. Chhattisgarh was one of the first states in the country to implement this initiative. 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). Despite this limitation, the information available through VHSNC and MAS registers is still useful for understanding 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 and conditions that CHW facilitators of community committees are trained to identify. E.g. community can easily identify a symptom like diarrhoea, fever, injury etc.

**Number of deaths covered:** For rural areas, this report analyses nearly 91202 deaths that were recorded by VHSNCs during the year 2018. The deaths covered in 2018 compilation constitute 53% of total no. of rural deaths expected according to Crude Death Rate of the state (as per Statistical Dept Govt of CG 2019-20).

### 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	%	No. of reported deaths in 2018	%
Overall Deaths	171880	39168	22.8%	58556	34.1%	74279	43%	91147	53%	107194	62%	90927	52.9%	91202	53.1%
Neonatal Deaths	17729	3391	19.1%	4361	24.6%	5194	29%	5895	33%	6300	36%	5378	30.3%	5687	32.1%
1-11 month age group Deaths	7300	1133	15.5%	1240	17.0%	1909	26%	2142	29%	2626	36%	1676	23.0%	1524	20.9%
1-4 year age group Deaths	8865	1159	13.1%	1295	14.6%	1701	19%	1885	21%	2061	23%	1918	21.6%	1319	14.9%
Maternal Deaths	902	230	25.5%	244	27.1%	326	36%	402	45%	384	43%	317	35.1%	263	29.2%
Other groups	137084	33255	24.3%	51416	37.5%	65149	48%	80823	59%	95823	70%	81638	59.6%	82409	60.1%

In the urban-slum area, this report analyses 8874 deaths that were recorded by MAS during the year 2018. The deaths covered in 2018 compilation constitute 75% 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 Mitandin 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	%	No. of reported deaths in 2018	%
<b>Overall Deaths</b>	<b>11863</b>	<b>2764</b>	<b>23%</b>	<b>8162</b>	<b>69%</b>	<b>9177</b>	<b>77%</b>	<b>8874</b>	<b>75%</b>
Neonatal Deaths	830	525	63%	743	89%	703	85%	659	79%
1-11 month age group Deaths	435	97	22%	173	40%	158	36%	122	28%
1-4 Year age group Deaths	119	60	51%	114	96%	127	107%	97	82%
Maternal Deaths	96	14	15%	26	27%	35	36%	14	15%
Other age groups	10383	2068	20%	7106	68%	8154	79%	7982	77%

**Reported Causes of deaths:** The analysis of reported known 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	<1 month	1 to 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	46	62	206	465	3778	722	528	894	6701
2	Convulsions	204	87	99	78	233	40	40	70	851
3	Fever/ Malaria	79	93	145	132	365	137	140	436	1527
4	Neonatal Jaundice	207								207
5	Jaundice		82	84	150	743	148	117	143	1467
6	Low Birth Weight	611								611
7	Malnutrition		137	88	24	26	1	1	11	288
8	Diarrhea	70	78	59	62	191	67	92	203	822
9	Pneumonia	359	366	101	39	51	4	9	16	945
10	T.B.	4	5	6	19	673	313	351	362	1733
11	Snake Bite		5	25	113	292	67	44	46	592
12	Rabies			6	17	34	8	4	9	78
13	Birth Asphyxia	1141								1141
14	Neonatal Sepsis	659								659
15	Maternal causes					218				218
16	Murder					287	63	47	31	428
17	Suicide					2529	348	196	170	3243
18	Cancer	4	13	33	86	1543	1033	883	855	4450
19	HIV/AIDS				9	74	6	3	1	93
20	Congenital Heart Disease/Anomalies	123	127	86	205					541
21	Stroke					574	759	1547	4190	7070
22	High BP/Heart Disease					3305	2860	3955	8116	18236
23	Digestive Diseases	99	77	63	169	1639	873	777	1065	4762
24	Genito-urinary Diseases	15	7	5	3	132	71	50	85	368
25	Diabetes	10	3	7	22	596	595	760	1158	3151
26	Sickle Cell Anemia	7	11	32	81	316	29	23	26	525
27	Others	2049	371	274	528	4796	2852	4540	15085	30495
	<b>Total</b>	<b>5687</b>	<b>1524</b>	<b>1319</b>	<b>2202</b>	<b>22395</b>	<b>10996</b>	<b>14107</b>	<b>32972</b>	<b>91202</b>

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

- In 0 to 1 month neonates, Birth Asphyxia 1141, Sepsis 659 and LBW 611 are the leading reported causes of death.
- In 1 to 11 months infants, Pneumonia 366, Malnutrition 137, Congenital Heart Disease 127 are the leading reported causes of death.
- In 1 to 4 years children, Accident 206, Fever/Malaria 145 and Pneumonia 101 are the leading reported causes of death.
- In 5 to 14 year age group, Accidents 465, Jaundice 150, Fever/Malaria 132 Snake-bite 113 are the leading reported causes of death.
- In 15-49 years age group, Accidents 3778, High BP 3305 and Suicides 2529 are the leading reported causes of death.
- In 50-59 years age group, High BP/Heart Diseases 2860, Cancer 1033, Digestive diseases 873, Stroke 759, and Accidents 722 are the leading reported causes of death.
- For deaths in 60-69 years and 70 years and above age groups, High BP/Heart Diseases, Stroke, Cancer, Digestive diseases and Accidents are the leading reported causes.

**Geographical Pattern in Rural Mortality Causes:** Mortality in tribal districts has greater share of infectious diseases (malaria, diarrhoea, pneumonia). Accidents are also a big contributor to mortality in tribal areas compared to non-tribal districts. Non-tribal districts record a big share of NCD deaths, presumably due to higher reporting there. Causes like suicides are common to both types of geographies but South Bastar and Urban areas have higher numbers.

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

S.N.	Reported Causes	<1 month	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	6	3	11	44	373	79	46	54	616
2	Convulsions	10	2	5	1	22	0	1	1	42
3	Fever/ Malaria	7	6	12	28	72	20	18	65	228
4	Neonatal Jaundice	14								14
5	Jaundice		8	3	5	81	19	12	11	139
6	Low Birth Weight	23								23
7	Malnutrition		6	5	1					12
8	Diarrhea	4	5	2	4	14	7	3	6	45
9	Pneumonia	10	19	11	2	15	5	2	1	65
10	Congenital Heart Disease/Anomalies	5	13	11	17					46
11	Stroke					33	59	82	149	323
12	High BP/Heart Diseases					488	421	504	615	2028
13	Digestive Diseases	2	5	5	5	160	59	42	33	311
14	Genito-urinary Diseases	1	0	1	0	7	2	3	2	16
15	Diabetes	1	0	0	2	62	51	107	103	326
16	HIV/AIDS	0	0	0	0	31	5	2	2	40
17	T.B.	0	0	3	0	146	46	34	33	262
18	Snake Bite		1	2	2	3	2	2	0	12
19	Rabies			1	1	2	0	0	1	5
20	Birth Asphyxia	194								194
21	Neonatal Sepsis	77								77
22	Maternal causes					14				14
23	Murder					28	1	3	1	33
24	Suicide					363	23	20	10	416
25	Sickle Cell Anemia			7	8	32	1	3	0	51
26	Cancer	0	0	3	6	176	122	95	93	495
27	Others	305	54	15	51	460	274	436	1447	3041
<b>Total</b>		<b>659</b>	<b>122</b>	<b>97</b>	<b>177</b>	<b>2582</b>	<b>1196</b>	<b>1415</b>	<b>2627</b>	<b>8874</b>

In urban slum areas, High BP/ heart Disease, Accidents 616, Suicide 416, Cancer 495 and Diabetes 326 are leading reported cause of deaths. Amongst infectious diseases, TB 262 is the leading reported cause of death in urban slums.

## Trend in Causes of Mortality:

### Year wise comparison of reported cause of rural deaths before Age of 60

S.N.	Reported Causes	No.of Deaths Reported in 2016	%	No.of Deaths Reported in 2017	%	No.of Deaths Reported in 2018	%
1	Congenital Heart Disease/Anomalies	270	0.6%	155	0.4%	541	1.3%
2	Stroke	3727	7.7%	403	0.9%	1333	3.2%
3	High BP/Heart Diseases			6876	15.6%	6165	14.6%
4	Accident	5139	10.7%	5020	11.4%	5279	12.5%
5	Digestive Diseases	2166	4.5%	2578	5.9%	2920	6.9%
6	Suicide	3090	6.4%	2739	6.2%	2877	6.8%
7	Cancer	2718	5.6%	2591	5.9%	2712	6.4%
8	Birth Asphyxia and Neonatal sepsis	3747	7.8%	1359	3.1%	1800	4.3%
9	Diabetes	1339	2.8%	1188	2.7%	1233	2.9%
10	Jaundice	1785	3.7%	1412	3.2%	1207	2.9%
11	T.B.	1478	3.1%	1215	2.8%	1020	2.4%
12	Fever/ Malaria	2082	4.3%	1312	3.0%	951	2.3%
13	Pneumonia	1833	3.8%	969	2.2%	920	2.2%
14	Convulsions	886	1.8%	710	1.6%	741	1.8%
15	Low Birth Weight	1006	2.1%	711	1.6%	611	1.4%
16	Diarrhea	1000	2.1%	634	1.4%	527	1.2%
17	Snake Bite	646	1.3%	529	1.2%	502	1.2%
18	Sickle Cell Anemia	415	0.9%	455	1.0%	476	1.1%
19	Murder	374	0.8%	373	0.8%	350	0.8%
20	Malnutrition	653	1.4%	306	0.7%	276	0.7%
21	Genito-urinary Diseases	44	0.1%	72	0.2%	233	0.6%
22	Maternal causes	384	0.8%	272	0.6%	218	0.5%
23	Neonatal Jaundice	263	0.5%	188	0.4%	207	0.5%
24	HIV/AIDS	82	0.2%	101	0.2%	89	0.2%
25	Rabies	87	0.2%	57	0.1%	65	0.2%
26	Others	17006	35.3%	12288	28.0%	10870	25.7%
<b>Total</b>		<b>48223</b>	<b>100%</b>	<b>43955</b>	<b>100%</b>	<b>42249</b>	<b>100%</b>

## The Trend of Fever, Pneumonia and Diarrhea related Deaths

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 in year 2013). It shows decline in mortality related to this cause and the decline after 2015 onwards has been very impressive. It is significant to note that Mitnin CHWs were provided Rapid diagnostic test kits and ACT for diagnosing and treating malaria at community level from 2015 onwards. The skills as well supplies with Mitnin to detect and treat malaria were assessed to have crossed 90% mark in tribal areas by 2016. This seems to explain the dramatic change from 2015 onwards. Additionally, in 2018, health department distributed around 50 lakh LLIN (mosquito bednets) achieving a high coverage in tribal areas/areas with high API.

Year	Deaths 0-59 years	1-59 yrs (All Blocks)	1-59 yrs (88 Tribal blocks with API>5)
	Total Deaths	Fever-Malaria related deaths	Fever-Malaria related deaths
2013	29520	1717	1306
2014	37376	2226	1550
2015	42449	2061	1502
2016	52351	1685	1068
2017	44512	1032	507
2018	44123	779	433

The trend of Pneumonia caused child deaths shows a big decline in 2017 in comparison to 2016. It is important to note that Mitnins were provided Amoxicillin for treating childhood ARIs for the first time in January 2017. The trend of Diarrhea related child deaths shows a 48% decline between 2016 and 2018.

Year	0-5 years Total deaths recorded	0-5 years Pneumonia related deaths	%	0-5 years Diarrhea related deaths	%
2016	10530	1675	15.9%	400	3.8%
2017	8972	853	9.5%	247	2.8%
2018	8530	826	9.7%	207	2.4%

## **Discussion and Recommendations:**

The state has made significant strides in reducing preventable mortality due to causes of malaria/fever, diarrhoea and to some extent childhood pneumonia. This improvement in mortality coincides with measures taken by the state in improving community-based management of above illnesses. There is a minor improvement in reducing snake-bite related mortality. In neonatal deaths, birth-asphyxia continues to be an unresolved challenge despite expansion of services for maternal and newborn care. TB related mortality has not shown much improvement. Overall, the state faces formidable challenges in form of large proportion of preventable and under-60 years age deaths due to accidents, suicides and chronic infectious and non-communicable diseases.

This report shows that the state needs to maintain its rate of progress on communicable diseases while strengthening weak areas like – a) better labour practices to prevent birth-asphyxia and improvements in facility based management of birth-asphyxia b) measures to prevent accidents and to manage trauma c) measures to prevent suicides and to manage poisoning d) timely detection and primary clinical management for chronic non-communicable diseases like sickle-cell diseases, epilepsy, COPD, and conditions like hypertension and diabetes, thereby also achieving secondary prevention of more complicated conditions like stroke. Primary prevention of above Chronic Diseases through reducing risk factors like chewed/applied tobacco use and air pollution etc. e) stepping up the efforts to prevent, detect and treat TB

VHSNC and MAS based community-system of recording deaths and causes and its compilation and analysis continue to be useful in providing a picture of causes of mortality in rural and urban slum population of the state. This in turn can be used further for public health planning in Chhattisgarh.

## 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:

<b>Death Register of VHSNC</b>										
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 Action on Health (CAH), 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). 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 Statistical Dept Govt of CG) and the Crude Death Rate for rural area (as per Statistical Dept Govt of CG) and for urban-slum (as per SRS 2015). As per the information compiled for 2018 (January to December), 91202 deaths have been documented.

In 2018, 53% 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 Statistical Dept Govt of CG. This report covers only 32% of the expected neonatal deaths, 21% of post-neonatal infant deaths and 15% of child deaths of the remaining age group up to 4 years for rural areas. Similarly it covers 29% of the likely total number of maternal deaths in rural areas. Since the expected death number is based on Statistical Dept Govt of CG 2019-20, 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	%	No. of reported deaths in 2018	%
Overall Deaths	171880	39168	22.8 %	58556	34.1 %	74279	43%	91147	53%	107194	62%	90927	52.9 %	91202	53.1 %
Neonatal Deaths	17729	3391	19.1 %	4361	24.6 %	5194	29%	5895	33%	6300	36%	5378	30.3 %	5687	32.1 %
1-11 month age group Deaths	7300	1133	15.5 %	1240	17.0 %	1909	26%	2142	29%	2626	36%	1676	23.0 %	1524	20.9 %
1-4 year age group Deaths	8865	1159	13.1 %	1295	14.6 %	1701	19%	1885	21%	2061	23%	1918	21.6 %	1319	14.9 %
Maternal Deaths	902	230	25.5 %	244	27.1 %	326	36%	402	45%	384	43%	317	35.1 %	263	29.2 %
Other groups	137084	33255	24.3 %	51416	37.5 %	65149	48%	80823	59%	95823	70%	81638	59.6 %	82409	60.1 %

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, Diarrhoea, TB) in rural Chhattisgarh

### 2.1 Fever or suspected-Malaria related Deaths:

VHSNCs have reported 1527 deaths during 2018 for which the cause is recorded as fever or malaria.

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt of CG)	No.of Fever/Malaria death reported by VHSNC in 2017	No.of Fever/Malaria death reported by VHSNC in 2018
1	SUKMA	217761	43	51
2	BIJAPUR	240724	128	62
3	DANTEWADA	263120	42	29
4	BASTAR	823806	112	103
5	NARAYANPUR	133878	10	14
6	KORIA	497479	38	26
7	SURGUJA	861142	89	93
8	BALODABAZAR	1166466	191	133
9	JASHPUR	864871	87	99
10	KONDAGAON	570251	17	31
11	RAIGARH	1427206	181	120
12	BILASPUR	1834914	145	140
13	RAIPUR	1728731	77	77
14	GARIYABAND	431622	59	39
15	BALRAMPUR	770812	70	53
16	BEMETARA	659975	67	41
17	KORBA	877295	20	26
18	KAWARDHA	978464	44	41
19	JANJGIR	1650727	113	80
20	DHAMTARI	717872	68	43
21	MAHASAMUND	1059122	67	49
22	KANKER	752228	52	23
23	SURAJPUR	817943	25	39
24	MUNGELI	685276	55	29
25	BALOD	548701	37	22
26	RAJNANDGAON	1464424	67	42
27	DURG	1182272	23	22
<b>State</b>		<b>23227082</b>	<b>1927</b>	<b>1527</b>

The deaths due to Fever or suspected-Malaria is high in 15-49 years age group.

S.N.	Age Category	No.of Deaths reported	Percentage
1	<1 month	79	5%
2	1-11 month	93	6%
3	1-4 year	145	9%
4	5-14 year	132	9%
5	15-49year	365	24%
6	50-59year	137	9%
7	60-69year	140	9%
8	More than 70year	436	29%
<b>Total</b>		<b>1527</b>	<b>100%</b>

51% of the reported deaths due to Fever or suspected-Malaria are of female persons.

Gender	No.of Death Reported	Percentage
Male	749	49%
Female	778	51%
<b>Total</b>	<b>1527</b>	<b>100%</b>

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

Month	No.of Death Reported	Percentage
January	105	7%
February	82	5%
March	109	7%
April	73	5%
May	124	8%
June	117	8%
July	116	8%
August	173	11%
September	197	13%
October	196	13%
November	134	9%
December	101	7%
<b>Total</b>	<b>1527</b>	<b>100%</b>

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	Deaths 0-59 years	1-59 yrs (All Blocks)	1-59 yrs (88 Tribal blocks with API>5)
	Total Deaths	Fever-Malaria related deaths	Fever-Malaria related deaths
2013	29520	1717	1306
2014	37376	2226	1550
2015	42449	2061	1502
2016	52351	1685	1068
2017	44512	1032	507
2018	44123	779	433

It shows decline in death reported to this cause and the decline from 2015 to 2018 is especially dramatic.

## 2.2 Deaths due to Pneumonia:

VHSNCs have reported 945 deaths during 2018 for which the cause is recorded as pneumonia.

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt of CG)	No.of Pneumonia deaths reported by VHSNC in 2017	No.of Pneumonia deaths reported by VHSNC in 2018
1	BIJAPUR	240724	44	59
2	SUKMA	217761	23	33
3	DANTEWADA	263120	34	16
4	KONDAGAON	570251	43	37
5	BASTAR	823806	45	61
6	BILASPUR	1834914	77	107
7	BEMETARA	659975	52	47
8	NARAYANPUR	133878	2	6
9	KAWARDHA	978464	58	49
10	GARIYABAND	431622	55	24
11	KORBA	877295	18	25
12	KANKER	752228	39	26
13	RAIPUR	1728731	57	45
14	BALOD	548701	30	35
15	RAJNANDGAON	1464424	69	68
16	DHAMTARI	717872	25	36
17	MAHASAMUND	1059122	33	40
18	MUNGELI	685276	43	24
19	BALODABAZAR	1166466	58	34
20	DURG	1182272	31	26
21	BALRAMPUR	770812	20	18
22	SURGUJA	861142	20	19
23	RAIGARH	1427206	16	30
24	SURAJPUR	817943	41	23
25	JASHPUR	864871	16	19
26	JANJGIR	1650727	38	36
27	KORIA	497479	5	2
<b>State</b>		<b>23227082</b>	<b>992</b>	<b>945</b>

88% deaths due to pneumonia are in under-5 years age group.

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	359	38%
2	1-11 month	366	39%
3	1-4 year	101	11%
4	5-14 year	39	4%
5	15-49year	51	5%
6	50-59year	4	0%
7	60-69year	9	1%
8	More than 70year	16	2%
<b>Total</b>		<b>945</b>	<b>100%</b>

57% of the deaths due to pneumonia are of male persons.

Gender	No.of Death Reported	Percentage
Male	543	57%
Female	402	43%
<b>Total</b>	<b>945</b>	<b>100%</b>

31% of deaths due to pneumonia happened in colder season – October to January.

Month	No.of Death Reported	Percentage
January	85	9%
February	61	6%
March	85	9%
April	49	5%
May	52	6%
June	47	5%
July	64	7%
August	99	10%
September	110	12%
October	113	12%
November	75	8%
December	105	11%
<b>Total</b>	<b>945</b>	<b>100%</b>

### 2.3 Deaths due to Diarrhea:

VHSNCs have reported 822 deaths during 2018 for which the cause is recorded as Diarrhea.

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt of CG)	No.of Diarrhea deaths reported by VHSNC in 2017	No.of Diarrhea deaths reported by VHSNC in 2018
1	SUKMA	217761	27	34
2	NARAYANPUR	133878	12	13
3	KONDAGAON	570251	32	28
4	BASTAR	823806	61	64
5	BIJAPUR	240724	26	22
6	KORIA	497479	17	14
7	BALRAMPUR	770812	54	49
8	SURGUJA	861142	55	51
9	JASHPUR	864871	43	54
10	RAIGARH	1427206	64	71
11	KANKER	752228	37	24
12	BALODABAZAR	1166466	37	47
13	KAWARDHA	978464	50	31
14	MUNGELI	685276	20	26
15	DANTEWADA	263120	17	4
16	MAHASAMUND	1059122	34	35
17	KORBA	877295	13	16
18	SURAJPUR	817943	21	28
19	RAJNANDGAON	1464424	53	46
20	GARIYABAND	431622	38	12
21	JANJGIR	1650727	50	41
22	BILASPUR	1834914	31	39
23	DURG	1182272	14	20
24	DHAMTARI	717872	33	17
25	RAIPUR	1728731	25	15
26	BALOD	548701	14	13
27	BEMETARA	659975	27	8
<b>State</b>		<b>23227082</b>	<b>905</b>	<b>822</b>

23% of these deaths are in 15-49 year age group.

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	70	9%
2	1-11 month	78	9%
3	1-4 year	59	7%
4	5-14 year	62	8%
5	15-49year	191	23%
6	50-59year	67	8%
7	60-69year	92	11%
8	More than 70year	203	25%
<b>Total</b>		<b>822</b>	<b>100%</b>

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

Gender	No.of Death Reported	Percentage
Male	444	54%
Female	378	46%
<b>Total</b>	<b>822</b>	<b>100%</b>

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

Month	No.of Death Reported	Percentage
January	55	7%
February	65	8%
March	69	8%
April	45	5%
May	81	10%
June	76	9%
July	71	9%
August	104	13%
September	77	9%
October	73	9%
November	49	6%
December	57	7%
<b>Total</b>	<b>822</b>	<b>100%</b>

**The trend of Pneumonia and Diarrhea related deaths amongst the 0-5 years age groups is given below**

Year	0-5 yrs Total deaths	0-5 yrs Pneumonia	%	0-5 yrs Diarrhea	%
2016	10530	1675	15.9%	400	3.8%
2017	8972	853	9.5%	247	2.8%
2018	8530	826	9.7%	207	2.4%

## 2.4 Deaths due to TB:

VHSNCs have reported 1733 deaths during 2018 for which the cause is recorded as TB.

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt of CG)	No.of TB death reported by VHSNC in 2017	No.of TB death reported by VHSNC in 2018
1	Dantewada	263120	30	31
2	Sukma	217761	63	49
3	Narayanpur	133878	22	21
4	Bijapur	240724	68	43
5	Bastar	823806	80	100
6	Kanker	752228	102	67
7	Jashpur	864871	94	105
8	Gariyaband	431622	59	53
9	Kondagaon	570251	48	32
10	Raigarh	1427206	149	119
11	Balodabazar	1166466	130	106
12	Korba	877295	62	43
13	Surajpur	817943	80	76
14	Balrampur	770812	48	55
15	Balod	548701	51	63
16	Raipur	1728731	77	71
17	SURGUJA	861142	43	57
18	Mahasamund	1059122	104	83
19	Koria	497479	26	14
20	Bemetara	659975	78	49
21	Dhamtari	717872	102	64
22	Rajnandgaon	1464424	103	108
23	Bilaspur	1834914	75	104
24	Kawardha	978464	71	48
25	Mungeli	685276	30	39
26	Durg	1182272	44	51
27	Janjgir	1650727	96	82
<b>State</b>		<b>23227082</b>	<b>1935</b>	<b>1733</b>

39% of these deaths are in 15-49 year age group.

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	4	0%
2	1-11 month	5	0%
3	1-4 year	6	0%
4	5-14 year	19	1%
5	15-49year	673	39%
6	50-59year	313	18%
7	60-69year	351	20%
8	More than 70year	362	21%
<b>Total</b>		<b>1733</b>	<b>100%</b>

73% of the deaths due to TB are of male persons.

Gender	No.of Death Reported	Percentage
Male	1262	73%
Female	471	27%
<b>Total</b>	<b>1733</b>	<b>100%</b>

There is no seasonal pattern in TB deaths.

Month	No.of Death Reported	Percentage
January	144	8%
February	99	6%
March	159	9%
April	114	7%
May	149	9%
June	147	8%
July	151	9%
August	155	9%
September	164	9%
October	176	10%
November	154	9%
December	121	7%
<b>Total</b>	<b>1733</b>	<b>100%</b>

## Chapter 3: Analysis of Deaths reported as due to High BP/Heart Disease, Stroke, Cancer, Diabetes and Sickle Cell Anemia in Rural Chhattisgarh

### 3.1 Deaths due to High BP, Heart Diseases, Stroke (including congenital heart disease & anomalies):

VHSNCs have reported 25847 deaths during 2018 for which the cause is recorded as High BP, Stroke and Heart Disease (including congenital heart disease & anomalies).

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt of CG)	No.of death due to High BP/Stroke /Heart disease (including CHD/Anomalies) reported by VHSNC in 2017	No.of death due to High BP/Stroke /Heart disease (including CHD/Anomalies) reported by VHSNC in 2018
1	DURG	1182272	1360	1489
2	KAWARDHA	978464	989	1229
3	BALOD	548701	1235	1210
4	JANJGIR	1650727	2527	2480
5	RAJNANDGAON	1464424	1979	2289
6	DHAMTARI	717872	1192	1346
7	BILASPUR	1834914	1325	2206
8	RAIGARH	1427206	1578	1603
9	MUNGELI	685276	683	919
10	BALODABAZAR	1166466	1411	1375
11	BEMETARA	659975	844	914
12	KORBA	877295	603	600
13	RAIPUR	1728731	1134	1082
14	MAHASAMUND	1059122	1085	1276
15	KANKER	752228	673	593
16	JASHPUR	864871	874	933
17	SURAJPUR	817943	688	1019
18	SURGUJA	861142	611	785
19	GARIYABAND	431622	366	469
20	KONDAGAON	570251	233	279
21	BALRAMPUR	770812	489	649
22	BASTAR	823806	503	622
23	KORIA	497479	184	170
24	NARAYANPUR	133878	79	62
25	BIJAPUR	240724	108	121
26	SUKMA	217761	75	86
27	DANTEWADA	263120	68	41
<b>State</b>		<b>23227082</b>	<b>22896</b>	<b>25847</b>

Stroke and BP/heart disease deaths in non-tribal areas are much higher, presumably due to difference in reporting in urban areas.

48% of these deaths are in above 70 year age group. The deaths which are of greater concern are in under-60 year age and they constitute 31% of the deaths due to this composite category of causes.

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	123	0%
2	1-11 month	127	0%
3	1-4 year	86	0%
4	5-14 year	205	1%
5	15-49year	3879	15%
6	50-59year	3619	14%
7	60-69year	5502	21%
8	More than 70year	12306	48%
<b>Total</b>		<b>25847</b>	<b>100%</b>

57% of the deaths are of male persons.

Gender	No.of Death Reported	Percentage
Male	14842	57%
Female	11005	43%
<b>Total</b>	<b>25847</b>	<b>100%</b>

The number of deaths per month is lowest in April 6% and highest in December 11% .

Month	No.of Death Reported	Percentage
January	2580	10%
February	1713	7%
March	1910	7%
April	1571	6%
May	1748	7%
June	1875	7%
July	1937	7%
August	2110	8%
September	2543	10%
October	2490	10%
November	2560	10%
December	2810	11%
<b>Total</b>	<b>25847</b>	<b>100%</b>

### 3.2 Deaths due to Cancer:

VHSNCs have reported 4450 deaths during 2018 for which the cause is recorded as Cancer.

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt of CG)	No.of death due to Cancer reported by VHSNC in 2017	No.of death due to Cancer reported by VHSNC in 2018
1	BEMETARA	659975	227	200
2	MUNGELI	685276	173	188
3	RAIPUR	1728731	262	239
4	BALOD	548701	188	206
5	GARIYABAND	431622	72	116
6	BILASPUR	1834914	241	407
7	MAHASAMUND	1059122	222	265
8	DURG	1182272	214	221
9	BALODABAZAR	1166466	252	246
10	SURAJPUR	817943	159	206
11	JANJGIR	1650727	405	366
12	SURGUJA	861142	134	161
13	DHMTARI	717872	198	200
14	RAIGARH	1427206	301	247
15	KAWARDHA	978464	195	163
16	RAJNANDGAON	1464424	344	311
17	KANKER	752228	116	99
18	JASHPUR	864871	157	150
19	NARAYANPUR	133878	16	17
20	KORBA	877295	89	89
21	KORIA	497479	58	34
22	BASTAR	823806	90	108
23	BALRAMPUR	770812	92	107
24	KONDAGAON	570251	37	39
25	BIJAPUR	240724	33	33
26	DANTEWADA	263120	22	12
27	SUKMA	217761	16	20
<b>State</b>		<b>23227082</b>	<b>4313</b>	<b>4450</b>

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

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

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	4	0.1%
2	1-11 month	13	0.3%
3	1-4 year	33	0.7%
4	5-14 year	86	1.9%
5	15-49 year	1543	35%
6	50-59 year	1033	23%
7	60-69 year	883	20%
8	More than 70 year	855	19%
<b>Total</b>		<b>4450</b>	<b>100%</b>

52% of the deaths are of female persons.

Gender	No.of Death Reported	Percentage
Male	2153	48%
Female	2297	52%
<b>Total</b>	<b>4450</b>	<b>100%</b>

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

Month	No.of Death Reported	Percentage
January	340	8%
February	282	6%
March	401	9%
April	299	7%
May	338	8%
June	403	9%
July	354	8%
August	404	9%
September	439	10%
October	391	9%
November	406	9%
December	393	9%
<b>Total</b>	<b>4450</b>	<b>100%</b>

### 3.3 Deaths due to Diabetes:

VHSNCs have reported 3151 deaths during 2018 for which the cause is recorded as Diabetes.

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt of CG)	No.of death due to Diabetes reported by VHSNC in 2017	No.of death due to Diabetes reported by VHSNC in 2018
1	KANKER	752228	177	147
2	DHAMTARI	717872	201	205
3	MUNGELI	685276	159	150
4	KORIA	497479	38	42
5	BALOD	548701	149	151
6	MAHASAMUND	1059122	180	196
7	BEMETARA	659975	124	122
8	SURAJPUR	817943	88	150
9	JANJGIR	1650727	294	269
10	RAIGARH	1427206	153	183
11	BALODABAZAR	1166466	187	166
12	RAIPUR	1728731	153	137
13	KORBA	877295	64	74
14	NARAYANPUR	133878	29	14
15	BILASPUR	1834914	162	237
16	KONDAGAON	570251	30	42
17	DURG	1182272	159	131
18	BIJAPUR	240724	22	34
19	RAJNANDGAON	1464424	199	211
20	JASHPUR	864871	92	110
21	GARIYABAND	431622	53	61
22	KAWARDHA	978464	83	98
23	SURGUJA	861142	98	85
24	BALRAMPUR	770812	50	64
25	BASTAR	823806	63	60
26	DANTEWADA	263120	15	6
27	SUKMA	217761	10	6
<b>State</b>		<b>23227082</b>	<b>3032</b>	<b>3151</b>

61% of these deaths are in 60 years and above groups.

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	10	0.3%
2	1-11 month	3	0.1%
3	1-4 year	7	0.2%
4	5-14 year	22	0.7%
5	15-49year	596	19%
6	50-59year	595	19%
7	60-69year	760	24%
8	More than 70year	1158	37%
<b>Total</b>		<b>3151</b>	<b>100%</b>

61% of the reported deaths are of male persons.

Gender	No.of Death Reported	Percentage
Male	1920	61%
Female	1231	39%
<b>Total</b>	<b>3151</b>	<b>100%</b>

The number of deaths per month is highest in September and lowest in February and April- not a clear pattern.

Month	No.of Death Reported	Percentage
January	280	9%
February	204	6%
March	257	8%
April	177	6%
May	210	7%
June	236	7%
July	239	8%
August	285	9%
September	338	11%
October	318	10%
November	285	9%
December	322	10%
<b>Total</b>	<b>3151</b>	<b>100%</b>

### **3.4 Deaths due to Digestive Disease:**

VHSNCs have reported 4762 deaths during 2018 for which the cause is recorded as Digestive disease.

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt of CG)	No.of death due to Digestive disease reported by VHSNC in 2017	No.of death due to Digestive disease reported by VHSNC in 2018
1	KORIA	497479	104	100
2	DANTEWADA	263120	88	53
3	KANKER	752228	233	194
4	SURAJPUR	817943	207	333
5	BALRAMPUR	770812	207	244
6	BASTAR	823806	141	236
7	NARAYANPUR	133878	46	30
8	BIJAPUR	240724	96	77
9	SURGUJA	861142	215	227
10	KONDAGAON	570251	87	87
11	JASHPUR	864871	208	240
12	MAHASAMUND	1059122	150	281
13	KORBA	877295	122	120
14	RAJNANDGAON	1464424	260	367
15	RAIGARH	1427206	269	265
16	GARIYABAND	431622	120	99
17	SUKMA	217761	33	41
18	DHAMTARI	717872	180	182
19	BEMETARA	659975	133	136
20	JANJGIR	1650727	260	310
21	BILASPUR	1834914	223	300
22	MUNGELI	685276	88	125
23	BALODABAZAR	1166466	192	182
24	RAIPUR	1728731	170	146
25	DURG	1182272	141	151
26	BALOD	548701	127	123
27	KAWARDHA	978464	110	113
<b>State</b>		<b>23227082</b>	<b>4210</b>	<b>4762</b>

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

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	99	2%
2	1-11 month	77	2%
3	1-4 year	63	1%
4	5-14 year	169	4%
5	15-49year	1639	34%
6	50-59year	873	18%
7	60-69year	777	16%
8	More than 70year	1065	22%
<b>Total</b>		<b>4762</b>	<b>100%</b>

62% of the deaths are of male persons.

Gender	No.of Death Reported	Percentage
Male	2963	62%
Female	1799	38%
<b>Total</b>	<b>4762</b>	<b>100%</b>

The numbers of deaths are relatively higher during August to October.

Month	No.of Death Reported	Percentage
January	389	8%
February	292	6%
March	363	8%
April	307	6%
May	279	6%
June	426	9%
July	412	9%
August	482	10%
September	472	10%
October	470	10%
November	419	9%
December	451	9%
<b>Total</b>	<b>4762</b>	<b>100%</b>

### **3.5 Deaths due to Sickle Cell Anemia:**

VHSNCs have reported 525 deaths during 2018 for which the cause is recorded as Sickle Cell Anemia.

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt of CG)	No.of death due to Sickle Cell Anemia reported by VHSNC in 2017	No.of death due to Sickle Cell Anemia reported by VHSNC in 2018
1	GARIYABAND	431622	19	29
2	SURGUJA	861142	18	39
3	RAIGARH	1427206	50	55
4	MAHASAMUND	1059122	59	49
5	DANTEWADA	263120	3	5
6	KONDAGAON	570251	3	12
7	RAIPUR	1728731	40	34
8	KANKER	752228	17	17
9	KORBA	877295	12	16
10	NARAYANPUR	133878	3	3
11	BALODABAZAR	1166466	25	30
12	BASTAR	823806	15	18
13	BALOD	548701	14	20
14	DHAMTARI	717872	23	19
15	MUNGELI	685276	11	14
16	SURAJPUR	817943	23	18
17	DURG	1182272	28	18
18	RAJNANDGAON	1464424	22	30
19	JANJGIR	1650727	41	29
20	KAWARDHA	978464	13	14
21	JASHPUR	864871	15	14
22	BEMETARA	659975	21	12
23	KORIA	497479	3	3
24	BILASPUR	1834914	13	19
25	BIJAPUR	240724	5	2
26	BALRAMPUR	770812	10	5
27	SUKMA	217761	0	1
<b>State</b>		<b>23227082</b>	<b>506</b>	<b>525</b>

60% of these deaths are in 15-49 year age group and 24% deaths are at age below 15 years. Many of the early deaths due to sickle-cell caused infections and conditions are likely to be under-reported because of lack of detection facilities at local level.

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	7	1.3%
2	1-11 month	11	2.1%
3	1-4 year	32	6%
4	5-14 year	81	15%
5	15-49year	316	60%
6	50-59year	29	5.5%
7	60-69year	23	4.4%
8	More than 70year	26	5.0%
<b>Total</b>		<b>525</b>	<b>100%</b>

54% of the deaths are of female persons.

Gender	No. of Death Reported	Percentage
Male	244	46%
Female	281	54%
<b>Total</b>	<b>525</b>	<b>100%</b>

The numbers of deaths are relatively higher during September and October.

Month	No. of Death Reported	Percentage
January	37	7%
February	36	7%
March	23	4%
April	37	7%
May	47	9%
June	35	7%
July	56	11%
August	51	10%
September	57	11%
October	65	12%
November	40	8%
December	41	8%
<b>Total</b>	<b>525</b>	<b>100%</b>

## 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 6701 deaths during 2018 for which the cause is recorded as accident.

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt of CG)	No.of Accident death reported by VHSNC in 2017	No.of Accident death reported by VHSNC in 2018
1	Balrampur	770812	233	344
2	SURGUJA	861142	278	335
3	Bijapur	240724	112	111
4	Surajpur	817943	292	407
5	Jashpur	864871	358	369
6	Narayanpur	133878	31	39
7	Koria	497479	107	74
8	Korba	877295	184	186
9	Bastar	823806	208	243
10	Bemetara	659975	176	237
11	Dantewada	263120	96	38
12	Kanker	752228	192	168
13	Raipur	1728731	373	291
14	Janjgir	1650727	505	521
15	Bilaspur	1834914	354	514
16	Mahasamund	1059122	321	337
17	Balodabazar	1166466	448	332
18	Mungeli	685276	170	211
19	Kondagaon	570251	130	86
20	Sukma	217761	78	57
21	Kawardha	978464	200	232
22	Rajnandgaon	1464424	352	436
23	Gariyaband	431622	101	126
24	Raigarh	1427206	312	320
25	Balod	548701	223	214
26	Dhamtari	717872	238	240
27	Durg	1182272	234	233
<b>State</b>		<b>23227082</b>	<b>6306</b>	<b>6701</b>

Tribal districts have a big number of accidents in their mortality. Most districts have growing trend of accidents. One reason for that is greater proportion of drowning (30% Sukma, 17% Jashpur) and fall related deaths (Bijapur, Nayanpur, Surajpur, Sarguja) in some tribal districts.

**Classification of Accidents deaths:**

S.N.	Type of Accidents Death	No.of Deaths	%
1	Road Accidents	3755	56.0%
2	Falling from roof, trees etc)	927	13.8%
3	Drowning	650	9.7%
4	Burning	606	9.0%
5	Electrocution	392	5.8%
6	Other injury	135	2.0%
7	Lightening	89	1.3%
8	Animal bites	65	1.0%
9	Buried	64	1.0%
10	Suffocated	15	0.2%
11	Flood	3	0.0%
<b>Total</b>		<b>6701</b>	<b>100.0%</b>

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

S.N.	District	% Death due to Road Accident	% Death due to Falling	% Death due to Drowning	% Death due to Burning	% of Death due to Electrocutation
1	Balod	72%	5%	7%	8%	5%
2	Balodabazar	61%	10%	10%	7%	7%
3	Balrampur	46%	18%	15%	5%	5%
4	Bastar	54%	18%	13%	9%	3%
5	Bemetara	65%	7%	4%	8%	8%
6	Bijapur	49%	22%	11%	12%	0%
7	Bilaspur	53%	10%	9%	16%	8%
8	Dantewada	58%	18%	8%	8%	8%
9	Dhamtari	58%	12%	9%	9%	5%
10	Durg	57%	15%	6%	7%	9%
11	Gariyaband	58%	18%	11%	7%	3%
12	Janjgir	50%	12%	9%	13%	9%
13	Jashpur	53%	13%	17%	7%	5%
14	Kanker	57%	25%	6%	6%	2%
15	Kawardha	59%	9%	9%	9%	7%
16	Kondagaon	63%	15%	7%	12%	3%
17	Korba	59%	3%	11%	10%	6%
18	Koria	55%	9%	8%	16%	4%
19	Mahasamund	62%	11%	7%	9%	5%
20	Mungeli	55%	14%	4%	10%	10%
21	Narayanpur	46%	23%	10%	8%	8%
22	Raigarh	54%	17%	10%	8%	6%
23	Raipur	67%	9%	5%	7%	5%
24	Rajnandgaon	67%	11%	8%	7%	3%
25	Sukma	39%	9%	30%	14%	4%
26	Surajpur	52%	21%	12%	7%	5%
27	Surguja	38%	28%	12%	8%	6%
<b>TOTAL</b>		<b>56%</b>	<b>14%</b>	<b>10%</b>	<b>9%</b>	<b>6%</b>

**56% of these deaths are in 15-49 year age group.**

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	46	1%
2	1-11 month	62	1%
3	1-4 year	206	3%
4	5-14 year	465	7%
5	15-49year	3778	56%
6	50-59year	722	11%
7	60-69year	528	8%
8	More than 70year	894	13%
<b>Total</b>		<b>6701</b>	<b>100%</b>

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

Gender	No.of Death Reported	Percentage
Male	4693	70%
Female	2008	30%
<b>Total</b>	<b>6701</b>	<b>100%</b>

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

Month	No.of Death Reported	Percentage
January	576	9%
February	453	7%
March	541	8%
April	546	8%
May	545	8%
June	608	9%
July	555	8%
August	596	9%
September	567	8%
October	594	9%
November	558	8%
December	562	8%
<b>Total</b>	<b>6701</b>	<b>100%</b>

## 4.2 Deaths due to suicide:

VHSNCs have reported 3243 deaths during 2018 for which the cause is recorded as suicide.

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt of CG)	No.of Suicide deaths reported by VHSNC in 2017	No.of Suicide deaths reported by VHSNC in 2018
1	Dantewada	263120	63	32
2	Narayanpur	133878	22	25
3	Gariyaband	431622	75	106
4	Kondagaon	570251	83	65
5	Dhamtari	717872	186	206
6	Korba	877295	76	107
7	Raipur	1728731	217	184
8	Sukma	217761	48	39
9	Mahasamund	1059122	183	215
10	Bijapur	240724	65	46
11	Balodabazar	1166466	172	196
12	Balod	548701	155	143
13	Balrampur	770812	69	120
14	Jashpur	864871	99	135
15	Surguja	861142	98	121
16	Durg	1182272	180	152
17	Surajpur	817943	126	143
18	Kanker	752228	127	81
19	Janjgir	1650727	210	233
20	Bemetara	659975	79	97
21	Bastar	823806	79	85
22	Rajnandgaon	1464424	193	197
23	Bilaspur	1834914	145	202
24	Koria	497479	43	24
25	Raigarh	1427206	165	140
26	Kawardha	978464	86	81
27	Mungeli	685276	61	68
<b>State</b>		<b>23227082</b>	<b>3105</b>	<b>3243</b>

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.

S.N.	Age Category	No.of Death reported	Percentage
1	15 to 25 years	1174	36%
2	26 to 35 years	680	21%
3	36 to 49 years	675	21%
4	50-59year	348	11%
5	60-69year	196	6%
6	More than 70year	170	5%
<b>Total</b>		<b>3243</b>	<b>100%</b>

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	689	59%	485	41%	1174
2	26 to 35 years	483	71%	197	29%	680
3	36 to 49 years	529	78%	146	22%	675
4	50 to 59 years	266	76%	82	24%	348
5	60 to 69 years	133	68%	63	32%	196
6	More than 70 years	124	73%	46	27%	170
<b>Total</b>		<b>2224</b>	<b>69%</b>	<b>1019</b>	<b>31%</b>	<b>3243</b>

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

Month	No.of Death Reported	Percentage
January	287	9%
February	230	7%
March	282	9%
April	248	8%
May	266	8%
June	264	8%
July	262	8%
August	284	9%
September	301	9%
October	312	10%
November	264	8%
December	243	7%
<b>Total</b>	<b>3243</b>	<b>100%</b>

### 4.3 Deaths due to snake bite:

VHSNCs have reported 592 deaths during 2018 for which the cause is recorded as snake bite.

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt. of CG)	No.of Deaths reported by VHSNC in 2017	No.of Deaths reported by VHSNC in 2018
1	Bijapur	240724	22	31
2	Balrampur	770812	43	64
3	Dantewada	263120	22	9
4	Sukma	217761	18	14
5	Raigarh	1427206	35	46
6	Korba	877295	20	19
7	Kawardha	978464	28	30
8	Koria	497479	17	7
9	Rajnandgaon	1464424	37	50
10	Jashpur	864871	18	26
11	Janjgir	1650727	61	51
12	Bemetara	659975	14	20
13	Bastar	823806	22	19
14	Surajpur	817943	14	25
15	Bilaspur	1834914	33	42
16	Mungeli	685276	25	17
17	Raipur	1728731	16	20
18	Kondagaon	570251	19	6
19	Mahasamund	1059122	26	20
20	Balodabazar	1166466	20	17
21	Kanker	752228	33	8
22	Gariyaband	431622	13	7
23	Durg	1182272	11	14
24	Surguja	861142	21	11
25	Dhamtari	717872	10	11
26	Narayanpur	133878	6	1
27	Balod	548701	7	7
<b>State</b>		<b>23227082</b>	<b>611</b>	<b>592</b>

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	<1 month	0	0%
2	1-11 month	5	1%
3	1-4 year	25	4%
4	5-14 year	113	19%
5	15-49year	292	49%
6	50-59year	67	11%
7	60-69year	44	7%
8	More than 70year	46	8%
<b>Total</b>		<b>592</b>	<b>100%</b>

53% of the deaths due to snake bite are of male persons.

Gender	No.of Death Reported	Percentage
Male	316	53%
Female	276	47%
<b>Total</b>	<b>592</b>	<b>100%</b>

The number of deaths per month is slightly higher during June to September. It drops in October and is low otherwise till May.

Month	No. of Death Reported	Percentage
January	7	1%
February	4	1%
March	16	3%
April	30	5%
May	45	8%
June	97	16%
July	103	17%
August	100	17%
September	94	16%
October	58	10%
November	24	4%
December	14	2%
<b>Total</b>	<b>592</b>	<b>100%</b>

#### 4.4 Deaths due to Rabies:

VHSNCs have reported 78 deaths during 2018 for which the cause is recorded as Rabies

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt of CG)	No.of Deaths reported by VHSNC in 2017	No.of Deaths reported by VHSNC in 2018
1	Narayanpur	133878	0	1
2	Surguja	861142	4	7
3	Dantewada	263120	0	1
4	Jashpur	864871	10	6
5	Kondagaon	570251	3	2
6	Mungeli	685276	1	4
7	Kanker	752228	1	3
8	Balodabazar	1166466	3	6
9	Sukma	217761	0	1
10	Raipur	1728731	2	4
11	Surajpur	817943	2	4
12	Gariyaband	431622	0	2
13	Dhamtari	717872	1	4
14	Durg	1182272	4	4
15	Raigarh	1427206	4	5
16	Bemetara	659975	2	3
17	Bijapur	240724	2	1
18	Rajnandgaon	1464424	5	6
19	Bilaspur	1834914	7	5
20	Kawardha	978464	3	2
21	Janjgir	1650727	4	4
22	Bastar	823806	6	1
23	Balrampur	770812	1	1
24	Mahasamund	1059122	4	1
25	Balod	548701	1	0
26	Korba	877295	3	0
27	Koria	497479	3	0
<b>State</b>		<b>23227082</b>	<b>76</b>	<b>78</b>

44% of these deaths are in 15-49 year age group.

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	0	0%
2	1-11 month	0	0%
3	1-4 year	6	8%
4	5-14 year	17	22%
5	15-49year	34	44%
6	50-59year	8	10%
7	60-69year	4	5%
8	More than 70year	9	12%
<b>Total</b>		<b>78</b>	<b>100%</b>

60% of the deaths due to Rabies are of male persons.

Gender	No.of Death Reported	Percentage
Male	47	60%
Female	31	40%
<b>Total</b>	<b>78</b>	<b>100%</b>

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

Month	No.of Death Reported	Percentage
January	1	1%
February	5	6%
March	9	12%
April	7	9%
May	13	17%
June	10	13%
July	9	12%
August	6	8%
September	11	14%
October	3	4%
November	2	3%
December	2	3%
<b>Total</b>	<b>78</b>	<b>100%</b>

**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 (<1 month) in 2018

The report covers 5687 of the total 17,729 estimated neonatal deaths in the rural areas of the state. Thus the overall reporting percentage for neonatal deaths is 32%. The reporting percentage is higher from districts like Bijapur, Sukma, Dantewada and is low from districts like Janjgir, Narayanpur, Kanker.

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt of CG)	Expected no. of Neonatal deaths	No. of Neonatal Deaths Reported in 2017	No. of Neonatal Deaths Reported in 2018	Reporting % of Expected
1	Bijapur	240724	168	77	124	74%
2	Sukma	217761	152	76	95	63%
3	Dantewada	263120	183	93	55	30%
4	Bastar	823806	437	152	286	65%
5	Gariyaband	431622	388	170	178	46%
6	Kondagaon	570251	303	93	103	34%
7	Raipur	1728731	1554	313	302	19%
8	Balrampur	770812	551	185	223	40%
9	Bemetara	659975	363	237	226	62%
10	Mahasamund	1059122	886	348	330	37%
11	Rajnandgaon	1464424	1288	460	475	37%
12	Mungeli	685276	429	227	204	48%
13	Koria	497479	383	92	57	15%
14	Surajpur	817943	585	178	260	44%
15	Surguja	861142	616	156	207	34%
16	Bilaspur	1834914	1147	307	441	38%
17	Kawardha	978464	1140	194	214	19%
18	Durg	1182272	650	228	246	38%
19	Balodabazar	1166466	1048	338	253	24%
20	Korba	877295	813	136	114	14%
21	Raigarh	1427206	1093	312	270	25%
22	Dhamtari	717872	530	192	211	40%
23	Balod	548701	302	181	180	60%
24	Jashpur	864871	659	152	182	28%
25	Janjgir	1650727	1086	352	338	31%
26	Narayanpur	133878	70	14	19	27%
27	Kanker	752228	395	115	94	24%
<b>State</b>		<b>23227082</b>	<b>17729</b>	<b>5378</b>	<b>5687</b>	<b>32%</b>

The neonatal deaths recorded monthly are slightly higher during September to December.

<b>Month</b>	<b>No. of Deaths Reported 2018</b>	<b>Percentage</b>
January	501	9%
February	336	6%
March	372	7%
April	335	6%
May	383	7%
June	422	7%
July	457	8%
August	524	9%
September	597	10%
October	580	10%
November	598	11%
December	582	10%
<b>Total</b>	<b>5687</b>	<b>100%</b>

58% of the neonatal deaths recorded were of female children.

<b>Gender</b>	<b>No. of Deaths reported</b>	<b>Percentage</b>
Female	3297	58%
Male	2390	42%
<b>Total</b>	<b>5687</b>	<b>100%</b>

The causes for 32% 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 2018	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accidents	46	1%	1%	1%	1%	0%	0%
Convulsions	204	4%	3%	4%	3%	3%	2%
Fever	79	1%	2%	2%	2%	3%	2%
Neonatal Jaundice	207	4%	3%	4%	3%	4%	3%
Low Birth Weight	611	11%	13%	16%	17%	14%	11%
Diarrhea	70	1%	1%	1%	1%	1%	1%
Pneumonia	359	6%	6%	8%	7%	7%	8%
T.B.	4	0%	0%	0%	0%	0%	0%
Birth Asphyxia	1141	20%	23%	59%	61%	63%	60%
Neonatal sepsis	659	12%	8%				
Congenital Heart Disease/Anomalies	123	2%	1%	1%			
Digestive Diseases	99	2%	2%	3%			
Genito-urinary Diseases	15	0%	0%	0%			
Neonatal Diabetes	10	0%	0%	0%			
Sickle Cell Anemia	7	0%	0%	0%			
Neonatal Cancer	4	0%	0%	0%			
Others	2049	36%	37%	1%	5%	6%	12%
<b>Total</b>	<b>5687</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

**Reported symptoms of Neonatal sepsis:**

Reported Symptoms	No.of Deaths	%
<i>Pus on umbilicus</i>	29	4.40%
<i>Distended abdomen</i>	61	9.26%
<i>Hypothermia</i>	16	2.43%
<i>Cry weak/stopped</i>	9	1.37%
<i>Increased Respiratory Rate</i>	114	17.30%
<i>Unconsciousness</i>	57	8.65%
<i>Feeding less/stopped</i>	373	56.60%
<b>Total</b>	<b>659</b>	<b>100%</b>

57% of deaths reported as feeding less or stopped, is the most common cause of neonatal sepsis deaths.

## **5.2 District wise no. of Post-Neonatal Infant Deaths (1 to 11 months age group) in 2018**

The report covers 1524 of the total 7300 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 21%. The reporting percentage is higher from districts like Dantewada, Sukma, Bijapur and is low from districts like Balod, Kanker and Raigarh.

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt of CG)	Expected no. of Post-Neonatal deaths	No. of Post-Neonatal Deaths Reported in 2017	No. of Post-Neonatal Deaths Reported in 2018	Reporting %
1	Dantewada	263120	95	34	19	20%
2	Sukma	217761	78	35	31	40%
3	Bijapur	240724	86	49	35	40%
4	Narayanpur	133878	36	4	12	33%
5	Balrampur	770812	437	68	86	20%
6	Korba	877295	222	32	55	25%
7	Kawardha	978464	434	101	88	20%
8	Bemetara	659975	175	70	72	41%
9	Raipur	1728731	327	100	90	28%
10	Bilaspur	1834914	485	106	149	31%
11	Mahasamund	1059122	454	71	90	20%
12	Rajnandgaon	1464424	396	109	129	33%
13	Kondagaon	570251	157	45	23	15%
14	Durg	1182272	314	65	67	21%
15	Mungeli	685276	181	56	47	26%
16	Balodabazar	1166466	221	103	73	33%
17	Gariyaband	431622	82	58	31	38%
18	Koria	497479	163	19	13	8%
19	Dhamtari	717872	172	70	60	35%
20	Bastar	823806	227	61	41	18%
21	Surguja	861142	488	70	41	8%
22	Jashpur	864871	384	74	45	12%
23	Surajpur	817943	464	51	44	9%
24	Janjgir	1650727	447	92	77	17%
25	Raigarh	1427206	460	54	52	11%
26	Kanker	752228	278	31	22	8%
27	Balod	548701	146	48	32	22%
	<b>State</b>	<b>23227082</b>	<b>7300</b>	<b>1676</b>	<b>1524</b>	<b>21%</b>

The post-neonatal infant deaths recorded monthly are slightly higher during January, March and September.

<b>Month</b>	<b>No.of Death Reported 2018</b>	<b>%</b>
January	145	10%
February	131	9%
March	155	10%
April	99	6%
May	105	7%
June	89	6%
July	100	7%
August	127	8%
September	169	11%
October	140	9%
November	129	8%
December	135	9%
<b>Total</b>	<b>1524</b>	<b>100%</b>

53% of the post-neonatal deaths recorded were of male children.

<b>Gender</b>	<b>No.of Death Reported 2018</b>	<b>%</b>
Male	815	53%
Female	709	47%
<b>Total</b>	<b>1524</b>	<b>100%</b>

**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, Diarrhea and convulsion were also important causes.**

<b>Reported Causes</b>	<b>No.of Deaths reported in 2018</b>	<b>% in 2018</b>	<b>% in 2017</b>	<b>% in 2016</b>	<b>% in 2015</b>	<b>% in 2014</b>	<b>% in 2013</b>
Accident	62	4.1%	3%	4%	5%	1%	4%
Convulsion	87	5.7%	4%	5%	3%	2%	2%
Fever/Malaria	93	6.1%	7%	9%	10%	13%	16%
Childhood Jaundice	82	5.4%	4%	4%	3%	4%	5%
Malnutrition	137	9.0%	8%	15%	8%	10%	8%
Pneumonia	366	24.0%	19%	35%	30%	28%	20%
Snake bite	5	0.3%	0%	0%	0%	0%	0%
Diarrhea	78	5.1%	5%	7%	6%	6%	8%
T.B.	5	0.3%	0%	0%	0%	0%	1%
Congenital Heart Disease/Anomalies	127	8.3%	8%	10%			
Digestive Diseases	77	5.1%	3%	5%			
Genito-urinary Diseases	7	0.5%	0%	0%			
Diabetes	3	0.2%	0%	0%			
Sickle Cell Anemia	11	0.7%	0%	0%			
Cancer	13	0.9%	1%	0%			
Others	371	24.3%	37%	4%	35%	35%	35%
<b>Total</b>	<b>1524</b>	<b>100.0%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

### 5.3 District wise no. of Child Deaths (1 to 4 years) in 2018

The report covers 1319 of the total 8,865 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 15%. The reporting percentage is higher from districts like Sukma, Dantewada, Narayanpur, and is low from districts like Dhamtari, Balod, Kanker.

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt of CG)	Expected no. of deaths in 1-4 years	No. of Child Deaths Reported in 2017	No. of Child Deaths Reported in 2018	Reporting %
1	Sukma	217761	98	34	43	44%
2	Dantewada	263120	112	42	20	18%
3	Narayanpur	133878	39	20	13	33%
4	Bijapur	240724	97	47	31	32%
5	Balrampur	770812	779	106	80	10%
6	Gariyaband	431622	133	53	41	31%
7	Jashpur	864871	549	75	69	13%
8	Kawardha	978464	434	77	66	15%
9	Koria	497479	172	28	15	9%
10	Raipur	1728731	572	98	67	12%
11	Balodabazar	1166466	331	101	79	24%
12	Kondagaon	570251	157	33	21	13%
13	Korba	877295	185	64	35	19%
14	Surajpur	817943	847	65	63	7%
15	Surguja	861142	913	74	50	5%
16	Mungeli	685276	264	63	45	17%
17	Bastar	823806	210	92	43	20%
18	Rajnandgaon	1464424	297	104	90	30%
19	Mahasamund	1059122	250	92	59	24%
20	Raigarh	1427206	403	68	61	15%
21	Durg	1182272	246	88	48	19%
22	Bilaspur	1834914	662	111	82	12%
23	Bemetara	659975	125	100	36	29%
24	Janjgir	1650727	383	128	78	20%
25	Dhamtari	717872	129	60	38	29%
26	Balod	548701	94	56	30	32%
27	Kanker	752228	249	39	16	6%
<b>State</b>		<b>23227082</b>	<b>8865</b>	<b>3006</b>	<b>1319</b>	<b>15%</b>

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

<b>Month</b>	<b>No.of Death Reported 2018</b>	<b>%</b>
January	93	7%
February	81	6%
March	101	8%
April	87	7%
May	89	7%
June	106	8%
July	117	9%
August	138	10%
September	140	11%
October	152	12%
November	122	9%
December	93	7%
<b>Total</b>	<b>1319</b>	<b>100%</b>

56% of the 1-4 year age group deaths recorded were of male children.

<b>Gender</b>	<b>No.of Death Reported 2018</b>	<b>%</b>
Male	742	56%
Female	577	44%
<b>Total</b>	<b>1319</b>	<b>100%</b>

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

Reported Causes	No.of Deaths reported in 2018	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accident	206	15.6%	14%	14%	12%	10%	12%
Convulsion	99	7.5%	7%	7%	5%	3%	4%
Fever/Malaria	145	11.0%	11%	17%	17%	21%	20%
Jaundice	84	6.4%	6%	8%	6%	6%	6%
Malnutrition	88	6.7%	6%	10%	6%	5%	5%
Pneumonia	101	7.7%	10%	13%	10%	10%	7%
Snake bite	25	1.9%	2%	2%	1%	2%	2%
Diarrhea	59	4.5%	6%	8%	7%	6%	5%
T.B.	6	0.5%	1%	0%	1%	1%	1%
Dog bite	6	0.5%	0%	0%	1%	1%	1%
Congenital Heart Disease/Anomalies	86	6.5%	7%	8%			
Digestive Diseases	63	4.8%	6%	7%			
Genito-urinary Diseases	5	0.4%	0%	0%			
Diabetes	7	0.5%	0%	0%			
Sickle Cell Anemia	32	2.4%	2%	2%			
Cancer	33	2.5%	2%	1%			
Other	274	20.8%	20%	2%	35%	35%	37%
<b>Total</b>	<b>1319</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

**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 263 deaths during 2018 for which the cause is recorded as maternal death.

S.N.	District	Rural Projected Population 2019-20 (Statistical Dept Govt of CG)	No.of Maternal Death reported by VHSNC in 2017	No.of Maternal Death reported by VHSNC in 2018
1	Sukma	217761	8	6
2	Bijapur	240724	4	6
3	Mungeli	685276	20	15
4	Balrampur	770812	18	15
5	Narayanpur	133878	1	2
6	Korba	877295	3	10
7	Mahasamund	1059122	23	20
8	Janjgir	1650727	25	28
9	Durg	1182272	9	15
10	Bilaspur	1834914	23	23
11	Kondagaon	570251	8	4
12	Kawardha	978464	11	11
13	Surguja	861142	4	10
14	Surajpur	817943	9	12
15	Balodabazar	1166466	18	14
16	Raipur	1728731	25	10
17	Koria	497479	5	2
18	Kanker	752228	4	5
19	Bastar	823806	5	6
20	Balod	548701	10	7
21	Dantewada	263120	2	1
22	Raigarh	1427206	16	10
23	Bemetara	659975	6	6
24	Dhamtari	717872	22	7
25	Rajnandgaon	1464424	19	11
26	Gariyaband	431622	12	3
27	Jashpur	864871	7	4
<b>State</b>		<b>23227082</b>	<b>317</b>	<b>263</b>

### Month wise no. of Maternal Deaths reported:

The number of deaths per month is slightly higher during July, August and November.

Month	No.of Death Reported	Percentage
January	17	6%
February	16	6%
March	13	5%
April	16	6%
May	22	8%
June	22	8%
July	29	11%
August	35	13%
September	21	8%
October	20	8%
November	29	11%
December	23	9%
<b>Total</b>	<b>263</b>	<b>100%</b>

### Cause wise no. of Maternal death in 2018

S.N.	Reported Causes	No. of Deaths	%
1	Maternal causes	234	89%
2	Accidents	10	4%
3	Jaundice	7	2.5%
4	Suicide	3	1%
5	Fever/ Malaria	2	0.7%
6	Sickle Cell Disease	2	0.7%
7	Cancer	2	0.7%
8	Malnutrition	1	0.35%
9	Heart Disease	1	0.35%
10	Digestive Disease	1	0.35%
	<b>Total</b>	<b>263</b>	<b>100%</b>

## **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 reported as being due to preventable causes. The pattern also shows that among such reasons, communicable diseases like Malaria, Diarrhea, Pneumonia are most important contributors.

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

S.N.	District	Total deaths among listed causes by VHSNC in 2018	% 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 Cardiovascular deaths
1	BALOD	2482	0.9%	1.4%	0.5%	2.3%	2.5%	8.6%	5.8%	0.2%	0.3%	0.0%	0.3%	4.2%	1.0%	0.7%	48.8%
2	BALODABAZAR	3330	4.0%	1.0%	1.4%	3.1%	3.2%	10.0%	5.9%	0.3%	0.5%	0.2%	0.4%	5.6%	1.8%	1.2%	41.3%
3	BALRAMPUR	2149	2.5%	0.8%	2.3%	3.6%	2.6%	16.0%	5.6%	0.9%	3.0%	0.0%	0.7%	7.7%	2.3%	1.4%	30.2%
4	BASTAR	2104	4.9%	2.9%	3.0%	3.2%	4.8%	11.5%	4.0%	0.7%	0.9%	0.0%	0.3%	6.3%	2.1%	2.7%	29.6%
5	BEMETARA	2214	1.9%	2.1%	0.4%	2.8%	2.2%	10.7%	4.4%	0.3%	0.9%	0.1%	0.3%	7.0%	2.1%	1.3%	41.3%
6	BIJAPUR	766	8.1%	7.7%	2.9%	2.6%	5.6%	14.5%	6.0%	2.2%	4.0%	0.1%	0.8%	6.4%	1.7%	1.3%	15.8%
7	BILASPUR	5039	2.8%	2.1%	0.8%	2.6%	2.1%	10.2%	4.0%	0.7%	0.8%	0.1%	0.5%	6.4%	1.3%	1.3%	43.8%
8	DANTEWADA	362	8.0%	4.4%	1.1%	2.5%	8.6%	10.5%	8.8%	2.8%	2.5%	0.3%	0.3%	8.3%	4.1%	3.0%	11.3%
9	DHAMTARI	2900	1.5%	1.2%	0.6%	2.1%	2.2%	8.3%	7.1%	0.2%	0.4%	0.1%	0.2%	4.5%	1.3%	0.8%	46.4%
10	DURG	2929	0.8%	0.9%	0.7%	2.3%	1.7%	8.0%	5.2%	0.5%	0.5%	0.1%	0.5%	6.1%	0.9%	1.1%	50.8%
11	GARIYABAND	1427	2.7%	1.7%	0.8%	4.0%	3.7%	8.8%	7.4%	0.7%	0.5%	0.1%	0.2%	7.1%	1.8%	1.6%	32.9%
12	JANJGIR	5089	1.6%	0.7%	0.8%	2.7%	1.6%	10.2%	4.6%	0.4%	1.0%	0.1%	0.6%	4.8%	1.0%	1.3%	48.7%
13	JASHPUR	2560	3.9%	0.7%	2.1%	2.1%	4.1%	14.4%	5.3%	1.3%	1.0%	0.2%	0.2%	3.7%	1.9%	0.6%	36.4%
14	KANKER	1615	1.4%	1.6%	1.5%	2.8%	4.1%	10.4%	5.0%	0.5%	0.5%	0.2%	0.3%	3.7%	2.2%	0.6%	36.7%
15	KAWARDHA	2520	1.6%	1.9%	1.2%	3.0%	1.9%	9.2%	3.2%	0.9%	1.2%	0.1%	0.4%	6.0%	1.8%	1.9%	48.8%
16	KONDAGAON	900	3.4%	4.1%	3.1%	2.6%	3.6%	9.6%	7.2%	1.3%	0.7%	0.2%	0.4%	6.3%	3.7%	2.2%	31.0%
17	KORBA	1540	1.7%	1.6%	1.0%	2.3%	2.8%	12.1%	6.9%	1.1%	1.2%	0.0%	0.6%	5.9%	1.5%	2.0%	39.0%
18	KORIA	605	4.3%	0.3%	2.3%	1.5%	2.3%	12.2%	4.0%	1.0%	1.2%	0.0%	0.3%	7.9%	2.5%	0.8%	28.1%
19	MAHASAMUND	3358	1.5%	1.2%	1.0%	2.5%	2.5%	10.0%	6.4%	0.3%	0.6%	0.0%	0.6%	6.4%	2.7%	0.8%	38.0%
20	MUNGELI	2141	1.4%	1.1%	1.2%	2.8%	1.8%	9.9%	3.2%	0.5%	0.8%	0.2%	0.7%	8.9%	1.7%	2.0%	42.9%
21	NARAYANPUR	292	4.8%	2.1%	4.5%	2.7%	7.2%	13.4%	8.6%	4.1%	0.3%	0.3%	0.7%	3.1%	5.5%	1.0%	21.2%
22	RAIGARH	3662	3.3%	0.8%	1.9%	2.7%	3.2%	8.7%	3.8%	0.7%	1.3%	0.1%	0.3%	5.7%	2.0%	1.7%	43.8%
23	RAIPUR	2808	2.7%	1.6%	0.5%	3.0%	2.5%	10.4%	6.6%	0.7%	0.7%	0.1%	0.4%	6.5%	2.0%	1.7%	38.5%
24	RAJNANDGAON	4894	0.9%	1.4%	0.9%	2.2%	2.2%	8.9%	4.0%	0.6%	1.0%	0.1%	0.2%	6.8%	1.7%	1.4%	46.8%
25	SUKMA	604	8.4%	5.5%	5.6%	4.5%	8.1%	9.4%	6.5%	2.5%	2.3%	0.2%	1.0%	8.8%	2.3%	6.5%	14.2%
26	SURAJPUR	2809	1.4%	0.8%	1.0%	1.7%	2.7%	14.5%	5.1%	1.1%	0.9%	0.1%	0.4%	6.1%	1.1%	0.4%	36.3%
27	SURGUJA	2302	4.0%	0.8%	2.2%	2.7%	2.5%	14.6%	5.3%	0.7%	0.5%	0.3%	0.4%	5.4%	0.9%	0.8%	34.1%
	<b>State</b>	<b>63401</b>	<b>2.4%</b>	<b>1.5%</b>	<b>1.3%</b>	<b>2.6%</b>	<b>2.7%</b>	<b>10.6%</b>	<b>5.1%</b>	<b>0.7%</b>	<b>0.9%</b>	<b>0.1%</b>	<b>0.4%</b>	<b>5.9%</b>	<b>1.7%</b>	<b>1.3%</b>	<b>40.8%</b>

## **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 8874 Urban-Slum deaths that were recorded by MAS during the year 2018. The deaths covered in 2018 compilation constitute 75% 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.

<b>Deaths</b>	<b>Expected urban slum Deaths</b>	<b>No.of reported deaths in 2015</b>	<b>%</b>	<b>No.of reported deaths in 2016</b>	<b>%</b>	<b>No.of reported deaths in 2017</b>	<b>%</b>	<b>No.of reported deaths in 2018</b>	<b>%</b>
<b>Overall Deaths</b>	<b>11863</b>	<b>2764</b>	<b>23%</b>	<b>8162</b>	<b>69%</b>	<b>9177</b>	<b>77%</b>	<b>8874</b>	<b>75%</b>
Neonatal Deaths	830	525	63%	743	89%	703	85%	659	79%
1-11 month age group Deaths	435	97	22%	173	40%	158	36%	122	28%
1-4 Year age group Deaths	119	60	51%	114	96%	127	107%	97	82%
Maternal Deaths	96	14	15%	26	27%	35	36%	14	15%
Other age groups	10383	2068	20%	7106	68%	8154	79%	7982	77%

### Urban-slum city wise no. of deaths reported

S.N.	Name of City	Expected no. of deaths	No. of Deaths Reported in 2015	Reporting % in 2015	No. of Deaths Reported in 2016	Reporting % in 2016	No. of Deaths Reported in 2017	Reporting % in 2017	No. of Deaths Reported in 2018	Reporting % in 2018
1	Ambikapur	291	58	20%	75	26%	115	40%	121	42%
2	Bhatapara	206	57	28%	206	100%	185	90%	195	94%
3	Bhillai	1593	178	11%	733	46%	765	48%	958	60%
4	Bilaspur	1194	193	16%	697	58%	936	78%	696	58%
5	Birgaon	286	28	10%	132	46%	196	69%	174	61%
6	Charoda	362	140	39%	358	99%	336	93%	344	95%
7	Chirmiri	382	97	25%	290	76%	250	66%	204	53%
8	Dhamtari	401	150	37%	435	109%	380	95%	442	110%
9	Durg	760	155	20%	840	110%	883	116%	844	111%
10	Jagdarpur	334	50	15%	190	57%	295	88%	274	82%
11	Janjgir	80	74	93%	154	193%	167	210%	162	203%
12	Kanker	75	47	63%	162	217%	160	214%	128	171%
13	Kawardha	67	48	72%	150	226%	125	188%	141	212%
14	Korba	1454	160	11%	501	34%	681	47%	645	44%
15	Mahasamund	255	71	28%	160	63%	129	51%	170	67%
16	Mungeli	161	51	32%	94	58%	118	73%	53	33%
17	Raigarh	540	141	26%	545	101%	493	91%	528	98%
18	Raipur	2788	942	34%	1930	69%	2300	82%	2229	80%
19	Rajnandgaon	636	124	19%	510	80%	663	104%	566	89%
<b>TOTAL</b>		<b>11863</b>	<b>2764</b>	<b>23%</b>	<b>8162</b>	<b>69%</b>	<b>9177</b>	<b>77%</b>	<b>8874</b>	<b>75%</b>

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**

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.

S.N.	Reported Causes	<1 month	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	6	3	11	44	373	79	46	54	616
2	Convulsions	10	2	5	1	22	0	1	1	42
3	Fever/ Malaria	7	6	12	28	72	20	18	65	228
4	Neonatal Jaundice	14								14
5	Jaundice		8	3	5	81	19	12	11	139
6	Low Birth Weight	23								23
7	Malnutrition		6	5	1					12
8	Diarrhea	4	5	2	4	14	7	3	6	45
9	Pneumonia	10	19	11	2	15	5	2	1	65
10	Congenital Heart Disease/Anomalies	5	13	11	17					46
11	Stroke					33	59	82	149	323
12	High BP/Heart Diseases					488	421	504	615	2028
13	Digestive Diseases	2	5	5	5	160	59	42	33	311
14	Genito-urinary Diseases	1	0	1	0	7	2	3	2	16
15	Diabetes	1	0	0	2	62	51	107	103	326
16	HIV/AIDS	0	0	0	0	31	5	2	2	40
17	T.B.	0	0	3	0	146	46	34	33	262
18	Snake Bite		1	2	2	3	2	2	0	12
19	Rabies			1	1	2	0	0	1	5
20	Birth Asphyxia	194								194
21	Neonatal Sepsis	77								77
22	Maternal causes					14				14
23	Murder					28	1	3	1	33
24	Suicide					363	23	20	10	416
25	Sickle Cell Anemia			7	8	32	1	3	0	51
26	Cancer	0	0	3	6	176	122	95	93	495
27	Others	305	54	15	51	460	274	436	1447	3041
<b>Total</b>		<b>659</b>	<b>122</b>	<b>97</b>	<b>177</b>	<b>2582</b>	<b>1196</b>	<b>1415</b>	<b>2627</b>	<b>8874</b>

### Classification of causes of Neonatal Deaths (below age of 1 month):

659 Neonatal deaths were reported by MAS. An attempt has been made to further unpack this category by causes. For this purpose, a sample of 77 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	6	0.91%
Convulsion	10	1.52%
Fever	7	1.06%
Neonatal Jaundice	14	2.12%
Low Birth Weight	23	3.49%
Diarrhea	4	0.61%
Pneumonia	10	1.52%
T.B.	0	0.00%
Congenital Heart Disease/Anomalies	5	0.76%
Digestive Diseases	2	0.30%
Genito-urinary Diseases	1	0.15%
Neonatal Diabetes	1	0.15%
Sickle Cell Anemia	0	0.00%
Neonatal Cancer	0	0.00%
Birth Asphyxia	194	29.44%
Neonatal sepsis	77	11.68%
Other	305	46.28%
<b>Total</b>	<b>659</b>	<b>100.00%</b>

29% deaths due birth asphyxia 194, is the most common cause of neonatal deaths. Sepsis 77 is also an important reported cause of neonatal deaths.

Reported Symptoms	No. of Deaths	%
Pus on umbilicus	2	2.60%
Distended abdomen	5	6.49%
Hypothermia	8	10.39%
Cry weak/stopped	1	1.30%
Increased Respiratory Rate	25	32.47%
Unconsciousness	10	12.99%
Feeding less/stopped	26	33.77%
<b>Total</b>	<b>77</b>	<b>100.00%</b>

34% deaths reported as feeding less or stopped, is the most common cause of neonatal sepsis deaths.

<b>Year</b>	<b>0-59 yrs Total deaths</b>	<b>0-59 yrs Fever deaths</b>	<b>Total Fever in 5 tribal area cities</b>	<b>%</b>	<b>0-59 yrs Pneumonia</b>	<b>%</b>	<b>0-59 yrs Diarrhea</b>	<b>%</b>
2015	2067	100	28	1.4%	67	3.2%	32	1.5%
2016	7092	97	34	0.5%	59	0.8%	61	0.9%
2017	7239	120	46	0.6%	76	1.0%	53	0.7%
2018	6715	145	27	0.4%	62	0.9%	36	0.5%

## 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	<1 month	1 to 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	46	62	206	465	3778	722	528	894	6701
2	Convulsions	204	87	99	78	233	40	40	70	851
3	Fever/ Malaria	79	93	145	132	365	137	140	436	1527
4	Neonatal Jaundice	207								207
5	Jaundice		82	84	150	743	148	117	143	1467
6	Low Birth Weight	611								611
7	Malnutrition		137	88	24	26	1	1	11	288
8	Diarrhea	70	78	59	62	191	67	92	203	822
9	Pneumonia	359	366	101	39	51	4	9	16	945
10	T.B.	4	5	6	19	673	313	351	362	1733
11	Snake Bite		5	25	113	292	67	44	46	592
12	Rabies			6	17	34	8	4	9	78
13	Birth Asphyxia	1141								1141
14	Neonatal Sepsis	659								659
15	Maternal causes					218				218
16	Murder					287	63	47	31	428
17	Suicide					2529	348	196	170	3243
18	Cancer	4	13	33	86	1543	1033	883	855	4450
19	HIV/AIDS				9	74	6	3	1	93
20	Congenital Heart Disease/Anomalies	123	127	86	205					541
21	Stroke					574	759	1547	4190	7070
22	High BP/Heart Disease					3305	2860	3955	8116	18236
23	Digestive Diseases	99	77	63	169	1639	873	777	1065	4762
24	Genito-urinary Diseases	15	7	5	3	132	71	50	85	368
25	Diabetes	10	3	7	22	596	595	760	1158	3151
26	Sickle Cell Anemia	7	11	32	81	316	29	23	26	525
27	Others	2049	371	274	528	4796	2852	4540	15085	30495
<b>Total</b>		<b>5687</b>	<b>1524</b>	<b>1319</b>	<b>2202</b>	<b>22395</b>	<b>10996</b>	<b>14107</b>	<b>32972</b>	<b>91202</b>

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

- In 0 to 1 month neonates, Birth Asphyxia 1141, Sepsis 659 and LBW 611 are the leading reported causes of death.
- In 1 to 11 months infants, Pneumonia 366, Malnutrition 137, Congenital Heart Disease 127 are the leading reported causes of death.
- In 1 to 4 years children, Accident 206, Fever/Malaria 145 and Pneumonia 101 are the leading reported causes of death.
- In 5 to 14 year age group, Accidents 465, Jaundice 150, Fever/Malaria 132 Snake-bite 113 are the leading reported causes of death.
- In 15-49 years age group, Accidents 3778, High BP 3305 and Suicides 2529 are the leading reported causes of death.
- In 50-59 years age group, High BP/Heart Diseases 2860, Cancer 1033, Digestive diseases 873, Stroke 759, and Accidents 722 are the leading reported causes of death.
- **For deaths in 60-69 years and 70 years and above age groups, High BP/Heart Diseases, Stroke, Cancer, Digestive diseases and Accidents are the leading reported causes.**

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

S.N.	Reported Causes	<1 month	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	6	3	11	44	373	79	46	54	616
2	Convulsions	10	2	5	1	22	0	1	1	42
3	Fever/ Malaria	7	6	12	28	72	20	18	65	228
4	Neonatal Jaundice	14								14
5	Jaundice		8	3	5	81	19	12	11	139
6	Low Birth Weight	23								23
7	Malnutrition		6	5	1					12
8	Diarrhea	4	5	2	4	14	7	3	6	45
9	Pneumonia	10	19	11	2	15	5	2	1	65
10	Congenital Heart Disease/Anomalies	5	13	11	17					46
11	Stroke					33	59	82	149	323
12	High BP/Heart Diseases					488	421	504	615	2028
13	Digestive Diseases	2	5	5	5	160	59	42	33	311
14	Genito-urinary Diseases	1	0	1	0	7	2	3	2	16
15	Diabetes	1	0	0	2	62	51	107	103	326
16	HIV/AIDS	0	0	0	0	31	5	2	2	40
17	T.B.	0	0	3	0	146	46	34	33	262
18	Snake Bite		1	2	2	3	2	2	0	12
19	Rabies			1	1	2	0	0	1	5
20	Birth Asphyxia	194								194
21	Neonatal Sepsis	77								77
22	Maternal causes					14				14
23	Murder					28	1	3	1	33
24	Suicide					363	23	20	10	416
25	Sickle Cell Anemia			7	8	32	1	3	0	51
26	Cancer	0	0	3	6	176	122	95	93	495
27	Others	305	54	15	51	460	274	436	1447	3041
	<b>Total</b>	<b>659</b>	<b>122</b>	<b>97</b>	<b>177</b>	<b>2582</b>	<b>1196</b>	<b>1415</b>	<b>2627</b>	<b>8874</b>

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.

## Annexure – I

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

VHSNCs have reported 1674 deaths during 2018 for which the cause is recorded as jaundice.

S.N.	District	No.of Death reported	%
1	Balod	57	3%
2	Balodabazar	104	6%
3	Balrampur	77	5%
4	Bastar	68	4%
5	Bemetara	62	4%
6	Bijapur	20	1%
7	Bilaspur	133	8%
8	Dantewada	9	1%
9	Dhamtari	60	4%
10	Durg	66	4%
11	Gariyaband	57	3%
12	Janjgir	136	8%
13	Jashpur	55	3%
14	Kanker	45	3%
15	Kawardha	76	5%
16	Kondagaon	23	1%
17	Korba	36	2%
18	Koria	9	1%
19	Mahasamund	84	5%
20	Mungeli	60	4%
21	Narayanpur	8	0%
22	Raigarh	99	6%
23	Raipur	83	5%
24	Rajnandgaon	109	7%
25	Sukma	27	2%
26	Surajpur	49	3%
27	Surguja	62	4%
<b>Total</b>		<b>1674</b>	<b>100%</b>

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

44% 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	<1 month	207	12%
2	1-11 month	82	5%
3	1-4 year	84	5%
4	5-14 year	150	9%
5	15-49year	743	44%
6	50-59year	148	9%
7	60-69year	117	7%
8	More than 70year	143	9%
<b>Total</b>		<b>1674</b>	<b>100%</b>

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

58% of the deaths due to jaundice are of males.

Gender	No.of Death Reported	Percentage
Male	968	58%
Female	706	42%
<b>Total</b>	<b>1674</b>	<b>100%</b>

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

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

Month	No. of Death Reported	Percentage
January	113	7%
February	89	5%
March	113	7%
April	112	7%
May	119	7%
June	138	8%
July	123	7%
August	187	11%
September	209	12%
October	183	11%
November	134	8%
December	154	9%
<b>Total</b>	<b>1674</b>	<b>100%</b>

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

VHSNCs have reported 899 deaths during 2018 for which the cause is recorded as malnutrition.

S.N.	District	No.of Death reported	%
1	Balod	27	3%
2	Balodabazar	39	4%
3	Balrampur	27	3%
4	Bastar	47	5%
5	Bemetara	49	5%
6	Bijapur	7	1%
7	Bilaspur	68	8%
8	Dantewada	9	1%
9	Dhamtari	42	5%
10	Durg	25	3%
11	Gariyaband	22	2%
12	Janjgir	51	6%
13	Jashpur	46	5%
14	Kanker	10	1%
15	Kawardha	45	5%
16	Kondagaon	18	2%
17	Korba	16	2%
18	Koria	6	1%
19	Mahasamund	51	6%
20	Mungeli	41	5%
21	Narayanpur	3	0%
22	Raigarh	54	6%
23	Raipur	51	6%
24	Rajnandgaon	76	8%
25	Sukma	16	2%
26	Surajpur	36	4%
27	Surguja	17	2%
<b>Total</b>		<b>899</b>	<b>100%</b>

**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 68% of these deaths are in below 1 month age group. Deaths due to malnutrition are high in the 1month-1 year age group.

S.N.	Age Category	No.of Death reported	%
1	<1 month	611	68%
2	1-11 month	137	15%
3	1-4 year	88	10%
4	5-14 year	24	3%
5	15-49year	26	3%
6	50-59year	1	0%
7	60-69year	1	0%
8	More than 70year	11	1%
<b>Total</b>		<b>899</b>	<b>100%</b>

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

55% of the deaths due to low birth weight and malnutrition are male.

Gender	No.of Death Reported	Percentage
Male	494	55%
Female	405	45%
<b>Total</b>	<b>899</b>	<b>100%</b>

**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 September.

Month	No.of Death Reported	%
January	85	9%
February	41	5%
March	65	7%
April	54	6%
May	48	5%
June	50	6%
July	86	10%
August	89	10%
September	120	13%
October	83	9%
November	87	10%
December	91	10%
<b>Total</b>	<b>899</b>	<b>100%</b>

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

VHSNCs have reported 428 deaths during 2018 for which the cause is recorded as murder.

<b>S.N.</b>	<b>District</b>	<b>No.of Death reported</b>	<b>%</b>
1	Balod	5	1%
2	Balodabazar	9	2%
3	Balrampur	19	4%
4	Bastar	14	3%
5	Bemetara	7	2%
6	Bijapur	17	4%
7	Bilaspur	33	8%
8	Dantewada	10	2%
9	Dhamtari	6	1%
10	Durg	16	4%
11	Gariyaband	10	2%
12	Janjgir	22	5%
13	Jashpur	32	7%
14	Kanker	8	2%
15	Kawardha	22	5%
16	Kondagaon	12	3%
17	Korba	17	4%
18	Koria	6	1%
19	Mahasamund	10	2%
20	Mungeli	10	2%
21	Narayanpur	12	3%
22	Raigarh	25	6%
23	Raipur	19	4%
24	Rajnandgaon	27	6%
25	Sukma	15	4%
26	Surajpur	30	7%
27	Surguja	15	4%
<b>Total</b>		<b>428</b>	<b>100%</b>

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

67% 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	%
1	15-49year	287	67%
2	50-59year	63	15%
3	60-69year	47	11%
4	More than 70year	31	7%
<b>Total</b>		<b>428</b>	<b>100%</b>

**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	%
Male	270	63%
Female	158	37%
<b>Total</b>	<b>428</b>	<b>100%</b>

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

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

Month	No.of Death Reported	%
January	35	8%
February	22	5%
March	37	9%
April	39	9%
May	37	9%
June	47	11%
July	27	6%
August	38	9%
September	37	9%
October	38	9%
November	38	9%
December	33	8%
<b>Total</b>	<b>428</b>	<b>100%</b>

### **3.6 Deaths due to HIV-AIDS:**

VHSNCs have reported 93 deaths during 2018 for which the cause is recorded as HIV-AIDS

<b>S.N.</b>	<b>District</b>	<b>No.of Death reported</b>	<b>%</b>
1	Balod	3	3%
2	Balodabazar	6	6%
3	Balrampur	8	9%
4	Bastar	5	5%
5	Bemetara	14	15%
6	Bijapur	1	1%
7	Bilaspur	22	24%
8	Dantewada	2	2%
9	Dhamtari	1	1%
10	Durg	6	6%
11	Gariyaband	0	0%
12	Janjgir	0	0%
13	Jashpur	0	0%
14	Kanker	0	0%
15	Kawardha	0	0%
16	Kondagaon	0	0%
17	Korba	0	0%
18	Koria	1	1%
19	Mahasamund	4	4%
20	Mungeli	0	0%
21	Narayanpur	0	0%
22	Raigarh	0	0%
23	Raipur	10	11%
24	Rajnandgaon	8	9%
25	Sukma	0	0%
26	Surajpur	2	2%
27	Surguja	0	0%
<b>Total</b>		<b>93</b>	<b>100%</b>

79% of these deaths are in 15-49 year age group.

S.N.	Age Category	No.of Death reported	%
1	<1 month	0	0.0%
2	1-11 month	0	0.0%
3	1-4 year	0	0.0%
4	5-14 year	9	9.7%
5	15-49year	74	79.6%
6	50-59year	6	6.5%
7	60-69year	3	3.2%
8	More than 70year	1	1.1%
<b>Total</b>		<b>93</b>	<b>100%</b>

**67% of the deaths are of male persons.**

Gender	No.of Death Reported	%
Male	62	67%
Female	31	33%
<b>Total</b>	<b>93</b>	<b>100%</b>

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

Month	No.of Death Reported	Percentage
January	3	3%
February	4	4%
March	6	6%
April	9	10%
May	7	8%
June	12	13%
July	5	5%
August	12	13%
September	12	13%
October	6	6%
November	11	12%
December	6	6%
<b>Total</b>	<b>93</b>	<b>100%</b>

### **3.7 Deaths due to Genito-Urinary Disease:**

VHSNCs have reported 368 deaths during 2018 for which the cause is recorded as Genito-urinary disease

<b>S.N.</b>	<b>District</b>	<b>No.of Death reported</b>	<b>%</b>
1	Balod	18	5%
2	Balodabazar	20	5%
3	Balrampur	9	2%
4	Bastar	10	3%
5	Bemetara	5	1%
6	Bijapur	3	1%
7	Bilaspur	25	7%
8	Dantewada	0	0%
9	Dhamtari	26	7%
10	Durg	9	2%
11	Gariyaband	19	5%
12	Janjgir	35	10%
13	Jashpur	6	2%
14	Kanker	12	3%
15	Kawardha	12	3%
16	Kondagaon	12	3%
17	Korba	18	5%
18	Koria	2	1%
19	Mahasamund	33	9%
20	Mungeli	3	1%
21	Narayanpur	0	0%
22	Raigarh	21	6%
23	Raipur	3	1%
24	Rajnandgaon	48	13%
25	Sukma	3	1%
26	Surajpur	5	1%
27	Surguja	11	3%
<b>Total</b>		<b>368</b>	<b>100%</b>

36% of these deaths are in 15-49 year age group

S.N.	Age Category	No.of Death reported	%
1	<1 month	15	4.1%
2	1-11 month	7	1.9%
3	1-4 year	5	1.4%
4	5-14 year	3	0.8%
5	15-49year	132	35.9%
6	50-59year	71	19.3%
7	60-69year	50	13.6%
8	More than 70year	85	23.1%
<b>Total</b>		<b>368</b>	<b>100.0%</b>

66% of the deaths are of male persons.

Gender	No.of Death Reported	%
Male	244	66%
Female	124	34%
<b>Total</b>	<b>368</b>	<b>100%</b>

The number of deaths per month is highest in September- October.

Month	No.of Death Reported	%
January	7	2%
February	5	1%
March	14	4%
April	10	3%
May	16	4%
June	31	8%
July	20	5%
August	24	7%
September	78	21%
October	89	24%
November	47	13%
December	27	7%
<b>Total</b>	<b>368</b>	<b>100%</b>

## Annexure – II

**Table No.13 District wise no. of Deaths in 5 to 14 years age group in 2018**

The report covers 2202 deaths in the 5-14 year age group in rural areas of the state.

S.N.	District	No.of Death reported	%
1	Balod	41	2%
2	Balodabazar	104	5%
3	Balrampur	135	6%
4	Bastar	84	4%
5	Bemetara	86	4%
6	Bijapur	45	2%
7	Bilaspur	192	9%
8	Dantewada	25	1%
9	Dhamtari	62	3%
10	Durg	71	3%
11	Gariyaband	58	3%
12	Janjgir	154	7%
13	Jashpur	88	4%
14	Kanker	45	2%
15	Kawardha	105	5%
16	Kondagaon	38	2%
17	Korba	75	3%
18	Koria	24	1%
19	Mahasamund	78	4%
20	Mungeli	109	5%
21	Narayanpur	11	0%
22	Raigarh	83	4%
23	Raipur	87	4%
24	Rajnandgaon	147	7%
25	Sarguja	96	4%
26	Sukma	41	2%
27	Surajpur	120	5%
	<b>TOTAL</b>	<b>2202</b>	<b>100%</b>

**Table No.14 Month wise no. of Deaths in 5 to 14 years age group in 2018**

The 5-14 year age group deaths recorded monthly are higher during June to October.

<b>Month</b>	<b>No.of Death Reported</b>	<b>%</b>
January	139	6%
February	130	6%
March	174	8%
April	170	8%
May	167	8%
June	205	9%
July	212	10%
August	203	9%
September	250	11%
October	204	9%
November	175	8%
December	174	8%
<b>Total</b>	<b>2202</b>	<b>100%</b>

**Table No.15 Gender wise no. of Deaths in 5 to 14 years age group in 2018**

55% of the 5-14 year age group deaths recorded were of male children.

<b>Gender</b>	<b>No.of Death Reported</b>	<b>%</b>
Male	1205	55%
Female	997	45%
<b>Total</b>	<b>2202</b>	<b>100%</b>

**Table No.16 Cause wise no. of Deaths in 5 to 14 years age group in 2018**

In 5 to 14 year age group, Accidents 465, Jaundice 150, Fever/Malaria 132 Snake-bite 113 are the leading reported causes of death. Malaria is decreasing and Accidents are increasing

<b>Reported Causes</b>	<b>No.of Deaths reported in 2018</b>	<b>% in 2018</b>	<b>% in 2017</b>	<b>% in 2016</b>	<b>% in 2015</b>	<b>% in 2014</b>	<b>% in 2013</b>
Accident	465	21%	21%	18%	15%	12%	14%
Convulsion	78	4%	4%	3%	2%	2%	1%
Fever/Malaria	132	6%	10%	12%	14%	16%	17%
Jaundice	150	7%	7%	7%	6%	7%	6%
Malnutrition	24	1%	1%	1%	1%	1%	1%
Pneumonia	39	2%	2%	2%	2%	2%	1%
Snake bite	113	5%	5%	4%	5%	5%	4%
Diarrhea	62	3%	4%	4%	3%	4%	3%
T.B.	19	1%	1%	1%	1%	1%	1%
Dog bite	17	1%	1%	1%	1%	1%	2%
Congenital Heart Disease/Anomalies	205	9%	8%	3%			
Digestive Disease	169	8%	7%	5%			
Genito-urinary disease	3	0%	0%	0%			
Diabetes	22	1%	1%	1%			
Cancer	86	4%	3%	3%			
Sickle Cell Anemia	81	4%	4%	2%			
HIV/AIDS	9	0%	0%	0%			
Others	528	24%	23%	33%	49%	49%	50%
<b>Total</b>	<b>2202</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

**Table No.17 District wise no. of Deaths in 15 to 49 years age group in 2018**

The report covers 22395 deaths in the 15-49 year age group in rural areas of the state.

S.N.	District	No.of Death reported	%
1	Balod	845	4%
2	Balodabazar	1197	5%
3	Balrampur	775	3%
4	Bastar	812	4%
5	Bemetara	752	3%
6	Bijapur	365	2%
7	Bilaspur	1762	8%
8	Dantewada	190	1%
9	Dhamtari	987	4%
10	Durg	911	4%
11	Gariyaband	557	2%
12	Janjgir	1615	7%
13	Jashpur	973	4%
14	Kanker	705	3%
15	Kawardha	776	3%
16	Kondagaon	388	2%
17	Korba	640	3%
18	Koria	238	1%
19	Mahasamund	1236	6%
20	Mungeli	621	3%
21	Narayanpur	164	1%
22	Raigarh	1175	5%
23	Raipur	979	4%
24	Rajnandgaon	1720	8%
25	Sarguja	800	4%
26	Sukma	286	1%
27	Surajpur	924	4%
<b>TOTAL</b>		<b>22395</b>	<b>100%</b>

**Table No.18 Month wise no. of Deaths in 15 to 49 years age group in 2018**

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

<b>Month</b>	<b>No.of Death Reported</b>	<b>%</b>
January	1880	8%
February	1358	6%
March	1726	8%
April	1566	7%
May	1715	8%
June	2007	9%
July	1876	8%
August	2158	10%
September	2219	10%
October	2075	9%
November	1929	9%
December	1886	8%
<b>Total</b>	<b>22395</b>	<b>100%</b>

**Table No.19 Gender wise no. of Deaths in 15 to 49 years age group in 2018**

64% of the 15-49 year age group deaths recorded were of male persons.

<b>Gender</b>	<b>No.of Death Reported</b>	<b>%</b>
Male	14295	64%
Female	8100	36%
<b>Total</b>	<b>22395</b>	<b>100%</b>

**Table No.20 Cause wise no. of Deaths in 15 to 49 years age group in 2018**

In 15-49 years age group, Accidents 3778, High BP 3305 and Suicides 2529 are the leading reported causes of death . Deaths with Fever/Malaria are slightly decreased over last 5 years while Accidents increased.

<b>Reported Causes</b>	<b>No.of Deaths reported in 2018</b>	<b>% in 2018</b>	<b>% in 2017</b>	<b>% in 2016</b>	<b>% in 2015</b>	<b>% in 2014</b>	<b>% in 2013</b>
Accidental	3778	17%	16%	13%	14%	13%	12%
Convulsion	233	1%	1%	1%	1%	1%	1%
Fever/Malaria	365	2%	2%	3%	5%	6%	6%
Jaundice	743	3%	4%	4%	4%	4%	3%
Malnutrition	26	0%	0%	0%	0%	0%	0%
Murder	287	1%	1%	1%	1%	1%	1%
Pneumonia	51	0%	0%	0%	0%	0%	0%
Snake bite	292	1%	1%	2%	2%	2%	2%
Diarrhea	191	1%	1%	1%	1%	1%	2%
T.B.	673	3%	4%	4%	5%	4%	4%
Suicide	2529	11%	11%	10%	13%	12%	11%
Dog bite	34	0%	0%	0%	0%	0%	0%
Maternal cuase	218	1%	1%	1%	2%	2%	2%
Heart Disease/stroke	3879	17%	16%	8%			
Cancer	1543	7%	7%	6%			
Digestive Disease	1639	7%	6%	4%			
Diabetes	596	3%	3%	2%			
Sickle Cell Anemia	316	1%	1%	1%			
HIV/AIDS	74	0%	0%	0%			
Genito-urinary disease	132	1%	0%	0%			
Others	4796	21%	24%	37%	52%	54%	56%
<b>Total</b>	<b>22395</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

**Table No.21 District wise no. of Deaths in 50 to 59 years age group in 2018**

The report covers 10996 deaths in the 50-59 year age group in rural areas of the state.

S.N.	District	No.of Death reported	%
1	Balod	508	5%
2	Balodabazar	550	5%
3	Balrampur	346	3%
4	Bastar	363	3%
5	Bemetara	375	3%
6	Bijapur	132	1%
7	Bilaspur	770	7%
8	Dantewada	51	0%
9	Dhamtari	543	5%
10	Durg	525	5%
11	Gariyaband	304	3%
12	Janjgir	803	7%
13	Jashpur	500	5%
14	Kanker	348	3%
15	Kawardha	410	4%
16	Kondagaon	159	1%
17	Korba	236	2%
18	Koria	119	1%
19	Mahasamund	640	6%
20	Mungeli	300	3%
21	Narayanpur	51	0%
22	Raigarh	635	6%
23	Raipur	490	4%
24	Rajnandgaon	875	8%
25	Sarguja	388	4%
26	Sukma	99	1%
27	Surajpur	477	4%
<b>TOTAL</b>		<b>10996</b>	<b>100%</b>

**Table No.22 Month wise no. of Deaths in 50 to 59 years age group in 2018**

The 50-59 year age group deaths recorded monthly are slightly higher in September & October.

<b>Month</b>	<b>No.of Death Reported</b>	<b>%</b>
January	953	9%
February	647	6%
March	887	8%
April	678	6%
May	818	7%
June	863	8%
July	919	8%
August	986	9%
September	1126	10%
October	1113	10%
November	1015	9%
December	991	9%
<b>Total</b>	<b>10996</b>	<b>100%</b>

**Table No.23 Gender wise no. of Deaths in 50 to 59 years age group in 2018**

63% of the 50-59 year age group deaths recorded were of male persons.

<b>Gender</b>	<b>No. of Deaths Reported</b>	<b>%</b>
Male	6967	63%
Female	4029	37%
<b>Total</b>	<b>10996</b>	<b>100%</b>

**Table No.24 Cause wise no. of Deaths in 50 to 59 years age group in 2018**

In 50-59 years age group, High BP/Heart Diseases 2860 , Cancer 1033, Digestive diseases 873, Stroke 759, and Accidents 722 are the leading reported causes of death. Deaths with Fever/Malaria has halved over last 5 years.

<b>Reported Causes</b>	<b>No.of Deaths reported in 2018</b>	<b>% in 2018</b>	<b>% in 2017</b>	<b>% in 2016</b>	<b>% in 2015</b>	<b>% in 2014</b>	<b>% in 2013</b>
Accidental	722	7%	6%	6%	6%	5%	5%
Convulsion	40	0%	0%	0%	0%	0%	0%
Fever/Malaria	137	1%	1%	2%	4%	5%	4%
Jaundice	148	1%	2%	2%	2%	2%	1%
Malnutrition	1	0%	0%	0%	0%	0%	0%
Murder	63	1%	0%	1%	1%	1%	0%
Pneumonia	4	0%	0%	0%	0%	0%	0%
Snake bite	67	1%	1%	1%	1%	1%	1%
Diarrhea	67	1%	1%	1%	1%	1%	1%
T.B.	313	3%	4%	4%	5%	4%	5%
Suicide	348	3%	3%	3%	4%	3%	4%
Dog bite	8	0%	0%	0%	0%	0%	0%
Heart Disease/stroke	3619	33%	31%	12%			
Cancer	1033	9%	9%	8%			
Diabetes	595	5%	5%	6%			
Digestive Disease	873	8%	6%	4%			
Sickle Cell Anemia	29	0%	0%	0%			
Genito-urinary disease	71	1%	0%	0%			
HIV/AIDS	6	0%	0%	0%			
Other	2852	26%	29%	50%	76%	78%	79%
<b>Total</b>	<b>10996</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

**Table No.25 District wise no. of Deaths in 60 to 69 years age group in 2018**

The report covers 14107 deaths in the 60-69 year age group in rural areas of the state.

S.N.	District	No.of Death reported	%
1	Balod	650	5%
2	Balodabazar	787	6%
3	Balrampur	395	3%
4	Bastar	447	3%
5	Bemetara	466	3%
6	Bijapur	109	1%
7	Bilaspur	1041	7%
8	Dantewada	50	0%
9	Dhamtari	758	5%
10	Durg	677	5%
11	Gariyaband	329	2%
12	Janjgir	1197	8%
13	Jashpur	596	4%
14	Kanker	385	3%
15	Kawardha	494	4%
16	Kondagaon	189	1%
17	Korba	352	2%
18	Koria	118	1%
19	Mahasamund	779	6%
20	Mungeli	490	3%
21	Narayanpur	58	0%
22	Raigarh	922	7%
23	Raipur	631	4%
24	Rajnandgaon	1072	8%
25	Sarguja	445	3%
26	Sukma	88	1%
27	Surajpur	582	4%
<b>TOTAL</b>		<b>14107</b>	<b>100%</b>

**Table No.26 Month wise no. of Deaths in 60 to 69 years age group in 2018**

The 60-69 year age group deaths recorded monthly are slightly higher during September to December.

<b>Month</b>	<b>No.of Death Reported</b>	<b>%</b>
January	1245	9%
February	950	7%
March	1079	8%
April	936	7%
May	970	7%
June	1101	8%
July	1078	8%
August	1188	8%
September	1407	10%
October	1393	10%
November	1377	10%
December	1382	10%
<b>Total</b>	<b>14107</b>	<b>100%</b>

**Table No.27 Gender wise no. of Deaths in 60 to 69 years age group in 2018**

57% of the 60-69 year age group deaths recorded were of male persons.

<b>Gender</b>	<b>No.of Death Reported</b>	<b>%</b>
Male	8047	57%
Female	6060	43%
<b>Total</b>	<b>14107</b>	<b>100%</b>

**Table No.28 Cause wise no. of Deaths in 60 to 69 years age group in 2018**

For deaths in 60-69 years and 70 years and above age groups, High BP/Heart Diseases, Stroke, Cancer, Digestive diseases and Accidents are the leading reported causes. Deaths with Fever/Malaria have decreased and Accidents tripled over last 5 years.

<b>Reported Causes</b>	<b>No.of Deaths reported in 2018</b>	<b>% in 2018</b>	<b>% in 2017</b>	<b>% in 2016</b>	<b>% in 2015</b>	<b>% in 2014</b>	<b>% in 2013</b>
Accidental	528	4%	4%	4%	3%	2%	2%
Convulsion	40	0%	0%	0%	0%	0%	0%
Fever/Malaria	140	1%	1%	3%	4%	5%	4%
Jaundice	117	1%	1%	1%	1%	1%	1%
Malnutrition	1	0%	0%	0%	0%	0%	0%
Murder	47	0%	0%	0%	0%	0%	0%
Pneumonia	9	0%	0%	0%	0%	0%	0%
Snake bite	44	0%	0%	0%	0%	0%	0%
Diarrhea	92	1%	1%	1%	1%	1%	1%
T.B.	351	2%	3%	3%	3%	3%	2%
Suicide	196	1%	1%	1%	2%	1%	1%
Dog bite	4	0%	0%	0%	0%	0%	0%
Heart Disease/stroke	5502	39%	35%	11%			
Cancer	883	6%	6%	6%			
Diabetes	760	5%	6%	5%			
Digestive Disease	777	6%	5%	4%			
Sickle Cell Anemia	23	0%	0%	0%			
HIV/AIDS	3	0%	0%	0%			
Genito-urinary disease	50	0%	0%	0%			
Others	4540	32%	36%	61%	84%	86%	89%
<b>Total</b>	<b>14107</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

**Table No.29 District wise no. of Deaths in above 70 years age group in 2018**

The report covers 32972 deaths in the more than 70 year age group in rural areas of the state.

S.N.	District	No.of Death reported	%
1	Balod	1342	4%
2	Balodabazar	1777	5%
3	Balrampur	966	3%
4	Bastar	848	3%
5	Bemetara	1161	4%
6	Bijapur	153	0%
7	Bilaspur	2876	9%
8	Dantewada	52	0%
9	Dhamtari	1571	5%
10	Durg	1751	5%
11	Gariyaband	455	1%
12	Janjgir	3324	10%
13	Jashpur	1213	4%
14	Kanker	693	2%
15	Kawardha	1517	5%
16	Kondagaon	319	1%
17	Korba	667	2%
18	Koria	271	1%
19	Mahasamund	1561	5%
20	Mungeli	1327	4%
21	Narayanpur	63	0%
22	Raigarh	2208	7%
23	Raipur	1333	4%
24	Rajnandgaon	2509	8%
25	Sarguja	1314	4%
26	Sukma	85	0%
27	Surajpur	1617	5%
<b>TOTAL</b>		<b>32972</b>	<b>100%</b>

**Table No.30 Month wise no. of Deaths in above 70 years age group in 2018**

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

<b>Month</b>	<b>No.of Death reported</b>	<b>%</b>
January	3266	10%
February	2181	7%
March	2433	7%
April	1902	6%
May	2203	7%
June	2417	7%
July	2418	7%
August	2787	8%
September	3272	10%
October	3296	10%
November	3124	9%
December	3672	11%
<b>Total</b>	<b>32972</b>	<b>100%</b>

**Table No.31 Gender wise no. of Deaths in above 70 years age group in 2018**

55% of the More than 70 year age group deaths recorded were of male persons.

<b>Gender</b>	<b>No.of Death reported</b>	<b>%</b>
Male	18092	55%
Female	14880	45%
<b>Total</b>	<b>32972</b>	<b>100%</b>

**Table No.32 Cause wise no. of Deaths in above 70 years age group in 2018**

For these deaths, BP/ Heart disease/ Stroke, Diabetes and Digestive diseases are most common reported causes of death. Deaths with Fever/Malaria is constant and reported Accidents has increased 5 fold in the last 5 years.

Reported Causes	No.of Deaths reported in 2018	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accidental	894	3%	2%	2%	1%	1%	1%
Convulsion	70	0%	0%	0%	0%	0%	0%
Fever/Malaria	436	1%	1%	3%	3%	3%	2%
Jaundice	143	0%	1%	0%	0%	0%	0%
Malnutrition	11	0%	0%	0%	0%	0%	0%
Murder	31	0%	0%	0%	0%	0%	0%
Pneumonia	16	0%	0%	0%	0%	0%	0%
Snake bite	46	0%	0%	0%	0%	0%	0%
Diarrhea	203	1%	1%	1%	1%	1%	0%
T.B.	362	1%	1%	1%	1%	1%	1%
Suicide	170	1%	1%	0%	1%	1%	0%
Dog bite	9	0%	0%	0%	0%	0%	0%
Heart Disease/stroke	12306	37%	32%	6%			
Diabetes	1158	4%	3%	3%			
Digestive Disease	1065	3%	3%	2%			
Cancer	855	3%	3%	2%			
Genito-urinary disease	85	0%	0%	0%			
Sickle Cell Anemia	26	0%	0%	0%			
HIV/AIDS	1	0%	0%	0%			
Others	15085	46%	52%	78%	92%	93%	95%
<b>Total</b>	<b>32972</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>